

# City of Cocoa Beach

## Thousand Islands Management Plan



Cocoa Beach City Commission:

Mayor Joe Morgan  
Vice Mayor Pat Englehart  
Commissioner Bill Allen  
Commissioner Nancy Huey  
Commissioner Marvin Yarosh

Adopted October 1994

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**I. General Information**

**A. common Name of Property**

The property is commonly referred to as "The Thousand Islands".

**B. Site History**

The Thousand Islands are a group of approximately fifty (50) islands located in the Banana River within the city limits of Cocoa Beach. While most of them are naturally occurring Islands, some of them were created during the development of Cocoa Beach and its canals in the 1950's and 1960's. They range in size from a fraction of an acre to 200 acres, for a total of approximately 900 acres.

In 1986, concerned about the possible development of the islands, the city contacted the state and Brevard County for help in purchasing them. In 1988, the islands were purchased for \$3,230,950 with the city providing \$1,615,475, the state \$915,475 and Brevard County \$700,000. The state's portion was provided by the Land Acquisition Trust Fund (LATF).

**C. General Location**

The Thousand Islands are located in the Banana River west of the City of Cocoa Beach lying approximately 1/2 mile south of SR 520 and north of the Minutemen Causeway. A small portion of the acreage is adjacent to and south of the Minutemen Causeway. This southern portion totals approximately 65 acres. (See Location Map, Appendix A)

**D. Project Boundaries**

Refer to Boundary Map (Exhibit B). There are no man-made structures on the Thousand Islands.

**E. Legal Description**

Refer to the Legal Description of the leased premises (Exhibit A).

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**F. Length of Waterfront**

The length of the waterfront is approximately 16 miles. All of the waterfront is related to an island and is salt water.

**G. Access to the Property**

Access to the Thousand Islands is via boat from the Banana River or from the waterfront of the City of Cocoa Beach.

**H. Development Constraints which would Influence Management Options**

The wetland nature of the Thousand Islands would prevent the construction of facilities on a good portion of this parcel. In addition, development is constrained by the City of Cocoa Beach Comprehensive Plan, City Charter, City Code of Ordinances (including zoning regulations) and the Lease Agreement executed between the city and the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida (see Appendix B).

**I. Geographic Significance**

The Thousand Islands are adjacent to the Banana River Aquatic Preserve, which is managed by the Board of Trustees of the State of Florida Internal Improvement Trust Fund (Chapter 258, Florida Statutes).

**J. Title Interest**

Full title to the property is held by the Board of Trustees of the Internal Improvement Trust Fund (refer to Closing Statement, Appendix C).

**K. Land Acquisition Program**

The Thousand Islands property was acquired under the Land Acquisition Trust Fund Program (LATF).

**L. Proposed Single Use**

The City of Cocoa Beach shall use this Management Plan to keep the islands in their natural state primarily for the maintenance of natural conditions to encourage the propagation of fish, birds and wildlife, mangroves and native vegetation, as allowed under Florida Statute. Secondary uses shall be limited to passive recreation, re-establishment of natural vegetation, mosquito control and dredged material deposit. Dredged material deposit shall be expressly limited to the upland portion of 3 islands, to

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the exclusion of all other islands in the Thousand Island chain (Appendix I - Map of Designated upland Islands). Recreational hunting and commercial fishing/netting are not allowed in this plan.

M. The Thousand Islands are adjacent to and surrounded by the Banana River Aquatic Preserve from the west, Cape Canaveral Air Force Station and Merritt Island National Wildlife Refuge (approximately 7 miles and 20 miles respectively) from the North and Archie Carr National Wildlife Refuge (approximately 25 miles) from the south. These resources are shown more accurately on the map contained in Appendix A of this plan.

**II. Management Authorities and Constraints**

**A. Municipal - City of Cocoa Beach Code of Ordinances, Section 5.10 - GU, General Use District (Appendix B)**

**B, State - Florida Statutes, Sections:**

- **253.023(11)** - Guidelines on How Lands Leased Shall be Managed
- **253,034** - Provision for Management Plans for Trustees' Properties Leased to State and Local Agencies
- **403.93** - Prohibition of Unpermitted Alteration of Mangroves

**C, Administrative Rule - Florida Administrative Code Rule 18-4**

**111. Resource Base**

**A. Natural Resources**

1. Topography - Fifty (50) islands, 200 acres to fraction of an acre per island, 900 acres total, surrounded by saltwater, east edge of Banana River,
2. Soil - The higher islands consist of crushed shells and sand. The lower islands consist of a muck-type soil of the tidal swamp classification.

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3. Water Resources - The basic characteristics of the Thousand Islands' water resources vary in response to daily, seasonal and long-term forces associated with the climate. In addition, water circulation patterns in the Banana River Lagoon, in which the islands lie, have been altered by the construction of the Minutemen Causeway, the Cape Canaveral Locks, and mosquito impoundments. The Banana River, adjacent to Cocoa Beach, is Outstanding Florida Waters except the Thousand Islands area.
4. Plant Communities - The plant communities are mangrove, Australian pine, Brazilian pepper, wild field grass, cabbage palm, emergent salt marshes, and other types of vegetation native to the area. No exotics will be introduced and existing ones will be identified and attempts made to control further propagation. At present, the City does not have resources to physically pull out the exotic species from the ground and transport them to uplands for destruction. However, volunteer services from local civic groups like the Cocoa Beach Tree People, the Surfside Garden Club, F.L.O.P. - a kayak enthusiast group, and a student group from Roosevelt High School, Cocoa Beach, led by teacher William Hausmann, would be utilized, whenever possible (AppendixM). Such volunteer services shall be supervised by the City at all times. Likewise, use of approved and environmentally compatible chemicals would be encouraged to kill the exotic species when additional resources become available.
5. Fish and Wildlife - The property is comprised of mangrove swamps and emergent salt marshes and provides a wintering ground for a number of species of birds, as well as providing habitat, nurseries and feeding areas for fish (AppendixD).
6. Designated Species -
  - a. Species which inhabit this area and are listed as endangered, threatened or species of special concern include Great Egrets (*Egretta Albus*), Reddish Egrets (*Egretta Refescens*), Tri-colored Herons (*Egretta Tri-color*), White Ibis (*Eudocimus Albus*), Brown Pelicans (*Pelecanus Occidentalis*) and Least Terns (*Sterna Antillarum*), and Manatees.
  - b. Manatees - Waters of the Banana River within the City, including waterways and canals, are a designated manatee protection zone. Except for specifically exempted areas

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and channels, motorboats operating on these waters shall proceed at slow speed/minimum wake. Speed zones are identified on the official Cocoa Beach Waterways Chart and by official signs (Appendix J - Waterways Map Included).

7. Florida Natural Areas Inventory - (Appendix E).

**B. Cultural Resources**

1. Identified Features

- a. Historical - There are no recorded historical sites on the property.
- b. Archaeological - There are no recorded archaeological sites on the property. A letter from Bureau of Historical Preservation is made a part of this plan to corroborate this statement (Appendix N).

2. Proposed Actions - Since there are no recorded historical or archeological sites on the property, no further action is required.

**IV. Recreational Activities**

- A. There are no existing facilities or structures, and none are planned. The only planned improvements are the placement of informational/educational signs and the re-establishment of natural vegetation.
- B. Alternative activities which have been rejected included the building of docks on islands to facilitate access, building elevated "nature walk" decks and installing picnic pavilions and rest rooms. These were all rejected due to potential impact to the natural state of the islands and the high maintenance costs.
- C. Recommended Uses - Continue recreation uses which exist today and are not incompatible with primary use. This includes canoeing, kayaking, boating, boat passage to/from Banana River and canals of Cocoa Beach, recreational fishing, crabbing, and similar recreational sports, excluding net fishing, but permitting hand-thrown cast nets not exceeding a radius of twelve (12) feet.

V. Resource Assessment

A, Carrying Capacities

The waterways between the Thousand Islands are adequate for the number of watercraft typically associated with a city the size of Cocoa Beach. Periodic dredging of existing waterways is necessary to maintain this capacity.

- B. No portion of this property is recommended for surplus, Upland portions of designated islands shall be reserved to deposit dredged material from the maintenance dredging of waterways.

There has been no negative impact that has been documented except the growth of exotic species on Island 2 (Appendix I) after the first dredging operation in 1984-85. Those exotic species were removed and buried at the site to create a containment area in 1994. After completion of present dredging operation in 1996, exotic species would be managed by the Department of Environmental Protection Agency approved and environmentally compatible chemicals. Islands 1 and 3 (Appendix I) would be used for dredging operation only after the capacity of Island 2 is exhausted. Until then, Islands 1 and 3 would be left in their natural state.

The City was permitted the use of Island 2 for deposit of dredged material in 1994 after a careful evaluation and approval by the Bureau of Submerged Lands and Preserves, and the Florida Game & Fresh Water Fish Commission (Appendix O). No negative impact was documented or advised both in 1984-85 and 1994.

VI. Conformance with State and Local Plans

The planned use of the property conforms with the Comprehensive Plan of the City of Cocoa Beach, complements the Banana River Aquatic Preserve Management Plan and complies with the Lease Agreement with the State of Florida.

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VII. Management Responsibilities, Needs and Problems, Objectives, Policies and Procedures

**A. Responsibilities: City of Cocoa Beach .lead agency, with support from:**

- Marine Patrol: Policing island activity in conjunction with Marine Patrol duties
- Recreation Department: Perform studies recommended earlier
- Recreation Advisory Board: Review this plan periodically
- Community: Support clean-up of islands on as-needed basis, and control exotic plant life
- Waterways Advisory Board: Review this plan periodically
- Planning Board: Review this plan periodically for conformance with the City of Cocoa Beach Comprehensive Plan

**B. Needs and Problems**

- Past Uses:
  - Camping by the youth of Cocoa Beach (continue on an event-by-event basis)
  - Use of upland portions of designated islands for deposit of dredged material from maintenance dredging of waterways
  - Mosquito control channeling (work completed)
  - Hunting with guns or bow/arrow (discontinue)
  - Identification of Privately-Owned Adjacent Parcels:
  - Management and propagation control of exotic **species.**

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C. Objectives, Policies and Procedures

1. Visitor Services and Public Access - no services planned (other than future signs) and public access to remain as is.
2. Resource Restoration, Preservation and Management - Maintain current level of use by not improving access to islands or amenities on islands.
3. Site and Visitor Protection - Continuation of expansion of current Marine Patrol services.
4. Maintenance Responsibility:
  - Removal of dead tree limbs only to keep waterways clear for-boat traffic.
  - Removal of trash by the community of users.
  - Maintenance of informational signs by the City.
  - Management and propagation control of exotic species.

VIII. Public Involvement in Plan Development

A. Public Meetings

1. Cocoa Beach City Commission - Work Session on November 17, 1992 and Regular Meeting on November 19, 1992 (Appendix F) .
2. Cocoa Beach Planning Board - Discussed at October 5, 1992 meeting (Appendix F).
3. Cocoa Beach Recreation Advisory Board - Discussed at meetings on May 27, June 10, July 8, July 14, July 22 and August 19, 1992. Public input received and welcomed at all meetings (Appendix F).
4. Cocoa Beach Waterways Advisory Board - Discussed Management Plan at meetings on June 9, July 14 and September 8, 1992. Provided input to Cocoa Beach Recreation Advisory Board and the City Commission (Appendix F) .

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5. The Thousand Islands Management Study Committee met ten (10) times.

**B. Surveys**

A tour of the islands and waterways was conducted by the Cocoa Beach Marine Patrol on July 22, 1992, May 27, 1993 and August 6, 1993. The tour was for the Advisory Board members as well as the public. At the August 6, 1993 tour of the Islands, Mrs. Margaret Hames, a Member of the Florida Plant Society, compiled a vegetative inventory of plants found on three of the islands.

**C. Community Organizations**

1. The Citizens Action Committee met on June 27, 1992 and passed Resolution No. 92-01 (Appendix G) .
2. The Cocoa Beach Citizens League met on July 17, 1992 and passed a resolution in support of the plan (Appendix G).

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IX. Land Management Plan Executive Summary

Lead Agency: City of Cocoa Beach

Common Name of Property: The Thousand Islands

Location: Cocoa Beach, Florida

Acreage: Total Approximately 900 Acres

Acreage Breakdown:	
Land Cover Classification	Acreage
<u>Uplands</u>	<u>70</u>
<u>Wetlands</u>	<u>030</u>
_____	_____
_____	_____
_____	_____
_____	_____

Lease/Management Agreement No. : \_\_\_\_\_

Use: Single  \_\_\_\_\_

Multiple \_\_\_\_\_ Management Responsibility Agency Responsibility

City of Cocoa Beach Lead Agency  
Cocoa Bch. Marine Patrol Law Enforcement  
Cocoa Bch. Public Works Maintenance

Designated Land Use: Passive recreation, reestablishment of natural conditions - DNR approved spoil deposit

Sublease (s) : None

Encumbrances: None

Type Acquisition: Land Acquisition Trust Fund (LATF)

16 Miles of island waterfront, adjacent to

Unique Features: Natural Banana River Aquatic Preserve

Archaeological/Historical

Management Needs: Re-establishment of natural vegetation, informative educational signage.

Disposition Needs/Acreage: None

Surplus Lands/Acreage: None

Public Involvement: The 1000 Island Land Management Plan was developed through a series of Public Hearings by the Recreation Advisory Board. Input was also obtained from the City Commission, Waterways Advisory Board and the Planning Board

DO NOT WRITE BELOW THIS LINE (FOR DIVISION OF STATE LANDS USE ONLY)

LMAC Approval Date: \_\_\_\_\_ BTIITF Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

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x. State and Local Comprehensive Plan Impact

This Management Plan is in compliance with the City of Cocoa Beach Comprehensive Plan which has been approved by the Florida Department of Community Affairs on September 7, 1990 (Appendix H).

Exhibit A

EXHIBIT A

LEGAL DESCRIPTION OF THE LEASED PREMISES

EXHIBIT "A"

All lands lying above the mean tide line "within the following described parcels, all lying within Township 25 South, Range 37 East, Brevard County, Florida:

The South 1,992.87 feet of the North 1/2 of Sections 3 and 4, Township 25 South, Range 37 East, Brevard County, Florida lying West of the interior bulkhead line;

TOGETHER WITH:

That part of the North 1/2 of Section 3, Township 25 South, Range 37 East, Brevard County, Florida, as described in Official Records Book 959, Page 221 of the Public Records of Brevard County, Florida; lying East of the interior bulkhead line, except those tracts described in Plat Book 16, Pages 49 and 125, Plat Book 20, Page 77, Plat Book 21, Pages 49 and 50, Plat Book 24, Page 104, Official Records Book 472, page 411 and Official Records Book 1079, Page 662, all recorded in the Public Records of Brevard county, Florida;

TOGETHER WITH:

That portion of Government Lot 5 and the Northeast 1/4 of the Southeast 1/4 of Section 3, Township 25 South, Range 37 East, Brevard County, Florida, described in Official Records Book 27, Page 441, except lands described in Plat Book 12, Page 51, Plat Book 14, Pages 28, 76 and 85, Official Records Book 1445, Page 7, all recorded in the Public Records of Brevard County, \*Florida;

TOGETHER WITH:

That portion of lands in Section 3, Township 25 South, Range 37 East, Brevard County, Florida described in Official Records Book 309, Page 55, lying West of lands described in Plat Book 14, Page 85 and Plat Book 16, Page 2, except lands described in Official Records Book 633, Page 387 and Official Records Book 1445, Page 7, all recorded in the Public Records of Brevard County, Florida;

TOGETHER WITH:

That portion of the North 1/4 and part of the North 330 feet of the South 660 feet of Government Lot 6 in Section 3, Township 25 South, Range 37 East, Brevard County, Florida, as described in Deed Book 440, Page 436, except lands described in Official Records Book 516, Page 624 and Plat Book 19, Page 21, all recorded in the Public Records of Brevard County, Florida;

\* For purposes of this conveyance, the mean tide line is construed to be the same as the mean high water line.

TOGETHER WITH:

The islands and marshlands in the North 1/2 of Section 9, Township 25 South, Range 37 East, Brevard County, Florida:

TOGETHER WITH:

The Southwest 1/4 of Section 9, Township 25 South, Range 37 East, Brevard County, Florida, except lands described in Plat Book 20, Page 100, Official Records Book 840, Page 370, and Plat Book 21, Page 9, all recorded in Public Records of Brevard County, Florida.

Also, less and except the following described Parcel:

A Parcel of land lying in unsurveyed Section 9, Township 25 South, Range 37 East, Brevard County, Florida, being more particularly described as follows: Begin at the most Northerly corner of Lot 19 in Block 3 of A REPLAT OF A PORTION OF SECTION 9 AND COCOA ISLES COUNTRY CLUB SECTION, PHASE ONE, according to the Plat thereof recorded in Plat Book 21 at Page 9 of the Public Records of Brevard County, Florida and run S47°21'16"E along the Northeasterly line of said Block 3 for 156.88 feet; thence run N42°38'44"E for 25.00 feet; thence run N47°21'16"W for 366.88 feet; thence run S42°38'44"W for 325.00 feet; thence run S47°21'16"E for 25.00 feet to the most Northerly corner of Lot 95, Block 2 of said Plat; thence run N42°38'44"E for 100.00 feet; thence run S47°21'16"E for 135.00 feet; thence run N42°38'44"E for 200.00 feet; thence run S47°21'16"E for 50.00 feet to the POINT OF BEGINNING.

Also, less and except the right of way for Minutemen Causeway; also known as Cocoa Avenue;

TOGETHER WITH:

The Southeast 1/4 of Section 9, Township 25 South, Range 37 East, Brevard County, Florida, except lands described in Plat Book 20, Page 100, Official Records Book 840, Page 370, Plat Book 21, Page 9, all recorded in the Public Records of Brevard County, Florida, also less the road right of way for Minutemen Causeway:

TOGETHER WITH:

The islands and marshlands lying in the North 3/4 of Section 10, Township 25 South, Range 37 East, Brevard County, Florida, except lands described in Plat Book 13 Page 53, Plat Book 16, Page 147, and except any portion of the parcels described in Official Records Book 1187, Page 885, Official Records Book 1063, Page 560, and Official Records Book 1083, Page 558, all recorded in the Public Records of Brevard County, Florida, lying West of the Government Meander Line;

TOGETHER WITH:

The South 1,320 feet of the unsurveyed portion of Section 10, Township 25 South, Range 37 East, Brevard County, Florida, as described in Official Records Book 27, Page 452, except lands described in Plat Book 11, Page 58, Plat Book 12, Page 42, Plat Book 16, Page 142, Official Records Book 1124, Page 499 and Official Records Book 1286, Page 1011, all recorded in the Public Records of Brevard County, Florida and less the right of way for Minutemen Causeway;

TOGETHER WITH:

All lands lying above the mean tide line \*within the following described parcels.

Part of unsurveyed parts of Sections 3 and 4, Township 25 South, Range, 37 East, Brevard County, Florida, as described in Deed Book 412, Page 492; excepting Official Records Book 1991, Page 232, and Part of Government Lots 1 and 2 in said Section 3, as described in Deed Book 412, Page 492; excepting Official Records Book 1991, Page 232, all recorded in the Public Records of Brevard County, Florida;

TOGETHER WITH:

The South 1/2 of the unsurveyed portions of Sections 3 and 4, Township 25 South, Range 37 East, less the South 330 feet thereof and except lands described in Official Records Book 309, Page 55 of the Public Records of Brevard County, Florida;

TOGETHER WITH:

The South 330 feet of the unsurveyed portions of Sections 3 and 4, Township 25 South, Range 37 East, Brevard County, Florida, as described in Official Records Book 27, Page 459; except lands described in Plat Book 13, Page 53, all of the Public Records of Brevard County, Florida;

TOGETHER WITH:

Government Lots 1 and 2 in Section 10, Township 25 South, Range 37 East, Brevard County, Florida, lying West of Houseboat Cree);

And, with respect to all of the foregoing described parcels, also lying Northerly and/or Westerly of the following described line lying in fractional Sections 3 and 10 and unsurveyed section 9, all in Township 25 South, Range 37 East, Brevard County, Florida: See attached Exhibit "B" incorporated herein by this reference.

TOGETHER WITH:

The North 1320 feet of unsurveyed portion of Section 15, Township 25 South, Range 37 East, Brevard County, Florida, as described in Official Records Book 27, Page 452, lying West of the West Line of River Isles, Addition No. 5, according to the plat thereof, recorded in Plat Book 18, Page 128, of the Public Records of Brevard County, Florida, except the right of way for Minuteman Causeway and less and except the West 37.00 feet of the North 127.00 feet of the foregoing described parcel.

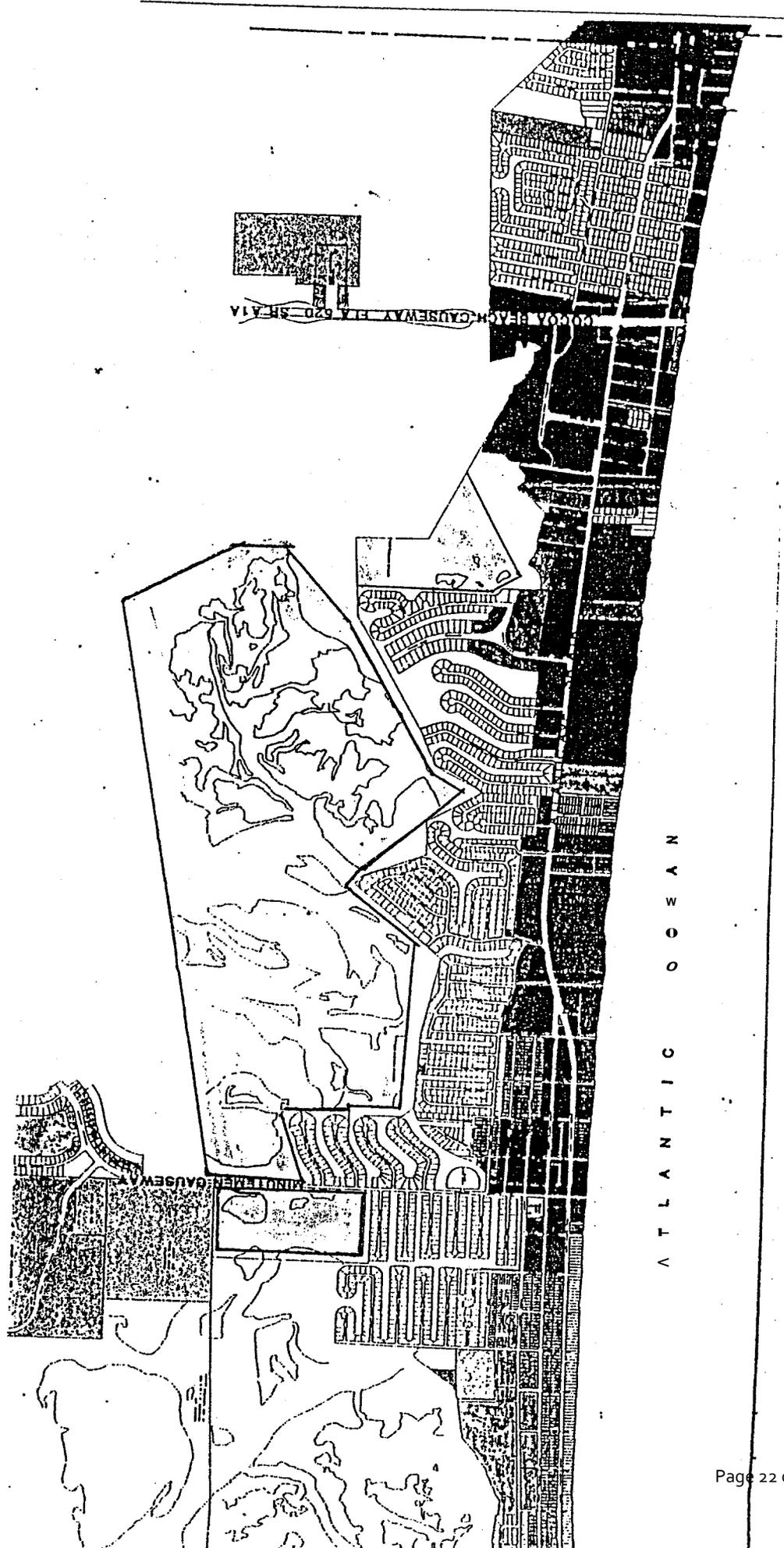
## **EXHIBIT B**

EXHIBIT B

EXHIBIT "B"

Commence at the intersection of the West right of way line of State Road A1A with the North line of Section 3, Township 25 South, Range 37 East, City of Cocoa Beach, Brevard County, Florida and run  $N89^{\circ}57'19''W$  along the North line of Section 3 for 1,000.00 feet to a point on the West line of Parcel "C", as described in Exhibit "A" of deed recorded in Official Records Book 1991, Page 232 of the Public Records of Brevard County, Florida; thence  $S06^{\circ}06'41''W$  along the West line of said Parcel "C" for 655.08 feet to the North line of Cocoa Isles 11th [Cape Royal] Addition, Phase Two, according to the plat thereof recorded in Plat Book 21, Pages 50 and 51 of said Public Records; thence  $S89^{\circ}59'52''W$  along said North line for 2,580.22 feet to a point lying 50.00 feet West of the West line of said Cocoa Isles 11th [Cape Royal] Addition, Phase Two; thence  $S00^{\circ}06'30''W$  parallel with said West line for 358.80 feet; thence  $S31^{\circ}16'20''E$  parallel with and 50.00 feet West of said West line and the Southerly prolongation thereof for 2,251.12 feet to the intersection with a line lying 50.00 feet West of and parallel with the West line of a Replat of Cocoa Isles fifth Addition, according to the plat thereof recorded in Plat Book 14, Page 85 of said Public Records; thence  $S18^{\circ}44'43''E$  parallel with said West line for 650.67 feet; thence  $S49^{\circ}37'24''E$  for 95.47 feet to the point of curvature of a circular curve to the left, having a radius of 220.00 feet, said curve being 50.00 feet Southwest of and concentric with the Southerly line of Cocoa Isles Third Addition, Section "C", according to the plat thereof recorded in Plat Book 16 at Page 2 of said Public Records; thence Southeasterly along the arc of said curve through a central angle of  $37^{\circ}45'30''$  for an arc distance of 144.98 feet; thence leaving said curve  $S74^{\circ}38'15''E$  parallel with and 50.00 feet South of the South line of said Cocoa Isles Third Addition, Section "C" for 84.35 feet; thence  $S58^{\circ}44'53''E$  parallel with and 50.00 feet South of the South line of said Cocoa Isles Third Addition, Section "C" and the South line of Lots 7 through 10 of Cocoa Isles Third Addition, Section "B", according to the plat thereof recorded in Plat Book 14, Page 76 of said Public Records for 516.92 feet to a point on a line parallel with and 50.00 feet Northwest of the Northwesterly line of Forest Isles, according to the plat thereof recorded in Plat Book 19, Page 21 of the Public Records of Brevard County, Florida; thence  $S54^{\circ}40'09''W$  parallel with said Northwesterly line for 588.54 feet to a point on the South line of the North 330.39 feet of Government Lot 6 of said Section 3; thence  $N89^{\circ}49'05''W$  along said South line for 383.01 feet to a point on the U.S. Government Meander Line; thence  $S10^{\circ}13'25''W$  along said meander line for 624.07 feet to a point on the Westerly boundary of Cocoa Isles, Fourth Addition, according to the plat thereof recorded in Plat Book 13, Page 53 of said Public Records, said point lying on the arc of a circular curve concave Northwesterly, having a radius of 301.63 feet, whose center bears  $N44^{\circ}00'53''W$  from said point; thence Southwesterly along the arc of said curve and said Westerly boundary, through a central angle of  $03^{\circ}20'16''$  for 17.58 feet to the point of tangency; thence  $S49^{\circ}02'23''W$  along said Westerly boundary for 148.74 feet to the point of curvature of a circular curve to the right, having a radius of 503.19 feet; thence Southwesterly along the arc of said curve and said Westerly boundary line, through a central angle of  $33^{\circ}33'13''$  for 294.68 feet to the point of reverse curvature with a circular curve, having a radius of 674.33 feet; thence Southwesterly along the arc of said curve and said Westerly Boundary, through a central angle of  $41^{\circ}00'42''$  for 482.68 feet to the point of tangency; thence  $S41^{\circ}34'54''W$  along said Westerly boundary for 37.66 feet to the most Westerly corner of said Cocoa Isles Fourth Addition; thence  $S48^{\circ}25'06''E$  along the Southwesterly line of said plat for 100.00 feet to a point on a line parallel with and 50.00 feet Northwesterly of the Northwesterly line of Cocoa Isles Tenth Addition; thence run  $S41^{\circ}34'54''W$  parallel with said Northwesterly line for 355.57 feet to a point on a line parallel with and 100.00 feet Southwest of the Southwesterly line of said Cocoa Isles Tenth Addition; thence  $S53^{\circ}12'17''E$  along said line for 1,533.18 feet; thence  $S02^{\circ}42'37''W$  for 1,311.29 feet to the North line of Lot 15 of Convoir Cove, according to the plat thereof recorded in Plat Book 12, page 33 of the Public Records of Brevard County, Florida; thence  $S89^{\circ}36'16''W$  along said North line for 631.94 feet to the Northwest corner

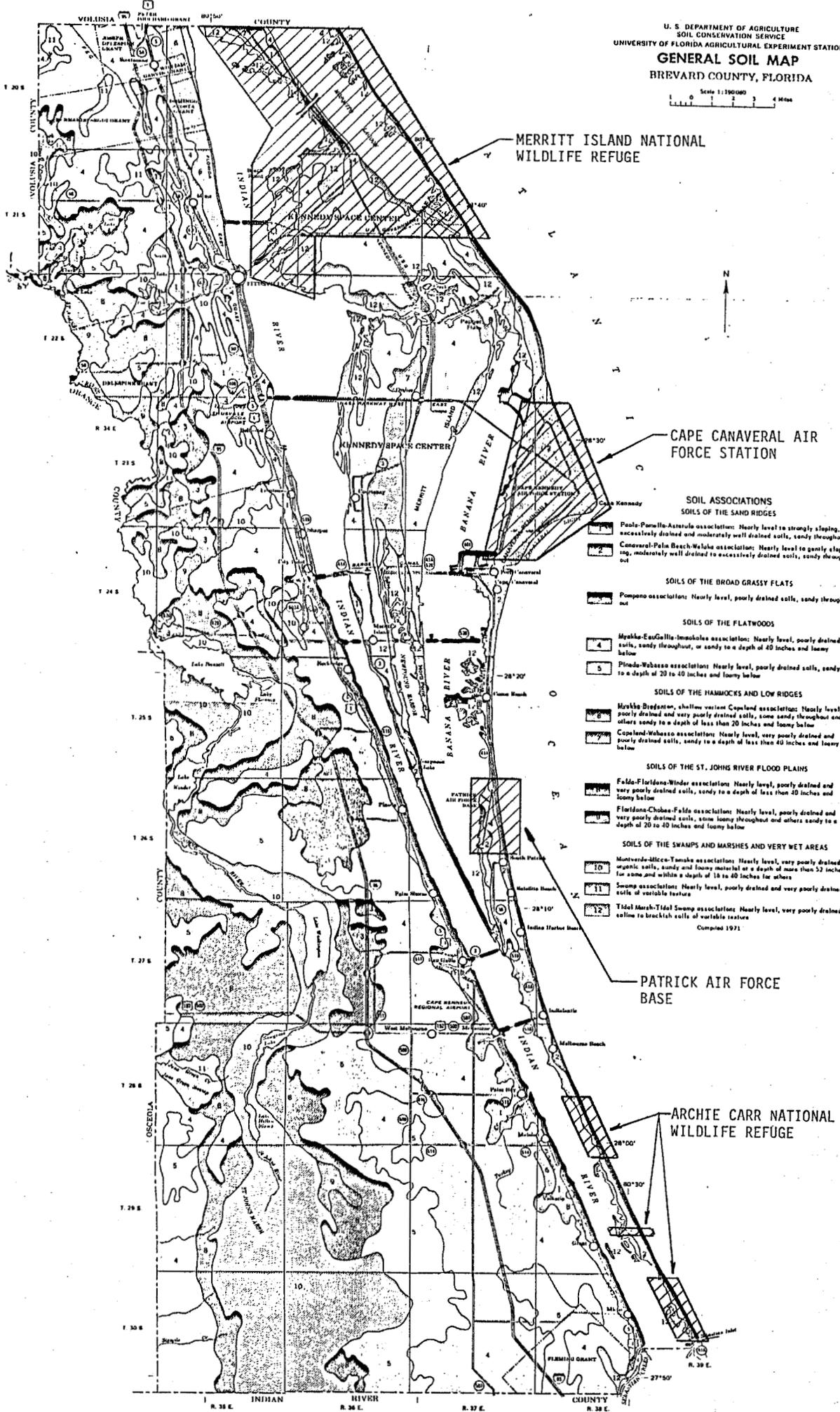
of said Lot 18; thence  $S02^{\circ}33'26''W$  along the West line of said Lot 15 for 129.39 feet to the Southwest corner of said Lot 15; thence  $S33^{\circ}45'59''E$  along the South line of said Lot 15 for 1,030.52 feet; thence  $S04^{\circ}21'11''W$  for 317.02 feet to the North line of the South 1,320.00 feet of said Section 10; thence  $S89^{\circ}44'38''W$  along said North line for 1,374.49 feet; thence  $S00^{\circ}15'28''E$  for 75.00 feet; thence  $S89^{\circ}44'38''W$ , parallel with and 75.00 feet South of said North line, a distance of 397.32 feet; thence  $S47^{\circ}08'48''W$ , for a distance of 121.79 feet to the point of curvature of a circular curve to the left, having a radius of 250.00 feet being concentric with and 50.00 feet West of the West and Southerly boundary of North Isle No. 4, River Isles Addition Four, according to the plat thereof recorded in Plat Book 16, Page 142 of said Public Records; thence Southerly along the arc of said curve through a central angle of  $87^{\circ}31'40''$  for 381.91 feet to the point of reverse curvature with a circular curve, having a radius of 170.00 feet; thence Southerly along the arc of said curve and 50.00 feet West of the West boundary of said North Isle No. 4 through a central angle of  $26^{\circ}45'56''$  for 79.41 feet to the point of tangency of said curve; thence  $S13^{\circ}36'56''E$  parallel with and 50.00 feet West of the West boundary of said North Isle No. 4 for 52.24 feet to the point of curvature of a circular curve to the left, having a radius of 1,226.69 feet; thence run Southerly 50.00 feet West of said North Isle No. 4 and along the arc of said curve through a central angle of  $22^{\circ}09'06''$  for 474.26 feet to the point of tangency of said curve; thence  $S35^{\circ}46'02''E$ , parallel with the West line of said North Isle No. 4 for 95.12 feet; thence  $S00^{\circ}16'03''E$  for 154.40 feet to the North right of way line of Minutemen Causeway; thence  $S89^{\circ}40'54''W$  along said North right of way line for 1,431.49 feet; thence  $S89^{\circ}37'38''W$  along said North right of way line for 1,276.57 feet to a point on a line lying parallel with and 50.00 feet East of the East line of a replat of a portion of Section 9 and Cocoa Isles, Country Club Section, Phase One, according to the plat thereof recorded in Plat Book 21, Page 9 of said Public Records; thence  $N00^{\circ}24'06''W$  along said line 362.02 feet to a point on the Easterly extension of the Easterly right of way line of a 150.00 foot wide canal as shown on said replat; thence  $S89^{\circ}35'54''W$  along the Easterly extension of said right of way line for 50.00 feet to the point of curvature of a circular curve to the right, having a radius of 650.00 feet; thence Northwesterly along said Easterly right of way line and the arc of said curve through a central angle of  $76^{\circ}40'44''$  for 069.09 feet to the point of tangency of said curve; thence  $N13^{\circ}43'22''W$  continuing along said right of way line for 263.59 feet to the point of curvature of a circular curve to the left, having a radius of 900.00 feet; thence Northwesterly along said right of way line and the arc of said curve through a central angle of  $35^{\circ}00'00''$  for 549.78 feet to the most Northerly curve of said right of way; thence  $S41^{\circ}16'38''W$  along the West line of said canal right of way for 125.00 feet; thence  $N48^{\circ}43'22''W$  for 366.88 feet; thence  $S41^{\circ}16'38''W$  for 325.00 feet; thence  $N89^{\circ}50'21''W$  for 232.29 feet to the most Northerly corner of a 200.00 foot wide canal right of way, as shown on the last described plat, said point also being a point on a curve concave to the Northwest, having a radius of 90.00 feet, whose center bears  $N48^{\circ}43'22''W$  from said point; thence run Southerly along the Northerly line of said canal right of way and the arc of said curve through a central angle of  $45^{\circ}45'02''$  for 71.06 feet; thence  $S87^{\circ}01'40''W$  along said line and the Northerly line of canal right of way, as described in Official Records Book 963, Pages 36 & 37 of said Public Records for 971.89 feet to the point of curvature of a circular curve to the left, having a radius of 784.25 feet; thence Southerly along said right of way line and the arc of said curve through a central angle of  $17^{\circ}10'00''$  for 234.97 feet to a point of reverse curvature, having a radius of 88.48 feet; thence West along said Northerly right of way line and the arc of said curve through a central angle of  $52^{\circ}54'49''$  for 81.71 feet to the point of tangency; thence  $N57^{\circ}13'31''W$  along said canal right of way line for 238.32 feet; thence  $S89^{\circ}59'56''W$  along said right of way line for 430.27 feet to a point on the theoretical West line of said Section 9 and the POINT OF TERMINATION of said line.



# Appendix A

U. S. DEPARTMENT OF AGRICULTURE  
 SOIL CONSERVATION SERVICE  
 UNIVERSITY OF FLORIDA AGRICULTURAL EXPERIMENT STATIONS  
**GENERAL SOIL MAP**  
 BREVARD COUNTY, FLORIDA

Scale 1:250,000  
 0 1 2 3 4 Miles



**SOIL ASSOCIATIONS**  
 SOILS OF THE SAND RIDGES

- 1 Paola-Panella-Asterula association: Nearly level to strongly sloping, excessively drained and moderately well drained soils, sandy throughout
- 2 Canaveral-Palm Beach-Walke association: Nearly level to gently sloping, moderately well drained to excessively drained soils, sandy throughout

SOILS OF THE BROAD GRASSY FLATS

- 3 Pompano associations: Nearly level, poorly drained soils, sandy throughout

SOILS OF THE FLATWOODS

- 4 Myakka-EauGalle-Imokolee association: Nearly level, poorly drained soils, sandy throughout, or sandy to a depth of 40 inches and loamy below
- 5 Pineau-Webasco association: Nearly level, poorly drained soils, sandy to a depth of 20 to 40 inches and loamy below

SOILS OF THE HAMMOCKS AND LOW RIDGES

- 6 Myakka-Bogotan, shallow variant Capland association: Nearly level, poorly drained and very poorly drained soils, some sandy throughout and others sandy to a depth of less than 20 inches and loamy below
- 7 Capland-Webasco association: Nearly level, very poorly drained and poorly drained soils, sandy to a depth of less than 40 inches and loamy below

SOILS OF THE ST. JOHNS RIVER FLOOD PLAINS

- 8 Felda-Floridana-Windar association: Nearly level, poorly drained and very poorly drained soils, sandy to a depth of less than 40 inches and loamy below
- 9 Floridana-Chobee-Felda association: Nearly level, poorly drained and very poorly drained soils, some loamy throughout and others sandy to a depth of 20 to 40 inches and loamy below

SOILS OF THE SWAMPS AND MARSHES AND VERY WET AREAS

- 10 Montverde-Macca-Tamuka association: Nearly level, very poorly drained, organic soils, sandy and loamy material at a depth of more than 32 inches for some and within a depth of 18 to 40 inches for others
- 11 Swamp association: Nearly level, poorly drained and very poorly drained soils of variable texture
- 12 Tidal Marsh-Tidal Swamp association: Nearly level, very poorly drained, saline to brackish soils of variable texture

Compiled 1971

Appendix B

# Adley

ASSOCIATES, INC

PUBLIC MANAGEMENT / COMMUNITY PLANNING / URBAN ECONOMICS

## COMPREHENSIVE PLAN COCOA BEACH, FLORIDA

July, 1990

## PUBLIC USES

This category is intended for public buildings or uses. Only public facilities owned, operated, franchised, or supervised by the City are allowed.

## RECREATION USES

This category is intended for public recreational uses or activities and to preserve the natural resources and scenic assets of the City. Only public facilities owned, operated, franchised or supervised by a public governmental entity are given this designation.

## CONSERVATION

This category is intended primarily for the islands in the Banana River. This area is unique and development of the islands is unlikely due to state and local regulations. Publicly owned lands, will be preserved and protected. Privately owned lands, if permits can be obtained, may be developed at a maximum density of one single-family dwelling per five contiguous upland acres.

Maps 1 through 6, comprising the City's Future Land Use Map Series, provide mapping of future land use; recreation areas and their general service areas; soils; flood plains; existing wetlands; and, beaches, shores and estuarine areas. There are no existing or planned waterwells, cones of influence, rivers, bays, lakes, harbors, economic mineral deposits or currently designated historic resources in the City of Cocoa Beach.

**POLICY 3.2 [9J-5.013(2)(c)5&6]**

By year-end 1991, the City will take action to provide protection for manatees within its municipal limits by:

- 3.2a Meeting with representatives of the Brevard County office of Natural Resource Management, Florida Department of Natural Resources (Banana River Aquatic Preserve Management Office), Florida Inland Navigation District, U.S. Coast Guard, and Florida Department of Environmental Regulation, to outline a strategy for establishing a manatee protection area in the Thousand Islands area of the Banana River.
- 3.2b Completing, by year-end 1990, a timetable and budget estimate for creating the Manatee Protection area.
- 3.2c Applying to the Florida Inland Navigation District (FIND), by April 1, 1991, for a matching grant to help finance posting signs, etc., in the protection area.

**POLICY 3.3 [9J-5.013(2)(c)6&9]**

The City will set aside at least two islands in the Thousand Islands to be used exclusively as rookeries and wildlife habitat and will post appropriate signs to this effect on the islands.

**POLICY 3.4 [9J-5.013(2)(c)3&6]**

The City will prohibit the removal of vegetative species, listed as threatened or endangered by state or federal agencies, from any publicly owned lands; and, will modify its land development regulations to include a similar provision applicable to any new private development subject to development approval.

**POLICY 3.5 [9J-5.012(3)(c)1&2 and 9J-5.013(2)(c)5]**

The City shall require that when a threatened or endangered species is found on a development site, development activities which may cause either direct or indirect harm to such species shall not be allowed until a management plan has been prepared which minimizes the adverse effects of the project on the species.

5. Expansion of Ball Fields

There is no room to expand facilities at the Recreation complex. However, there is a possibility that the three fields could be relocated to the vacant land south of the high school adjacent to the soccer/football field. This would provide potential for expansion of the ball field and soccer field facilities and enlargement of the golf course.

6. Play equipment and facilities at California Avenue Park are in need of repair and replacement.

7. Thousand Islands

The purchase of the bulk of the Thousand Islands, through a state and local **effort**, will ensure that the natural scenic beauty of these mangrove islands will continue for future generations. Any public development of this area will be limited to low intensity passive uses allowing public access and improving public knowledge of these fragile systems.

8. Handicapped Facilities at Offenhouser Recreation Center

The City provides access for the handicapped to all developed facilities, except the gymnasium at the Offenhouser Recreation Center. This facility is almost **25** years old, and will eventually be replaced by a new facility at the Recreation Complex. While no date has been **set**, when the new facility is built, provision for accessibility for the handicapped will be made.

9. A 10,000 square foot expansion of the Cocoa Beach Library through construction of a second floor has been part of the Library's Long Range Plan since 1980. The library is reaching maximum capacity in terms of space for both library materials and readers, and with both circulation of materials and the number of borrowers on the rise, enlargement of the existing facility will be necessary. The building was designed to allow the addition of a second floor which will be funded by the County and has been incorporated in the second half of the ten-year building plan for the County Library System.

Future recreational **uses** and their generalized service areas are provided in the Future Land Use Map series in the Future Land Use Element.

*Mark* § 5.9

(E) *Special exceptions.* After public notice and hearing and subject to appropriate conditions and safeguards, the board of adjustment may permit, as special exceptions:

- (1) None.

(F) *Prohibited uses and structures.* The prohibited uses and structures shall be: Any use not specifically or provisionally permitted herein, and any use not in keeping with the intended character of the district.

(G) *Minimum lot requirements.* The minimum requirements for area, width and depth of the lots shall be:

- (1) None.

(H) *Minimum yard requirements* (depth of front and rear yard, width of side yard). The minimum yard requirements for depth of front and rear yards and the width of side yards shall be:

- (1) None.

(I) *Maximum lot coverage by all buildings.* The maximum lot coverage by all buildings shall be:

- (1) Fifty (50) percent.

(J) *Maximum height of structures.* No portion of a structure intended for human occupancy shall exceed:

- (1) Eighty-five (85) feet above mean sea level.

(K) *Minimum floor area* The minimum floor area requirements shall be:

- (1) None.

(L) *Minimum off-street parking requirements.* See Section 13.

(M) *Limitation on signs:*

- (1) For limitation on signs, see Chapter 20 of this Code. (Ord. No. 383, § 2, 1-6-72; Ord. No. 933, § 1, 4-19-90)

Section 5.10. GU General Use District.

(A) *Scope.* The regulations contained within this section shall apply to the GU district.

**(B) Purpose.** This district is intended to be an interim district for newly created lands or the extension of existing lands. No structures may be built on such lands until one of the above categories has been applied to the land.

**(C) Permitted principal uses and structures.** The permitted principal uses and structures shall be:

- (1) Temporary structures incidental to construction activities.

(D) *Permitted accessory uses and structures.* The permitted accessory uses and structures shall be:

(1) None.

(E), *Special exceptions.* After public notice and hearing and subject to appropriate conditions and safeguards, the board of adjustment may permit, as special exceptions:

(1) None.

(F) *Prohibited uses and structures.* The uses and structures prohibited shall be:

(1) Permanent structures.

(G) *Minimum lot requirements.* The minimum requirements for area, width and depth of lots shall be:

(1) None.

(H) *Minimum yard requirements* (depth of front and rear yard, width of side yard). The minimum yard requirements for depth of front and rear yards and the width of side yards shall be:

(1) None.

(I) *Maximum lot coverage by all buildings.* The maximum lot coverage by all buildings shall be:

(1) None.

(J) *Maximum height of structures.* No portion of any structure intended for human occupancy shall exceed:

(1) None.

(K) *Minimum floor area.* The minimum floor area requirements shall be:

(1) None.

(L) *Minimum off-street parking requirements.* (See Section 13.)

(M) *Limitations on signs.* For the requirements on **limitations of signs** see Chapter 20 of this Code. (Ord. No. 383, § 2, 1-6-72)

# Appendix C

**AKERMAN, EENTERPITT & EIDSON**  
**P.O. BOX 231, Orlando, FL 32802**  
**Telephone: (407) 843-7860**

CLOSING STATEMENT

DATE: December \_\_\_\_\_, 1988

**SELLER:** Malcolm R. Xirschenbaum, Trustee; David A. Smith, Individually, David A. Smith, Trustee, F. Burton Smith Trust B U/A dated 5/30/73 as Amended and Restated: Colleen Xenney Gentry; Thomas Slane Kenney; David A. Smith, Trustee of the F. Burton Smith Revocable Trust Agreement dated 5/30/73, as Amended And Restated: and David A. Smith, Trustee, Individually and **as** Beneficiary; Anna A. Smith, Individually and **as** Beneficiary; Frederick B. Smith, **Jr.**, Individually and **as** Beneficiary; Anne Christine Woodruff, f/k/a Anne Christine smith, **as** Trustee and Individually

**BUYER:** The Board of Trustees of the Internal Improvement Trust Fund of the State of Florida by and through its agent The Division of State Lands of the Florida Department Of Natural Resources: Brevard County, Florida; City of Cocoa Each, Florida

**PURCHASE PRICE: \$3,230,949.76**

**LEGAL DESCRIPTION:** See Exhibit "A" attached

	DUE SELLER	CREDIT BUYER
<b>PURCHASE PRICE:</b>		
From State (See Breakdown Below)	\$ 915,474.88	
From County	700,000.00	
From city	1,615,474.88	
<b>Total Purchase Price</b>	<u>\$3,230,949.76</u>	
<b>option Payment:</b>		
Paid by State		100.00
Paid by city		1000.00
<b>Cash at closing deferred to Jan. 3, 1989:</b>		
From County (includes option payment of \$1,000.00)		700,000.00
From City		214,474.88
<b>Deferred payments from City</b>		1,400,000.00
(Credit Due Buyer.)	<b>(\$2,315,574.88)</b>	
<b>BALANCE DUE FROM THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA TO SELLER TO BE PAID BY STATE WARRANT(S) :</b>		
	<b>\$ 915,374.88</b>	

SELLER'S EXPENSES OF SALE:

Real Estate Commission (3% of cash paid at closing)	\$27,464.25
Title Insurance Premium	9,818.00
Documentary Stamps:	
a. Warranty Deeds (See breakdown below)	\$17,773.25
b. Quit Claim Deed	\$ .55
1908 Real Estate Taxes	<u>2,058.09</u>
TOTAL SELLER'S EXPENSES:	\$57,114.14

BUYER'S EXPENSES OF PURCHASE:  
(See breakdown below)

Recording of Deeds:

Warranty Deeds:	
Parcel 1 (5 pages)	\$ 24.00
Parcel 2 (9 pages)	42.00
Parcel 3 (6 pages)	20.50
Parcel 4	105.00
Parcel 5	57.00
Quitclaim Deed (16 pages)	<u>86.50</u>
Total Recording costs	\$ 343.00
TOTAL BUYER'S EXPENSES:	\$ 343.00

Buyer acknowledges that Buyer's Expenses will be paid by Seller at closing on Buyer's behalf and Buyer agrees to reimburse Seller for same within thirty (30) days after closing.

---

Balance Due Seller	915,374.88
(-) Seller's Expenses	\$57,114.14
NET CASH TO SELLER:	\$858,210.74

BALANCE DUE SELLER AT CMSING:	\$ 915,374.88
(+) State's portion of Buyer's expenses	97.07
NET CASH FROM BUYER AT CLOSING	915,471.95

---

PARCEL BREAKDOWN OF PURCHASE PRICE  
PAID BY STATE PER EXHIBIT C TO OPTION AGREEMENT

<u>Parcel</u>	<u>Parcel Price</u>
1	\$ 1,373.21
2	\$656,670.13
3	\$ 35,245.79
4	\$184,010.45
5	<u>\$ 38,175.30</u>

TOTAL ALL PARCELS  
DUE FROM STATE: \$915,474.88

PARCEL/DEED BREAKDOWN OF DOCUMENTARY STAMPS

<u>Parcel</u>	<u>Deed</u>	<u>Price</u>	<u>Doc. Stamps</u>
1	Xirschenbaum	\$ 4,846.42	\$ 26.95
2	Smith 18/82	\$2,317,560.26	\$12,746.80
3	Smith	\$ 124,391.57	\$ 684.20

4	Xenney	\$ 162,355.23	\$ 893.20
	Gentry	\$ 162,355.23	\$ 893.20
	Smith	\$ 162,355.23	\$ 893.20
	Smith	\$ 162,355.22	\$ 893.20
5	Smith	\$ , 67,365.30	\$ 370.70
	Smith	<u>\$ 67,365.30</u>	<u>\$ 370.70</u>
TOTAL ALL PARCELS		\$3 ,230,949.76	\$17,772.15

BREAKDOWN OF BUYER'S EXPENSES

Due from State (28.3%)	\$ 97.07
Due from County (21.7%)	\$ 74.43
Due from City (50.0%)	<u>\$171.50</u>
TOTAL:	\$343.00

SUMMARY OF CASH DEFERRED UNTIL JANUARY 3, 1989:

Deferred Cash from County:	
subtotal	\$700,000.00
+ Expenses	\$ 74.43
Total:	\$700,074.43
Deferred Cash from City:	
Subtotal	\$215,474.88
+ Expenses	\$ 171.50
Total:	\$215,646.38

The undersigned acknowledge receipt of a copy of the foregoing closing statement, certify it correct, and authorize the firm of Akerman, Senterfitt & Eidson to disburse the closing proceeds in accordance therewith.

BREVARD COUNTY, FLORIDA, a political subdivision of the State of Florida  
("Buyer")

MALCOLM R. XIRSCHENBAUM, TRUSTEE  
("Seller")

By: \_\_\_\_\_  
Malcolm R. Xirschenbaum, Trustee  
SS#: 261-58-1740  
Date: \_\_\_\_\_

By: \_\_\_\_\_  
Attest: \_\_\_\_\_  
Date: \_\_\_\_\_

DAVID A. SMITH, Individually  
("Seller")

By: \_\_\_\_\_  
David A. Smith, Individually  
SS#: 265-66-1588  
Date: \_\_\_\_\_

THE CITY OF COCOA BEACH, FLORIDA, a municipal corporation under the laws of the State of Florida  
("Buyer")

By: \_\_\_\_\_  
Attest: \_\_\_\_\_  
Date: \_\_\_\_\_

DAVID A. SMITH, Trustee  
F. Burton Smith Trust B U/A dated 5/30/73 as Amended and Restated, Trust Tax ID#: 59-686-1654  
("Seller")

By: \_\_\_\_\_  
David A. Smith, Trustee, F.  
Burton Smith Trust B U/A dated 5/30/73, as Amended and Restated

Date: \_\_\_\_\_ Page 36 of 137

BOARD OF TRUSTEES OF THE INTERNAL  
IMPROVEMENT TRUST NND OF THE  
DIRECTOR STATE OF FLORIDA ("Buyer")

By: \_\_\_\_\_  
Percy W. Mallison, Jr.

DIRECTOR  
DIVISION OF STATE LANDS  
DEPARTMENT OF NATURAL RESOURCES  
As agent for Board of Trustees  
of Internal Improvement Trust  
Fund of the State of Florida

Date: \_\_\_\_\_

COLLEEN KENNEY GENTRY  
("Seller")

By: \_\_\_\_\_  
Colleen Kenney Gentry  
SS#: 246-42-5692

Date: \_\_\_\_\_

THOMAS SLANE KENNEY  
("Seller")

By: \_\_\_\_\_  
Thomas Slane Kenney  
SS#: 262-36-4642

Date: \_\_\_\_\_

DAVID A. SMITH, Trustee of the  
F. Burton Smith Revocable Trust  
Agreement dated 5/30/73, as  
Amended and Restated, Trust Tax  
ID#: 59-686-1654  
("Seller")

By: \_\_\_\_\_  
David A. Smith, Trustee of the  
F. Burton Smith Revocable  
Trust dated 5/30/73, as  
Amended and Restated

Date: \_\_\_\_\_

DAVID A. SMITH, Trustee  
("Seller")

By: \_\_\_\_\_  
David A. Smith, Trustee,  
Individually and as Beneficiary

Date: \_\_\_\_\_

ANNA A. SMITH, Individually and  
as Beneficiary

By: \_\_\_\_\_  
Anna A. Smith, Individually  
and as Beneficiary  
SS#: \_\_\_\_\_

Date: \_\_\_\_\_

FREDERICK B. SMITH, JR.,  
Individually and as Beneficiary

By : \_\_\_\_\_  
Frederick B. Smith, Jr.,  
Individually and as Beneficiary  
SS#: \_\_\_\_\_

Date: \_\_\_\_\_

ANNE CHRISTINE WOODRUFF, f/k/a  
Anne Christine Smith, as Trustee  
and Individually

By : \_\_\_\_\_  
Anne Christine Woodruff, f/k/a  
Anne Christine Smith, as  
Trustee and Individually  
SS# : \_\_\_\_\_

Date : \_\_\_\_\_

Appendix D.

**ANIMAL LIFE FOUND IN MARINE GRASSBED AREAS OR  
GENERALLY ASSOCIATED WITH THIS COMMUNITY**

Mammals

bottle-nosed dolphin  
manatee

Birds

brown pelican  
double-crested cormorant  
osprey  
least tern  
belted kingfisher  
bald eagle  
great blue heron  
Louisiana heron  
great egret  
reddish egret  
white ibis  
roseate spoonbill  
common loon  
horned grebe  
magnificent frigatebird  
pintail  
green-winged teal  
blue-winged teal  
American widgeon  
northern shoveler  
lesser scaup  
ruddy duck  
red-breasted merganser  
herring gull  
American coot  
Forster's tern  
royal tern  
Caspian tern  
laughing gull  
black skimmer  
ring-billed gull  
black-bellied plover  
willet

Reptiles

diamondback terrapin

Animal Life Found in Marine Grassbed Areas or  
Generaliv Associated with this Community (Page Two)

Fishes

Atlantic stingray  
cownose ray  
sea catfish  
gulf **killifish**  
rainwater killifish  
sheepshead  
sailfin molly  
snook  
gray snapper  
striped mullet  
white mullet  
lemon shark  
bull shark  
ladyfish  
scaled sardine  
striped anchovy  
gulf pipefish  
pigfish  
silver jenny  
mojarra  
spotted sea trout  
southern kingfish  
black drum  
red drum  
pin fish  
mosquito fish  
great barracuda  
spot  
silver perch  
permit  
leatherjacket  
tidewater silverside  
lined sole  
crevalle jack  
chain pipefish  
gulf pipefish  
Irish pompano  
bay **whiff**  
code goby  
clown goby  
darter goby

Animal Life Found in Marine Grassbed Areas or  
Generally Associated with this Community (Page Three)

Fishes (continued)

bighead sea robin  
gulf flounder  
southern puffer  
striped burrfish  
gafftopsail catfish  
Atlantic thread herring  
yellowfin menhaden  
Atlantic menhaden

Invertebrates

pink shrimp  
stone crab  
spiny lobster  
blue crab

## ANIMAL LIFE ASSOCIATED WITH THE MANGROVE COMMUNITY

### Mammals

marsh rabbit  
rice rat  
raccoon  
bobcat

*cth.*

### Birds

yellow-crowned night heron  
brown pelican  
double-crested cormorant  
anhinga  
wood ibis  
white ibis  
great blue heron  
little blue heron  
green heron  
Louisiana heron  
black-crowned night heron  
snowy egret  
great egret  
cattle egret  
reddish egret  
blue-gray gnatcatcher  
red-winged blackbird  
cardinal  
pileated woodpecker  
belted kingfisher  
prairie warbler

### Reptiles

diamondback terrapin

### Fishes

tarpon  
snook  
gray snapper  
rainwater killifish  
gobies  
sailfin molly  
striped mojarra  
grouper and sea bass  
permit

Animal Life Associated with the Manarove Community (Page Two)

Fishes (continued)

redfin needlefish  
herring  
striped anchovy  
ladyfish  
rougthead stingray  
bull shark  
lemon shark

invertebrates

mangrove tree crab  
fiddler crab  
blue crab  
oysters  
shrimp  
snails  
mosquitoes

# Appendix E

# FLORIDA NATURAL AREAS INVENTORY

1018 Thomasville Road, Suite 200-C • Tallahassee, Florida 32303 • (904) 224-8207

24 August 1993

Ms. Brenda Noke  
City of Cocoa Beach  
Office of the City Manager  
PO Box 320380  
Cocoa Beach, Florida 32932-0280

Subject: Requested Endangered/Threatened Species Information;  
in the Vicinity of Thousand Islands, Brevard County

Dear Ms. Noke:

I have examined the FNAI data base with respect to known and potential occurrences of natural communities or rare and endangered species of plants and animals in the vicinity of the above-referenced study area located in the City of Cocoa Beach, Brevard County, Florida. A search of our maps and computerized data base indicates that we currently have no "Element Occurrence Records" mapped within or near the specified study area.

However, I should point out that the quantity and quality of data collected by the Florida Natural Areas Inventory are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Florida have never been thoroughly surveyed. The FNAI data base represents a compilation of information extracted from published and unpublished literature, museums and herbaria, field surveys, personal communications, and other sources. Records for new occurrences of plants and animals are continuously being added to the database and older occurrence records may change as new information is gathered.

**For these reasons, the FNAI cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Florida. Florida Natural Areas Inventory reports summarize the existing information known to FNAI at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.**

I have therefore enclosed a listing of Element Occurrence Records for Brevard County. Also included is our Brevard County Matrix which lists known plants and vertebrates by habitat and season of occurrence. These list includes those records that we

Ms. Brenda Noke  
24 August 1993  
Page 2

currently have in our computerized data base for the county and may help you arrive at a listing of potential species and natural community occurrences for the site. Please note that these lists will change as we update old records and add new records to the database.

In addition to the above information, I have also provided you with a list of our records that are mapped within the Banana River Aquatic Preserve. The Preserve surrounds the islands and knowledge of the species found there may also prove helpful in developing your management plan.

Information provided by this data base may not be published without prior written notification to the Florida Natural Areas Inventory, and FNAI must be credited as an information source in these publications. We also request that the above underlined sentence be included in acknowledgements of the data. FNAI data may not be sold for profit.

Thank you for your interest in the Florida Natural Areas Inventory. Please let me know if you have any additional questions. I apologize for the delay in responding to your request. I hope this information proves helpful.

Sincerely,



John Amoroso  
Asst. Data Manager

encls.  
ER/sine/local/cocoabch.loc

\*\*The data represent information in the FNAI data base at the date given and should not be considered a definitive representation of rare/endangered species and natural communities occurring on a particular managed area.

MA: Managed Area Name/MA# /County(ies)/Acreage

Comments  
 EOR: Name/ED#/Common name, contained?, federal/state status  
 EOR: protection comments management comments eorank eorank comments

lastobs

element occurrence data

SAVANNA RIVER AQUATIC PRESERVE, \*\*\*344 Brevard 29700.00

MANATEE AGGREGATION SITE, \*\*\*024, Y, N/N /

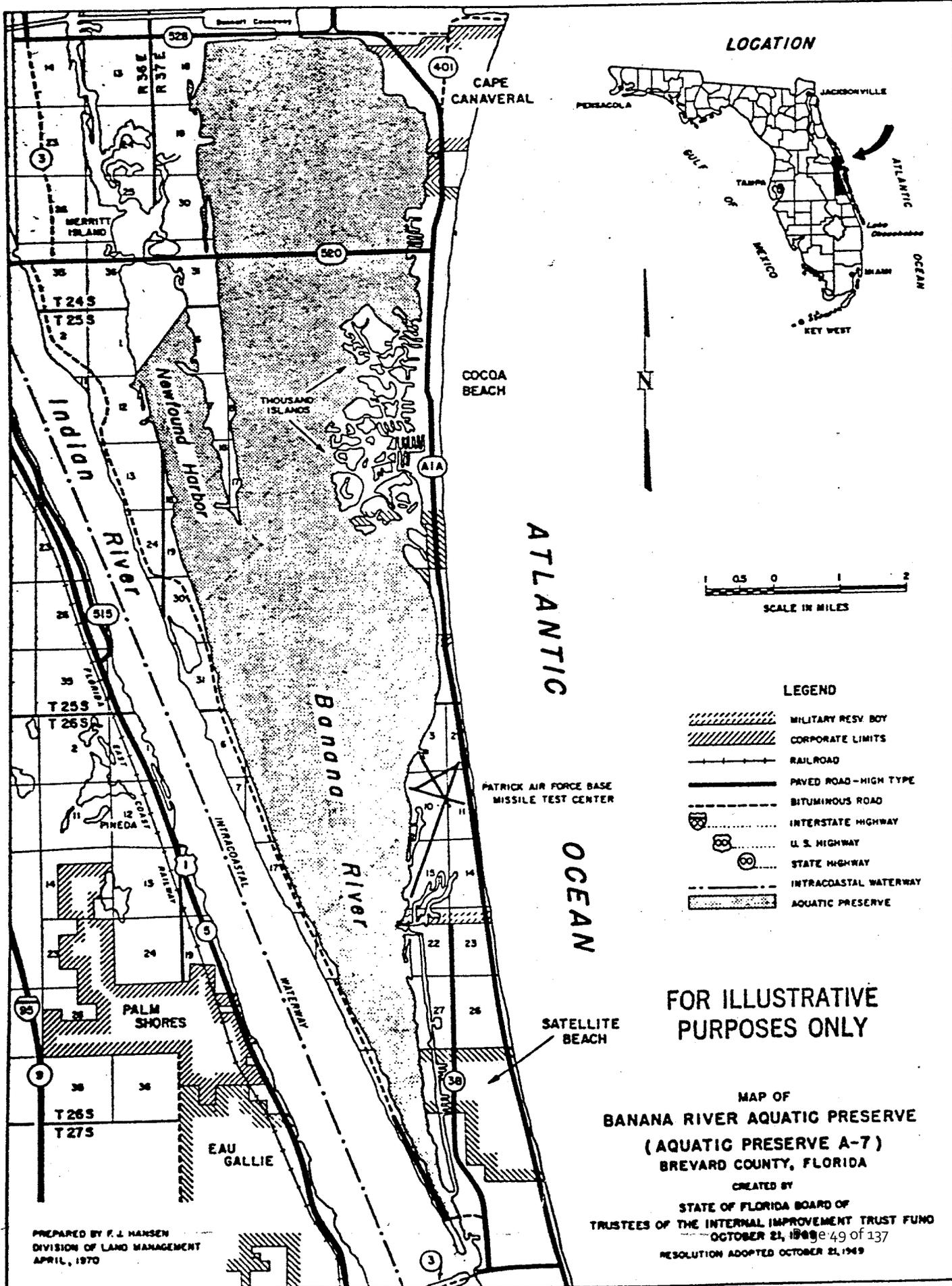
1988

FROM 3-37 MANATEES HAVE BEEN SEEN UTILIZING THIS SITE BETWEEN MARCH AND AUGUST 1986.

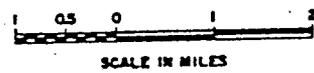
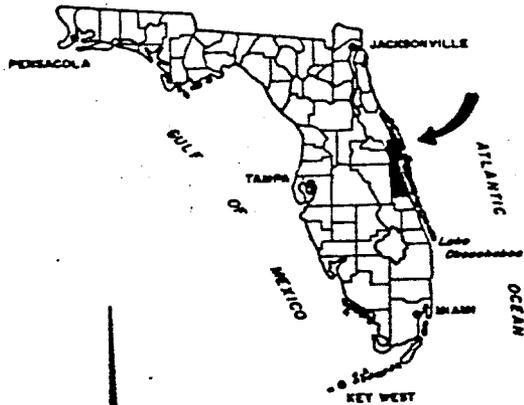
TRICHECHUS MANATUS, \*\*\*009, west indian manatee, N, LE/LE G27/S27  
 restrict boat traffic and speeds. maintain water quality.  
 effective 1 march 90, a 5 mi. x 2 mi. stretch of banana river between kennedy space center and cape canaveral air force station is no longer available to motorized boats (a90par01).

1988

RELATIVELY ABUNDANT IN ALL SEASONS BUT WINTER WITH THE HEAVIEST CONCENTRATION BETWEEN MARCH AND MAY; SOME UTILIZE WARM-WATER REFUGE IN WINTER; FEED ON SUBMERGED VASCULAR PLANTS, ALGAE, WATER HYACINTHS AND BANK GRASSES; CA. 150 INHABIT THIS AREA IN SUMMER, 120 IN WINTER; UP TO 245 ANIMALS HAVE BEEN COUNTED IN BREVARD COUNTY IN MARCH (A83SHA03FL)



**LOCATION**



**LEGEND**

- MILITARY RESV. BOND
- CORPORATE LIMITS
- RAILROAD
- PAVED ROAD-HIGH TYPE
- BITUMINOUS ROAD
- INTERSTATE HIGHWAY
- U. S. HIGHWAY
- STATE HIGHWAY
- INTRACOASTAL WATERWAY
- AQUATIC PRESERVE

**FOR ILLUSTRATIVE PURPOSES ONLY**

**MAP OF BANANA RIVER AQUATIC PRESERVE (AQUATIC PRESERVE A-7) BREVARD COUNTY, FLORIDA**

CREATED BY  
 STATE OF FLORIDA BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND  
 OCTOBER 21, 1969  
 RESOLUTION ADOPTED OCTOBER 21, 1969

PREPARED BY F. J. HANSEN  
 DIVISION OF LAND MANAGEMENT  
 APRIL, 1970

# Florida Natural Areas Inventory - Element Rank Explanations

*global rank, state rank, federal status, state status*

- LT** = Listed as Threatened Species. Defined as any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.
- PT** = Proposed for listing as Threatened Species.
- C1** = Candidate Species for addition to the List of Endangered and Threatened Wildlife and Plants, Category 1. Taxa for which the USFWS currently has substantial information on hand to support the biological appropriateness of proposing to list the species as endangered or threatened.
- C2** = Candidate Species, Category 2. Taxa for which information now in possession of the USFWS indicates that proposing to list the species as endangered or threatened is possibly appropriate, but for which conclusive data on biological vulnerability and threat(s) are not currently available to support proposed rules at this time.
- 3A** = Category 3A. Taxa which are no longer being considered for listing as endangered or threatened because of persuasive evidence of extinction.
- 3B** = Category 3B. Taxa which are no longer being considered for listing as endangered or threatened because the names do not represent taxa meeting the Endangered Species Act's definition of "species."
- 3C** = Category 3C. Taxa that have proven to be more abundant or widespread than was previously believed and/or those that are not subject to any identifiable threat.
- AC** = Agency Concern. Species which are not currently listed or candidates, but which are a matter of concern to the USFWS.
- LTSA** = Threatened due to similarity of appearance.
- N** = Not currently listed, nor currently being considered for addition to the List of Endangered and Threatened Wildlife and Plants.
- STATE**
- Animals (Florida Game and Fresh Water Fish Commission- FGFWFC)
- LE** = Listed as Endangered Species by the FGFWFC. Defined as a species, subspecies, or isolated population which is so rare or depleted in number or so restricted in range of habitat due to any man-made or natural factors that it is in immediate danger of extinction or extirpation from the state, or which may attain such a status within the immediate future.
- LT** = Listed as Threatened Species by the FGFWFC. Defined as a species, subspecies, or isolated population which is acutely vulnerable to environmental alteration, declining in number at a rapid rate, or whose range or habitat is declining in area at a rapid rate and as a consequence is destined or very likely to become an endangered species within the foreseeable future.
- LS** = Listed as Species of Special Concern by the FGFWFC. Defined as a species, subspecies, or isolated population which warrants special protection, recognition, or consideration because it has an inherent significant vulnerability to habitat modification, environmental alteration, human disturbance, or substantial human exploitation which, in the foreseeable future, may result in its becoming a threatened species.
- N** = Not currently listed, nor currently being considered for listing.
- Plants (Florida Department of Agriculture and Consumer Services- FDACS)
- LE** = Listed as Endangered Plants in the Preservation of Native Flora of Florida Act. Defined as species of plants native to the state that are in imminent danger of extinction within the state, the survival of which is unlikely if the causes of a decline in the number of plants continue, and includes all species determined to be endangered or threatened pursuant to the Federal Endangered Species Act of 1973, as amended.
- PE** = Proposed by the FDACS for listing as Endangered Plants.
- LT** = Listed as Threatened Plants in the Preservation of Native Flora of Florida Act. Defined as species native to the state that are in rapid decline in the number of plants within the state, but which have not so decreased in such number as to cause them to be endangered.
- PT** = Proposed by the FDACS for listing as Threatened Plants.
- CE** = Listed as a Commercially Exploited Plant in the Preservation of Native Flora of Florida Act. Defined as species native to the state which are subject to being removed in significant numbers from native habitats in the state and sold or transported for sale.
- PC** = Proposed by the FDACS for listing as Commercially Exploited Plants.
- (LT)** = Listed threatened as a member of a larger group but not specifically listed by species name.
- N** = Not currently listed, nor currently being considered for listing.

# Florida Natural Areas Inventory - Element Rank Explanations

*global rank, state rank, federal status, state status*

November 1992

An element is any exemplary or rare component of the natural environment, such as a species, plant community, bird rookery, spring, sinkhole, cave, or other ecological feature. An element occurrence (EO) is a single extant habitat which sustains or otherwise contributes to the survival of a population or a distinct, self-sustaining example of a particular element. The major function of the Florida Natural Areas Inventory is to define the state's elements of natural diversity, then collect information about each element occurrence.

The Florida Natural Areas Inventory assigns two ranks for each element. The global element rank is based on an element's worldwide status; the state element rank is based on the status of the element in Florida. Element ranks are based on many factors, the most important ones being estimated number of element occurrences (EOs), estimated abundance (number of individuals for species; area for natural communities), range, estimated adequately protected EOs, relative threat of destruction, and ecological fragility.

## FNAI GLOBAL/STATE RANK

### GLOBAL ELEMENT RANK (priority)

- G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences or less than 1000 individuals) or because of extreme vulnerability to extinction due to some natural or man-made factor.
- G2 = Imperiled globally because of rarity (6 to 20 occurrences or less than 3000 individuals) or because of vulnerability to extinction due to some biological or man-made factor.
- G3 = Either very rare and local throughout its range (21-100 occurrences or less than 10,000 individuals) or found locally in a restricted range or vulnerable to extinction because of other factors.
- G4 = apparently secure globally (may be rare in parts of range)
- G5 = demonstrably secure globally
- GH = of historical occurrence throughout range, may be rediscovered (e.g., ivory-billed woodpecker)
- GX = believed to be extinct throughout range
- GXC = extirpated from the wild but still known from captivity/cultivation

G#? = Tentative rank (e.g., G2?)

G#G# = range of rank; insufficient data to assign specific global rank (e.g., G2G3)

G#T# = rank of taxonomic subgroup such as subspecies or variety; numbers have same definition as above (e.g., G3T1)

G#Q = rank of questionable species - ranked as species but questionable whether it is species or subspecies; numbers have same definition as above (e.g., G2Q)

G#T#Q = same as above, but validity as subspecies or variety is questioned.

GU = due to lack of information, no rank or range can be assigned (e.g., GUT2).

G? = not yet ranked (temporary)

### STATE ELEMENT RANK (priority)

Definition parallels global element rank: substitute "S" for "G" in above global ranks, and "in state" for "globally" in above global rank definitions.

Additional state element ranks:

SA = accidental in Florida, i.e., not part of the established biota

SE = an exotic species established in state; may be native elsewhere in North America

SN = Regularly occurring, but widely and unreliably distributed; sites for conservation hard to determine

### FEDERAL/STATE LEGAL STATUS

FEDERAL (U. S. Fish and Wildlife Service- USFWS)

LE = Listed as Endangered Species in the List of Endangered and Threatened Wildlife and Plants under the provisions of the Endangered Species Act. Defined as any species which is in danger of extinction throughout all or a significant portion of its range.

PE = Proposed for addition to the List of Endangered and Threatened Wildlife and Plants as Endangered Species.

Element Occurrence Records for BREVARD COUNTY currently in the inventory database

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	STATE RANK	FED STATUS	STATE STATUS	COUNT
<u>OTHER</u>						
BIRD ROOKERY				N	N	14
MANATEE AGGREGATION SITE				N	N	6

Total items tallied: 70  
 Total records tallied: 374

Element Occurrence Records for BREVARD COUNTY currently in the inventory database

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	STATE RANK	FED STATUS	STATE STATUS	count
<b>MAMMALS</b>						
PEROMYSCUS POLIOTOTUS NIVEIVENTRIS	SOUTHEASTERN BEACH MOUSE	G5T1	S1	LT	LT	3
PODOMYS FLORIDANUS	FLORIDA MOUSE	G3	S3	C2	LS	1
TRICHECHUS MANATUS	WEST INDIAN MANATEE	G2?	S2?	LE	LE	1
<b>PLANTS</b>						
ASCLEPIAS CURTISSII	CURTISS' MILKWEED	G3	S3	N	LE	1
CALAMovilFA CURTISSII	CURTISS' SANDGRASS	G2	S2	C2	LE	3
CEREUS GRACILIS VAR SIMPSONII	SIMPSON'S PRICKLY-APPLE	G2G3T2	S2	C2	LE	9
CHAMAESYCE CUMULICOLA	SAND-DUNE SPURGE	G2	S2	C2	N	1
CONRADINA GRANDIFLORA	LARGE-FLOWERED ROSEMARY	G3	S3	C2	LE	3
GLANDULARIA MARITIMA	COASTAL VERVAIN	G2	S2	C2	LE	18
GLANDULARIA TAMPENSIS	TAMPA VERVAIN	G1	S1	C1	LE	4
HALOPHILA JOHNSONII	JOHNSON'S SEAGRASS	G2	S2	N	N	1
LANTANA DEPRESSA VAR FLORIDANA		G2T2	S2	C2	N	1
LECHEA CERNUA	NODDING PINWEED	G3	S3	3C	LE	2
LILIUM CATESBAEI	SOUTHERN RED LILY	G4	S3	N	LT	1
NEMASTYLIS FLORIDANA	FALL-FLOWERING IXIA	G2	S2	C2	LE	2
NOLINA ATOPOCARPA	FLORIDA BEAR-GRASS	G3	S3	C2	LE	1
OPHTOGLOSSUM PALMATUM	HAND FERN	G2	S2	3C	LE	3
PEPEROMIA HUMILIS	TERRESTRIAL PEPEROMIA	G5	S2	N	LE	1
PERSEA HUMILIS	SCRUB BAY	G3	S3	3C	N	3
REMIREA MARITIMA	BEACH-STAR	G3	S2	N	LE	2
RHYNCHOSTIA CINEREA	BROWN-HAIRED SNOUTBEAN	G3	S3	3C	N	4
SOPHORA TOMENTOSA	NECKLACE POD	G4	S3	N	N	3
TEPHROSIA ANGUSTISSIMA	COASTAL HOARY-PEA	G10	S1	C2	LE	1
TOURNEFORTIA GNAPHALOOES	SEA LAVENDER	G4	S3	N	LE	2
<b>NATURAL COMMUNITIES</b>						
ESTUARINE GRASS BED		G2	S2	N	N	1
WET FLATWOODS		G?	S4?	N	N	1
BEACH DUNE		G4?	S2	N	N	8
COASTAL GRASSLAND		G3	S2	N	N	2
COASTAL STRAND		G3?	S2	N	N	25
MARITIME HAMMOCK		G4	S3	N	N	18
SCRUB		G2	S2	N	N	24
SCRUBBY FLATWOODS		G3	S3	N	N	9
SHELL MOUND		G3	S2	N	N	1
XERTIC HAMMOCK		G?	S3	N	N	1

Element Occurrence Records for BREVARD COUNTY currently in the inventory database

SCIENTIFIC NAME	COMMON NAME	GLOBAL RANK	STATE RANK	FED STATUS	STATE STATUS	COUNT
<u>FISHES</u>						
ACIPENSER OXYRHYNCHUS	ATLANTIC STURGEON	G3	S2	LT*	LS	1
BAIRDIELLA SANCTAELUCIAE	STRIPED CROAKER	G5	S2	N	N	1
MICROPHIS BRACHYURUS	POSSUM PIPEFISH	G5	S3	N	N	1
RIVULUS MARMORATUS	MANGROVE RIVULUS	G5	S2	N	LS	2
<u>REPTILES</u>						
CARETTA CARETTA	LOGGERHEAD	G3	S3	LT	LT	2
CHELONIA MYDAS	GREEN TURTLE	G3	S2	LE	LE	2
DERMOCHELYS CORIAGEA	LEATHERBACK TURTLE	G3	S2	LE	LE	3
DRYMARCHON CORATIS COUPERI	EASTERN INDIGO SNAKE	G4T3	S3	LT	LT	5
GOPHERUS POLYPHEMUS	GOPHER TORTOISE	G3	S3	C2	LS	20
LAMPROPELTIS CALLIGASTER	MOLE SNAKE	G5	S2S3	N	N	1
PITUOPHIS MELANOLEUCUS MUGITUS	FLORIDA PINE SNAKE	G5T3?	S3	C2	LS	5
SCELOPORUS WOODI	FLORIDA SCRUB LIZARD	G3	S3	C2	N	3
<u>BIRDS</u>						
AJAJA AJAJA	ROSEATE SPOONBILL	G5	S2S3	N	LS	5
APHELOCOMA COERULESCENS COERULESCENS	FLORIDA SCRUB JAY	G5T3	S3	LT	LT	34
CASMERODIUS ALBUS	GREAT EGRET	G5	S4	N	N	9
EGRETTA CAERULEA	LITTLE BLUE HERON	G5	S4	N	LS	7
EGRETTA RUFESCENS	REDDISH EGRET	G4	S2	C2	LS	3
EGRETTA THULA	SNOWY EGRET	G5	S4	N	LS	7
EGRETTA TRICOLOR	TRICOLORED HERON	G5	S4	N	LS	8
EUDOCIMUS ALBUS	WHITE IBIS	G5	S4	N	N	8
GRUS CANADENSIS PRATENSIS	FLORIDA SANDHILL CRANE	G5T2T3	S2S3	N	LT	2
HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	G3	S2S3	LE	LT	33
IXOBRYCHUS EXILIS	LEAST BITTERN	G5	S4	N	N	1
LATERALLUS JAMAICENSIS	BLACK RAIL	G4?	S3?	C2	N	1
MYCTERIA AMERICANA	WOOD STORK	G4	S2	LE	LE	3
NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	G5	S3?	N	N	1
NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	G5	S3?	N	N	4
PANDION HALIAETUS	OSPREY	G5	S3S4	N	LS*	2
PELECANUS OCCIDENTALIS	BROWN PELICAN	G4	S3	AC	LS	5
PICOIDES BOREALIS	RED-COCKADED WOODPECKER	G2	S2	LE	LT	1
PLEGADIS FALCINELLUS	GLOSSY IBIS	G5	S2	N	N	4
POLYBORUS PLANCUS	CRESTED CARACARA	G5	S2	LT	LT	2
RYNCHOPS NIGER	BLACK SKIMMER	G5	S3	N	N	2
STERNA ANTILLARUM	LEAST TERN	G4	S3	N	LT	5

## Guide to the Florida Natural Areas Inventory County Matrix of Rare/Endangered Species

The attached county matrix is a subset of a statewide matrix, prepared by the Florida Natural Areas Inventory (FNAI), of distribution, habitats, and seasonality of rare/endangered species in Florida. The statewide matrix addresses all FNAI-listed plants and extant vertebrates\* and is available from FNAI.

The county matrix provides planners, land managers, and government decision-makers with a quick means of determining which rare/endangered species are likely to occur in their county, in which habitat(s) to expect those species, and at what time of year to search for them. The matrix will be updated periodically to reflect current knowledge of distribution, status, and taxonomy.

Data were extracted from the following sources: the FNAI data base, *Rare and Endangered Biota of Florida* (volumes 1-5), species checklists, field surveys, journal articles, floras, herbarium and museum records, and other literature (reference list included in statewide matrix). Habitat descriptions conform to the *Guide to Natural Communities of Florida* (Florida Natural Areas Inventory and Florida Department of Natural Resources, 1990\*\*); condensed descriptions of these communities are available from FNAI.

Plants are listed alphabetically by scientific binomial. Vertebrates are grouped by class and arranged alphabetically by scientific binomial within each class. Seasonal presence of birds was determined principally from Stevenson's *Checklist of Florida's Birds*.

Habitats listed for each species are those natural communities frequently inhabited by or most likely to contain the species. Habitat-specific comments immediately

follow the appropriate natural community; more general comments are incorporated into the comments section of the habitat field. Natural communities are listed from a statewide perspective and thus may include more habitats than occur or are utilized by each species in individual counties. Because of their high mobility, some animals may enter communities besides those listed. For especially wide-ranging species (such as the Florida panther), which may occupy many natural community types, habitat is identified broadly. For certain species, the matrix includes more than one level of the natural community hierarchy; e.g., roosting and nursery habitats of bats are defined specifically (Terrestrial Cave), while their foraging habitat is defined more broadly (Terrestrial).

Some amphibians reproduce in ephemeral bodies of water not recognized in the habitat categorization employed. For these species, the natural community types are modified by the phrase, "reproduces in ephemeral wetlands within this community." Likewise, the term "ruderal" is used to describe habitat for species that may inhabit man-made or highly altered environments (e.g., ditches, canals, canal banks, abandoned quarries, dredge spoil, trash piles, pine plantations, citrus groves, roof tops, bridges, buildings, pastures and old fields).

Seasonal distribution (seasonal presence or recognizability) of a taxon is denoted in the matrix by a horizontal calendar. The first and second halves of each month are indicated by "A" and "B", respectively. For plants, this field indicates the time of year when taxonomic identification can be determined from vegetative (V), flowering (F), or fruiting (Fr) parts. For animals, a "P" (present) indicates those months in which the species can be found in Florida or most easily located within its preferred

DISTRIBUTION OF RARE/ENDANGERED SPECIES IN BREVARD COUNTY, FLORIDA (Florida Natural Areas Inventory, December 1989)

List is organized by Special Plants, in alphabetical order, followed by Vertebrates listed alphabetically within class.

County Status: C = confirmed R = reported ? = specimen available but may be incorrectly identified Habitat: see FNAI community classification

Seasonal Distribution: Plants- F = flowering Fr = fruiting V = vegetative Animals- P = present (see text) (+) = records outside expected period (birds only) (seasonal distribution is based on statewide data, not data specific to this county)

SPECIAL PLANTS

AMYRIS BALSAMIFERA (BALSAM TORCHWOOD)

County Status: ?

HABITAT: TERRESTRIAL: Rockland Hammock, Shell Mound, Beach Dune, Coastal Berm

SEASONAL DIST.: Jana JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB Nova NovB DecA DecB

COMMENTS: Specimens from VOLU and BREV appear to be mis-identified. They appear to be A. balsamifera

ANDROPOGON ARCTATUS (PINE-WOODS BLUESTEM)

R

HABITAT: TERRESTRIAL: Mesic Flatwoods, Scrubby Flatwoods, Scrub PALUSTRINE: Seepage Slope

SEASONAL DIST.: Jana JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB Nova NovB DecA DecB

COMMENTS: flowers after fire

ASCLEPIAS CURTISSII

C

(CURTISS' MILKWEED)

HABITAT: TERRESTRIAL: Scrub, Scrubby Flatwoods, Xeric Hammock

SEASONAL DIST.: Jana JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB Nova NovB DecA DecB

CALAMOVILFA CURTISSII

C

(CURTISS' SANDGRASS)

HABITAT: TERRESTRIAL: Mesic Flatwoods PALUSTRINE: Wet Prairie, Wet Flatwoods, Depression Marsh

SEASONAL DIST.: Jana JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB Nova NovB DecA DecB

COMMENTS: flowers after fire

CENTROSEMA ARENICOLA

C

(SAND BUTTERFLY PEA)

HABITAT: TERRESTRIAL: Sandhill, Scrubby Flatwoods COMMENTS: ruderal

SEASONAL DIST.: Jana JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB Nova NovB DecA DecB

CEREUS GRACILIS

C

(PRICKLY-APPLE)

HABITAT: TERRESTRIAL: Shell Mound, Maritime Hammock, Rockland Hammock

SEASONAL DIST.: Jana JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB Nova NovB DecA DecB

CHAMAESYCE CUMULICOLA

C

(SAND-DUNE SPURGE)

HABITAT: TERRESTRIAL: Scrub, Beach Dune, Maritime Hammock, Coastal Strand COMMENTS: in openings

SEASONAL DIST.: Jana JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB Nova NovB DecA DecB



DISTRIBUTION OF RARE/ENDANGERED SPECIES IN BREVARD COUNTY, FLORIDA (Florida Natural Areas Inventory, December 1989)

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SPECIAL PLANTS (cont.)

LECHEA CERNUA (HOODING PINWEED) C

HABITAT: TERRESTRIAL: Scrub COMMENTS: openings; disturbed areas; common after fires

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
F Fr F Fr

LECHEA DIVARICATA (PINE PINWEED) C

HABITAT: TERRESTRIAL: Scrub, Scrubby Flatwoods

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
F Fr F Fr

LILIUM CATESBAEI (SOUTHERN RED LILY) C

HABITAT: TERRESTRIAL: Mesic Flatwoods PALUSTRINE: Wet Prairie, Wet Flatwoods, Seepage Slope COMMENTS: usually with grasses

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
F F

MONOTROPIS REYNOLDSIAE (PIGMY-PIPES) C

HABITAT: TERRESTRIAL: Upland Hardwood Forest COMMENTS: often under dogwood (Cornus florida)

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
F F

MEMASTYLIS FLORIDANA (FALL-FLOWERING IXIA) C

HABITAT: TERRESTRIAL: Mesic Flatwoods PALUSTRINE: Dome Swamp, Wet Flatwoods, Seepage Slope, Wet Prairie COMMENTS: clearings

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
F F

NOLINA ATOPOCARPA (FLORIDA BEAR-GRASS) C

HABITAT: TERRESTRIAL: Mesic Flatwoods COMMENTS: grassy areas

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
F F

OPHIOGLOSSUM PALMATUM (HAND FERN) C

HABITAT: PALUSTRINE: Hydric Hammock COMMENTS: epiphytic on cabbage palms (Sabal palmetto)

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
F F

PAVONIA SPINIFEX (YELLOW HIBISCUS) C

HABITAT: TERRESTRIAL: Upland Hardwood Forest, Shell Mound PALUSTRINE: Hydric Hammock COMMENTS: on limestone

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
F F







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REPTILES (cont.)

DERMOCHELYS CORIACEA

(LEATHERBACK TURTLE)

R

HABITAT: TERRESTRIAL: Beach Dune -nesting , Coastal Grassland -nesting MARINE: Various Marine Habitats ESTUARINE: Various Estuarine Habitats

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB

COMMENTS: "C" in county distribution represents nesting records; "R" represents non-nesting records

DRYMARCHON CORAIS COUPERI

(EASTERN INDIGO SNAKE)

C

HABITAT: TERRESTRIAL: Mesic Flatwoods, Upland Pine Forest, Sandhill, Scrub, Scrubby Flatwoods, Rockland Hammock , Ruderal PALUSTRINE: Hydric Hammock , Wet Flatwoods ESTUARINE: Estuarine Tidal Swamp

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB

GOPHERUS POLYPHEMUS

(GOPHER TORTOISE)

C

HABITAT: TERRESTRIAL: Sandhill, Scrub, Scrubby Flatwoods, Xeric Hammock, Coastal Strand , Ruderal

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB

LAMPROPELTIS CALLIGASTER

(MOLE SNAKE)

C

HABITAT: TERRESTRIAL: Sandhill, Upland Pine Forest, Scrubby Flatwoods , Ruderal

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB

LEPIDOCHELYS KEMPII

(ATLANTIC RIDLEY)

R

HABITAT: MARINE: Various Marine Habitats ESTUARINE: Various Estuarine Habitats

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB

COMMENTS: all records, at present, represent non-nesting occurrences

NERODIA CLARKII TAENIATA

(ATLANTIC SALT MARSH SNAKE)

R

HABITAT: MARINE: Marine Tidal Marsh ESTUARINE: Estuarine Tidal Marsh

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB

PITUIPHIS MELANOLEUCUS MUGILIUS

(FLORIDA PINE SNAKE)

R

HABITAT: TERRESTRIAL: Sandhill, Scrubby Flatwoods, Xeric Hammock , Ruderal

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB



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BIRDS (cont.)

ATHENE CUNICULARIA FLORIDANA

(FLORIDA BURROWING OWL)  
 HABITAT: TERRESTRIAL: Sandhill, Dry Prairie, Ruderal

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
 P

R

BUTEO BRACHYURUS

(SHORT-TAILED HAWK)

HABITAT: TERRESTRIAL: Various Terrestrial Habitats

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
 P

R

CASMERODIUS ALBUS

(GREAT EGRET)

HABITAT: TERRESTRIAL: Various Terrestrial Habitats

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
 P

C

CHARADRIUS MELODIUS

(PIPING PLOVER)

HABITAT: TERRESTRIAL: Beach Dune

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
 NORTH: P  
 SOUTH: P

R

DENDROICA DISCOLOR PALUDICOLA

(FLORIDA PRAIRIE WARBLER)

HABITAT: TERRESTRIAL: Maritime Hammock

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
 P

R

EGRETTA CAERULEA

(LITTLE BLUE HERON)

HABITAT: PALUSTRINE: Various Palustrine Habitats

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
 P

C

EGRETTA RUFESCENS

(REDDISH EGRET)

HABITAT: MARINE: Marine Tidal Swamp

SEASONAL DIST.: JanA JanB FebA FebB MarA MarB AprA AprB MayA MayB JunA JunB JulA JulB AugA AugB SepA SepB OctA OctB NovA NovB DecA DecB  
 P

C













Appendix F

THE CITY OF COCOA BEACH, FLORIDA  
CITY COMMISSION MINUTES  
November 19, 1992

---

The Meeting was called to Order by Mayor Lawton at 7:30 P.M.

MEMBERS PRESENT DURING ROLL CALL:

Commissioner Patricia Englehart  
Commissioner William H. Allen  
Commissioner J. Michael Thames  
Vice-Mayor Wilma Whippo  
Mayor Robert E. Lawton

ADMINISTRATIVE MEMBERS PRESENT:

William A. Ryan, City Manager  
William E. Weller, City Attorney  
Donna R. Archer, City Clerk  
Loredana Kalaghchy, Deputy City Clerk  
Robert Walker, Fire Chief  
Anthony Vitek, Deputy Chief of Police  
Gene Burress, Recreational Complex Manager  
Rajesh Verma, City Engineer  
Bill Wade, Personnel Director  
Bud Emerson, Finance Director

There were 111 members of the audience.

---

C. INVOCATION: By Reverend Richard McDole, First Christian Church

D. PLEDGE OF ALLEGIANCE: Led by William E. Weller, City Attorney

E. REVIEW OF MINUTES: Regular Meeting - November 5, 1992

Vice-Mayor Whippo requested that the attached verbatim be included in the text of the Minutes. Commissioner Allen made several minor word changes.

MOTION by Whippo/Thames

I move that the Minutes of November 5, 1992, be accepted as corrected.

VOICE VOTE ON THE MOTION CARRIED UNANIMOUSLY.

F. OLD BUSINESS

1. Ordinance No. 990 - Second Reading and Public Hearing  
Amend Code of Ordinances, Chapter 6.5, Fees at Recreation Complex,  
Establishing Rates for Golf, Pool, Pavilion and Ball Fields

MOTION by Thames/Whippo

I move that this item be deferred (tabled) until after the 8:00 P.M. Organizational Meeting.

VOICE VOTE ON THE MOTION CARRIED UNANIMOUSLY.

SPECIAL PRESENTATIONS:

Mayor Lawton noted that several individuals wanted to address the Commission and with the Commissioners' approval, this portion of the agenda was taken out of order.

THE CITY OF COCOA BEACH, FLORIDA  
CITY COMMISSION MINUTES

- (1) Pavilion rental, full day - 8 hours, \$50.00
- (2) Pavilion with kitchen, per day, \$50.00 in addition to Pavilion rental
- (3) Pavilion with pool, per day, \$1.50 per person extra

There will be a \$150.00 refundable clean-up fee and damage fee for kitchen and pavilion.

Mr. Morgan recommended that the City not refund \$50.00 of this damage deposit. Commissioner Huey responded that this deposit will be returned to the lessee after damage and clean-up fees are taken out, if necessary. If the lessee leaves a clean pavilion, they will have the entire deposit returned to them.

VOICE VOTE ON THE AMENDMENT CARRIED UNANIMOUSLY.

ROLL CALL on the Main Motion, as Amended, Carried Unanimously: Commissioner Englehart-Aye; Vice-Mayor Allen-Aye; Commissioner Yarosh-Aye; Commissioner Yarosh-Aye; and Mayor Lawton-Aye.

Mr. Arvid Dahlquist commended the tenacity of the Commission to get this Ordinance passed. He also complimented the group running the dining room at the County Club.

Mayor Lawton complimented the new Commissioners on the work they did to get this Ordinance adopted.

G. NEW BUSINESS:

1. Request to Vacate Alley located on the North Side of 199 E. Cocoa Beach Causeway - Former "Harbor Inn" Property

Mayor Lawton reported that the applicant has removed their request.

2. Request to Waive Bid Procedures on Compact Filing System for the Records Division of the Cocoa Beach Police Department

Attached hereto and made a part of these Minutes is the Bid Tabulation on this G.S.A. Contract item, and the City Manager's recommendation.

MOTION By Allen/Englehart

I move that the City waive the bid procedures and authorize the City Manager to award a G.S.A. contract to Shell Office System for a Kompact Mechanical Assist Filing System in the amount of \$9,677.53.

VOICE VOTE ON THE MOTION CARRIED UNANIMOUSLY.

3. Review of Thousand Islands Land Management Plan

MOTION By Allen/Englehart

I move that the Thousand Islands Land Management Plan, as prepared by the Recreation Advisory Board and incorporating the recommendations of the

THE CITY OF COCOA BEACH, FLORIDA  
CITY COMMISSION MINUTES

Waterways Advisory Board, and the revisions made at the Work Session on November 17, 1992, be adopted and sent to the State for their approval.

Mr. Jim Doyle reported, to the Commissioners, the errors that he found with this proposed Plan. These were minor word changes and the Commissioners agreed with his recommended changes.

Mr. Ron Baylogh addressed the City Commissioners regarding this Plan, particularly the amendment that addresses the use of the islands as spoil sites for the canal dredging projects. He reported on the major impact this spoil dumping does to the islands and the marine life, by altering the islands. In his opinion, it does not meet the City's goal of keeping the islands in a pristine condition. He also felt that this procedure is damaging to the property because it alters the islands. He recognized that the dredging projects are needed, but he did not want the islands ruined by this dumping; other sites should be located.

Mr. Doyle agreed with the comments by Mr. Baylogh. He felt that the State of Florida will probably not allow the City to use this site for dredge dumping.

Mr. Hank Waddell, Chairman of the Waterways Advisory Board, reported that the City has received all their State permits. These permits were obtained with the understanding that the spoil will be placed on the upland islands. He did not believe that these dredging plans will interfere with the primary use of these Thousand Islands.

Mayor Lawton commented that the Commissioners are concerned about these islands and there are certain checks and balances in place on this project; he believed that the environment and the citizens will be well served.

Commissioner Yarosh expressed his concerns that the City's concerns of the environment is not contained in this Plan. The City Engineer and Mr. Waddell assured the City Commission that a commitment has been made to preserve the mangroves and the upper islands.

Mr. Karl Scheuplein did not want to tie the City's hands, so that the canals do not get dredged.

VOICE VOTE ON THE MOTION CARRIED 4 to 1; Commissioner Yarosh voting Nay.

4. Selection of City Member to Serve on Brevard Metropolitan Planning Organization

MOTION By Allen/Huey

I move that Commissioner Yarosh be appointed as the Cocoa Beach representative on the Brevard Metropolitan Planning Organization.

VOICE VOTE ON THE MOTION CARRIED UNANIMOUSLY.

5. Resolution No. 92-52 - Transferring Unencumbered Appropriation Balances or Portions Thereof

With the permission of the City Commission, the City Attorney read

# Interoffice Memorandum

To: City Commission  
Through: William Ryan, City Manager  
From: Melvin Mayes, Planning Board Chairman  
Subject: Thousand Islands  
Date: October 13, 1992



On October 5, the Planning Board, at the request of the City Commission, reviewed Resolution No. 92-01 submitted by the Citizens Action Committee addressing the Leased Lands in the Thousand Islands of the Banana River.

Following some discussion, it was pointed out that the Recreation Board was in the process of compiling a Management Plan for the Thousand Islands area. It was the consensus of the Board that the Thousand Islands be kept in its natural state; the Management Plan should reflect this objective.

The Thousand Islands have been designated the Conservation Use in the Future Land Use Element Map of the City's Comprehensive Plan. The Coastal Management/Conservation Element of the Plan, on page V-14, Policy 3.3 states that: "the City will set aside at least two islands in the Thousand Islands to be used exclusively as rookeries and wildlife habitat and will post appropriate signs to this effect on the islands." Following some discussion, the Board Members were of the opinion that the wording on this policy needs to be amended to incorporate setting aside of all the Thousand Islands for rookeries and wildlife habitat. The following motion was made:

#### Motion Brosier/Colmer

I move that the Planning Board concurs with the Citizens Actions Committee Resolution 92-01, that the Planning Board will take an action item to revise Policy 3.3, on page 5-14 of the Comprehensive Plan, which the Board believes should not be reflected in the Recreation Board Management Plan.

Washburn, the City's Planning Consultant, pointed out that the revision of the Comprehensive Plan will take some time to get adopted; the Management Plan will need to be submitted to the State prior to amendment of the plan.

VOICE VOTE ON THE MOTION CARRIED UNANIMOUSLY.

Melvin Mayes

LK



(305) 783-4911

# City of Cocoa Beach

*Excellent Recreation and Quality Living*

2 South Orlando Avenue / P.O. Box 320280 • Cocoa Beach, FL 32932-0280

THE CITY OF COCOA BEACH  
RECREATION ADVISORY BOARD  
NOTICE OF PUBLIC HEARING

The RECREATION ADVISORY BOARD for the City of Cocoa Beach, Florida will hold a special meeting to discuss the following items at the stated date and time in the Commission Room of City Hall, 2 South Orlando Avenue, Cocoa Beach, Florida.

May 27, 1992  
7:30 P.M.

AGENDA

- I. Call to Order
- II. Roll Call
- III. Old Business
  - A. Thousand Islands Land Management Plan

A D J O U R N M E N T

\*PLEASE NOTE: This is a Public Meeting. Should any interested party seek to appeal any decisions made by the Board with respect to any matter considered at such meeting or hearing, he will need a record of the proceedings, and for such purpose he may need to insure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD  
MAY 27, 1992

The meeting was called to order by Chairman Lamy at 7:30 P.M.

MEMBERS PRESENT

Chairman Lamy  
John Allen  
Ted Carey  
Astrid Stennes  
Carl Taylor  
Barry DuPuis  
Frank Deutsch  
John Damm

MEMBERS ABSENT

William Young

ADMINISTRATIVE MEMBERS PRESENT

Robert Scott, Parks and Recreation Director  
Commissioner Allen

3. OLD BUSINESS

The City is obligated under the deed that the land was purchased, to make a recommendation for the dedication of the Thousand Islands as a national reserve for passive recreation only. A lengthy discussion followed concerning this study and what is expected of the Recreation Advisory Board.

Mr. DuPuis said a condition of the lease is a submission of the management plan draft by a certain date. He thinks this needs to be clarified to make sure the interpretation is correct. Mr. Carey asked who would make the management plan. Mr. Lamy explained that Mr. Ryan would submit the plan. Mr. Lamy said the City manager had explained that the deed stated the land could not be touched, no improvements made. Mr. Allen would like to have Mr. Ryan, the City Manager at the next meeting to explain exactly what is expected of the Recreation Advisory Board.

Mr. Henry Waddell, chairman of the Waterways Advisory Board spoke. He received a copy of the land management study from Mr. Scott and also spoke to Mr. Deutsch. Mr. Waddell has a copy of the Fort Lauderdale waterway master plan. The Thousand Island presents a tremendous recreational opportunity which also could bring revenue to the City. Mr. Waddell strongly urges the Recreation Board against not doing anything. He would like to see the Planning and Zoning Board, Waterway Advisory Board and the Recreation Advisory Board come up with a plan to use some of the property for passive recreation. The Waterway Advisory Board is working on dredging areas which will give access to the Thousand Island area. Mr. Waddell said if the Recreation Advisory Board wants to take on this plan, the Water Ways Advisory Board will help.

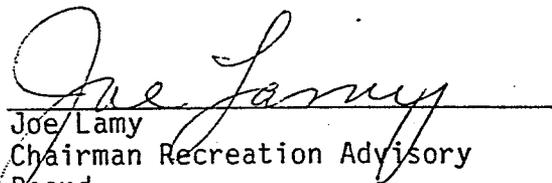
Mr. Carey asked if any aerial shots were taken when the pictures were taken of the Complex. Mr. Allen explained it was not but Allen Engineering did

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD

the survey work for the Thousand Island project and the firm had aerial pictures. Mr. Allen will have this for the next meeting if the Board would like it. Mr. Lamy will call Mr. Ryan and invite him to the next meeting on June 10th. Mr. Waddell will invite a few members of his Board to the next meeting on June 10th. Mrs. Stennes wondered if Mr. Weller, City Attorney, should be at this meeting. Mr. Lamy will check with Mr. Ryan on whether legal representation is needed. Mr. DuPuis asked that a copy of Mr. Waddell's Waterway Master Plan from Fort Lauderdale be copied and sent to the Recreation Advisory Board. This will be mailed to all Board members. The Board members also asked Mr. Lamy to check with Mr. Ryan on getting an extension of time.

Being NO FURTHER business to come before the RECREATION ADVISORY BOARD, Mr. Lamy declared the meeting adjourned at 8:30 P.M.

The next meeting is on Wednesday, June 10, 1992 at 7:30 P.M. in the Commission Room at City Hall.

  
\_\_\_\_\_  
Joe Lamy  
Chairman Recreation Advisory  
Board

  
\_\_\_\_\_  
Liz Rowe  
Secretary

Approved by the Board:

June 10, 1992

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD  
JUNE 10, 1992

The meeting was called to order by Chairman Lamy at 7:30 P.M.

MEMBERS PRESENT

Chairman Lamy  
Vice-shairman Allen  
Ted Carey  
Astrid Stennes  
Barry DuPuis  
Albie Damm  
Frank Deutsch

MEMBERS ABSENT

Carl Taylor  
Bill Young

ADMINISTRATIVE MEMBERS

Robert Scott, Parks and Recreation Director  
Gene Burress, Recreation Complex Manager  
Liz Rowe, Secretary  
Commissioner Allen

There were approximately 17 people in the audience.

3. APPROVAL OF MINUTES: May 13, 1992  
May 27, 1992

MOTION by Carey/DuPuis

I move that the minutes of May 13 & 27, 1992 be accepted.

VOTE ON THE MOTION CARRIED UNANIMOUSLY.

4. REPORTS FROM THE BOARD:

There were no reports from the Recreation Advisory Board members.

OLD BUSINESS:

A. Thousand Islands

Mr. Lamy states he spoke with 27 members of Kiwanis and 26 said they wanted Thousand Island left in it's pristine state and one member would like to see a couple nature trails. Mr. Ryan addressed the Board on the City's position on Thousand Islands. The City's position is to keep the islands in their pristine condition and possibly have passive recreation and activities. These islands need to be kept in their natural state. The lease option calls for a management plan. This plan will be set up by the Recreation Advisory Board and be approved by the State.

Mr. Carey suggested inviting the community to speak with the Board on how they would like the Thousand Island handled. Mr. Lamy said the next meeting will be an open forum for the citizens syggestions on the Thousand Islands. Mr. Scott will see that this is advertised for the public.

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD

Mr. Hank Waddell from the Waterways Advisory Board spoke on the Thousand Island Project. He explained that Sgt. Gary Hummel, Marine Patrol, took 6 kids to Thousand Islands and got 27 bags of trash. So someone is using the Islands. He feels there are larger activities planned for the Islands than the Recreation Advisory Board might address at this time. It may be involved in comprehensive plan for the Planning Board. They would like to see limited access to the Islands. He would like to see the City of Cocoa Beach, Water Ways Board, Planning Board and Recreation Advisory Board set up rules for future use of this valuable land. The Board asked Mr. Ryan to get an extension of time.

Mr. William Allen Sr. spoke to the Board about the traffic and parties that go on now at Thousand Islands. He would like to see more control with more police patrol. Currently, there are only 2 marine patrol officers and he would like to see this increased in the management plan.

B. Steering Committee Report

Mr. Allen stated the committee has been meeting on a weekly basis but the reports are a little behind. Macie Gibson gave this report. The report is attached as Exhibit 1. Mr. Burress said many of the problems this report has brought to attention are already being addressed.

Section A.

Item 1 - Mr. Burress will let Mr. Ryan decide on the issue of card playing

Item 2 - There is not a wall large enough in the Pro Shop to handle golf rate sign. Astrid Stennes recommended a free standing easel just inside Pro Shop.

Item 3 - Mr. Burress explained there is a janatorial service for the patio that should be cleaned every morning. All the windows are cleaned once a month.

Item 4 - The standing water in front of the fountain has been corrected.

Item 5 - Mr. Burress has taken action on repairing or replacing the chairs in the bar and dining room.

Item 6 - The split rail fence is suppose to be the bag drop and a sign will be place there designating this as such. Most of the other items have been taken care of.

Section B

Item 1 - Work order is in.

Item 2 - The trophy case will be placed where it can be seen

Item 3 - Work order is in.

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD  
July 8, 1992

The meeting was called to order by Chairman Lamy at 7:30 P.M.

MEMBERS PRESENT

Chairman Lamy  
Vice-chairman Allen  
Astrid Stennes  
Barry DuPuis  
Albie Damm  
Frank Deutsch

MEMBERS ABSENT

Ted Carey  
Carl Taylor  
Bill Young

ADMINISTRATIVE MEMBERS PRESENT

Robert Scott, Parks and Recreation Director  
Gene Burress, Recreation Complex Manager  
Liz Rowe, Secretary  
Commissioner Allen  
Commissioner Englehart

There were approximately 60 people in the audience.

3. APPROVAL OF MINUTES: June 10, 1992

MOTION by DuPuis/Allen

I move that the minutes of June 10, 1992 for the Regular Meeting be accepted.

Mr. Deutsch questioned a statement on page 3 section C. The statement was in the second paragraph made by Mr. Ryan. It states that Mr. Ryan felt the extra cost involved in providing a room is not warranted by the number of people using it and he would like an actual count of people playing cards. The facility was built for the golfers and card playing was not taken into consideration. Mr. Deutsch did not feel this was a true statement. When they talked about building the facility, they talked about having card rooms. Mrs. Rowe explained she took the statement directly from the tape of the meeting. Mr. Deutsch questions the veracity of the statement and if Mr. Ryan made the comment, it should be left in the minutes.

VOTE ON THE MOTION CARRIED UNANIMOUSLY.

4. REPORTS FROM THE BOARD:

There were no reports from the Board at this time.

5. OLD BUSINESS:

Due to a guest from the Florida State DNR Department, Brian Poole wanting

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD

to address the Board on the Thousand Island, the order of the agenda was changed. Mr. Poole is an environmental specialist with the Florida Department of Natural Resources. He is the local aquatic preserve manager for part of Indian River lagoon, Banana River and Mosquito lagoon. He recently became aware that a portion of Thousand Island was no longer in private hands but in public ownership. He suggests that he or the local aquatic preserve manager review the Board's draft management plan before it is sent to Tallahassee to help speed up the process. He is offering his services as a DNR representative to review the plan. Mr. Lamy asked if Mr. Poole could give any insight to what could and could not be done with the Islands. Mr. Poole thought a limit on the type and amount of development. Mr. Poole gave the Board the Banana River Aquatic Preserve book. It is a copy of the rules and regulations to this preserve which is adjacent to the Thousand Islands. Liz will make more copies and send to the absent Board members. This is attached as Exhibit 1.

Mr. Jim Doyle from the Citizen's Action Committee presented a resolution adopted by the CAC. This is attached as Exhibit 2. Mr. Doyle also read a letter from Mayor Lawton to then Governor Robert Graham dated June 20, 1986. This letter is attached as Exhibit 3.

Mike Bittner from the City's Planning Board. He was chairman of Board when most of the comprehensive plan was under development. The Planning Board was firmly and strongly of the opinion that the Islands should be retained in a natural state. All Board members present agreed that the Thousand Island should be left in a natural pristine state.

The following people in the audience addressed the Recreation Advisory Board; Arnold Stallin, Lyle Adams, Bruce Bashford. Their suggestions were to put some limitations on what can be done on the Islands, more policing as the Islands are under the ordinances as the City, not to do anything that might handcuff other City Boards, and concerns about spoil sites for future dredging.

Mr. Lamy asked Mr. DuPuis to chair a committee with Astrid Stennes and Carl Taylor. He would like a written proposal for the land management. He would like this to include leaving the Islands in a natural state, maintained in its natural state and reestablishing the Islands to a natural state. Also, he would like the steering committee to address fires, camping, and control of spoil waste for dredging. There has been an extension for the plan to be presented to the State, the new date is September 8, 1992.

6. NEW BUSINESS:

Ilene Grieshaber made a presentation to the Recreation Advisory Board concerning the construction of an ice skating rink facility. Jerry Varny,

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD  
THOUSAND ISLAND LAND MANAGEMENT  
STEERING COMMITTEE  
July 14, 1992

The meeting was called to order at 7:15 P.M. by Chairman DuPuis.

MEMBERS PRESENT

Chairman DuPuis  
Astrid Stennes  
Carl Taylor

VISITORS

Paul Ill  
Genevieve Ill

The purpose of this committee is to come up with a management plan. Mr. Lamy would like the committee to come up with a draft management plan with the following focuses. The consensus at the open forum meeting of July 22, 1992 was to leave the Islands in a natural state. The citizens would like to see the following areas limited; spoil use sites, camping, camp fires, parties and how the area should be patrolled and enforced. Also trying to re-establish some Islands that have been used for spoil sites. Brian Poole from DNR could not make the meeting but gave Mr. DuPuis interesting thoughts. Mr. DuPuis took an outline from the management plan given to the Recreation Advisory Board.

Mr. Ill went over the Citizens Action Committee resolution to keep the Islands in their natural state. He attended the Cocoa Beach Citizen's League meeting on July 14, 1992 and addressed the Board meeting. The Citizen's League Board is going to recommend this resolution to their members at their next meeting.

Astrid Stennes went over the material she had gathered. She had contacted the City Engineer, building code office and called Mr. Trafford. Astrid also spoke with Sgt. Gary Hummel of the Marine Patrol. He is willing to take the Committee members out to the Islands to show them around. Astrid Stennes said David Smith knows the history of the Islands but has not been able to get in touch with him. The main thing Astrid found out is they are naturalized. But before 1960's, they were being dumped on by dredging companies also mosquito control used the area for dumping. Most of the Islands is considered marshlands. Astrid's neighbor told her NASA has a program that incorporates all the newest technology they are learning from the Space Shuttles. They have a mandate to apply it to the Brevard County area. Her neighbor will make a list of these technologies and Astrid will check and see if any of them could be used.

Sgt. Hummell and Brian Poole did not see where the camping was causing problems. The vegetation is too thick on the Islands. The Banana River Aquatic Preserve booklet is good. Mr. DuPuis thinks the committee should just refer to this book in their report.

Mrs. Stennes thought the marine patrol could have more help maybe even 2 more patrol officers. Now the officers work in 12 hour shifts from 8:00am

CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD  
THOUSAND ISLAND LAND MANAGEMENT  
STEERING COMMITTEE

- 8:00pm. Mr. Taylor thought the number of police officers were sufficient for the number of incidents that occur.

Another area brought up was trimming the dead or freeze areas on the Islands. Mr. DuPuis had spoken to Brian Poole and found out that the osprey, an endangered bird, nests in dead Australian pine trees. He didn't think you'd be stopped from trimming some but you'd have to leave a certain amount of dead for habitat. Mr. DuPuis stated that if you are leaving the Islands in their natural state, then let nature take care of its dead material.

The Committee went over the example and decided what could be deleted and what should be included in the outline for the Board. Mr. DuPuis has this on his computer at work and will finish the outline there with the data everyone has gathered. As part of the plan, the Committee would like the City to provide to the Recreation Advisory Board within one year a digital analysis and then again in two years. Mr. DuPuis would also like to see educational signs placed on the Islands. Mr. DuPuis will try to get the outline done and to other committee members as soon as possible.

The meeting adjourned at 8:15 P.M.

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Barry DuPuis  
Chairman Thousand Island  
Management Plan



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Liz Rowe  
Secretary

Approved by the Committee:

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July 14, 1992  
Page 2 of 2 Pages

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD MINUTES  
July 22, 1992

The special meeting was called to order by Vice-chairman Allen at 7:30 P.M.

MEMBERS PRESENT

Vice-chairman Allen  
Carl Taylor  
Bill Young  
Barry DuPuis  
Frank Deutsch

MEMBERS ABSENT

Chairman Lamy  
Ted Carey  
Astrid Stennes  
Albie Damm

ADMINISTRATIVE MEMBERS PRESENT

Robert Scott, Parks and Recreation Director  
Liz Rowe, Secretary

There were approximately 23 people in the audience.

3. REPORTS FROM THE BOARD:

There were no reports at this time.

4. NEW BUSINESS:

There was no new business to discuss at this time.

5. OLD BUSINESS:

Ice Skating Rink

Ilene Grieshaber spoke to the Board about the rink. She has only heard favorable comments about locating in Cocoa Beach. Don Laws, Scott Hamilton's coach is interested in this project. Ms. Grieshaber has also given this proposal to the School Board. She is leaving the decision to the people from the City and School Board to make a decision about the land. They are interested in the land behind the Cocoa Beach High School due to all the current paved parking. The Board discussed the possibility of other land in Cocoa Beach. Mr. Allen did not feel the Board could make a recommendation at this time without knowing the location. Mr. Allen would like Ms. Grieshaber to convince the Commissioners first. If the land is not available in Cocoa Beach, the project will still be done in Brevard County. Mr. Scott offered to take Ms. Grieshaber for a tour of the area behind the school to see if there is enough land available. If 3½ acres of land is not available in this area, the project would not be possible.

Thousand Island Land Management Plan

Mr. DuPuis went over the Thousand Island Land Management plan. Mr. DuPuis also went over the outline the committee worked on. This outline is attached as Exhibit 1. The committee consisted of Barry DuPuis, Astrid

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD MINUTES

Stennes, Carl Taylor. Copies of the outline will be mailed to absent Board members. Discussion followed the presentation of the outline. Mr. DuPuis was impressed by the plan given by the DNR and also the Banana River Aquatic Preserve. Mr. DuPuis and Mr. Taylor took a tour with Sgt. Hummel. The committee also told the Board that the City has no jurisdiction over the Islands past south 2nd Street. The committee is not concerned with the youth and adults camping on the Islands. The camp fires are all in a good locations so no damage could be caused. The Committee and Sgt. Hummel felt the area youth were using the Islands responsibly. The Committee did not want any type of permanent structure on the Islands. Mr. Allen asked if anything could be done about the Brazilian Pepper trees. Mr. DuPuis said the only way this could be done is if a future study was done; first to determine the extent of tree removal and what should go in to replace it. Mr. Taylor went out and visited a few of the spoil Islands. There were no signs of destruction on any of the Islands. There is really nothing on the Islands to invite the Citizens for visiting. There is also a return of vegetation on the spoil Islands. The water managment plans to ask to discharge on the same Island used previously. Mr. Deutsch asked what the old building on the Island across from the old clubhouse is. Mr. Scott explained that mosquito control uses this building. Many of the Islands have old and dead growth around the perimeter of Islands. Some trees have been undermined and are sloping. A large number of these need to be removed. Mr. Deutsch asked if once the City gets involved with the Island, won't the City have to keep an inventory, replace vegetation and maintain the Islands? Mr. DuPuis said this has been attended to in the plan. The committee recommends that any type of hunting, gun or bow & arrow be discontinued. The committee would like to see the Islands south of 2nd Street which are privately owned be persued in a similar lease arrangement as other Thousand Islands. Discussion followed on the cost of the north Thousand Islands. Mr. Allen said the City would need a lot of participation from the State and County government to purchase these Islands.

Mr. Paul Ill had the cost. The Islands were purchased in 1988 with an agreement from the State, County, and City. The Islands consist of 17 parcels of land with an accessed value of the Islands being \$111,970. Total purchase price of the Islands was \$3,230,949.76. The State and County contributed  $\frac{1}{2}$  of the purchase price. The City's share was \$1,615,474.88. The City paid \$214,474 at closing and the remaining \$1,400,000 will be paid in equal installments over 10 years. Due to the high cost of the Islands, Mr. Allen suggested the word similar be removed from the statement. In the remaining area of maintenance responsibilities. The outline recommends removal of dead tree limbs only to keep water ways clear for boat traffic. Mr. Taylor remarked that if any type of recreational activity was put on the Islands, trash would have to be hauled everyday and also there are no restroom facilities available. Mr. Allen thinks the Committee did a terrific job. He would like the outline to be dressed up and finalized and given to the City.

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD MINUTES

Mr. Joe Morgan read a resolution from the Cocoa Beach Citizen's League. This is attached as Exhibit 2. Mr. Morgan thought the outline looked good and liked the ideas the Committee has put forth. Mr. Morgan also asked about water skiing near the Islands. Mr. Allen said that the Recreation Advisory Board does not get involved in this area. Mr. DuPuis made a comment from information he received from Sgt. Hummel. Last year when they were doing fly overs, if there were manatees in the area, no skiing was allowed. Only 3 weeks out of 52 were available for skiing. They have now discontinued skiing in the Island areas. The only skiing available is along the south and west side of the golfcourse. Mr. Morgan also asked if we were governed by the wild life and fishing, who was in charge of netting, what are the rules and regulations. Mr. Scott said netting was allowed in residential canals, not in the flatlands. Mr. Morgan said a lot of people are concerned about netting in the community, as we are losing a lot of fish. Mr. Morgan asked if the Board was chartered with recommending to the Commission on fishing? No one was quite sure who was responsible for fishing regulations in the waterways or the Thousand Islands. Many people do not consider netting as sport fishing. They feel there is a lack of fish for residents and the sport fisherman.

Mr. Ralph Stover addressed the Board with his concerns over the commercial fisherman using the Islands. He would like to see the Commercial fisherman regulated out of this area. He feels they have destroyed fishing in this area. Mr. Allen will call the City Manager and City Attorney to see if we have the authority to do this. Mr. Allen will also check to see where the City limits are to see what the problem is.

Mr. Jim Doyle from the Citizen's Action Committee like the outline but had the following suggestions; the City's Comprehensive plan should include the charter and code of ordinances including zoning regulations of the City, he would like to see Section 1 of the CAC resolution no. 92-01 used in paragraph L of the outline. This statement reads; The membership hereby authorizes support for a government concept and policy providing for a single use purpose for all City of Cocoa Beach leased lands in the Banana River from the State of Florida with such primary use being designated by the City solely to keep the Thousand Islands in a natural state with a management plan primarily for the maintenance of natural conditions to encourage the propagation of fish, birds, and wildlife, and mangroves and native vegetation, as may be allowed under Section 253.034 of the Florida Statutes, to the exclusion of other uses including recreational uses that are contrary to the primary use classification such as secondary uses for hunting and other activities harmful to the natural state and ecology of the Banana River. Mr. Doyle would like to see commercial fishing and netting omitted from Thousand Island area.

Mr. Frank Reilly from the Water Ways Advisory Board thought the outline covered what the Waterways Board would like to use the Island for. Mr. Reilly asked for a copy of this outline. The Waterways Board tried to get into the netting issue in 1986-87. They were told this was not their area but that the State has control over fishing in whole state. The City Commission went to the State and got authority to control the netting in

THE CITY OF COCOA BEACH, FLORIDA  
RECREATION ADVISORY BOARD MINUTES

residential canals only. Mr. Reilly has the ordinance on this. It is very specific in writing what canals, extend north, south, east, and west. It only pertains to the canals not the Thousand Island area. Mr. Reilly will give Bobby Scott a copy of this ordinance. This ordinance will be attached as Exhibit 3.

Mr. Ill said the purpose of the acquisition was to hold the property in trust for public use. The title to the Thousand Islands is held by the Board of Trustees of the Internal Improvements Trust Fund of the State of Florida. The Islands are lease to the City of Cocoa Beach for 50 years. The lease agreement was entered into on October 1, 1991.

Steering Committee

There was no report from Golf Steering Committee at this time. They have a rough draft on organization but it is not quite ready for reporting.

At this time Mr. Allen informed the Board, he has a problem with meeting on the second Wednesday and would like to switch to meeting on the third Wednesday of each month.

MOTION by Taylor/Young

I move to change the meeting date of the Recreation Advisory Board from the second Wednesday of each month to the third Wednesday.

VOTE ON THE MOTION CARRIED UNANIMOUSLY.

Definition of Resident

Mr. Allen read the change to Ordinance No. 973, Section 6.5-1. It follows; Section 6.5-1. Fees at recreation complex. "The following schedule of fees is hereby established for the utilization of the facilities at the Cocoa Beach Recreation Complex. The fees do not include applicable Florida sales tax. As used here in the term "resident" means a freeholder of property in Cocoa Beach or Cocoa Beach resident evidenced by a Florida driver's license, or voter registration; and "family" means spouse only for golf.

MOTION by Deutsch/DuPuis

I make the motion to accept the definition of residency as stated.

VOTE ON THE MOTION CARRIED UNANIMOUSLY.

6. DIRECTOR'S REPORT:

Mr. Scott asked the Board if they would like the August meeting to be held on the third Wednesday, August 19th. The Board agreed if there was not a consensus of the Board members, the meeting would be held on August 12. Mr. Scott did not have a report at this time.

REC  
B-1111

# Interoffice Memorandum

To: William A. Ryan, City Manager  
From: Robert Scott, Parks and Recreation Director *RS*  
Subject: Board Recommendation  
Date: August 21, 1992

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At the regular meeting of August 19, 1992, Mr. Taylor made a motion to present the attached Thousand Island Land Management Plan to the City Commission for their review and approval. Mr. Carey second the motion and all members present agreed.

There is one addition to be added to Section 8, Item B. The following statement should be placed before the Cocoa Beach Citizen's League: Citizen's Action Committee - June 27, 1992 resolution No. 92-01.

RS/lr

RECEIVED  
CITY MANAGER'S OFFICE

AUG 21 1992

COCOA BEACH, FLORIDA

THE CITY OF COCOA BEACH, FLORIDA  
WATERWAYS ADVISORY BOARD  
SEPTEMBER 8, 1992

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A. CALL TO ORDER

The Meeting was called to order by Vice-Chairman Daniel Macura at 1:30 P.M.

B. ROLL CALL

MEMBERS PRESENT

Robert Albright (Alternate)  
Mark Kabboord  
Jesse T. Kelsey  
Frank Reily  
Daniel Macura, Vice-Chairman

MEMBERS ABSENT

Kathleen Behrmann Excused  
William Chatterley  
Henry M. Waddell, Chairman Excused  
Kenneth Williams (Alternate)

ADMINISTRATIVE MEMBERS PRESENT

Rajesh Verma, City Engineer  
Gerry Hummel, Marine Patrol  
Barbara A. Hance, Secretary  
John Nesworthy, Traffic Engineering

There were no visitors in the audience.

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Vice-Chairman Macura announced that Mr. Albright would be a voting member of the Board.

C. REVIEW OF MINUTES - July 14, 1992

Motion by Kabboord/Albright

I move that the Minutes of the July 14, 1992, meeting be approved as amended.

VOICE VOTE ON THE MOTION CARRIED UNANIMOUSLY.

D. ADMINISTRATIVE REPORT - Review Deficiency Report - 07/14/92

Mr. Raj Verma, City Engineer, thanked Sgt. Gerry Hummel and Officer Ed Silva, Marine Patrol Unit of the Cocoa Beach Police Department, for their transportation services to the Thousand Islands. During their visit to the Islands, Mr. Verma observed that there were mangroves; he noted that they could be replanted, if uprooted, at the shoreline. He further noted that during the dredging project, no vegetation will be disturbed within 25 to 30 feet of the shoreline.

Mr. Verma reported that he had informed the City Manager of his meeting with DNR. He advised the Board that it was necessary to decide on a long-term maintenance dredging plan for future spoil sites. He estimated that over a fifty-year period of time, there will be about 200,000 cubic yards of dirt needed to be dredged from the channels and canals between S.R. 520 and Minutemen Causeway. He recommended three islands, designated as upland islands on the wetlands map, be set aside for future areas to deposit spoil. The three designated islands are marked as: Island 1, north of Bougainvillea Drive; Island 2, west of Cocoa Isles; and, Island 3, north of and between

THE CITY OF COCOA BEACH, FLORIDA  
WATERWAYS ADVISORY BOARD

Chairman Waddell requested that Mr. Reily, Mr. Albright, and Mr. Kabboord visit the Thousand Islands to observe some of the prospective spoil areas and report back to the Board.

Mr. Albright provided brochures for Hurricane preparation to each of the Board members.

Mr. Macura reported that there was a cable crossing sign leaning at the relief bridge on S.R. 520.

There were no reports, from the Board members, with regards to their respective Channel assignments.

A) Chairman to Report on Florida Inland Navigational District (FIND) Meeting

Chairman Waddell explained the duties of the FIND Board. The Board is comprised of 10 varied professionals who are familiar with waterways. He noted that the City of Cocoa Beach was the first city to request funds for equipment; normally the funds are requested to pay for labor or for contract work on a waterways-related project.

F. OLD BUSINESS -

A) Review ideas for proposed new Section to Chapter 5: referencing term "Un sightliness"

It was the consensus of the Board to defer this review to a later meeting.

G. NEW BUSINESS -

A) Discuss Thousand Island Management Plan

Mr. Verma noted that several large islands need to be identified, for future spoil sites; he recommended that this item be included in the proposed waterways management plan.

Mr. Frank Reily attended the Recreation Advisory Board meeting which was held on July 8, 1992. He informed the Board that there were many people who were in favor of leaving the Thousand Islands in their natural state. He further reported that the Recreation Advisory Board would be investigating the possibilities of preparing a management plan of the Thousand Islands.

Mr. Verma informed the Board that, with dredging the 200 channel, there would be no site in Cocoa Beach to deposit the spoil. He noted that the spoil might have an odor which would not last for long. He suggested that the Waterways Advisory Board needs to make an effort to encourage the community to support this dredging project, otherwise it would not work. He suggested that possible spoil sites must be discussed and identified with the State. He recommended that this item be included in the proposed waterways management plan.

THE CITY OF COCOA BEACH, FLORIDA  
WATERWAYS ADVISORY BOARD

Sgt. Hummel advised the Board that he and Officer Silva will be attending the Power Squadron Boating Course which will be held in September, 1992.

F. OLD BUSINESS -

- A) Review ideas for proposed new Section to Chapter 5: referencing term "Unsignhtliness"

Chairman Waddell discussed sample amendments for possible inclusion into the Code.

Sgt. Hummel informed the Board that he had received information from the Florida League of Cities (FLC) with regards to disposition of abandoned vessels, etc. He distributed copies of this information to the Board for their review.

There was lengthy discussion in regards to derelict and unsightly vessels. In response to Mr. Kabboord's suggestion that the registration of these vessels should be considered in the proposed new section of the Code that is being considered, Sgt. Hummel mentioned that he met with the Florida Marine Patrol and addressed boat registration; a boat owner doesn't need the tag or registration unless the vessel is in operation and cited an example. He informed them that the City can be more restrictive than the State and can require all boats to be registered. However, the City cannot be more lenient than the State. The Florida Marine Patrol advised Sgt. Hummel about using the word "registration" for the proposed new section to the Code. If the City requires a vessel to be registered, and it is not, the City can send the violator to the Code Enforcement Board.

After an elaborate discussion regarding terminology of "Unsignhtly", it was the consensus of the Board, when considering the proposed new section to the Code, that two separate sections be addressed - Unsignhtly and Abandoned.

Sgt. Hummel suggested that if the term "Abandoned" is to be enforced, the definition needs to be specific.

It was also suggested using the words "Over the Water", in addition to "On or Within the Waters" such as boats on lifts and should they be considered as being on private property.

G. NEW BUSINESS -

- A) Discuss Thousand Island Management Plan

Chairman Waddell read a copy of a letter from the Florida Department of Natural Resources (DNR) written to the City Manager on March 23, 1992. It referenced a phone conversation he had with the Bureau of Local Management Services, Division of State Lands, discussing the Thousand Islands. Chairman Waddell was of the opinion that portions of this letter might be helpful for FIND when they meet on June 26, 1992, in referencing information regarding their efforts for dredging a channel, and reaching the Thousand Islands by boat. This letter relates to the City's Comprehensive Plan. (A copy of this letter has been made a part of these minutes.) He also informed the Board

THE CITY OF COCOA BEACH, FLORIDA  
WATERWAYS ADVISORY BOARD

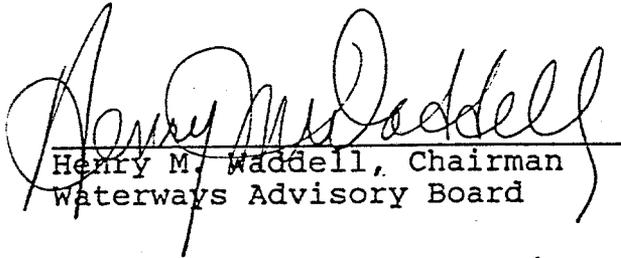
that he had been invited to the special meeting of the Recreation Advisory Board, on May 27, 1992, to discuss the Thousand Islands.

Chairman Waddell requested that all members of the Board be present at the June 10, 1992, meeting of the Recreation Advisory Board to hear the discussion about the Thousand Islands. The Board members presented different opinions of what they felt should be the future of the Thousand Islands.

H. CITIZEN'S COMMENTS - None

BEING NO FURTHER BUSINESS to come before the Board, Chairman Waddell declared the meeting adjourned at 3:37 P.M.

Submitted by:

  
Henry M. Waddell, Chairman  
Waterways Advisory Board

  
Barbara A. Hance  
Secretary

Approved by the Board:

July 14, 1992

THE CITY OF COCOA BEACH, FLORIDA  
WATERWAYS ADVISORY BOARD

Bali and Samar Roads. (A copy of this Aerial Map has been attached to these Minutes.) Presently, the Department of Natural Resources (DNR) holds the title to these three Islands. DNR recommended that these Islands should be included in the Thousand Island Management Plan.

Mr. Verma responded to several other suggestions, by Vice-Chairman Macura, as spoil sites. They are, 1) the area south of Minutemen Causeway: this portion of the Islands is privately owned. 2) the land owned by St. David's Church: there is not enough land which can be used. Mr. Verma noted that he is investigating the area West of Sloop Drive as another possible site. He responded to Mr. Albright's inquiry; a new island cannot be created for a spoil site.

Mr. Verma addressed the memo he sent to the City Manager regarding the formal approval from the DNR for the use of Island 2, as a spoil island for the 200 Channel maintenance dredging. He advised the Board that the DNR recommended that this Thousand Island LATF (Land Acquisition Trust Fund) project be included in the Banana River Aquatic Preserve. (A copy of this memo has been attached to these Minutes.)

Sgt. Hummel addressed the Board regarding several issues of concern. These items will be placed on the Deficiency Report. He reminded everyone about the six-week Safe Boating Course which is being conducted by the Cocoa Beach Power Squadron and begins on September 16, 1992, at the Roosevelt School.

**E. BOARD ACTION ITEMS**

Due to the absence of Ms. Behrmann and Mr. Chatterley, these actions items will be reviewed at the next scheduled meeting of the Waterways Advisory Board.

Mr. Reily's report on the Thousand Islands can be found in Section G. 1 of these minutes.

**F. OLD BUSINESS**

- 1) Review ideas for proposed new Section to Chapter 5: referencing term "Unsightliness" and Update Section 5-23: Abandoned Vessels

It was the consensus of the Board to defer this review to a later meeting. Several Board members suggested that ideas be compiled into a written summary and then submitted to the City Attorney for appropriate legal wording for Code incorporation.

- 2) Discuss Proposed Master Waterway Plan

In the absence of Chairman Waddell, the Board postponed discussion until his return.

- 3) Update on FIND Application

Mr. Verma noted that he and the City Manager met with the Florida Inland Navigation District (FIND), in Fort Pierce; the City was awarded a \$110,000 Grant to assist in purchasing the dredge for the 200 Channel and the

THE CITY OF COCOA BEACH, FLORIDA  
WATERWAYS ADVISORY BOARD

Residential Canals project. He informed the Board that the type of dredge had already been selected. However, the bid procedure process will have to be adhered to, unless the Commission waives bid procedures. He further noted that the Department of Environmental Regulation (DER), and the Army Corps of Engineers approved both dredging permits. He is still awaiting approval from the DNR; it may take at least another two or three months. During inquiries from the Board, Mr. Verma informed them that the DER permit expires in five years, while the Army Corps of Engineers permit is valid from five to ten years.

Mr. Verma informed the Board that he would be using a booster pump to work with the type of dredge they have chosen, so that the dredge would be able to be utilized for both dredging projects.

G. NEW BUSINESS

1) Discuss Thousand Island Management Plan

Mr. Reily reported that the Recreation Advisory Board is currently finalizing their report to present to the City Manager and then to the State. He noted that he would keep the Waterways Advisory Board apprised of their progress.

2) Discuss letter to City Manager from Henry Waddell, Chairman

It was the consensus of the Board to make known their suggestions and needs for dredging sites. They were of the opinion that the development of the Thousand Islands should be the responsibility of the Planning Board with input from the other Advisory Boards.

H. CITIZEN'S COMMENTS - None

BEING NO FURTHER BUSINESS to come before the Board, Vice Chairman Macura declared the meeting adjourned at 2:10 P.M.

Submitted by:

Approved by the Board:

October 13, 1992



Barbara A. Hance  
Secretary



Daniel Macura, Vice Chairman  
Waterways Advisory Board

*Appendix II.*

RESOLUTION NO. 92-01

A RESOLUTION OF THE CITIZENS ACTION COMMITTEE OF COCOA BEACH, INC., COCOA BEACH FLORIDA; AUTHORIZING SUPPORT FOR A MANAGEMENT PLAN CONCEPT AND POLICY FOR THE CITY OF COCOA BEACH LEASED LANDS IN THE THOUSAND ISLANDS OF THE BANANA RIVER THAT WILL REQUIRE SUCH LANDS TO BE KEPT IN A NATURAL STATE AND BE MAINTAINED ACCORDINGLY.

WHEREAS, the Citizens Action Committee of Cocoa Beach, Incorporated of Cocoa Beach, Florida, a non profit corporation under the laws of the State of Florida, has actively encouraged citizen participation in the affairs of government and does encourage its members, both individually and collectively, to make their viewpoints known to local governmental officials and boards in order that the quality of life in our community is not diminished or subverted in any way; and

WHEREAS, its membership finds and determines it to be necessary for the continued preservation of the welfare, convenience, health and safety of our community to take a position in respect to the use of the islands in the Banana River within and adjacent to the City of Cocoa Beach, Florida; and

WHEREAS, in particular, the City of Cocoa Beach has entered into a fifty (50) year management lease that commenced on October 1, 1991, with the State of Florida for certain lands within the City of Cocoa Beach, which are directly associated with the ecology of the Banana River and are commonly recognized as being a part of the Thousand Islands; and under such lease, the City is responsible for development of a management plan that is acceptable to the Bureau of Local Management Services of the Division of State Lands, under the Florida Department of Natural Resources; and

WHEREAS, the City Commission of Cocoa Beach, by Resolution (No. 86-26, dated April 17, 1986) determined that the acquisition of the said leased islands would insure that the islands would be retained in their wild and unspoiled state; but the thrust of the Resolution was seriously weakened by the City's Comprehensive Growth Plan, policy No. 3.3 (page V.14), which stipulates that "the City will set aside at least two islands in the Thousand Islands to be used exclusively as rookeries and wildlife habitat and will post appropriate signs to this effect on the islands"; and

WHEREAS, the City of Cocoa Beach Recreation Advisory Board has been designated by the City Commission through its City Manager to prepare a Management Plan draft for the said leased lands, the Citizen Action Committee has gone on record in respect to the use of such land and wishes to make known its position to the Recreation Advisory Board and the City Commission of Cocoa Beach and other governmental boards, offices and agencies.

NOW, THEREFORE, BE IT RESOLVED by the membership of the Citizen Action Committee of Cocoa Beach, Incorporated that:

**Section 1.** The membership hereby authorizes support for a government concept and policy providing for a single use purpose for all City of Cocoa Beach leased lands in the Banana River from the State of Florida with such primary use being designated by the City solely to keep the Thousand Islands in a natural state with a management plan primarily for the maintenance of natural conditions to encourage the propagation of fish, birds and wildlife, and mangroves and native vegetation, as may be allowed under Section 253.034 of the Florida Statutes, to the exclusion of other uses including recreational uses that are contrary to the primary use classification such as secondary uses for hunting and other activities harmful to the natural state and the ecology of the Banana River.

Section 2. The Chairman, Vice-Chairman for Governmental Affairs, and other officers and members of the Citizens Action Committee and citizens at large are encouraged to support and take individual and collective action in respect to this Resolution.

Section 3. This Resolution shall take effect immediately upon its adoption.

ADOPTED at a regular meeting, this 27th day of June, 1992.

CITIZENS ACTION COMMITTEE OF  
COCOA BEACH, INC

Anthony N. Johnson  
CHAIRMAN

ATTEST:

Heleen P. Dana  
SECRETARY  
CITIZENS ACTION COMMITTEE



COCOA BEACH CITIZENS LEAGUE, INC.

Post Office Box 320793  
Cocoa Beach, Florida 32932-0793

(WR)

RECEIVED  
CITY MANAGER'S OFFICE

July 17, 1992

COCOA BEACH, FLORIDA

Robert E. Lawton, Mayor  
City of Cocoa Beach  
P.O. Box 320280  
Cocoa Beach, Florida 32932-0280

Dear Mayor Bob;

This is to let you know that by unanimous vote, by the members of the Cocoa Beach Citizens League, attending their July luncheon meeting, approved the following resolution about our Thousand Islands area:

A resolution for a government concept and policy providing for a single use purpose for all City of Cocoa Beach leased lands in the Banana River from the State of Florida, which includes the Thousand Islands.

They are to be kept in a natural state with a management plan primarily for the maintenance of natural conditions to encourage the propagation of fish, birds and wildlife, and mangroves and native vegetation, as allowed under Florida Statute.

Thank you for your consideration.

Sincerely,

Joseph R. Morgan  
President

cc: Commissioner Whippo  
Allen  
Englehart  
Thames  
City Manager  
Recreation Board

# Appendix H



RECEIVED  
CITY MANAGER'S OFFICE

SEP 11 1990

COCOA BEACH, FLORIDA

STATE OF FLORIDA  
DEPARTMENT OF COMMUNITY AFFAIRS

2740 CENTERVIEW DRIVE • TALLAHASSEE, FLORIDA 32399-2100

BOB MARTINEZ  
Governor

THOMAS G. PELHAM  
Secretary

September 7, 1990

The Honorable Robert E. Lawton, Mayor  
City of Cocoa Beach  
City Hall  
2 South Orlando Avenue  
Cocoa Beach, Florida 32931

Dear Mayor Lawton:

The Department has completed its review of the amendments to Comprehensive Plan for the City of Cocoa Beach adopted on July 19, 1990 in Cocoa Beach Ordinance No. 932, and determined that they meet the requirements of Chapter 163, Part II, Florida Statutes, for compliance, as defined in Subsection 163.3184 (1)(b). The Department is issuing a Notice of intent to find the Plan Amendments in Compliance. The Notice of Intent has been sent to Florida Today for publication on September 9, 1990.

Please note that a copy of the City of Cocoa Beach Comprehensive Plan Amendments, the Department's letter of May 28, 1990 indicating that the Department had no objections, recommendations or comments, and the Notice of Intent must be available for public inspection Monday through Friday, except for legal holidays, during normal business hours, at City Hall, 2 South Orlando Ave, Cocoa Beach, Florida 32931

The Department appreciates your City's efforts to prepare and adopt these Comprehensive Plan Amendments to guide the growth and development of your community and further the growth management policies of the region and state. Very soon, the Department's attorneys, in conjunction with your attorney, will be filing a motion for the hearing officer to relinquish jurisdiction over your Plan, as amended, so the Administration Commission can enter an order finding your plan as amended "in compliance".

The Honorable Robert E. Lawton  
September 7, 1990  
Page Two

If you have any questions, please contact Robert Pennock,  
Chief, Bureau of Local Planning, at (904) 487-4545.

Sincerely,

*Robert G. Nave*

Robert G. Nave, Director  
Division of Resource Planning  
and Management

RGN/pnp

Enclosure: Notice of Intent

cc: William Ryan, City Manager  
Cliff Guillet, Executive Director, East Central Florida  
Regional Planning Council

STATE OF FLORIDA  
DEPARTMENT OF COMMUNITY AFFAIRS  
NOTICE OF INTENT TO FIND THE  
CITY OF COCOA BEACH  
COMPREHENSIVE PLAN AMENDMENTS IN COMPLIANCE  
DOCKET NO. 90-2-NOI-0504-(A)-(I)

The Department gives notice of its intent to find the amendment(s) to the Comprehensive Plan for Cocoa Beach adopted by Ordinance No. 932 on July 19, 1990, IN COMPLIANCE pursuant to Sections 163.3184 and 163.3187, F.S.

The adopted City of Cocoa Beach Comprehensive Plan amendment(s) and the Department's Objections, Recommendations, and Comments Report, are available for public inspection Monday through Friday, except for legal holidays, during normal business hours, at the City Clerk's Office, City Hall, 2 South Orlando Avenue, Cocoa Beach, Florida 32931.

Any affected person, as defined in Section 163.3184, F.S., has a right to petition for an administrative hearing to challenge the proposed agency determination that the amendment(s) to the City of Cocoa Beach Comprehensive Plan are in compliance, as defined in Subsection 163.3184(1), F.S. The petition must be filed within twenty-one (21) days after publication of this notice, and must include all of the information and contents described in Rule 9J-11.012(8), F.A.C. The petition shall be filed with the Agency Clerk, Department of Community Affairs, 2740 Centerview Drive, Tallahassee, Florida 32399-2100. Failure to timely file a petition shall constitute a waiver of any right to request an administrative proceeding as a petitioner under Section 120.57, F.S. If a petition is filed, the purpose of the administrative hearing will be to present evidence and testimony and forward a recommended order to the Department. If no petition is filed, this Notice of Intent shall become final agency action.

If a petition is filed, other affected persons may petition for leave to intervene in the proceeding. A petition for intervention must be filed at least five (5) days before the final hearing and must include all of the information and contents described in Rule 22I-6.010, F.A.C. A petition for leave to intervene shall be filed at the Division of Administrative Hearings, Department of Administration, 1230 Apalachee Parkway, Tallahassee, Florida 32399-1550. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such a person has to request a hearing under Section 120.57, F.S., or to participate in the administrative hearing.

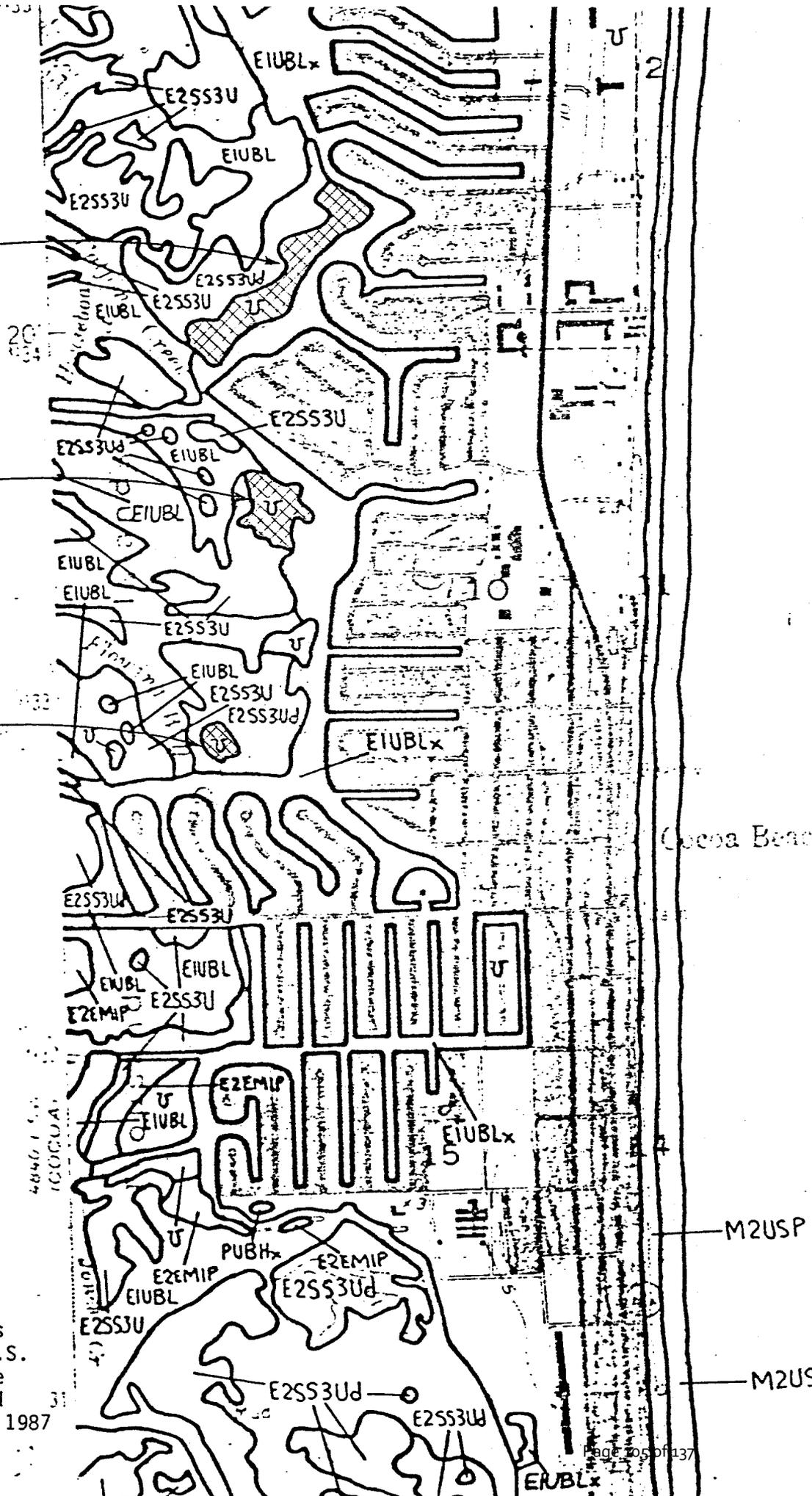
*Robert G. Nave*  
\_\_\_\_\_  
Robert G. Nave, Director  
Department of Community Affairs  
Division of Resource Planning  
and Management  
2740 Centerview Drive  
Tallahassee, Florida 32399-2100

I

Island 3  
Upland Area - 13 Acres

Island 2  
Upland Area - 10 Acres

Island 1  
Upland Area - 5.4 Acres



Source: National Wetlands  
Inventory Map, U.S.  
Department of the  
Interior, Fish and  
Wildlife Service 1987

Appendix F



Appendix K.



Tom Gardner, Executive Director

# FLORIDA DEPARTMENT OF NATURAL RESOURCES

Marjory Stoneman Douglas Building  
3900 Commonwealth Boulevard  
Tallahassee, Florida 32399

Land Acquisition Planning  
Room 953A, Mail Station #45  
904/487-1750

Lawton Chiles  
Governor  
Jim Smith  
Secretary of State  
Bob Butterworth  
Attorney General  
Gerald Lewis  
State Comptroller  
Tom Gallagher  
State Treasurer  
Bob Crawford  
Commissioner of Agriculture  
Betty Castor  
Commissioner of Education

April 3, 1991

Office of Natural Resource Management  
Brevard County  
2725 St. Johns Street  
Building B, Suite 232  
Melbourne, Florida 32940

RE: Thousand Islands South, #910131-05-3  
Tico Scrub and Swamp, #910131-05-2

Dear Sirs:

On March 27, 1991, the Land Acquisition Advisory Council (LAAC) met to determine which of the projects nominated this year would be subject to a full review and evaluation. I regret to inform you that these projects did not receive the necessary support and will not be further considered during this evaluation and selection cycle.

We will retain the files as part of our records for future reference. There is a possibility that the Advisory Council may consider the projects in subsequent years if the files are updated and reactivated upon written request. If you are interested in reapplying for the program or submitting a new proposal, please contact our office before January 31, 1992. For further information please call 904/487-1750.

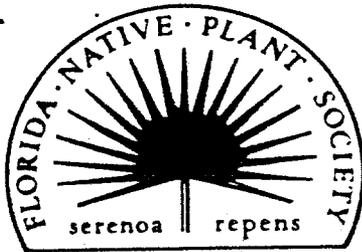
On behalf of the Advisory Council and our office, I want to thank you for the time and effort you have invested in Florida's natural areas programs.

Sincerely,

O. Greg Brock, Ph.D.  
Environmental Administrator  
Land Acquisition Planning

OGB/drck

*Appendix L*



# FLORIDA NATIVE PLANT SOCIETY

---

P.O. Box 680008, Orlando, FL 32868 • 407/299-1472

Please reply to:  
Margaret Hames  
667 Acacia Ave.  
Melbourne Village, Fl. 32904

To: Astrid Stennis, City of Cocoa Beach, Fl.

From: Margaret Hames, Conservation Chair *MH*

Subject: Vegetative Inventory Thousand Islands

Date: August 10, 1993

A casual inspection of three proposed spoil sites on the Thousand Islands Cocoa Beach, Fl. was conducted on August 6, 1993. The purpose of this visit was to generate vegetative inventories of these sites.

All sites are highly disturbed areas on three separate islands, having been previously despoiled. The elevations are above grade. One site (Site 2) is well vegetated, mostly with invasive exotic species, while the other two (Site 1, Site 3) are essentially open space with sparse tree and shrub species.

No rare, endangered or threatened plant or animal species were observed on the spoil sites. Access to the spoil sites should be carefully designed to prevent damage to the greatly stressed mangrove fringe forest.

The environmental sensitivity of the Indian River Lagoon system is well recognized. Because of this sensitivity, the City's plan to enclose each deposit site with a berm to prevent erosion into the river is commendable. Other worth-while steps planned by the City are:

1. Location of access for pipes and heavy machinery to avoid existing mangroves
2. Location of spoil to protect a well shaped cedar
3. Removal of invasive exotic species, i.e. Brazilian pepper, Australian pine and carrotwood.

### Suggestions

It is suggested that after each spoiling is completed, mangroves be planted at each access point.

Brazilian pepper be carefully removed from the mangrove fringe forests ON THE ENTIRE ISLAND SYSTEM and that mangroves be restored in this natural community.

# VEGETATIVE INVENTORY

## SITE # 1

Site # 1 is the southern most spoil site. This 5.4 acre area remains essentially bare with few woody or herbaceous species present. There is little vegetation since the last spoil deposit. The dominant species present is Florida privet (*Forestiera segregata*) occurring here in scrub form. Especially disturbing is the presence of carrotwood (*Cupaniopsis anacardioides*), an invasive exotic pest plant species.

### CHECKLIST OF FLORAL TAXA

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
<i>Baccharis halimifolia</i>	Saltbush
<i>Catharanthus roseus</i>	Madagascar periwinkle
<i>Cupaniopsis anacardioides</i>	Carrotwood
<i>Ficus aurea</i>	Strangler fig
<i>Forestiera segregata</i>	Florida privet
<i>Lantana camara</i>	Shrub verbena
<i>Cenothera humifusa</i>	Seaside evening primrose
<i>Myrica cerifera</i>	Wax myrtle

No wildlife was observed although this open bare area could provide nesting sites for terns.

## VEGETATIVE INVENTORY

### SITE # 2

Site # 2 is the central spoil site. This 10 acre area is well covered with invasive exotic pest plant tree species. Brazilian pepper (*Schinus terebinthifolius*) and Australian pine (*Casuarina equisetifolia*) are dominant. Late-flowering thoroughwort (*Eupatorium serotinum*) and sea lavender (*Limonium carolinianum*) are present as groundcover. White mangrove (*Laguncularia racemosa*) and black mangrove (*Avicennia germinans*) as well as the mangrove associate buttonwood (*Conocarpus erectus*) are present at or near the access point.

### CHECKLIST OF FLORAL TAXA

SCIENTIFIC NAME	COMMON NAME
<i>Baccharis helimifolia</i>	Saltbush
<i>Batis maritima</i>	Saltwort
<i>Casuarina equisetifolia</i>	Australian pine
<i>Conocarpus erectus</i>	Buttonwood
<i>Croton punctatus</i>	Beach croton
<i>Eupatorium serotinum</i>	Late-flowering thoroughwort
<i>Heliotropium curassavicum</i>	Seaside heliotrope
<i>Lantana camara</i>	Shrub verbena
<i>Limonium carolinianum</i>	Sea lavender
<i>Oenothera humifusa</i>	Seaside evening primrose
<i>Fluclea</i> sp.	Fleabane
<i>Polypremum procumbens</i>	Rustweed
<i>Salicornia bigelowii</i>	Annual glasswort
<i>Schinus terebinthifolius</i>	Brazilian pepper
<i>Scoparia dulcis</i>	Goat-weed

Crows and rabbit droppings were observed on site.

# VEGETATIVE INVENTORY

## SITE # 3

Site # 3 is the northern site. This 13 acre area is mostly bare with a well shaped young southern red cedar (*Juniperus silicicola*) on the edge. Since it may be years before this site is used, it would be wise to inventory the landscape prior to spoiling. Plant and animal species could move into the area during this time period.

### CHECKLIST OF FLORAL TAXA

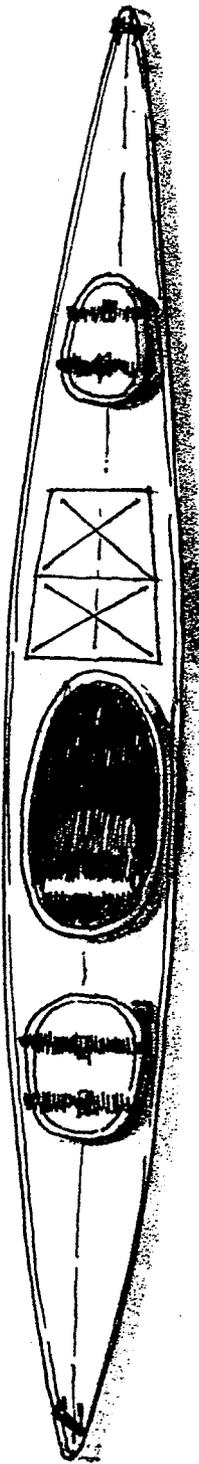
SCIENTIFIC NAME	COMMON NAME
<i>Batis maritima</i>	Saltwort
<i>Casuarina equisetifolia</i>	Australian pine
<i>Conocarpus erectus</i>	Button wood
<i>Juniperus silicicola</i>	Southern red cedar
<i>Limnium carolinianum</i>	Sea lavender

No wildlife was observed on site.

*Appendix M.*

# FLOP

14 OCT 94



Ms Pat Englehart  
City Commissioner  
City of Cocoa Beach

Dear Commissioner Englehart,

Please accept this letter as a formal commitment from the FLOP kayak club of Cocoa Beach to lend assistance in a program to control and remove exotic plant species from the Thousand Islands within the City of Cocoa Beach. Our group has a strong interest in environmental concerns and has rendered assistance similar to your needs to the Everglades Outward Bound School in Everglades City Florida.

FLOP is a very loosely organized hierarchy, as such we offer two points of contact:

Mr. Frank Martin  
465 Blakey Drive  
Cocoa Beach  
(h) 783-1664  
(w) 799-6854

Mr. David Keller  
960 South Orlando  
Cocoa Beach  
(h) 784-1013  
(w) 453-0212

Thank you for this opportunity.

Sincerely,  
David Keller

# ROOSEVELT RELEAF CLUB

October 24, 1994

Dear Commissioner Englehart:

The Roosevelt Releaf Club would be very glad to assist in any exotic control and/or removal project the City decides to undertake. We would be especially interested in helping to work on the shoreline bordering our campus or on one of the neighboring islands.



Bill Hausmann  
Releaf Club Sponsor

# Appendix K



FLORIDA DEPARTMENT OF STATE

Jim Smith  
Secretary of State

DIVISION OF HISTORICAL RESOURCES

R.A. Gray Building  
500 South Bronough

Tallahassee, Florida 32399-0250

Director's Office

Telecopier Number (FAX)

(904) 488-1480

(904) 488-3353

October 5, 1994

Mr. Raj Verma  
City of Cocoa Beach  
Public Works Department  
1600 West Minuteman Causeway  
Cocoa Beach, FL 32931

In Reply Refer To:  
Susan M. Herring  
Historic Preservation  
Planner  
(904) 487-2333  
Project File No. 943315

RE: Request for Land Management Plan Information  
Thousand Islands, Brevard County, Florida

Dear Mr. Verma:

In accordance with this agency's responsibilities under Section 253.034(4), Florida Statutes, we have reviewed the information in the Florida Site File to determine whether any historic properties are recorded in the referenced management area, and also to determine the potential for such resources which are presently unrecorded to be located within it.

Our review indicates that no archaeological sites or historic buildings are recorded in the subject tract. Furthermore, it is the opinion of this agency that there is a low probability of significant, unrecorded sites being located in this tract.

Fortuitous finds may occur within this parcel and our agency should be immediately notified if archaeological or historic remains are encountered. Ground disturbing activities in the immediate vicinity of artifact finds should also be halted until the area can be investigated. However, historic property considerations will otherwise not be an issue in the management of this property.

We have enclosed for your use a copy of *Management Procedures for Archaeological and Historic Sites and Properties on State-Owned or Controlled Lands*. This document should be referenced where appropriate in your land management plan, and attached to it.

Mr. Verma  
October 5, 1994  
Page 2

If you have any questions concerning our comments, please do not hesitate to contact us. Your interest in protecting Florida's archaeological and historic resources is appreciated.

Sincerely,

*for* *Laura R. Kammerer*  
George W. Percy, Director  
Division of Historical Resources

GWP/Hsh  
Enclosure (1)  
cc: Dawn Griffin, DNR

MANAGEMENT PROCEDURES FOR  
ARCHAEOLOGICAL AND HISTORICAL SITES AND PROPERTIES  
ON STATE - OWNED OR CONTROLLED LANDS  
(revised April, 1989)

A. GENERAL DISCUSSION

Archaeological and historic sites, which are defined collectively in 267.021(3), F.S., as "historic properties" or "historic resources", have several essential characteristics which must be recognized in a management program.

First of all, they are a finite and non-renewable resource. Once destroyed, presently existing resources, including buildings, other structures, shipwreck remains, archaeological sites and other objects of antiquity, cannot be renewed or revived. Today, sites in the State of Florida are being destroyed by all kinds of land development, looting by "treasure hunters," erosion and to a minor extent even by well-intentioned professional scientific research (e.g., archaeological excavation). Measures must be taken to ensure that some of these resources will be preserved for future study and appreciation.

Secondly, sites are unique because individually they represent the tangible remains of events which occurred at a specific time and place.

Thirdly, while sites uniquely reflect localized events, these events and the origin of particular sites are related to conditions and events in other times and places. Sites can be understood properly only in relation to their natural surroundings and the activities of inhabitants of other sites. Managers must be aware of this "systemic" character of historic and archaeological sites. Also, it should be recognized that archaeological sites are time capsules for more than cultural history; they preserve traces of past biotic communities, climate, and other elements of the environment that may be of interest to other scientific disciplines.

Finally, the significance of sites, particularly archaeological ones, are very fragile because their significance derives not only from the individual artifacts within them, but equally from the spatial arrangement of those artifacts in both horizontal and vertical planes. When archaeologists excavate, they recover, not merely objects, but also a record of the positions of these objects in relation to one another and their containing matrix (e.g., soil strata). Much information is sacrificed if the so-called "context" of archaeological objects is destroyed or not recovered, and this is what archaeologists are most concerned about when a site is threatened with destruction or damage; the artifacts themselves can be recovered even after a site is heavily disturbed, but the context - the vertical and horizontal relationships - cannot. Historic

structures also contain a wealth of cultural (socio-economic) data which can be lost if historically sensitive maintenance, restoration or rehabilitation procedures are not implemented, or if they are demolished or extensively altered without appropriate documentation. Lastly, it should not be forgotten that historic structures often have associated potentially significant historic archaeological features which must be considered in land management decisions.

B. STATUTORY AUTHORITY

Chapter 253, Florida Statutes ("State Lands") directs the preparation of "single-use" or "multiple-use" land management plans for all state-owned lands and state-owned sovereignty submerged lands. In this document, 253.034(4), F.S., specifically requires that "all management plans, whether for single-use or multiple-use properties, shall specifically describe how the managing agency plans to identify, locate, protect and preserve, or otherwise use fragile non-renewable resources, such as archaeological and historic sites, as well as other fragile resources..."

Chapter 267, Florida Statutes is the primary historic preservation authority of the state. Responsibilities of the Division of Historical Resources in the Department of State pursuant to 267.061(3), F.S., include the following:

1. Cooperate with federal and state agencies, local governments, and private organizations and individuals to direct and conduct a comprehensive statewide survey of historic resources and to maintain an inventory of such responses.
2. Develop a comprehensive statewide historic preservation plan.
3. Identify and nominate eligible properties to the National Register of Historic Places and otherwise administer applications for listing properties in the National Register.
4. Cooperate with federal and state agencies, local governments, and organizations and individuals to ensure that historic resources are taken into consideration at all levels of planning and development.
5. Advise and assist, as appropriate, federal and state agencies and local governments in carrying out their historic preservation responsibilities and programs.
6. Carry out on behalf of the state the programs of the National Historic Preservation Act of 1966, as amended,

and to establish, maintain, and administer a state historic preservation program meeting the requirements of an approved program and fulfilling the responsibilities of state historic preservation programs as provided in subsection 101(b) of that act.

7. Take such other actions necessary or appropriate to locate acquire, protect, preserve, operate, interpret, and promote the location, acquisition, protection, preservation, operation, and interpretation of historic resources to foster an appreciation of Florida history and culture. Prior to acquisition, preservation, interpretation, or operation of a historic property by a state agency, the Division shall be provided a reasonable opportunity to review and comment on the proposed undertaking and shall determine that there exists historic authenticity and a feasible means of providing for the preservation, interpretation and operation of such property.
8. Establish professional standards for the preservation, exclusive of acquisition, of historic resources in state ownership or control.
9. Establish guidelines for state agency responsibilities under subsection (2).

Responsibilities of other state agencies of the executive branches, pursuant to 267.061(2), F.S., include:

1. Each state agency of the executive branch having direct or indirect jurisdiction over a proposed state or state-assisted undertaking shall, in accordance with state policy and prior to the approval of expenditure of any state funds on the undertaking, consider the effect of the undertaking on any historic property that is included in, or eligible for inclusion in, the National Register of Historic Places. Each such agency shall afford the Division a reasonable opportunity to comment with regard to such an undertaking.
2. Each state agency of the executive branch shall initiate measures in consultation with the Division to assure that where, as a result of state action or assistance carried out by such agency, a historic property is to be demolished or substantially altered in a way which adversely affects the character, form, integrity or other qualities which contribute to the historical, architectural, or archaeological value of the property, timely steps are taken to determine that no feasible and prudent alternative to the proposed demolition or alteration exists, and, where no such alternative is determined to exist, to assure that timely steps are taken either to avoid or mitigate the

adverse effects, or to undertake an appropriate archaeological salvage excavation or other recovery action to document the property as it existed prior to demolition or alteration.

3. In consultation with the Division of Historical Resources, each state agency of the executive branch shall establish a program to locate, inventory, and evaluate all historic properties under the agency's ownership or control that appear to qualify for the National Register. Each such agency shall exercise caution to assure that any such historic property is not inadvertently transferred, sold, demolished, substantially altered, or allowed to deteriorate significantly.
4. Each state agency of the executive branch shall assume responsibility for the preservation of historic resources which are owned or controlled by such agency. Prior to acquiring, constructing, or leasing buildings for the purpose of carrying out agency responsibilities, the agency shall use, to the maximum extent feasible, historic properties available to the agency. Each agency shall undertake, consistent with preservation of such properties, the mission of the agency, and the professional standards established pursuant to paragraph (3)(k), any preservation actions necessary to carry out the intent of this paragraph.
5. Consistent with the agency's mission and authority, all state agencies of the executive branch shall carry out agency programs and projects, including those under which any state assistance is provided, in a manner which is generally sensitive to the preservation of historic properties and give consideration to programs and projects which will further the purposes of this section. Section 267.12 authorizes the Division to establish procedures for the granting of research permits for archaeological and historic site survey or excavation on state-owned or controlled lands, while Section 267.13 establishes penalties for the conduct of such work without first obtaining written permission from the Division of Historical Resources. The Rules of the Department of State, Division of Historical Resources, for research permits for archaeological sites of significance are contained in Chapter 1A-32, F.A.C.

C. MANAGEMENT POLICY

The choice of a management policy for archaeological and historic sites within state-owned or controlled lands obviously depends upon a detailed evaluation of the characteristics and conditions of the individual sites and groups of sites within

those tracts. This includes an interpretation of the significance (or potential significance) of these sites, in terms of social and political factors, as well as environmental factors. Furthermore, for historic structures architectural significance must be considered.

Sites on privately owned lands are especially vulnerable to destruction, since often times the economic incentives for preservation are low compared to other uses of the land areas involved. Hence, sites in public ownership have a magnified importance, since they are the ones with the best chance of survival over the long run. This is particularly true of sites which are state-owned or controlled, where the basis of management is to provide for land uses that are minimally destructive of resource values.

It should be noted that while many archaeological and historical sites are already recorded within state-owned or controlled-lands, the majority of the uplands areas and nearly all of the inundated areas have not been surveyed to locate and assess the significance of such resources. The known sites are, thus, only an incomplete sample of the actual resources - i.e., the number, density, distribution, age, character and condition of archaeological and historic sites - on these tracts. Unfortunately, the lack of specific knowledge of the actual resources prevents formulation of any sort of detailed management or use plan involving decisions about the relative historic value of individual sites. For this reason, a generalized policy of conservation is recommended until the resources have been better addressed.

The generalized management policy recommended by the Division of Historical Resources includes the following:

1. State land managers shall coordinate all planned activities involving known archaeological or historic sites or potential site areas closely with the Division of Historical Resources in order to prevent any kind of disturbance to significant archaeological or historic sites that may exist on the tract. Under 267.061(1)(b), F.S., the Division of Historical Resources is vested with title to archaeological and historic resources abandoned on state lands and is responsible for administration and protection of such resources. Furthermore, provisions of 267.061(2) and 267.13, F.S., combined with those in 267.061(3) and 253.034(4), F.S., require that other managing (or permitting) agencies coordinate their plans with the Division of Historical Resources at a sufficiently early stage to preclude inadvertent damage or destruction to known or potentially occurring, presently unknown archaeological and historic sites.

2. Since the actual resources are so poorly known, the potential impact of the managing agency's activities on historic archaeological sites may not be immediately apparent. Special field survey for such sites may be required to identify the potential endangerment as a result of particular management or permitting activities. The Division will perform surveys, as its resources permit, to aid the planning of other state agencies in their management activities, but may upon occasion require funding support. This would be especially necessary in the cases of activities contemplating ground disturbance over large areas and unexpected occurrences in view of the purpose of the state-owned or controlled lands. It should be noted, however, that in most instances Division staff's knowledge of known and expected site distribution is such that actual field surveys may not be necessary, and the project may be reviewed by submitting a project location map (preferably a 7.5 minute U.S.G.S. Quadrangle map or portion thereof) and project descriptive data. To avoid delays, Division staff should be contacted to discuss specific project documentation review needs.
3. In the case of known significant sites, which may be affected by proposed project activities, the managing agency will generally be expected to alter proposed management or development plans, as necessary, or else make special provisions to minimize or mitigate damage to such sites.
4. If in the course of management activities, or as a result of development or the permitting of dredge activities, it is determined that valuable historic or archaeological sites will be damaged or destroyed, the Division reserves the right, pursuant to 267.061(1)(b), F.S., to require salvage measures to mitigate the destructive impact of such activities to such sites. Such salvage measures would be accomplished before the Division would grant permission for destruction of the effected site areas; and, the funding needed to implement salvage measures would be the responsibility of the managing agency planning the site destructive activity.
5. For the near future, excavation of non-endangered (i.e., sites not being lost to erosion or development) archaeological sites is discouraged. There are many endangered sites in Florida (on both private and public lands) in need of excavation because of the threat of development or other factors. Those within state-owned or controlled lands should be left undisturbed for the present - with particular attention devoted to preventing site looting by "treasure hunters". On the

other hand, the archaeological and historic survey of these tracts is encouraged in order to build an inventory of the resources present, and to assess their scientific research potential and historic or architectural significance.

6. The cooperation of land managers in reporting sites to the Division that their field personnel may discover is encouraged. The Division will help inform field personnel from other resource managing agencies about the characteristics and appearance of sites. Upon request the Division will also provide to other agencies archaeological and historical summaries of the known and potentially occurring resources so that information may be incorporated into management plans and public awareness programs (See Management Implementation).
7. Any discovery of instances of looting or unauthorized destruction of sites must be reported to the agent for the Board of Trustees of the Internal Improvement Trust Fund and the Division so that appropriate action may be initiated. Any state agent with law enforcement authority observing individuals or groups clearly and incontrovertibly vandalizing, looting or destroying archaeological or historic sites within state-owned or controlled lands without demonstrable permission from the Division will make arrests and detain those individuals or groups under the provisions of 267.13, 901.15, and 901.21, F.S., and related statutory authority pertaining to such illegal activities on state-owned or controlled lands. County Sheriffs' officers are urged to assist in efforts to stop and/or prevent site looting and destruction.

In addition to the above management policy for archaeological and historic sites on state-owned land, special attention shall be given to those properties listed in the National Register of Historic Places and other significant buildings. The Division recommends that the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings be followed for such sites.

The following general standards apply to all treatments undertaken on historically significant properties.

1. Every reasonable effort shall be made to provide a compatible use for a property that requires minimal alteration of the building, structure, or site and its environment, or to use a property for its originally intended purpose.
2. The distinguishing original qualities or character of building, structure, or site and its environment shall

not be destroyed. The removal or alteration of any historic material or distinctive architectural features should be avoided when possible, and should not be undertaken without advance consultation with the Division.

3. All buildings, structures, and sites shall be recognized as products of their own time. Alterations which have no historical basis and which seek to create an earlier appearance shall be discouraged.
4. Changes which may have taken place in the course of time are evidence of the history and development of a building, structure, or site and its environment. These changes may have acquired significance in their own right, and this significance shall be recognized and respected.
5. Distinctive stylistic features or examples of skilled craftsmanship which characterize a building, structure, or site shall be treated with sensitivity.
6. Deteriorated architectural features shall be repaired rather than replaced, whenever possible. In the event replacement is necessary, the new material should be compatible with the remaining structure in terms of composition, design, color, texture, and other visual qualities. Repair or replacement of missing architectural features should be based on accurate duplication of features, substantiated by historical, physical, or pictorial evidence rather than on conjectural designs or the availability of different architectural elements from other buildings or structures.
7. The surface cleaning of structures shall be undertaken with the gentlest means possible. Sandblasting and other cleaning methods that will damage the historic building materials shall not be undertaken.
8. Every reasonable effort shall be made to protect and preserve archaeological resources, both prehistoric and historic, affected by, or adjacent to, any project.
9. Contemporary design for alterations and additions to existing properties is permissible when such alterations and additions do not destroy significant historical, architectural or other cultural material, and when such design is compatible with the size, scale, color, material, and character of the property or environment.
10. Whenever possible, new additions or alterations to structures shall be done in such a manner that if such

additions or alterations were to be removed in the future, the essential form and integrity of the original structure would be unimpaired (see Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings).

Division of Historical Resources staff are available for technical assistance for any of the above listed topics. It is encouraged that such assistance be sought as early as possible in the project planning.

#### D. MANAGEMENT IMPLEMENTATION

As noted earlier, 253.034(4), F.S., states that "all management plans, whether for single-use or multiple-use properties, shall specifically describe how the managing agency plans to identify, locate, protect and preserve, or otherwise use fragile non-renewable resources, such as archaeological and historic sites..." The following guidelines should help to fulfill that requirement.

1. All land managing agencies should contact the Division and send U.S.G.S. 7.5 minute quadrangle maps outlining the boundaries of their various properties.
2. The Division will in turn identify site locations on those maps and provide descriptions for known archaeological and historical sites to the managing agency.
3. Further, the Division will also will identify on the maps areas of high archaeological and historic site location probability within the subject tract.
4. The Division will send archaeological field recording forms and historic structure field recording forms to representatives of the agency to facilitate the recording of information on such resources.
5. Land managers will update information on recorded sites.
6. Land managers will supply the Division with new information as it becomes available on previously unrecorded sites that their staff locate. The following details the kind of information the Division wishes to obtain for any new sites or structures which the land managers may report:

##### A. Historic Sites

- (1) Type of structure (dwelling, church, factory, etc.).

- (2) Known or estimated age or construction date for each structure and addition.
- (3) Location of building (identify location on a map of the property, and building placement, i.e., detached, row, etc.).
- (4) General Characteristics: (include photographs if possible) overall shape of plan (rectangle, "L" "T" "H" "U", etc.); number of stories; number of vertical divisions of bays; construction materials (brick, frame, stone, etc.); wall finish (kind of bond, coursing, shingle, etc.); roof shape.
- (5) Specific features including location, number and appearance of:
  - (a) Important decorative elements;
  - (b) Interior features contributing to the character of the building;
  - (c) Number, type, and location of outbuildings, as well as date(s) of construction;
  - (d) Notation if property has been moved;
  - (e) Notation of known alterations to building.

B. Archaeological Sites

- (1) Site location (written narrative and mapped location).
  - (2) Cultural affiliation and period.
  - (3) Site type (midden, burial mound, artifact scatter, building rubble, etc.).
  - (4) Threats to site (deterioration, vandalism, etc.).
  - (5) Site size (acreage, square meters, etc.).
  - (6) Artifacts observed on ground surface (pottery, bone, glass, etc.).
  - (7) Description of surrounding environment.
7. No land disturbing activities should be undertaken in areas of known archaeological or historic sites or areas of high site probability without prior

review by the Division early in the project planning.

8. Ground disturbing activities may proceed elsewhere but land managers should stop disturbance in the immediate vicinity of artifact finds and notify the Division if previously unknown archaeological or historic remains are uncovered. The provisions of Chapter 872, F.S., must be followed when human remains are encountered.
9. Excavation and collection of archaeological and historic sites on state lands without a permit from the Division is a violation of state law and shall be reported to a law enforcement officer. The use of metal detectors shall be prohibited on state lands except when authorized in a 1A-32, F.A.C., research permit from the Division.
10. Interpretation and visitation which will increase public understanding and enjoyment of archaeological and historic sites without site destruction or vandalism is strongly encouraged.
11. Development of interpretive programs including trails, signage, kiosks, and exhibits is encouraged and should be coordinated with the Division.
12. Artifacts found or collected on state lands are by law the property of the Division. Land managers shall contact the Division whenever such material is found so that arrangements may be made for recording and conservation. This material, if taken to Tallahassee, can be returned for public display on a long term loan.

E. ADMINISTERING AGENCY

Questions relating to the treatment of archaeological and historic resources on state lands may be directed to:

Compliance Review Section  
Bureau of Historic Preservation  
Division of Historical Resources  
R.A. Gray Building  
500 South Bronough Street  
Tallahassee, Florida 32399-0250

Contact Person: Susan M. Herring  
Historic Preservation Planner

Telephone (904) 487-2333  
Suncom 277-2333  
FAX (904) 488-3353

Appendix D

State of Florida



Department of Natural Resources

Memorandum

DATE: 14 July 1992

TO: Catherine Daniels, Planning Manager  
Bureau of Land Management Services  
Division of State Lands

FROM: Brian Poole *B* Environmental Specialist II  
Bureau of Submerged Lands and Preserves  
Division of State Lands

SUBJECT: Spoil Island, Thousand Islands, Cocoa Beach



On 7 July 1992 our office, in conjunction with Florida Game and Fresh Water Fish Commission staff, made an on-site visit to the subject site. The following are our comments:

1. We found the site to be as described in Ms. Mary Ann Poole's letter to you dated 8 July 1992. It appears that, on the island itself, no listed species will be affected by the spoil operation.
2. It is our understanding that the submerged lands within the Thousand Islands is state-owned but not within the Banana River Aquatic Preserve. We would like a determination as to whether or not this submerged land is within the preserve. If it is not, every effort should be made to incorporate these state-owned lands, including the state-owned uplands, within the preserve.
3. This office was not aware that any of the land within the Thousand Islands was in public ownership. Our office was not notified when the purchase was made, nor were we notified or comments requested when the land was leased to the city of Cocoa Beach.
4. From talking with officials of Cocoa Beach, it is our understanding that this site will be used as a spoil site for the maintenance dredging of 16 miles of channels that the city of Cocoa Beach maintains.
5. Since we have no application or engineering drawings to review, we can not at this time offer a recommendation as to whether or not this island could be allowed to be spoiled upon.
6. Since the lease requires the city of Cocoa Beach to submit a management plan for the entire area, by August 1992, it may be prudent to defer comments until an understanding of how

14 July 1992  
Catherine Daniels  
Page 2

the city plans to manage the entire area is better known. I suggest our office be asked to review such a management plan before it is accepted by the Department/Trustees.

Thank you for the opportunity to comment on this proposed project.

If you have any questions, please let me know.

cc: Wilbert Holliday  
Bill Torres

FLORIDA GAME AND FRESH WATER FISH COMMISSION

DON WRIGHT  
Orlando

QUINTON L. HEDGEPEETH, DDS  
Miami

MRS. GILBERT W. HUMPHREY  
Miccosukee

JOE MARLIN HILLIARD  
Clewiston

BEN ROWE  
Gainesville

ROBERT M. BRANTLY, Executive Director  
ALLAN L. EGBERT, Ph. D., Assistant Executive Director



110 43rd Avenue, S.W.  
Vero Beach, Florida 32968  
July 8, 1992

Ms. Catherine Daniels  
Bureau of Land Management Services  
Division of State Lands  
Florida Department of Natural Resources  
3900 Commonwealth Boulevard  
Tallahassee, Florida 32399-3000

RE: Spoil Island, Thousand Islands,  
Cocoa Beach, Brevard County

Dear Ms. Daniels:

Per your telephone request, I have visited the referenced proposed spoil site for maintenance dredging of a canal in the Banana River. The site, which appears to have been used as a spoil site in the past, was heavily overgrown with saltbush (*Baccharis halimifolia*) and an unidentified weedy annual that formed a dense thicket over five feet tall; it had almost no bare, open areas and therefore did not provide suitable habitat for nesting shorebirds. In addition, I did not observe any wading bird or osprey nests in the trees (primarily Australian pines, Brazilian peppers, and fringing mangroves) ringing this area, although they were present in trees on nearby islands.

Thank you for the opportunity to comment on this project, and please do not hesitate to call if you have any further questions.

Sincerely,

*Mary Ann Poole*

Mary Ann Poole  
Biological Scientist III

ENV 2-5  
MAP/map  
CC: Brian Poole, FDNR, Melbourne



June 15, 1995

Mr. Hank Vinson, LMAC Staff  
Department of Environmental Protection  
Bureau of Land Management Services  
Marjory Stoneman Douglas Bldg.  
3900 Commonwealth Boulevard  
Tallahassee, FL 32399-3000

Dear Mr. Vinson:

This letter responds to your communication dated May 25, 1995, and your phone conversation with Mr. John Wavra on June 1, 1995 regarding the historical resources, and the status of the mosquito control ditches on the Thousand Islands before the State approves our Plan.

At a regular meeting of the City Commission on June 15, 1995, they approved the following:

**Cultural Resources** - for insertion on page 5 of 11 (b. Cultural Resources)

"Proposed Actions: Although there are no recorded sites on the property, the City of Cocoa Beach will immediately notify the Division of Historical Resources should any fortuitous finds occur."

**Mosquito Control Ditches** - page 2 of 11, in Section L, Proposed Single Use and page 7 of 11, under B, Needs and Problems:

The mosquito control ditches within the Thousand Islands are manmade, shallow, and cut into the Islands for the purpose of providing a habitat for mosquitos. With the geographical location of the Islands, separated from the populated areas by canals, these wetlands are ideal for the control of the mosquito population.

These mosquito control ditches are on all of the wetland islands, with lengths totaling several miles and require no maintenance. With the proximity of these mosquito control ditches within the wetlands, and with the heavy vegetation, they do not silt in like the navigable canals within the City.

The location of these mosquito control ditches relative to the resident populated areas, do not create a public nuisance, in fact, they are very effective in the control of mosquitos, as well as being an integral part of the ecosystem.

Therefore, the City of Cocoa Beach has elected to leave the mosquito control ditches as they are.

We thank you for allowing us the opportunity to readdress these items.

Sincerely,

Mark S. Eckert  
City Manager

MSE/bah

**Contract/agreement/franchise file category ...** (State of Florida)  
**THOUSAND ISLANDS MANAGEMENT PLAN**

**City Administrator:** City Manager/Brenda

**Contract Administrator** N/A

Contact name: N/A

Address: N/A

Phone No. ( )

Fax No. ( )

E-mail Address:

**Parties:** 1) City of Cocoa Beach  
2) State of Florida

**Dates:** Effective- 10/1/1994 Expiration- None

Other: Plan is to be reviewed by the City and the State at least every 5 years.

**Description:** The Plan was prepared and adopted by the City Commission in October 1994, per the requirements of the Lease with the State of Florida. Paragraph 8 of the Lease agreement dated 10/1/1991, due to the lessor by 10/1/1992 for preparing and developing the leased premises as public lands. The plan shall be reviewed jointly by the lessee and lessor at least every five (5) years.

**Insurance:** (updated insurance certificate required for file to include effective and expiration date)

Policy#: N/A

Effective:

Expires:

**Other:**