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IMPROVING COMMUNITIES. CREATING ENVIRONMENTS.

**MSA**  
Miller, Smith & Associates, Inc.

April 1, 2009  
09-00063



**Park and Recreation**  
 275 NW 2nd Street  
 Miami, Florida 33128  
 T 305-755-7800

miamidade.gov

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- Communications
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- Housing Finance Authority
- Human Services
- Independent Review Panel
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- Juvenile Assessment Center
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- Metropolitan Planning Organization
- Park and Recreation**
- Planning and Zoning
- Police
- Procurement Management
- Property Appraiser
- Public Library System
- Public Works
- Safe Neighborhood Parks
- Seaport
- Solid Waste Management
- Strategic Business Management
- Team Metro
- Transit
- Urban Revitalization Task Force
- Vizcaya Museum and Gardens

March 30, 2009

David Weeks, AICP, Planning Manager  
 Collier County Government  
 Community Development & Environmental Services Division (CDES)  
 Comprehensive Planning Department  
 2800 North Horseshoe Drive  
 Naples, FL 34104

RE: Dade-Collier Cypress Recreation Area

Dear Mr. Weeks:

Please find attached an application to amend Collier County Growth Management Plan to permit the creation of the Dade-Collier Cypress Recreation Area. Through a partnership involving State, County and Federal interests, we submit this application for review and approval. It is our hope that the product of this application is a recreational area capable of improving natural resource values, providing compatible outdoor recreational use and improving stewardship practices on lands now subject to uncertain management.

Pursuant to the application, James McCall, Park Planner, is listed as our agent. You are asked to communicate all correspondence through Mr. McCall and he will facilitate its resolution with our consultants at Milian, Swain Associates and Miller-Legg.

Should Collier County staff need additional information from this office, please feel free to call me at 305-755-7903.

Sincerely,

  
 Jack Kardys  
 Director

Attachments

Cc: W. Howard Gregg, Deputy Director  
 Gregg Owens, Aviation  
 Kevin Asher, MDPRD  
 James "Andy" McCall, MDPRD  
 Julio Menache, Milian, Swain  
 Jill Cohen, Miller-Legg

*Delivering Excellence Every Day*

**APPLICATION FOR A REQUEST TO AMEND  
THE COLLIER COUNTY GROWTH MANAGEMENT PLAN  
FOR THE DADE-COLLIER CYPRESS RECREATION AREA SUB-DISTRICT**

PETITION NUMBER \_\_\_\_\_ DATE RECEIVED \_\_\_\_\_  
PRE-APPLICATION CONFERENCE DATE \_\_\_\_\_  
DATE SUFFICIENT \_\_\_\_\_  
PLANNER ASSIGNED: \_\_\_\_\_  
COMMISSION DISTRICT: \_\_\_\_\_

**(ABOVE TO BE COMPLETED BY STAFF)**

This application, with all required supplemental data and information, must be completed and accompanied by the appropriate fee, and returned to the Comprehensive Planning Section, 2800 North Horseshoe Drive, Naples, Florida 34104. Phone: (239) 252-2400; Fax: (239) 252-2946.

The application must be reviewed by staff for sufficiency within 30 calendar days following the filing deadline before it will be processed and advertised for public hearing. The applicant will be notified, in writing, of the sufficiency determination. If insufficient, the applicant will have 30 days to remedy the deficiencies. For additional information on the processing of the application, see Resolution 97-431 (attached). If you have any questions, please contact the Comprehensive Planning Section at 239-252-2400.

**SUBMISSION REQUIREMENTS**

**I. GENERAL INFORMATION**

A. Name of Applicant Miami-Dade County  
Company Park and Recreation Department  
Mailing Address 275 NW 2<sup>nd</sup> Street, 4<sup>th</sup> Floor  
City Miami State Florida Zip Code 33157  
Phone Number 305-775-7993 E-Mail jamccal@miamidade.gov

B. Name of Agent James A. (Andy) McCall  
• THIS WILL BE THE PERSON CONTACTED FOR ALL BUSINESS RELATED TO THE PETITION.  
Company/Firm Miami-Dade County Park and Recreation  
Mailing Address 275 NW 2<sup>nd</sup> Street, 4<sup>th</sup> Floor  
City Miami State FL Zip Code 33128  
Phone Number 305-775-7993 E-Mail jamccal@miamidade.gov

C. Name of Owner (s) of Record Miami-Dade County  
Address 111 NW 1<sup>st</sup> Street, 29<sup>th</sup> Floor  
City Miami State Florida Zip Code 33128  
Phone Number 305-755-7903 Fax Number \_\_\_\_\_

D. Name, Address and Qualifications of additional planners, architects, engineers, environmental consultants and other professionals providing information contained in this application.

Jill Cohen, AICP, RLA, LEED AP, Miller Legg, 1800 N Douglas Road, Suite 200, Pembroke Pines, FL 33024

Matt Boerger, Planner, Miller Legg, 1800 N Douglas Road, Suite 200, Pembroke Pines, FL 33024

Mark Clark , CEP, Miller Legg, 1800 N Douglas Road, Suite 200, Pembroke Pines, FL 33024

Paul Mann, C.A.

Eric Czerniejewski, P.E., Miller Legg, 1800 N Douglas Road, Suite 200, Pembroke Pines, FL 33024

Jimmy Wright, E.I., LEED AP, Miller Legg, 1800 N Douglas Road, Suite 200, Pembroke Pines, FL 33024

Julio Menache, Director of Operations, MILIAN, SWAIN & ASSOCIATES, INC., 2025 SW 32<sup>nd</sup> Avenue, Miami, FL 33145

Arsenio Millan, P.E., President, Millian, Swain & Associates, Inc., 2025 SW 32<sup>nd</sup> Avenue, Miami, FL 33145

II. **Disclosure of Interest Information:**

A. If the property is owned fee simple by an **INDIVIDUAL**, tenancy by the entirety, tenancy in common, or joint tenancy, list all parties with an ownership interest as well as the percentage of such interest. (Use additional sheets if necessary).

Name and Address	Percentage of Ownership
<u>Mayor Carlos Alvarez</u>	<u>100%</u>
<u>111 NW 1<sup>st</sup> Street</u>	_____
<u>29<sup>th</sup> Floor</u>	_____
<u>Miami, Florida 33128</u>	_____
<u>305-755-7903</u>	_____

B. If the property is owned by a **CORPORATION**, list the officers and stockholders and the percentage of stock owned by each, and provide one copy of the Articles of Incorporation, or other documentation, to verify the signer of this petition has the authority to do so.

Name and Address	Percentage of Stock
_____	_____
_____	_____
_____	_____
_____	_____

C. If the property is in the name of a **TRUSTEE**, list the beneficiaries of the trust with the percentage of interest.

Name and Address	Percentage of Interest
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

D. If the property is in the name of a **GENERAL** or **LIMITED PARTNERSHIP**, list the name of the general and/or limited partners.

Name and Address	Percentage of Ownership
_____	_____
_____	_____
_____	_____
_____	_____

E. If there is a **CONTRACT FOR PURCHASE**, with an individual or individuals, a Corporation, Trustee, or a Partnership, list the names of the contact purchasers below, including the officers, stockholders, beneficiaries, or partners, and provide one copy of the executed contract.

Name and Address	Percentage of Ownership
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

F. If any contingency clause or contract terms involve additional parties, list all individuals or officers, if a corporation, partnership, or trust.

Name and Address  
\_\_\_\_\_ N/A \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

G. Date subject property acquired (X) 1968 leased ( ): \_\_\_\_\_ Term of lease \_\_\_\_\_ yrs./mos.

If, Petitioner has option to buy, indicate date of option: \_\_\_\_\_ and date option terminates: \_\_\_\_\_, or anticipated closing: \_\_\_\_\_.

H. **NOTE:** Should any changes of ownership or changes in contracts for purchase occur subsequent to the date of application, but prior to the date of the final public hearing, it is the responsibility of the applicant, or agent on his behalf, to submit a supplemental disclosure of interest form.

**III. DESCRIPTION OF PROPERTY:**

A. LEGAL DESCRIPTION See Appendix III.A.

B. Section(s): 13, 14, 15, 16 Township: 53 South Range: 34 East

C. Tax ID Number (Folio #): 01233520000

D. General Location: Mile Marker 48, Tamiami Trail

E. Planning Community: Big Cypress F. TAZ: 347

G. Size in Acres: Approx. 1,608 H. Zoning Conservation

I. Present Future Land Use Map Designation(s) Conservation

**IV. TYPE OF REQUEST:**

**A. GROWTH MANAGEMENT PLAN ELEMENT (S) TO BE AMENDED:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Future Land Use | <input type="checkbox"/> Golden Gate Area Master Plan |
| <input type="checkbox"/> Immokalee Area Master Plan | <input type="checkbox"/> Capital Improvement          |
| <input type="checkbox"/> Transportation             | <input type="checkbox"/> Housing                      |
| <input type="checkbox"/> Coastal & Conservation     | <input type="checkbox"/> Recreation & Open Space      |
| <input type="checkbox"/> Intergovernmental Coord.   | <input type="checkbox"/> Potable Water                |
| <input type="checkbox"/> Sanitary Sewer             | <input type="checkbox"/> Solid Waste                  |
| <input type="checkbox"/> Drainage                   | <input type="checkbox"/> Natural Groundwater Aquifer  |

B. Amend Page(S) 12, 85 and 87 of the Future Land Use Element As Follows: (Use Cross throughs to identify language to be deleted; Use Underline to identify language to be added). Attach additional pages if necessary:  
See Below

**Page 12**

Policy 1.4: The CONSERVATION Future Land Use Designation shall include a Future Land Use District.

- A. CONSERVATION  
 1. DADE-COLLIER CYPRESS RECREATION AREA SUB-DISTRICT

**Page 85**

(VII)(IX) A IV. CONSERVATION DESIGNATION

**Page 87**

1. DADE-COLLIER CYPRESS RECREATION AREA SUB-DISTRICT:

The primary purpose of this Sub-district is to provide for a transition of the area south of the airport runway and north of Tamiami Trail back to a resource state that enhances the existing and intact natural resources while still retaining an appropriate level of recreational use. The secondary purpose of this Sub-district is to provide for a compatible and transitional land-use which will serve as a buffer between the existing uses of the runway to the north, the existing roadway (Tamiami Trail) to the south, and to the surrounding naturalistic areas to the west in Collier County, and to Miami-Dade County, to the east. As suggested in the name of the Sub-district, the transitional area, owned and maintained by Miami-Dade County but located wholly within Collier County and the Area of Critical State Concern/Special Treatment (ACSC/ST), will be a partnership of public entities with the same goal of providing a diversity of recreational uses, while also preserving and enhancing the existing natural resources for use by residents of both Counties and the State.

As a naturalized transitional area, this Sub-district recreation area shall permit for a diversity of recreational uses which are needed on a county, regional, state and federal level, such as: hiking and mountain bike trails, camping, temporary RV parking, bird watching, wildlife viewing, fishing, archery, a visitor's center, and off-highway vehicle (OHV) trails. All such identified uses proposed for this Sub-district are already permissible by right, with the exception of allowance for certain motorized vehicles and a visitor's center to support these same passive recreational needs. By inclusion of these two uses, this proposed Sub-district will be the highest and best resource use given the existing natural, socio-cultural conditions and permit for a recreation area and transition of existing land uses for the present and future residents, in keeping with the conservation character of the designated Big Cypress Area of Critical State Concern Overlay as defined in the Collier County Future Land Use Element.

As 'Stewards of the Land', a comprehensive management plan will subsequently be created for the identified land uses of this Sub-district providing for an environmental assessment and site plan for specified annual and seasonal uses, removal of non-compliant existing uses and trails, enhancement of compliant trails, modification of trails to passive uses in order to increase overall compatibility with existing native flora and fauna and the natural drainage. The Sub-district comprises approximately 1,608 acres, all of which is located within the Conservation District.

C. Amend Future Land Use Map(s) designation,

FROM Conservation  
District, Sub-district

TO Conservation, Dade-Collier Cypress Recreation Area  
District, Sub-district

(If new District and/or Sub-district proposed, include Future Land Use Map with legend depicting it)

D. Amend other Map(s) and Exhibits as follows: (Name & Page #)

1. Amended Future Land Use (County-wide); See Appendix IV.D.1

2. Provided Inset Map (for the District); See Appendix IV.D.2

E. Describe additional changes requested: N/A

## V. **REQUIRED INFORMATION:**

**Note: All Aerials must be at a scale of no smaller than 1" = 400'. At least one copy reduced to 8 1/2 x 11 shall be provided of all aerials and/or maps.**

### A. **LAND USE**

1. See Appendix V.A.1 Provide general location map showing surrounding developments (PUD, DRI's, existing zoning) with subject property outlined.
2. See Appendix V.A.2 Provide most recent aerial of site showing subject boundaries, source, and date.
3. See Appendix V.A.3 Provide a map and summary table of existing land use and zoning within a radius of 500 feet from boundaries of subject property.

### B. **FUTURE LAND USE AND DESIGNATION**

1. See Appendix V.B.1 Provide map of existing Future Land Use Designation(s) of subject property and adjacent lands, with acreage totals for each land use designation on the subject property.

### C. **ENVIRONMENTAL**

1. See Appendix V.C.1 Provide most recent aerial and summary table of acreage of native habitats and soils occurring on site. HABITAT IDENTIFICATION MUST BE CONSISTENT WITH THE FDOT-FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCCS CODE). NOTE: THIS MAY BE INDICATED ON SAME AERIAL AS THE LAND USE AERIAL IN "A" ABOVE.
2. See Appendix V.C.2 Provide a summary table of Federal (US Fish & Wildlife Service) and State (Florida Game & Freshwater Fish Commission) listed plant and animal species known to occur on the site and/or known to inhabit biological communities similar to the site (e.g. panther or black bear range, avian rookery, bird migratory route, etc.).
- 3a. See Appendix V.C.3a Identify historic and/or archaeological sites on the subject property. Provide a copy of County's Historical/Archeological Probability Map
- 3b. See Appendix V.C.3b Correspondence from Florida Department of State.

**D. GROWTH MANAGEMENT**

**Reference 9J-11.006, F.A.C. and Collier County's Capital Improvements Element Policy 1.1.2 (Copies attached).**

INSERT "Y" FOR YES OR "N" FOR NO IN RESPONSE TO THE FOLLOWING:

- 1.   Y   Is the proposed amendment located in an Area of Critical State Concern? (Reference 9J-11.006(1)(a)(5), F.A.C.). IF so, identify area located in ACSC. **See Appendix V.D.1**
- 2.   N   Is the proposed amendment directly related to a proposed Development of Regional Impact pursuant to Chapter 380 F.S. ? (Reference 9J-11.006(1)(a)7.a, F.A.C.)
- 3.   N   Is the proposed amendment directly related to a proposed Small Scale Development Activity pursuant to Subsection 163.3187 (1)(c), F.S. ? (Reference 9J-11.006(1)(a)7.b, F.A.C.)
- 4.   N   Does the proposed amendment create a significant impact in population which is defined as a potential increase in County-wide population by more than 5% of population projections? (Reference Capital Improvement Element Policy 1.1.2). If yes, indicate mitigation measures being proposed in conjunction with the proposed amendment.
- 5a.   Y   Does the proposed land use cause an increase in density and/or intensity to the uses permitted in a specific land use designation and district identified (commercial, industrial, etc.) or is the proposed land use a new land use designation or district? (Reference Rule 9J-5.006(5) F.A.C.). **See Appendix IV.D.1.**
- 5b.   Y   If so, provide data and analysis to support the suitability of land for the proposed use, and of environmentally sensitive land, ground water and natural resources. (Reference Rule 9J-11.007, F.A.C.) **See Appendices V.D.5b, V.D.5b.1 through V.D.5b.6**

**E. PUBLIC FACILITIES**

- 1. See Appendices Below Provide the existing Level of Service Standard (LOS) and document the impact the proposed change will have on the following public facilities:
  - a) See Appendix V.E.1a Potable Water
  - b) See Appendix V.E.1b Sanitary Sewer
  - c) See Appendix V.E.1c Arterial & Collector Roads; Name specific road and LOS
  - d) See Appendix V.E.1d Drainage
  - e) See Appendix V.E.1e Solid Waste
  - f)   N/A   Parks: Community and Regional\*

\* 2.9412 acres of regional park land/1,000 population. Proposed amendment will increase the capacity for the County, the Region and the State.

If the proposed amendment involves an increase in residential density, or an increase in intensity for commercial and/or industrial development that would cause the LOS for public facilities to fall below the adopted LOS, indicate mitigation measures being proposed in conjunction with the proposed amendment. (Reference Capital Improvement Element Objective 1 and Policies)

- 2. See Appendix V.E.2 Provide a map showing the location of existing services and public facilities that will serve the subject property (i.e. water, sewer, fire protection, police protection, schools and emergency medical services.
- 3. See Appendix V.E.3 Document proposed services and public facilities, identify provider, and describe the effect the proposed change will have on schools, fire



protection and emergency medical services.

**F. OTHER**

Identify the following areas relating to the subject property:

1. See Appendix V.E.F.1 Flood zone based on Flood Insurance Rate Map data (FIRM).
2. See Appendix V.E.F.2a and Appendix V.E.F.2b Location of wellfields and cones of influence, if applicable. (Identified on Collier County Zoning Maps)
3. N/A Traffic Congestion Boundary, if applicable
4. N/A Coastal Management Boundary, if applicable
5. N/A High Noise Contours (65 LDN or higher) surrounding the Naples Airport, if applicable (identified on Collier County Zoning Maps).

**G. SUPPLEMENTAL INFORMATION**

1. Attached \$16,700.00 non-refundable filing fee made payable to the Board of County Commissioners due at time of submittal.
2. N/A \$9,000.00 non-refundable filing fee for a Small Scale Amendment made payable to the Board of County Commissioners, due at time of submittal.
3. TBD Plus Legal Advertisement Costs (Your portion determined by number of petitions and divided accordingly)
4. See Appendix V.G.4 Proof of ownership (copy of deed)
5. Attached Notarized Letter of Authorization if Agent is not the Owner (See attached form)
6. Attached 1 Original and 5 complete, signed applications with all attachments including maps, at time of submittal. After sufficiency is completed, 15 copies of the complete application will be required. Additional copies may be required.

\* Maps, aerials, sketches shall include: North arrow, name and location of principal roadways; shall be at a scale of 1"=400' or at a scale as determined during the pre-application meeting; identification of the subject site; legend or key, if applicable. All oversized documents and attachments must be folded so as to fit into a legal-size folder. For all oversized exhibits, at least one copy must be submitted at 8-1/2 x 11 inches. All exhibits and attachments to the petition must include a title and exhibit # or letter, and must be referenced in the petition.

**LETTER OF AUTHORIZATION**

**TO WHOM IT MAY CONCERN:**

I hereby authorize Andy McCall, Park Planner, MDP  
(Name of Agent – typed or printed)

to serve as my Agent in a request to amend the Collier County Growth Management Plan affecting property identified in the Application.

Signed: Miami-Dade County Date: 3/27/2009  
(Name of Owner(s) of Record)

I hereby certify that I have the authority to make the foregoing application, and that the application is true, correct and complete to the best of my knowledge.

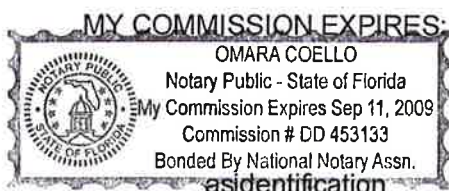
[Signature]  
Signature of Applicant

Jack Kardys, Director, MDP  
Name – Typed or Printed

STATE OF ( Florida )  
COUNTY OF ( Miami-Dade )

Sworn to and subscribed before me this 27 day of March, 2009

By [Signature]  
(Notary Public)



**CHOOSE ONE OF THE FOLLOWING:**  
 who is personally known to me,  
 who has produced \_\_\_\_\_  
and

did take an Oath  
 did not take an Oath

**NOTICE – BE AWARE THAT:**

**Florida Statute Section 837.06 – False Official Statements Law states that:**  
**“Whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his official duty shall be guilty of a misdemeanor of the second degree, punishable as provided by a fine to a maximum of \$500.00 and/or maximum of a sixty day jail term.”**

Miami-Dade County Application to Amend the Collier County Growth Management Plan

Dade-Collier Cypress Recreation Area

# DADE-COLLIER CYPRESS RECREATION AREA

## APPENDICES

### Appendix

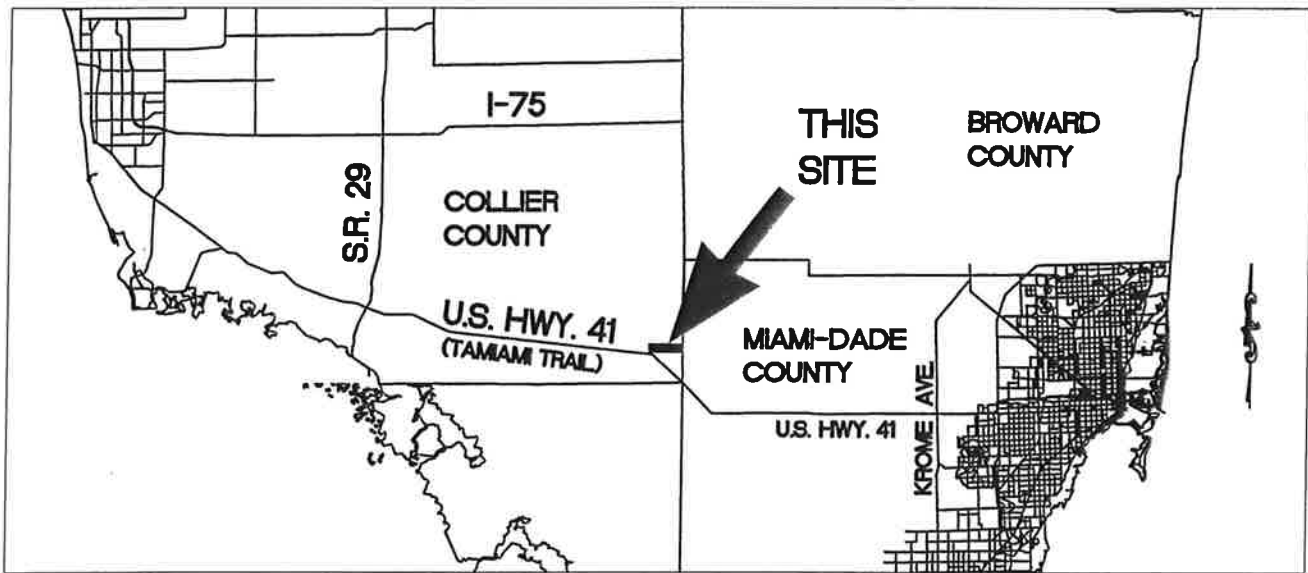
111.A	Sketch & Description
IV.D.1	FLUM Amended
IV.D.2	FLUM Inset
V.A.1	General Location Map
V.A.2	Aerial Map
V.A.3	500' Boundary Map
V.B.1	Existing FLUM
V.C.1	FLUCCS Map
V.C.2	Summary Table of Federal and State Plant and Animal Species
V.C.3a	County Historic and/or Archeological Sites
V.C.3b	Florida Master Site File Response
V.D.1	Area of Critical State Concern (ACSC) Map
V.D.5b	Data and Analysis for the Proposed Use
V.D.5b.1	Conceptual Diagram
V.D.5b.2	Existing Trail Conditions
V.D.5b.3	State Comprehensive Outdoor Recreation Plan
V.D.5b.4	OHV Titled for 2002 - 2006
V.D.5b.5	County Title Activities
V.D.5b.6	Letters of Support
V.E.1a	Potable Water LOSS
V.E.1b	Sanitary Sewer LOSS
V.E.1c	Traffic Methodology
V.E.1d	Drainage LOSS
V.E.1e	Solid Waste LOSS
V.E.2	Fire Districts and Emergency Management Services
V.E.3	Proposed Services and Public Facilities
V.E.F.1	FEMA Flood Zones
V.E.F.2a	Proposed Wellfields and ASRs
V.E.F.2b	Wellfields and Raw Water Transmission Mains
V.G.4	Warranty Deed

APPENDIX 111.A  
SKETCH & DESCRIPTION

DESCRIPTION: (GMP AMENDMENT AREA FOR DADE-COLLIER CYPRESS RECREATION AREA) PORTIONS OF SECTIONS 13, 14, 15 AND 16, TOWNSHIP 53 SOUTH, RANGE 34 EAST, COLLIER COUNTY, FLORIDA, DESCRIBED AS FOLLOWS:

COMMENCE AT SOUTHWEST CORNER OF THE SOUTHEAST QUARTER (SE 1/4) OF SAID SECTION 16; THENCE ALONG THE SOUTH LINE OF SAID SECTION 16, NORTH 89°54'58" EAST (BEARING BASIS) 1123.29 FEET TO THE POINT OF BEGINNING; THENCE NORTH 00°10'12" WEST 4212.71 FEET; THENCE NORTH 89°59'14" EAST 5540.13 FEET; THENCE NORTH 00°44'17" WEST 147.89 FEET; THENCE NORTH 89°59'02" EAST 10,715.82 FEET; THENCE SOUTH 81°03'32" EAST 573.99 FEET TO THE EAST LINE OF SAID SECTION 13; THENCE ALONG SAID EAST LINE, SOUTH 00°40'03" EAST 3942.30 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 13; THENCE ALONG THE SOUTH LINE OF SAID SECTION 13, SOUTH 88°45'25" WEST 5090.33 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 14; THENCE ALONG THE SOUTH LINE OF SAID SECTION 14, SOUTH 88°45'25" WEST 5090.33 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 15; THENCE ALONG THE SOUTH LINE OF SAID SECTION 15, SOUTH 88°45'25" WEST 5090.33 FEET TO THE SOUTHEAST CORNER OF SAID SECTION 16; THENCE ALONG THE SOUTH LINE OF SAID SECTION 16, SOUTH 89°54'58" WEST 1587.10 FEET TO THE POINT OF BEGINNING.

SAID LANDS SITUATE, LYING, AND BEING IN COLLIER COUNTY, FLORIDA AND CONTAINING 1608 ACRES MORE OR LESS.



LOCATION MAP  
NOT TO SCALE

SEE SHEET 2 OF 2 FOR SKETCH

**SKETCH AND DESCRIPTION**

THIS SKETCH DOES NOT REPRESENT A BOUNDARY SURVEY

DATE	REVISIONS	DWN.	CHK.

CERTIFIED TO:  
**MIAMI-DADE COUNTY PARK AND RECREATION DEPARTMENT**

**MILLER LEGG**  
 South Florida Office: 1800 North Douglas Road · Suite 200  
 Pembroke Pines, Florida · 33024-3200  
 954-436-7000 · Fax: 954-436-8664  
 www.millerlegg.com

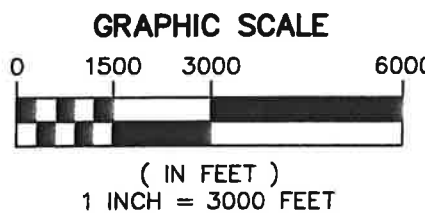
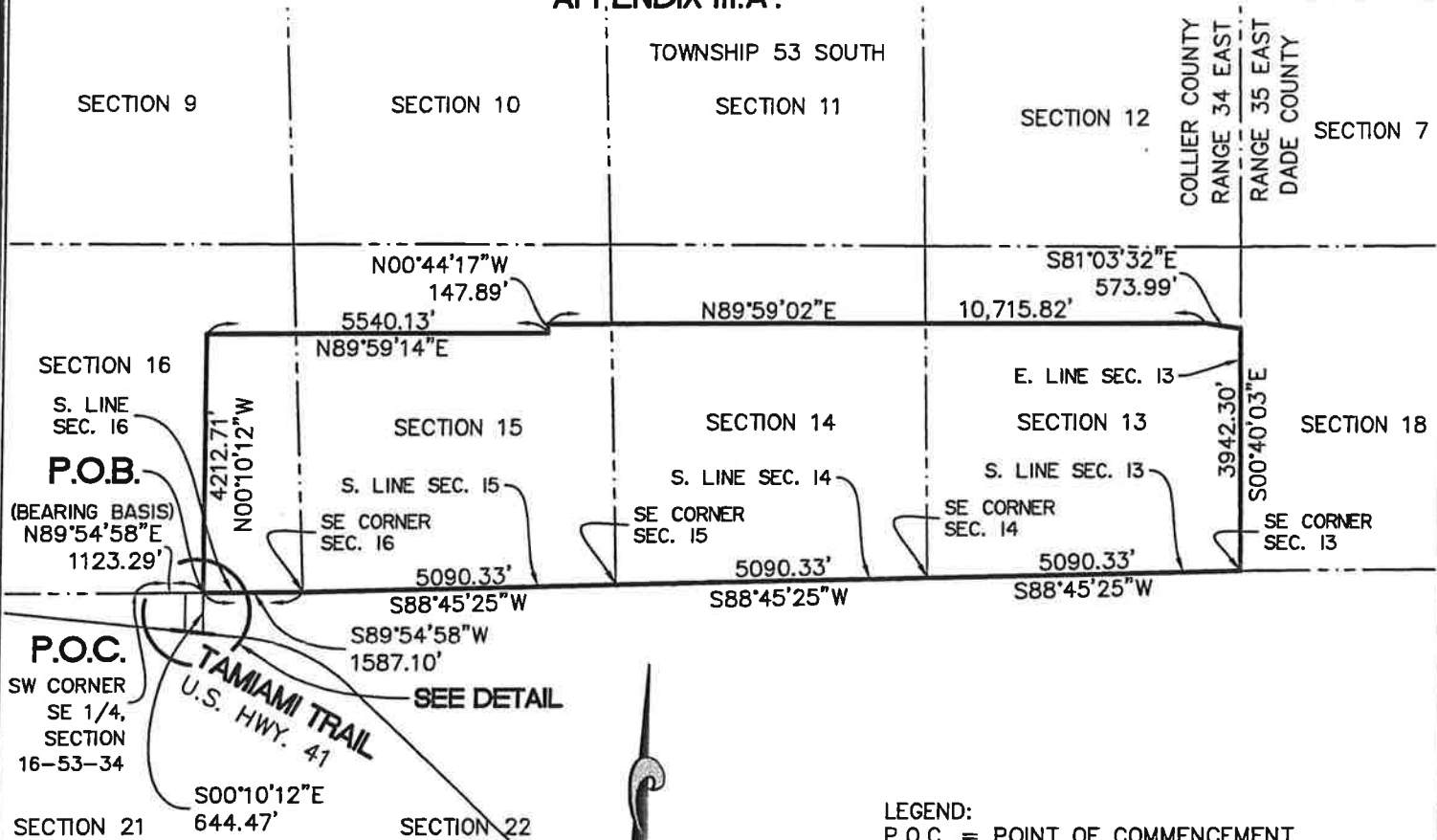
I HEREBY CERTIFY THAT THIS SKETCH MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027, FLORIDA STATUTES.  
 DATED THIS 25th DAY OF MARCH, 2009 A.D.

*Martin P. Rossi*  
**MARTIN P. ROSSI**  
 PROFESSIONAL SURVEYOR AND MAPPER  
 STATE OF FLORIDA REGISTRATION No. 5857  
 NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER  
 CERTIFICATE OF AUTHORIZATION: LB6680

DRAWN BY: RZ      CHECKED BY: MR

PROJECT NO. **09-00063**      FILE NO. **III. A.**

APPENDIX III.A.

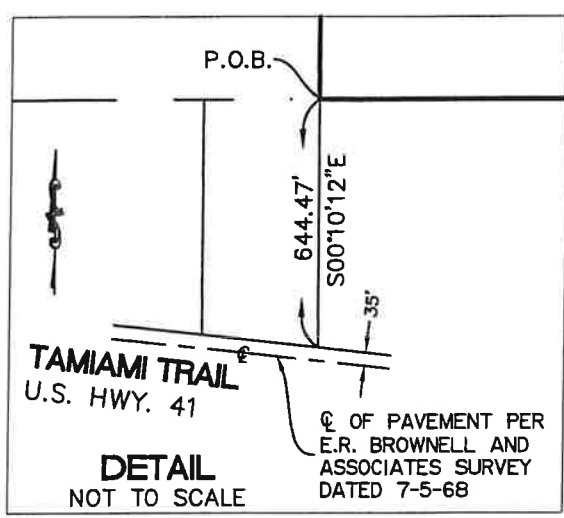


LEGEND:  
 P.O.C. = POINT OF COMMENCEMENT  
 P.O.B. = POINT OF BEGINNING  
 SEC. = SECTION  
 CL = CENTER LINE

SURVEYOR'S NOTES:

SUBJECT PROPERTY WAS NOT ABSTRACTED BY THIS FIRM FOR EASEMENTS, RIGHTS-OF-WAY, RESERVATIONS OR OTHER MATTERS OF RECORD AND OWNERSHIP WAS NOT DETERMINED.

BEARINGS ARE BASED ON THE SOUTH LINE OF SEC. 16, TWP. 53 S., RGE 34 E. HAVING A BEARING OF S89°54'58"W.



THE SECTION LINES AS SHOWN ARE BASED ON SURVEY PREPARED BY E.R. BROWNELL AND ASSOCIATES, DATED 7-5-68 FOR DADE COUNTY PORT AUTHORITY TITLED TRANSITION AND TRAINING AIRPORT DADE AND COLLIER COUNTIES, PROPERTY MAP - EXHIBIT "A", TO ACCOMPANY PROJECT APPLICATION FOR FAA PROJECT 9-08-083-01.

SEE SHEET 1 OF 2 FOR DESCRIPTION

DADE-COLLIER CYPRESS RECREATION AREA

Certificate of Authorization L.B. 6680

THIS SKETCH DOES NOT REPRESENT A BOUNDARY SURVEY

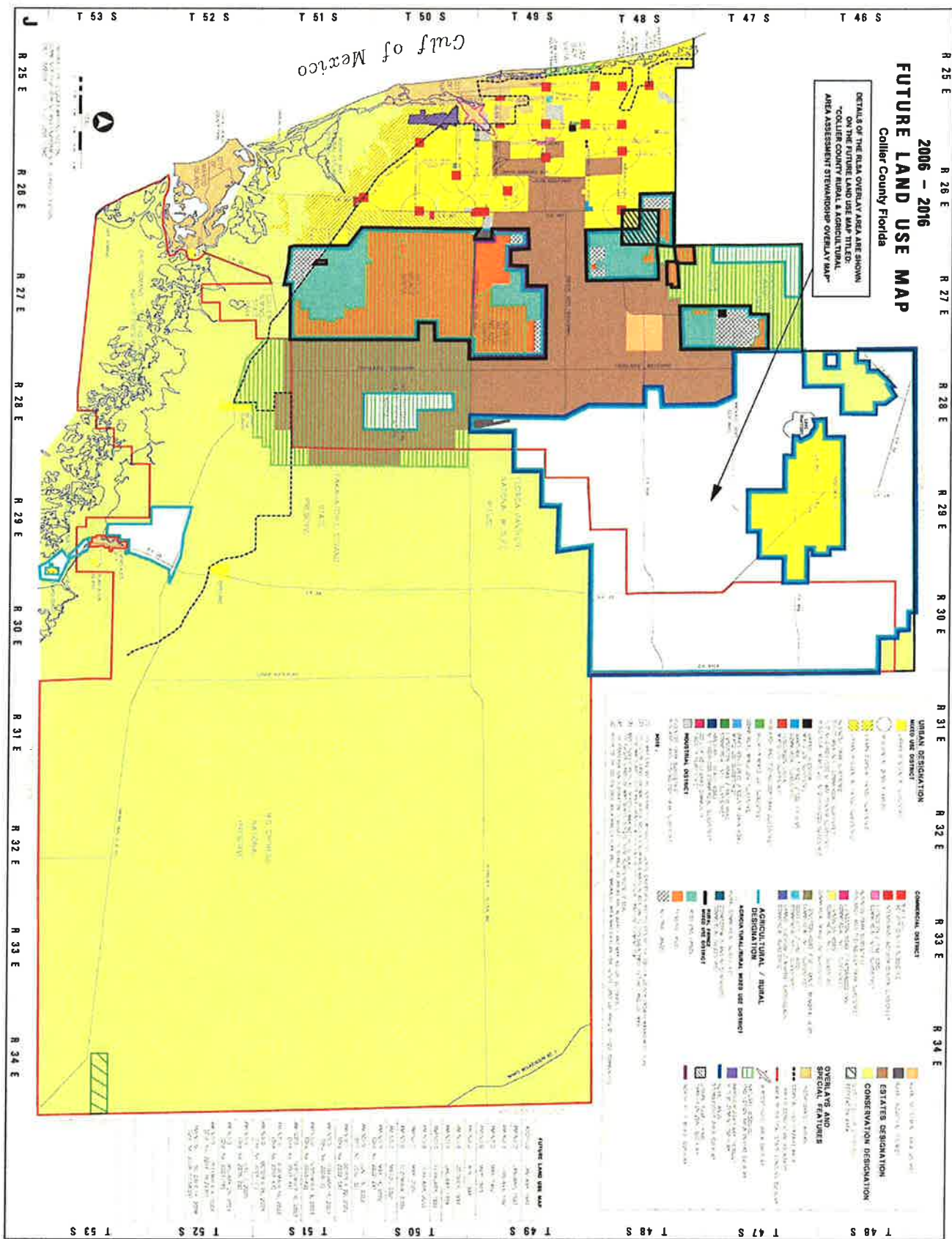
**MILLER LEGG**

South Florida Office: 1800 North Douglas Road - Suite 200  
 Pembroke Pines, Florida - 33024-3200  
 954-436-7000 - Fax: 954-436-8664  
 www.millerlegg.com

**SKETCH AND DESCRIPTION**

PROJECT NO. 09-00063	FILE NO. III. A.
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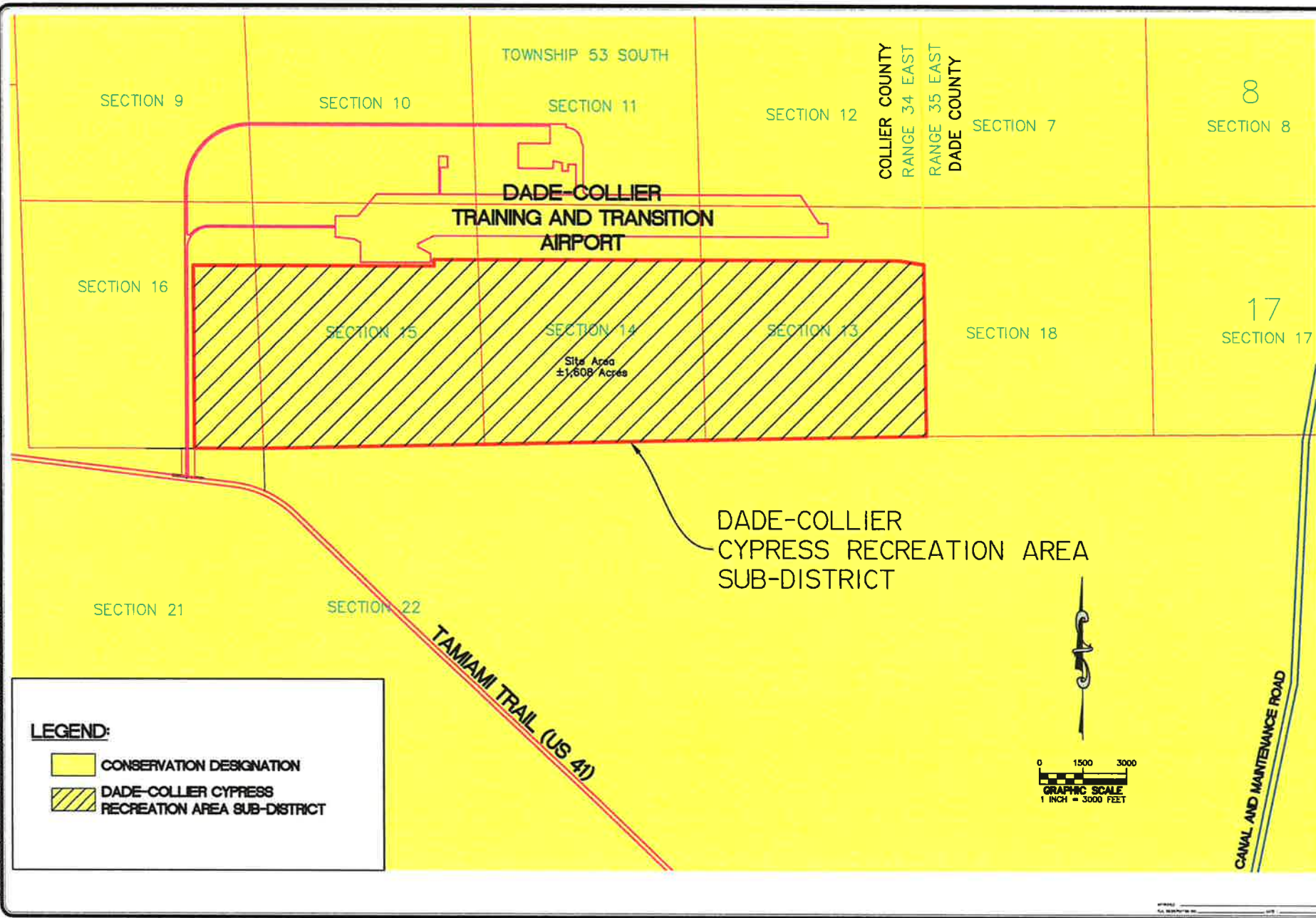
APPENDIX IV.D.1  
FLUM AMENDED



APPENDIX IV.D.1 - FLUM AMENDED FOR DADE-COLLIER CYPRESS RECREATION AREA



APPENDIX IV.D.2  
FLUM INSET



**LEGEND:**

- CONSERVATION DESIGNATION
- DADE-COLLIER CYPRESS RECREATION AREA SUB-DISTRICT



APPENDIX IV.D.2 FLUM INSET

**DADE-COLLIER CYPRESS RECREATION AREA**  
COLLIER COUNTY, FLORIDA  
FOR: MIAMI-DADE COUNTY

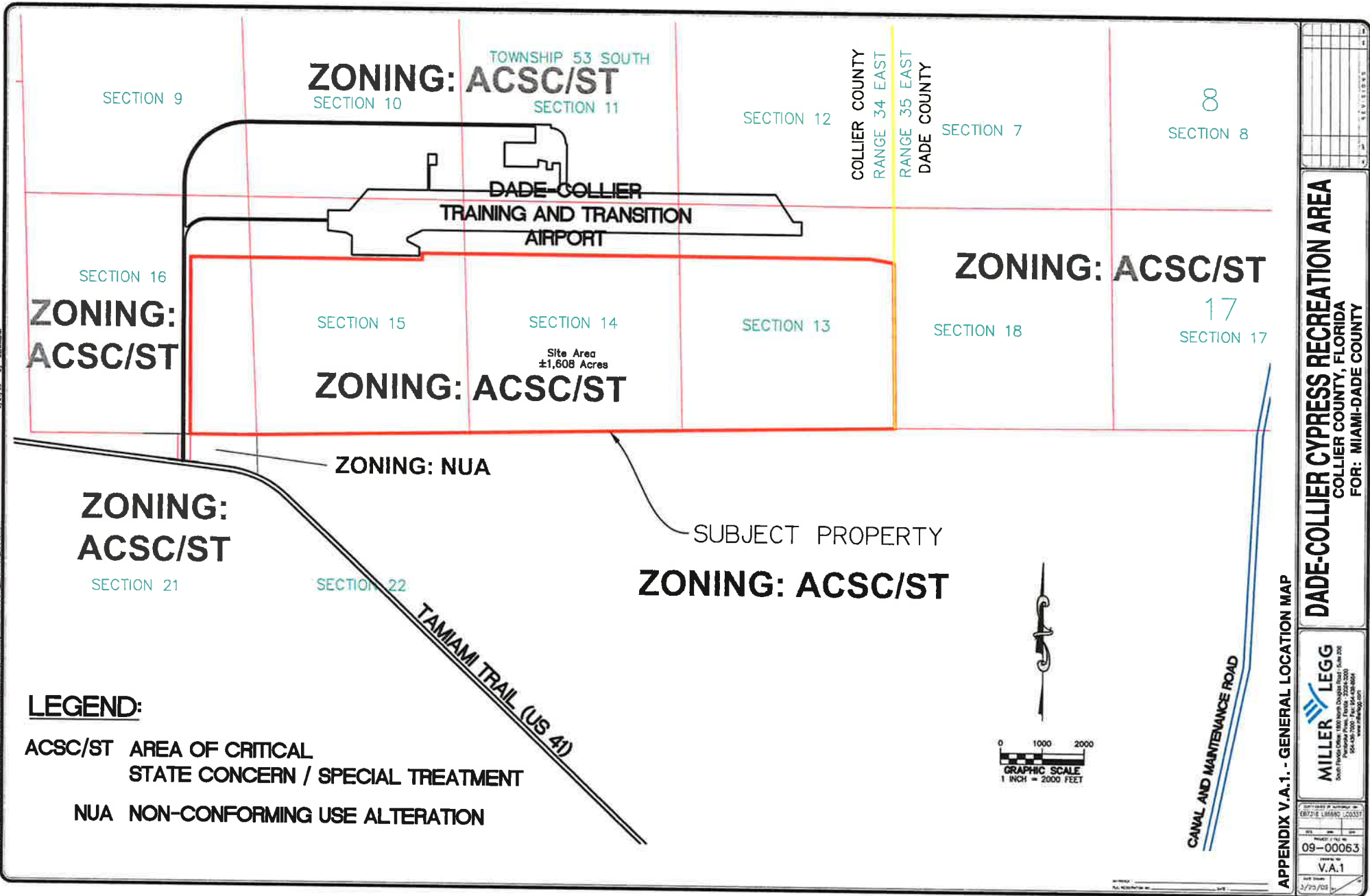
**MILLER LEGG**  
South Florida Office: 1800 South Douglas Road, Suite 209  
Pompano Beach, Florida 33062-0200  
Phone: 954-783-0800  
www.mlegg.com

PROJECT NO. 09-00063  
DATE 3/25/09  
IV.D.2

APPENDIX V.A.1  
GENERAL LOCATION MAP

3/7/09 by BOWEN

V:\PROJECTS\2009\09-0063 - DADE-COLLIER PARK IMPROVEMENTS\GENERAL LOCATION MAP.DWG



**LEGEND:**

- ACSC/ST AREA OF CRITICAL STATE CONCERN / SPECIAL TREATMENT
- NUA NON-CONFORMING USE ALTERATION

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**DADE-COLLIER CYPRESS RECREATION AREA**  
 COLLIER COUNTY, FLORIDA  
 FOR: MIAMI-DADE COUNTY

APPENDIX V.A.1 - GENERAL LOCATION MAP

**MILLER LEGG**  
 Surveying & Mapping  
 5045 North Douglas Street, Suite 200  
 Fort Lauderdale, FL 33309  
 Phone: 954-582-7000 Fax: 954-582-8800  
 www.millerlegg.com

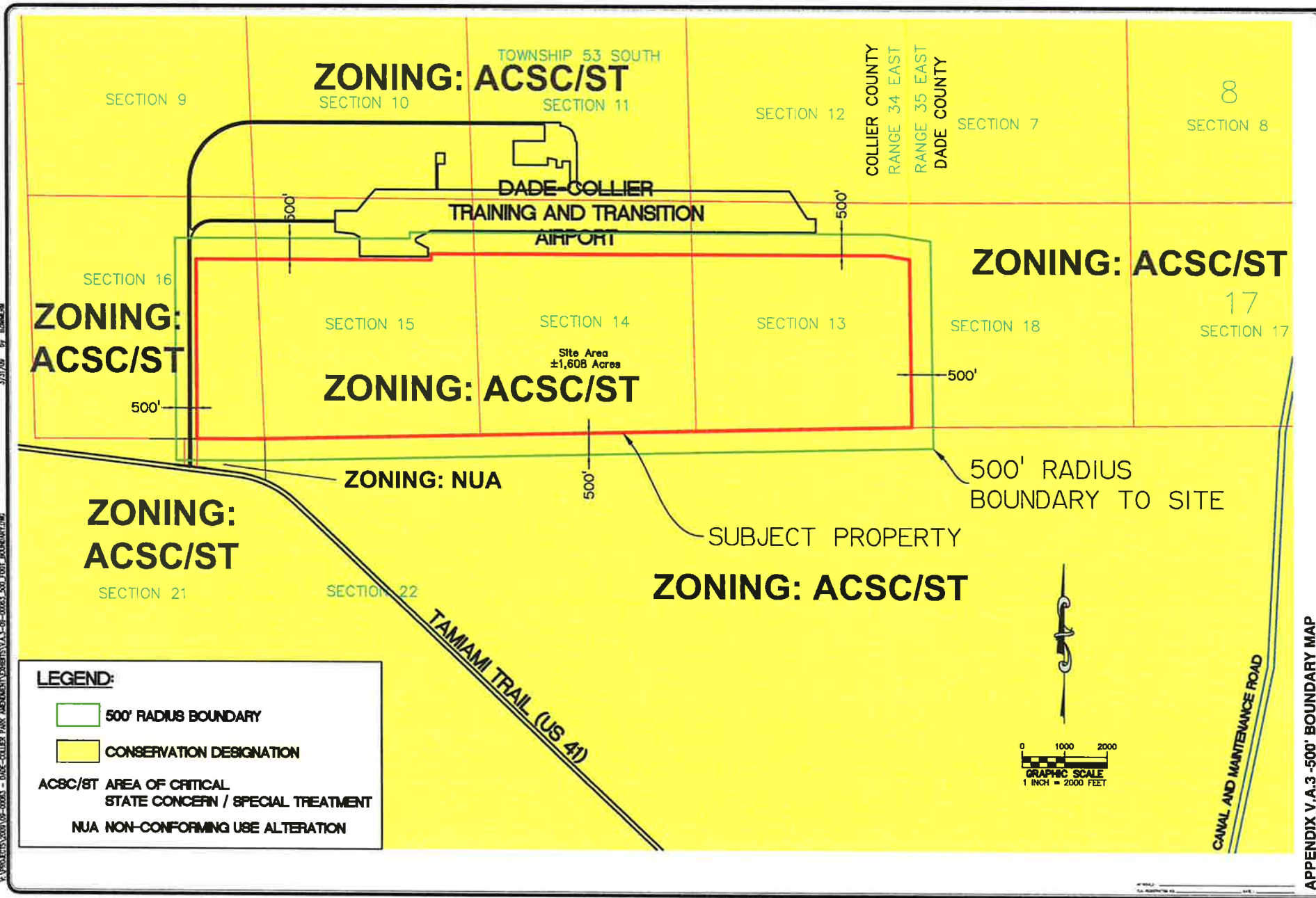
DATE	3/7/09
PROJECT	09-00063
BY	V.A.1
SCALE	
DATE	3/7/09

APPENDIX V.A.2  
AERIAL MAP



APPENDIX V.A.3  
500' BOUNDARY MAP

V:\PROJECTS\2009\09-0063 - DADE-COLLIER PARK AMENDMENT\CONSENTS\VA.3-09-0063\_500 FOOT BOUNDARY.DWG 3/21/09 by EDWARDS



**LEGEND:**

- 500' RADIUS BOUNDARY
- CONSERVATION DESIGNATION

ACSC/ST AREA OF CRITICAL STATE CONCERN / SPECIAL TREATMENT

NUA NON-CONFORMING USE ALTERATION



**APPENDIX V.A.3 - 500' BOUNDARY MAP**

**DADE-COLLIER CYPRESS RECREATION AREA**  
COLLIER COUNTY, FLORIDA  
FOR: MIAMI-DADE COUNTY

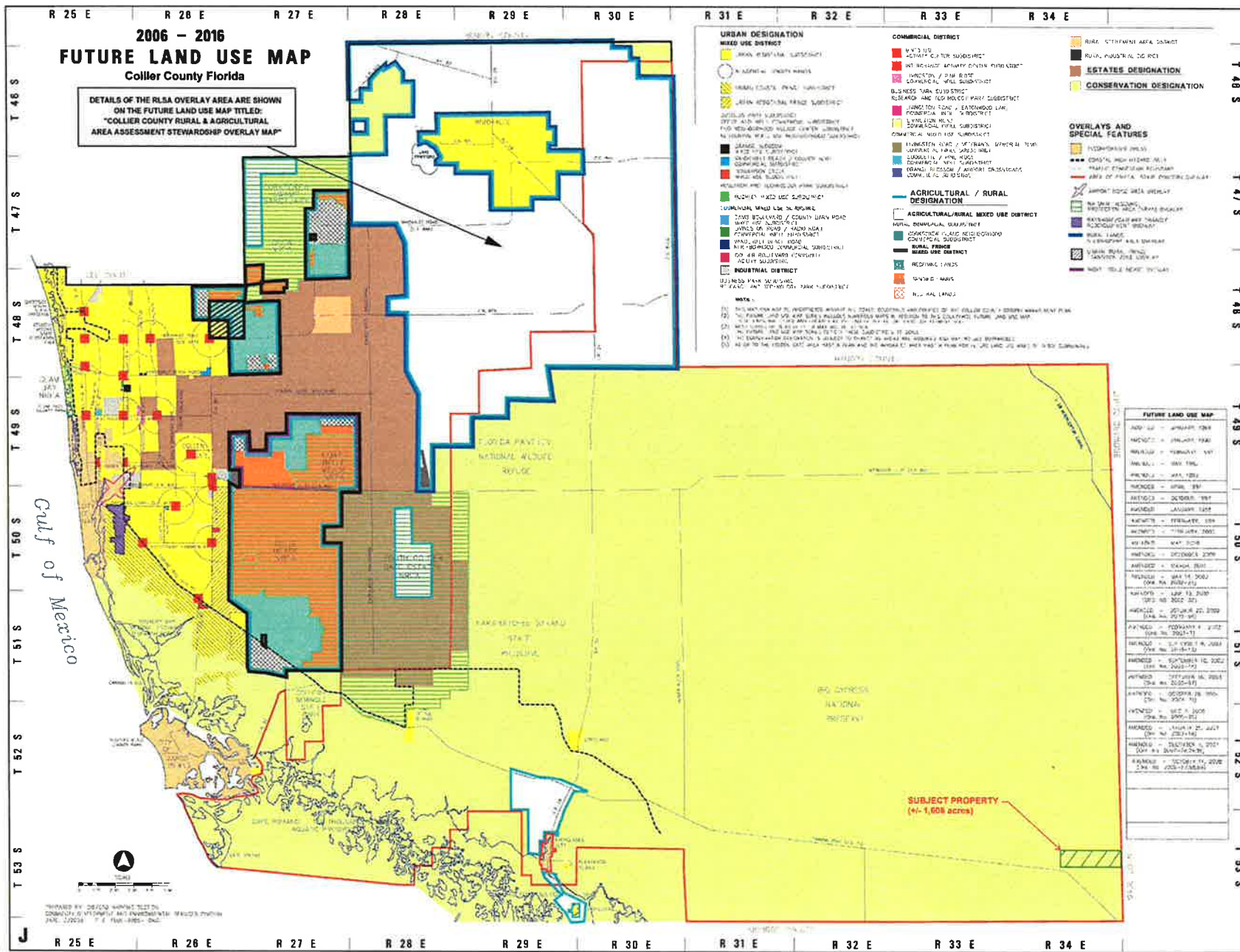
**MILLER LEGG**  
South Florida Office: 1800 South Douglas Road, Suite 200  
Miami, Florida 33135  
Tel: 305-420-7000 Fax: 305-420-8000  
www.mlegg.com

09-00063  
V.A.3  
3/21/09



**APPENDIX V.B.1  
EXISTING FLUM**

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APPENDIX V.B.1 - EXISTING FLUM

**LEGEND**

**URBAN DESIGNATION**

- MIXED USE DISTRICT
- URBAN RESIDENTIAL
- URBAN OFFICE
- URBAN COMMERCIAL
- URBAN INDUSTRIAL
- URBAN BUSINESS CENTER
- URBAN PROFESSIONAL SERVICE
- URBAN HIGH DENSITY RESIDENTIAL
- URBAN MEDIUM DENSITY RESIDENTIAL
- URBAN LOW DENSITY RESIDENTIAL
- URBAN TRANSIT
- URBAN FLEXIBLE
- URBAN VARIANTS
- URBAN SPECIAL USE
- URBAN CONCEPTUAL
- URBAN FUTURE

**COMMERCIAL DISTRICT**

- BUSINESS CENTER
- BUSINESS OFFICE
- BUSINESS PROFESSIONAL
- BUSINESS INDUSTRIAL
- BUSINESS VARIANTS
- BUSINESS CONCEPTUAL
- BUSINESS FUTURE

**AGRICULTURAL / RURAL DESIGNATION**

- AGRICULTURAL / RURAL MIXED USE DISTRICT
- AGRICULTURAL / RURAL RESIDENTIAL
- AGRICULTURAL / RURAL BUSINESS
- AGRICULTURAL / RURAL INDUSTRIAL
- AGRICULTURAL / RURAL VARIANTS
- AGRICULTURAL / RURAL CONCEPTUAL
- AGRICULTURAL / RURAL FUTURE

**OVERLAYS AND SPECIAL FEATURES**

- PROTECTIVE OVERLAY
- CONCEPTUAL PROTECTIVE OVERLAY
- AREA OF POTENTIAL AVIATION DEVELOPMENT
- AIRPORT NOISE AREA OVERLAY
- WETLANDS OVERLAY
- PROTECTIVE OVERLAY
- ACCOMPANYING OVERLAY
- RURAL LANDS
- URBAN RURAL FRINGE
- WATERSHED PROTECTIVE OVERLAY

DATE	DESCRIPTION
2006	ADOPTED
2008	REVISION
2010	REVISION
2012	REVISION
2014	REVISION
2016	REVISION
2018	REVISION
2020	REVISION
2022	REVISION
2024	REVISION
2026	REVISION
2028	REVISION
2030	REVISION

APPENDIX V.C.1  
FLUCCS MAP

HABITAT	ACRES
FLUCCS 6170 - Mixed Wetlands Hardwood	166
FLUCCS 6211 - Dwarf Cypress	675
FLUCCS 6215 - Cypress - Domey/Heads	27
FLUCCS 6216 - Cypress - Mixed Hardwoods	568
FLUCCS 6310 - Wetland Scrub	57
FLUCCS 641D - Freshwater Marsh, Disturbed	5
FLUCCS 7310 - Exposed Rock with Marsh Grasses	46
FLUCCS 7420 - Borrow Areas	51
FLUCCS 7440 - Fill Areas	13
<b>Total</b>	<b>1608</b>



APPENDIX V.C.1 - FLUCCS MAP

09-00063  
VC.1

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**DADE-COLLIER CYPRESS RECREATION AREA**  
COLLIER COUNTY, FLORIDA  
FOR: MIAMI-DADE COUNTY

NO.	REVISIONS

Field observations, in conjunction with the United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) coverage's, and aerial photographs dated 2004, were used to develop a map of the vegetative communities on site. The vegetative communities are based on the Florida Land Use Cover and Forms Classification System (FLUCCS), Third Edition 1999. Nine (9) vegetative communities were identified on the proposed ±1,608 acre project site. The following vegetative descriptions list the dominant species observed in the field for the purpose of describing the individual habitats and is not a complete list of all species that occur within the project limits.

#### FLUCCS 6170 – Mixed Wetlands Hardwood ±166 Acres

This forested wetland habitat is composed of a hardwood tree community tolerant of hydric conditions in which no single species appears to achieve dominance within the canopy. The canopy is comprised of live oak (*Quercus virginiana*), cabbage palm (*Sabal palmetto*), laurel oak (*Quercus laurifolia*), red maple (*Acer rubrum*), bald cypress (*Taxodium distichum*), red bay (*Persea borbonia*), poisonwood (*Metopium toxiferum*), and strangler fig (*Ficus aurea*). Shrub canopy contains cocoplum (*Chrysobalanus icaco*), myrsine (*Rapanea guinensis*), wax myrtle (*Myrica cerifera*), saw palmetto (*Serenoa repens*), buttonbush (*Cephalanthus occidentalis*) and Carolina willow (*Salix caroliniana*). Representative ground cover species include swamp fern (*Blechnum serrulatum*), leather fern (*Acrostichum danaeifolium*), Virginia Chain Fern (*Woodwardia virginica*), royal fern (*Osmunda regalis*), saw-grass (*Cladium jamaicense*), and sand cordgrass (*Spartina bakerii*).

#### FLUCCS 6211 - Dwarf Cypress ±675 Acres

This forested wetland habitat is primary habitat on the project site and is composed of a stunted pond cypress (*Taxodium ascendens*) tree canopy in areas with exposed cap rock and minimal marl soils. Representative ground cover species include sawgrass, muhly grass (*Muhlenbergia filipes*), Tracy's beakrush (*Rhynchospora tracyii*), Everglades daisy (*Helenium pinnatifidum*), star rush (*Dichromena colorata*), marsh fleabane (*Pluchea odorata*), love vine (*Cassytha filiformis*), and bladderworts (*Utricularia* spp.).

#### FLUCCS 6215 Cypress - Domes/Heads ±27 Acres

This forested wetland habitat is primarily comprised of bald cypress with scattered dahoon holly (*Ilex cassine*), pond cypress and cocoplum. It appears to be associated with slight depressions in the cap rock where organic soils have accumulated. Ground cover is primarily sawgrass.

#### FLUCCS 6216 Cypress - Mixed Hardwoods ±166 Acres

This forested wetland habitat is composed of a bald cypress with scattered pond cypress, dahoon holly, cocoplum, red bay, myrsine, and wax myrtle. Representative ground cover species include sawgrass, muhly grass, Tracy's beakrush, Everglades daisy, star rush, marsh fleabane, bladderworts, swamp lily (*Crinum americana*), and lemon bacopa (*Bacopa caroliniana*).

FLUCCS 6310 - Wetland Scrub ±57 Acres

This forested wetland community is dominated by dense, low-growing, woody shrubs and small trees. Tree species observed include sabal palm, willow, wax myrtle, dahoon holly, saltbush, buttonbush, and saplings of red maple, sweetbay (*Magnolia virginica*), and other hydric tree species indicative of wooded wetlands. Representative ground cover species include sawgrass, sand cordgrass, marsh fleabane, duck potato (*Sagittaria lancifolia*), and pickerelweed (*Pontederia cordata*).

FLUCCS 6410D – Freshwater Marsh, Disturbed ±5 Acres

These small pockets of herbaceous wetlands are dominated by herbaceous emergent vegetation. This depressional wetland habitat appears in conjunction with the cleared areas surrounding the borrow areas FLUCCS 7420 and adjacent exposed rock with marsh grasses FLUCCS 7310 and appear to have been created when these areas were originally cleared for excavation of the borrow areas. Representative ground cover species include spikerush (*Eleocharis interstincta*), maidencane (*Panicum hemitomon*), lemon bacopa (*Bacopa caroliniana*), and torpedo grass (*Panicum repens*).

FLUCCS 7310 - Exposed Rock with Marsh Grasses ±46 Acres

These areas occur surrounding the borrow areas FLUCCS 7420 and are comprised of disturbed rock soils. Representative ground cover species include knot grass (*Paspalum distichum*), torpedo grass (*Panicum repens*), common reed (*Phragmites australis*), common frog-fruit (*Phylla nodiflora*), yellow nut sedge (*Cyperus esculentus*), broomsedge (*Andropogon virginicus*), rustweed (*Polypremum procumbens*), marsh pink (*Sabatia stellaris*), muhly grass, sawgrass, star rush, marsh fleabane, southern fleabane (*Erigeron quercifolius*), and widely scattered trees such as Brazilian Pepper (*Schinus terebinthifolius*) and Australian Pine (*Casuarina* spp.).

FLUCCS 7420 - Borrow Areas ±51 Acres

The deep cut borrow areas contain minimal littoral areas vegetated with herbaceous wetland species such as cattail (*Typha* spp.), sawgrass, wax myrtle, and scattered Brazilian pepper.

FLUCCS 7440 - Fill Areas ±13 Acres

These areas are the filled roads leading to the borrow areas FLUCCS 7420 and contain minimal vegetation along the edges with the surrounding habitat. In areas where vegetation is present representative ground cover species include torpedo grass, common frog-fruit, marsh pink, rustweed, yellow nut sedge, broomsedge, star rush, and various upland grasses.

APPENDIX V.C.2  
SUMMARY TABLE OF FEDERAL  
AND STATE PLANT AND  
ANIMAL SPECIES

The following summary table of Federal (US Fish & Wildlife Service) and State (Florida Department of Agriculture and Florida Fish and Wildlife Conservation Commission) listed plant and animal species known to occur on the site and/or known to inhabit nearby biological communities similar to the site was compiled utilizing Florida Natural Areas Inventory data, US Fish & Wildlife Service list for Collier County, and the Florida Fish and Wildlife Conservation Commission List of Imperiled Species in conjunction with observations of wildlife and assessment of potential habitat on the project site.

Common Name	Scientific Name	FFWCC	USFWS
<b>Mollusks</b>			
Florida tree snail	<i>Liguus fasciatus</i>	SSC	
<b>Reptiles</b>			
American alligator	<i>Alligator mississippiensis</i>	SSC	T(S/A)
Alligator snapping turtle	<i>Chelydra serpentina osceola</i>	SSC	
<b>Birds</b>			
Limpkin	<i>Aramus guarauna</i>	SSC	
Little blue heron	<i>Egretta caerulea</i>	SSC	
Snowy egret	<i>Egretta thula</i>	SSC	
Tricolor heron	<i>Egretta tricolor</i>	SSC	
White ibis	<i>Eudocimus albus</i>	SSC	
Wood stork	<i>Mycteria americana</i>	E	E
Everglade snail kite	<i>Rostrhamus sociabilis plumbeus</i>	E	E
<b>Mammals</b>			
Florida panther	<i>Puma concolor coryi</i>	E	E
Florida black bear	<i>Ursus americanus floridanus</i>	T	
<b>Plants</b>			
Common Name	Scientific Name	FDA	USFWS
Blodgett's wild-mercury	<i>Argythamnia blodgettii</i>	E	
Cuban snake-bark	<i>Colubrina cubensis var. floridana</i>	E	
Few-flowered fingergrass	<i>Digitaria pauciflora</i>	E	
Clamshell orchid	<i>Encyclia cochleata var. triandra</i>	E	
Pineland jacquemontia	<i>Jacquemontia curtissii</i>	T	
Small's flax	<i>Linum carteri var. smallii</i>	E	
Florida royal palm	<i>Roystonea elata</i>	E	
Florida filmy fern	<i>Trichomanes punctatum ssp. floridanum</i>	E	
The following symbols indicate status of protection:			
E - Endangered			
T - Threatened			
SSC - Species of special concern; FFWCC Only			
T(S/A)- Threatened/Similarity of Appearance			





FNAI Database - Read  
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2009-03-24 10:40:00 AM  
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## Florida Natural Areas Inventory

### Biodiversity Matrix Query Results

#### UNOFFICIAL REPORT

Created 3/24/2009

(Contact FNAI Data Services Coordinator

for an official **Standard Data Report**)

(Contact the FNAI Data Services Coordinator at 850.224.8207

for information on an official

Standard Data Report)

NOTE: The Biodiversity Matrix includes only rare species and natural communities tracked by FNAI.

**Report for 10 Matrix Units: 57381 , 57382 , 57688 , 57689 , 57993 , 57994 , 58296 , 58297 , 58596 , 58597**

#### Descriptions

**DOCUMENTED** - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit.

**DOCUMENTED-HISTORIC** - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit; however the occurrence has not been observed/reported within the last twenty years.

**LIKELY** - The species or community is *known* to occur in this vicinity, and is considered likely within this Matrix Unit because:

1. documented occurrence overlaps this and adjacent Matrix Units, but the documentation isn't precise enough to indicate which of those Units the species or community is actually located in; *or*
2. there is a documented occurrence in the vicinity and there is suitable habitat for that species or community within this Matrix Unit.

**POTENTIAL** - This Matrix Unit lies within the known or predicted range of the species or community based on expert knowledge and environmental variables such as climate, soils, topography, and landcover.

**Matrix Unit ID: 57381**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u>Mycteria americana</u> Wood Stork	G4	S2	LE	LE
<u>Puma concolor coryi</u> Florida Panther	G5T1	S1	LE	LE
<u>Rostrhamus sociabilis plumbeus</u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 57382**

0 Documented Elements Found

0 Documented-Historic Elements Found

4 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u>Mycteria americana</u> Wood Stork	G4	S2	LE	LE
<u>Puma concolor coryi</u> Florida Panther	G5T1	S1	LE	LE
<u>Rockland hammock</u>	G2	S2	N	N
<u>Rostrhamus sociabilis plumbeus</u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 57688**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u>Mycteria americana</u> Wood Stork	G4	S2	LE	LE
<u>Puma concolor coryi</u> Florida Panther	G5T1	S1	LE	LE
<u>Rostrhamus sociabilis plumbeus</u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 57689**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u><i>Mycteria americana</i></u> Wood Stork	G4	S2	LE	LE
<u><i>Puma concolor coryi</i></u> Florida Panther	G5T1	S1	LE	LE
<u><i>Rostrhamus sociabilis plumbeus</i></u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 57993**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u><i>Mycteria americana</i></u> Wood Stork	G4	S2	LE	LE
<u><i>Puma concolor coryi</i></u> Florida Panther	G5T1	S1	LE	LE
<u><i>Rostrhamus sociabilis plumbeus</i></u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 57994**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u><i>Mycteria americana</i></u> Wood Stork	G4	S2	LE	LE
<u><i>Puma concolor coryi</i></u> Florida Panther	G5T1	S1	LE	LE
<u><i>Rostrhamus sociabilis plumbeus</i></u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 58296**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u><i>Mycteria americana</i></u> Wood Stork	G4	S2	LE	LE
<u><i>Puma concolor coryi</i></u> Florida Panther	G5T1	S1	LE	LE
<u><i>Rostrhamus sociabilis plumbeus</i></u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 58297**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u><i>Mycteria americana</i></u> Wood Stork	G4	S2	LE	LE
<u><i>Puma concolor coryi</i></u> Florida Panther	G5T1	S1	LE	LE
<u><i>Rostrhamus sociabilis plumbeus</i></u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 58596**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u><i>Mycteria americana</i></u> Wood Stork	G4	S2	LE	LE
<u><i>Puma concolor coryi</i></u> Florida Panther	G5T1	S1	LE	LE
<u><i>Rostrhamus sociabilis plumbeus</i></u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit ID: 58597**

0 Documented Elements Found

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u>Mycteria americana</u> Wood Stork	G4	S2	LE	LE
<u>Puma concolor coryi</u> Florida Panther	G5T1	S1	LE	LE
<u>Rostrhamus sociabilis plumbeus</u> Snail Kite	G4G5T3Q	S2	LE	LE

**Matrix Unit IDs: 57381, 57382, 57688, 57689, 57993, 57994, 58296, 58297, 58596, 58597**

16 Potential Elements Common to Any of the 10 Matrix Units

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<u>Arqythamnia blodgettii</u> Blodgett's Wild-mercury	G2	S2	C	LE
<u>Colubrina cubensis var. floridana</u> Cuban Snake-bark	G2G3T1	S1	N	LE
<u>Corynorhinus rafinesquii</u> Rafinesque's Big-eared Bat	G3G4	S2	N	N
<u>Digitaria pauciflora</u> Few-flowered Fingergrass	G1	S1	C	LE
<u>Drymarchon couperi</u> Eastern Indigo Snake	G3	S3	LT	LT
<u>Elytraria caroliniensis var. angustifolia</u> Narrow-leaved Carolina Scalystem	G4T2	S2	N	N
<u>Encyclia cochleata var. triandra</u> Clamshell Orchid	G4G5T2	S2	N	LE
<u>Forestiera segregata var. pinetorum</u> Florida Pinewood Privet	G4T2	S2	N	N
<u>Galactia pinetorum</u> Pineland Milk Pea	G2Q	S2	N	N
<u>Gopherus polyphemus</u> Gopher Tortoise	G3	S3	N	LT
<u>Jacquemontia curtissii</u> Pineland Jacquemontia	G2	S2	N	LT
<u>Linum carteri var. smallii</u> Small's flax	G2T2	S2	N	LE
<u>Picoides borealis</u> Red-cockaded Woodpecker	G3	S2	LE	LS
<u>Roystonea elata</u> Florida Royal Palm	G2G3	S2	N	LE
<u>Trichomanes punctatum ssp. floridanum</u> Florida Filmy Fern	G4G5T1	S1	N	LE
<u>Ursus americanus floridanus</u> Florida Black Bear	G5T2	S2	N	LT*

**Disclaimer**  
 The data maintained by the Florida Natural Areas Inventory represent the single most comprehensive source of

information available on the locations of rare species and other significant ecological resources statewide. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. FNAI shall not be held liable for the accuracy and completeness of these data, or opinions or conclusions drawn from these data. FNAI is not inviting reliance on these data. Inventory data are designed for the purposes of conservation planning and scientific research and are not intended for use as the primary criteria for regulatory decisions.

**Unofficial Report**

These results are considered unofficial. FNAI offers a Standard Data Request option for those needing certifiable data.

## Federally Listed & Candidate Species in Collier County, Florida

*Updated February 22, 2008*

	Common Name	Scientific Name	Federal Status	Habitat
<b>Mammals</b>	Florida panther	<i>Puma (= Felis) concolor coryi</i>	E	High pine, Tropical hardwood hammock, Scrub, Maritime hammock, Mesic temperate hammock, Pine rockland, Scrubby flatwoods, Mesic pine flatwoods, Hydric pine flatwoods, Dry prairie, Wet prairie, Freshwater marsh, Seepage swamp, Pond swamp, Mangrove
	Puma (=mountain lion)	<i>Puma (= Felis) concolor (all subsp. except coryi)</i>	T/SA	Same as above Mangrove, Seagrass
	West Indian manatee	<i>Trichechus manatus</i>	E, CH	Fresh and saltwater habitats, Mangroves
<b>Birds</b>	Audubon's crested caracara	<i>Polyborus plancus audubonii</i>	T	Improved pastures, Mesic temperate hammock, Mesic pine flatwoods, Hydric pine flatwoods, Dry prairie, Wet prairie.
	Cape Sable seaside sparrow	<i>Ammodramus maritimus mirabilis</i>	E	Wet prairie, Freshwater marsh
	Everglade snail kite	<i>Rostrhamus sociabilis plumbeus</i>	E	Hydric pine flatwoods, Freshwater marsh, Pond swamp
	Florida grasshopper sparrow	<i>Ammodramus savannarum floridamus</i>	E	Dry prairie, Wet prairie
	Florida scrub-jay	<i>Aphelocoma coerulescens</i>	T	Scrub, Scrubby flatwoods and adjacent areas.
	Ivory-billed woodpecker	<i>Campephilus principalis</i>	E	Hammock, pine flatwoods
	Kirtland's warbler	<i>Dendroica kirtlandii</i>	E	Dense vegetation less than 1.5 m in height (During migration)
	Piping plover	<i>Charadrius melodus</i>	T, CH	Sandy beaches, mudflats, sandflats, spoils islands, areas adjacent to inlets and passes

	Red-cockaded woodpecker	<i>Picoides borealis</i>	E	High pine, Mesic pine flatwoods, Hydric pine flatwoods
	Red knot	<i>Calidris canutus rufa</i>	C	Beach dune/Coastal strand
	Wood stork	<i>Mycteria americana</i>	E	Hydric pine flatwoods, Wet prairie, Freshwater marsh, Seepage swamp, Flowing water swamp, Pond swamp, Mangrove, Saltmarsh, Seagrass
<b>Reptiles</b>	American crocodile	<i>Crocodylus acutus</i>	T	Mangrove, Seagrass
	American alligator	<i>Alligator mississippiensis</i>	T/SA	
	Eastern indigo snake	<i>Drymarchon corais couperi</i>	T	High pine, Tropical hardwood hammock, Scrubby high pine, Beach dune/Coastal strand, Maritime hammock, Mesic temperate hammock, Pine rockland, Scrubby flatwoods, Mesic pine flatwoods, Hydric pine flatwoods, Dry prairie, Cutthroat grass, Freshwater marsh, Seepage swamp, Flowing water swamp, Pond swamp, Mangrove
	Green sea turtle <sup>1</sup>	<i>Chelonia mydas</i>	E	Beach dune/Coastal strand, Seagrass, Nearshore reef.
	Loggerhead sea turtle <sup>1</sup>	<i>Caretta caretta</i>	T	Beach dune/Coastal strand, Seagrass, Nearshore reef
<b>Fish</b>	Gulf sturgeon <sup>2</sup>	<i>Acipenser oxyrinchus desotoi</i>	T	
	Smalltooth sawfish <sup>2</sup>	<i>Pristis pectinata</i>	E	
<b>Invertebrates</b>	Bartram's hairstreak butterfly	<i>Strymon acis bartrami</i>	C	
	Florida leafwing butterfly	<i>Anaea troglodyta floridalis</i>	C	
<b>Plants</b>	Florida indigo	<i>Indigofera mucronata keyensis</i>	C	
	Florida prairie clover	<i>Dalea carthagenensis floridana</i>	C	

E=Endangered; T=Threatened; PE=Proposed Endangered; PT=Proposed Threatened; C=Candidate; SA=Similarity of Appearance to a listed taxon; XN=Experimental Population, Non-Essential; CH=Critical Habitat; PCH=Proposed Critical Habitat; <sup>1</sup>=National Marine Fisheries Service has lead for this species in the water, please contact National Marine Fisheries Service for more information and/or consultation for aquatic projects; <sup>2</sup>=National Marine Fisheries Service has lead for this species, please contact National Marine Fisheries Service for more information and/or consultation.





U.S. Fish & Wildlife Service  
Threatened & Endangered Species System

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## Florida

### Notes:

- This report shows the listed species associated in some way with this state.
- This list does not include experimental populations and similarity of appearance listings.
- This list includes non-nesting sea turtles and whales in State/Territory coastal waters.
- This list includes species or populations under the sole jurisdiction of the National Marine Fisheries Service.
- Click on the highlighted scientific names below to view a Species Profile for each listing.

### Listings and occurrences for Florida – 114 listings

- 109 occurring in Florida
- 5 not occurring in Florida
- 1 species listed in some other state occurring in Florida

### Animals -- 59 listings

- 55 occurring in Florida
- 4 not occurring in Florida
- 1 species listed in some other state occurring in Florida

<u>Status</u>	<u>Species listed in this state and that occur in this state</u>
T	Bankclimber, purple (mussel) ( <i>Elliptoideus sloatianus</i> )
E	Bat, gray ( <i>Myotis grisescens</i> )
E	Butterfly, Schaus swallowtail ( <i>Heraclides aristodemus ponceanus</i> )
T	Caracara, Audubon's crested FL pop. ( <i>Polyborus plancus audubonii</i> )
T	Coral, elkhorn ( <i>Acropora palmata</i> )
T	Coral, staghorn ( <i>Acropora cervicornis</i> )
T	Crocodile, American FL pop. ( <i>Crocodylus acutus</i> )
E	Darter, Okaloosa ( <i>Etheostoma okaloosae</i> )
E	Deer, key ( <i>Odocoileus virginianus clavium</i> )
T	Jay, Florida scrub ( <i>Aphelocoma coerulescens</i> )
E	Kite, Everglade snail FL pop. ( <i>Rostrhamus sociabilis plumbeus</i> )
E	Manatee, West Indian ( <i>Trichechus manatus</i> )
E	Moccasinshell, Gulf ( <i>Medionidus penicillatus</i> )
E	Moccasinshell, Ochlockonee ( <i>Medionidus simpsonianus</i> )
E	Mouse, Anastasia Island beach ( <i>Peromyscus polionotus phasma</i> )
E	Mouse, Choctawhatchee beach ( <i>Peromyscus polionotus allophrys</i> )
E	Mouse, Key Largo cotton ( <i>Peromyscus gossypinus allapaticola</i> )
E	Mouse, Perdido Key beach ( <i>Peromyscus polionotus trissyllepsis</i> )

T Mouse, southeastern beach (*Peromyscus polionotus niveiventris*)  
E Mouse, St. Andrew beach (*Peromyscus polionotus peninsularis*)  
E Panther, Florida (*Puma (=Felis) concolor coryi*)  
E Pigtoe, oval (*Pleurobema pyriforme*)  
T Plover, piping except Great Lakes watershed (*Charadrius melodus*)  
E Pocketbook, shinyrayed (*Lampsilis subangulata*)  
E Rabbit, Lower Keys marsh (*Sylvilagus palustris hefneri*)  
E Rice rat lower FL Keys (*Oryzomys palustris natator*)  
T Salamander, frosted flatwoods (*Ambystoma cingulatum*)  
E Sawfish, smalltooth (*Pristis pectinata*)  
E Sea turtle, green FL, Mexico nesting pops. (*Chelonia mydas*)  
T Sea turtle, green except where endangered (*Chelonia mydas*)  
E Sea turtle, hawksbill (*Eretmochelys imbricata*)  
E Sea turtle, Kemp's ridley (*Lepidochelys kempi*)  
E Sea turtle, leatherback (*Dermochelys coriacea*)  
T Sea turtle, loggerhead (*Caretta caretta*)  
E Seal, Caribbean monk (*Monachus tropicalis*)  
T Shrimp, Squirrel Chimney Cave (*Palaemonetes cummingi*)  
T Skink, bluetail mole (*Eumeces egregius lividus*)  
T Skink, sand (*Neoseps reynoldsi*)  
T Slabshell, Chipola (*Elliptio chipolaensis*)  
T Snail, Stock Island tree (*Orthalicus reses (not incl. nesodryas)*)  
T Snake, Atlantic salt marsh (*Nerodia clarkii taeniata*)  
T Snake, eastern indigo (*Drymarchon corais couperi*)  
E Sparrow, Cape Sable seaside (*Ammodramus maritimus mirabilis*)  
E Sparrow, Florida grasshopper (*Ammodramus savannarum floridanus*)  
E Stork, wood AL, FL, GA, SC (*Mycteria americana*)  
T Sturgeon, gulf (*Acipenser oxyrinchus desotoi*)  
E Sturgeon, shortnose (*Acipenser brevirostrum*)  
T Tern, roseate Western Hemisphere except NE U.S. (*Sterna dougallii dougallii*)  
E Three-ridge, fat (mussel) (*Amblema neislerii*)  
E Vole, Florida salt marsh (*Microtus pennsylvanicus dukecampbelli*)  
E Whale, finback (*Balaenoptera physalus*)  
E Whale, humpback (*Megaptera novaeangliae*)  
E Whale, right (*Balaena glacialis (incl. australis)*)

- E Woodpecker, red-cockaded (*Picoides borealis*)  
 E Woodrat, Key Largo (*Neotoma floridana smalli*)

**Status Species listed in this state that do not occur in this state**

- E Beetle, American burying (*Nicrophorus americanus*)  
 E Curlew, Eskimo (*Numenius borealis*)  
 E Pelican, brown except U.S. Atlantic coast, FL, AL (*Pelecanus occidentalis*)  
 E Wolf, gray Lower 48 States, except where delisted and where EXPN. Mexico. (*Canis lupus*)

**Status Listed species occurring in this state that are not listed in this state**

- E Wolf, red except where EXPN (*Canis rufus*)

**Plants -- 55 listings**

- 54 occurring in Florida
- 1 not occurring in Florida
- 0 species listed in some other state occurring in Florida

**Status Species listed in this state and that occur in this state**

- E Aster, Florida golden (*Chrysopsis floridana*)  
 E Beargrass, Britton's (*Nolina brittoniana*)  
 E Beauty, Harper's (*Harperocalis flava*)  
 E Bellflower, Brooksville (*Campanula robinsiae*)  
 T Birds-in-a-nest, white (*Macbridea alba*)  
 E Blazingstar, scrub (*Liatris ohlingerae*)  
 T Bonamia, Florida (*Bonamia grandiflora*)  
 T Buckwheat, scrub (*Eriogonum longifolium* var. *gnaphalifolium*)  
 T Butterwort, Godfrey's (*Pinguicula ionantha*)  
 E Cactus, Key tree (*Pilosocereus robinii*)  
 E Champion, fringed (*Silene polypetala*)  
 E Chaffseed, American (*Schwalbea americana*)  
 E Cladonia, Florida perforate (*Cladonia perforata*)  
 E Fringe-tree, pygmy (*Chionanthus pygmaeus*)  
 T Gooseberry, Miccosukee (*Ribes echinellum*)  
 E Gourd, Okeechobee (*Cucurbita okeechobeensis* ssp. *okeechobeensis*)  
 E Harebells, Avon Park (*Crotalaria avonensis*)  
 E Hypericum, highlands scrub (*Hypericum cumulicola*)  
 E Jacquemontia, beach (*Jacquemontia reclinata*)

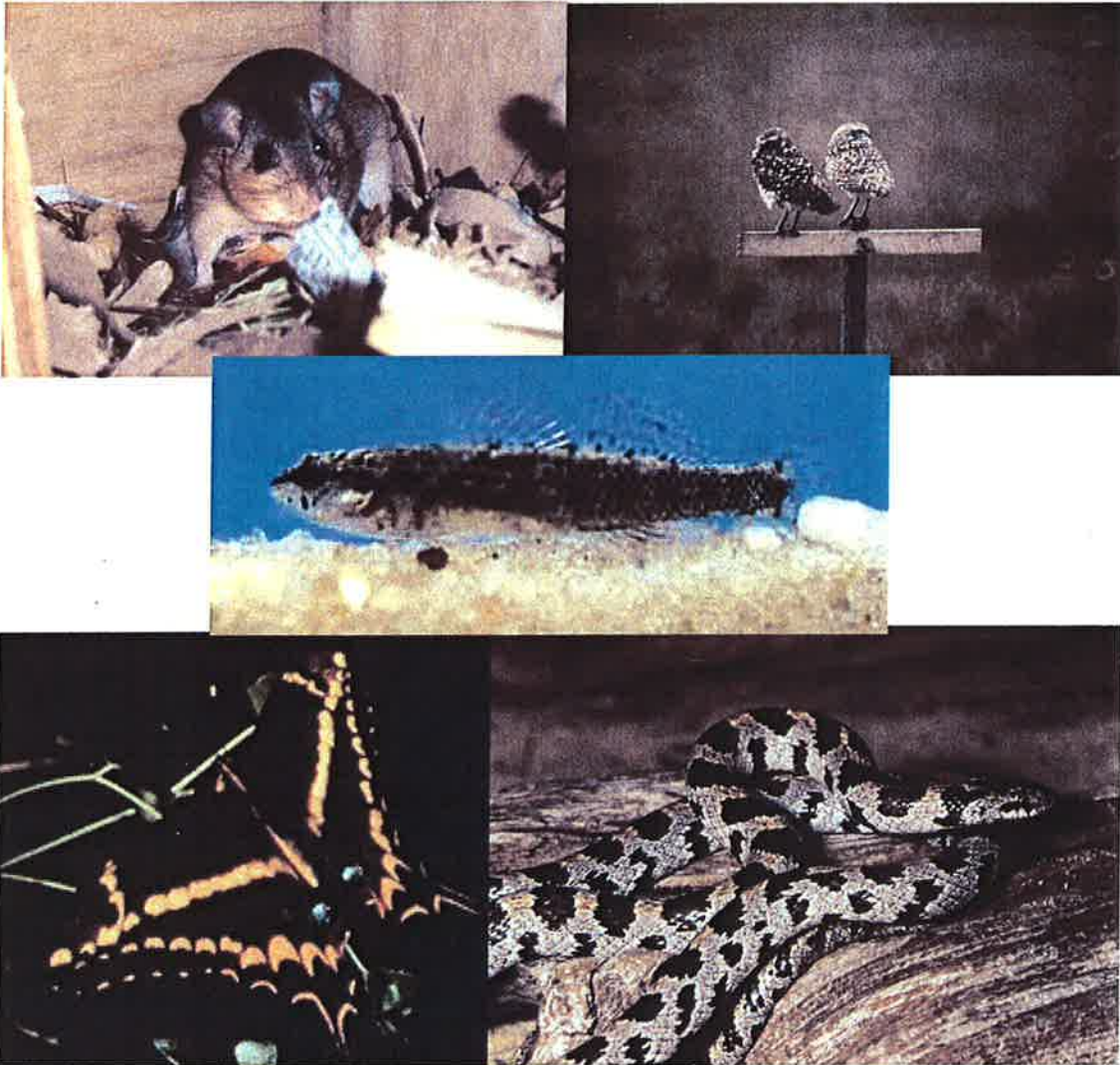
E Lead-plant, Crenulate (*Amorpha crenulata*)  
E Lupine, scrub (*Lupinus aridorum*)  
E Meadowrue, Cooley's (*Thalictrum cooley*)  
E Milkpea, Small's (*Galactia smallii*)  
E Mint, Garrett's (*Dicerandra christmanii*)  
E Mint, Lakela's (*Dicerandra immaculata*)  
E Mint, longspurred (*Dicerandra cornutissima*)  
E Mint, scrub (*Dicerandra frutescens*)  
E Mustard, Carter's (*Warea carteri*)  
E Pawpaw, beautiful (*Deeringothamnus pulchellus*)  
E Pawpaw, four-petal (*Asimina tetramera*)  
E Pawpaw, Rugel's (*Deeringothamnus rugelii*)  
T Pigeon wings (*Clitoria fragrans*)  
E Pinkroot, gentian (*Spigelia gentianoides*)  
E Plum, scrub (*Prunus geniculata*)  
E Polygala, Lewton's (*Polygala lewtonii*)  
E Polygala, tiny (*Polygala smallii*)  
E Prickly-apple, fragrant (*Cereus eriophorus var. fragrans*)  
E Rhododendron, Chapman (*Rhododendron chapmanii*)  
E Rosemary, Apalachicola (*Conradina glabra*)  
E Rosemary, Etonia (*Conradina etonia*)  
E Rosemary, short-leaved (*Conradina brevifolia*)  
E Sandlace (*Polygonella myriophylla*)  
T Seagrass, Johnson's (*Halophila johnsonii*)  
T Skullcap, Florida (*Scutellaria floridana*)  
E Snakeroot (*Eryngium cuneifolium*)  
E Spurge, deltoid (*Chamaesyce deltoidea ssp. deltoidea*)  
T Spurge, Garber's (*Chamaesyce garberi*)  
T Spurge, telephus (*Euphorbia telephioides*)  
E Torreya, Florida (*Torreya taxifolia*)  
E Warea, wide-leaf (*Warea amplexifolia*)  
E Water-willow, Cooley's (*Justicia cooley*)  
T Whitlow-wort, papery (*Paronychia chartacea*)  
E Wireweed (*Polygonella basiramia*)  
E Ziziphus, Florida (*Ziziphus celata*)

**Status**      ***Species listed in this state that do not occur in this state***

E      Pondberry (*Lindera melissifolia*)

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FLORIDA'S ENDANGERED SPECIES,  
THREATENED SPECIES, AND SPECIES  
OF SPECIAL CONCERN



May 2008

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

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## PREFACE

This document consolidates the official state of Florida list of endangered species, threatened species, and species of special concern. The Florida Fish and Wildlife Conservation Commission (FWC) maintains the state list of animals designated as endangered, threatened, or species of special concern, in accordance with Rules 68A-27.003, 68A-27.004, and 68A-27.005, respectively, Florida Administrative Code (F.A.C.), <https://www.flrules.org/Default.asp>. The state lists of plants, which are designated endangered, threatened, and commercially exploited, are administered and maintained by the Florida Department of Agriculture and Consumer Services (DOACS) via Chapter 5B-40, F.A.C. This list of plants can be obtained at [http://www.fl-dof.com/forest\\_management/plant\\_conserve\\_list.html](http://www.fl-dof.com/forest_management/plant_conserve_list.html). The federal agencies that share the authority to list species as Endangered and Threatened are the National Oceanic and Atmospheric Administration-National Marine Fisheries Service (NOAA-NMFS) and U. S. Fish and Wildlife Service (USFWS). The NOAA-NMFS is responsible for listing most marine species. The federal list of animals and plants is administered by the USFWS, and this list is published in 50 CFR 17 (animals) and 50 CFR 23 (plants). Additional information regarding federal listings can be located at the following websites; NOAA-NMFS - <http://www.nmfs.noaa.gov> and USFWS - <http://endangered.fws.gov/wildlife.html#Species>.

Please note that while the FWC has published a consolidated list of state and federally listed species in the past, we now only publish a list of species listed within the state of Florida. This list will be maintained and available at our agency website: <http://www.myfwc.com>. Lists of federally listed species can still be viewed at the USFWS and NOAA-NMFS websites mentioned above. It is our intent by providing the list in this manner that we will be able to maintain a current list that is more readily available to the public.

- **Common and scientific names listed first are as they appear in the Florida Administrative Code, Title 68A. Common and/or scientific names following this and located within parentheses ( ) contain names as used by USFWS, or other commonly used names.**

Bradley J. Gruver, Ph. D  
Listed Species Coordinator  
Species Conservation Planning Section  
Division of Habitat and Species Conservation  
Florida Fish and Wildlife Conservation Commission

Cover Photos by FWC Staff: Key Largo Woodrat, Burrowing Owls, Okaloosa Darter, Schaus' swallowtail butterfly, Short-tailed Snake.



**NUMERICAL SUMMARY OF SPECIES LISTED BY THE STATE OF FLORIDA AS ENDANGERED,  
THREATENED, OR SPECIES OF SPECIAL CONCERN**

<b>STATUS DESIGNATION</b>	<b>FISH</b>	<b>AMPHIBIANS</b>	<b>REPTILES</b>	<b>BIRDS</b>	<b>MAMMALS</b>	<b>INVERTEBRATES</b>	<b>TOTAL</b>
E	3	0	6	8	20	4	41
T	2	0	11	9	4	0	26
SSC	10	5	7	18	6	4	50
<b>TOTAL</b>	<b>15</b>	<b>5</b>	<b>24</b>	<b>35</b>	<b>30</b>	<b>8</b>	<b>117</b>

## OFFICIAL LISTS

Common Name	Scientific Name	Status
<b><u>FISH</u></b>		
Atlantic sturgeon (Gulf sturgeon)	<i>Acipenser oxyrinchus</i> ( <i>Acipenser oxyrinchus desotoi</i> )	SSC (1)
shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
shoal bass	<i>Micropterus cataractae</i>	SSC (1,2)
Suwannee bass	<i>Micropterus notius</i>	SSC (1)
rivulus (mangrove rivulus)	<i>Rivulus marmoratus</i>	SSC (1)
Lake Eustis pupfish	<i>Cyprinodon variegatus hubbsi</i>	SSC (1)
blackmouth shiner	<i>Notropis melanostomus</i>	E
bluenose shiner	<i>Pteronotropis welaka</i>	SSC (1,2)
saltmarsh topminnow	<i>Fundulus jenkinsi</i>	SSC (1)
key silverside	<i>Menidia conchorum</i>	T
crystal darter	<i>Crystallaria asprella</i>	T
harlequin darter	<i>Etheostoma histrio</i>	SSC (1)
okaloosa darter	<i>Etheostoma okaloosae</i>	E
Southern tessellated darter (tessellated johnny darter)	<i>Etheostoma olmstedii</i> <i>maculaticeps</i>	SSC (1)
key blenny	<i>Starksia starcki</i>	SSC (1)
<b><u>AMPHIBIANS</u></b>		
flatwoods salamander	<i>Ambystoma cingulatum</i>	SSC
Georgia blind salamander	<i>Haideotriton wallacei</i>	SSC (1,2)
pine barrens treefrog	<i>Hyla andersonii</i>	SSC (1)
Florida bog frog	<i>Rana okaloosae</i>	SSC (2)
gopher frog	<i>Rana capito</i>	SSC (1,2)
<b><u>REPTILES</u></b>		
American alligator	<i>Alligator mississippiensis</i>	SSC (1,3)
American crocodile	<i>Crocodylus acutus</i>	E
key ringneck snake	<i>Diadophis punctatus acricus</i>	T
Eastern indigo snake	<i>Drymarchon corais couperi</i>	T
red rat snake	<i>Elaphe guttata</i>	SSC <sup>1</sup> (1)
Atlantic salt marsh water snake (Atlantic salt marsh snake)	<i>Nerodia clarkii taeniata</i>	T

**Common Name**

**Scientific Name**

**Status**

Florida pine snake	<i>Pituophis melanoleucus mugitus</i>	SSC (2)
short-tailed snake	<i>Stilosoma extenuatum</i>	T
Florida brown snake	<i>Storeria dekayi victa</i>	T <sup>1</sup>
rim rock crowned snake	<i>Tantilla oolitica</i>	T
Florida ribbon snake	<i>Thamnophis sauritus sackeni</i>	T <sup>1</sup>
bluetail mole skink	<i>Eumeces egregius lividus</i>	T
Florida Key mole skink	<i>Eumeces egregius egregius</i>	SSC (1)
sand skink	<i>Neoseps reynoldsi</i>	T
gopher tortoise	<i>Gopherus polyphemus</i>	T
Barbour's map turtle	<i>Graptemys barbouri</i>	SSC (1,2)
alligator snapping turtle	<i>Macrolemys temminckii</i>	SSC (1)
striped mud turtle	<i>Kinosternon baurii</i>	E <sup>1</sup>
Suwannee cooter	<i>Pseudemys concinna suwanniensis</i>	SSC (1,2)
loggerhead seaturtle (loggerhead sea turtle)	<i>Caretta caretta</i>	T
green seaturtle (green sea turtle)	<i>Chelonia mydas</i>	E
leatherback seaturtle (leatherback sea turtle)	<i>Dermochelys coriacea</i>	E
hawksbill seaturtle (hawksbill sea turtle)	<i>Eretmochelys imbricata</i>	E
Kemp's ridley seaturtle (Kemp's ridley sea turtle)	<i>Lepidochelys kempii</i>	E
<b><u>BIRDS</u></b>		
piping plover	<i>Charadrius melodus</i>	T
snowy plover (Cuban snowy plover)	<i>Charadrius alexandrinus</i>	T
American oystercatcher	<i>Haematopus palliatus</i>	SSC (1,2)
brown pelican	<i>Pelecanus occidentalis</i>	SSC (1)
black skimmer	<i>Rynchops niger</i>	SSC (1)
least tern	<i>Sterna antillarum</i>	T
roseate tern	<i>Sterna dougalli</i> ( <i>Sterna dougallii dougallii</i> )	T
limpkin	<i>Aramus guaranauna</i>	SSC (1)
reddish egret	<i>Egretta rufescens</i>	SSC (1,4)
snowy egret	<i>Egretta thula</i>	SSC (1)
little blue heron	<i>Egretta caerulea</i>	SSC (1,4)
tricolored heron	<i>Egretta tricolor</i>	SSC (1,4)

Common Name	Scientific Name	Status
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white ibis	<i>Eudocimus albus</i>	SSC (2)
Florida sandhill crane	<i>Grus canadensis pratensis</i>	T
whooping crane	<i>Grus americana</i>	SSC (5)
wood stork	<i>Mycteria americana</i>	E
roseate spoonbill	<i>Platalea ajaja</i>	SSC (1,4)
burrowing owl (Florida burrowing owl)	<i>Athene cunicularia</i> ( <i>Athene cunicularia floridana</i> )	SSC (1)
crested caracara (Audubon's crested caracara)	<i>Caracara cheriway</i> ( <i>Polyborus plancus audubonii</i> )	T
peregrine falcon	<i>Falco peregrinus</i>	E
Southeastern American kestrel	<i>Falco sparverius paulus</i>	T
osprey	<i>Pandion haliaetus</i>	SSC <sup>2</sup> (1,2)
snail kite  (Everglades snail kite)	<i>Rostrhamus sociabilis plumbeus</i>	E
Florida scrub jay	<i>Aphelocoma coerulescens</i>	T
Cape Sable seaside sparrow	<i>Ammodramus maritimus mirabilis</i>	E
Florida grasshopper sparrow	<i>Ammodramus savannarum floridanus</i>	E
Scott's seaside sparrow	<i>Ammodramus maritimus peninsulae</i>	SSC (1)
Wakulla seaside sparrow	<i>Ammodramus maritimus juncicolus</i>	SSC (1)
white-crowned pigeon	<i>Columba leucocephala</i>	T
Kirtland's warbler	<i>Dendroica kirtlandii</i>	E
Bachman's warbler	<i>Vermivora bachmanii</i>	E
ivory-billed woodpecker	<i>Campephilus principalis</i>	E
red-cockaded woodpecker	<i>Picoides borealis</i>	SSC
Marian's marsh wren	<i>Cistothorus palustris marianae</i>	SSC (1)
Worthington's marsh wren	<i>Cistothorus palustris griseus</i>	SSC (1)
<b><u>MAMMALS</u></b>		
Florida panther	<i>Puma concolor coryi</i> ( <i>Puma [=Felis] concolor coryi</i> )	E
Florida black bear	<i>Ursus americanus floridanus</i>	T <sup>3</sup>
Everglades mink	<i>Mustela vison evergladensis</i>	T
key deer	<i>Odocoileus virginianus clavium</i>	E

Common Name	Scientific Name	Status
Lower Keys marsh rabbit	<i>Sylvilagus palustris hefneri</i>	E
Big Cypress fox squirrel	<i>Sciurus niger avicennia</i>	T
Sherman's fox squirrel	<i>Sciurus niger shermani</i>	SSC (1,2)
Eastern chipmunk	<i>Tamias striatus</i>	SSC (1)
Sanibel Island rice rat	<i>Oryzomys palustris sanibeli</i>	SSC (1,2)
silver rice rat (rice rat, lower FL Keys)	<i>Oryzomys argentatus</i> ( <i>Oryzomys palustris natator</i> )	E
Key Largo woodrat	<i>Neotoma floridana smalli</i>	E
Key Largo Cotton Mouse	<i>Peromyscus gossypinus</i> <i>allapaticola</i>	E
Choctawhatchee beach mouse	<i>Peromyscus polionotus</i> <i>allophrys</i>	E
Southeastern beach mouse	<i>Peromyscus polionotus</i> <i>niveiventris</i>	T
Anastasia Island beach mouse	<i>Peromyscus polionotus</i> <i>phasma</i>	E
St. Andrews beach mouse	<i>Peromyscus polionotus</i> <i>peninsularis</i>	E
Perdido Key beach mouse	<i>Peromyscus polionotus</i> <i>trissyllepsis</i>	E
Florida mouse	<i>Podomys floridanus</i>	SSC (1)
Florida mastiff bat	<i>Eumops glaucinus floridanus</i>	E
gray bat	<i>Myotis grisescens</i>	E
Indiana bat	<i>Myotis sodalis</i>	E
Florida saltmarsh vole (Florida salt marsh vole)	<i>Microtus pennsylvanicus</i> <i>dukecampbelli</i>	E
Sherman's short-tailed shrew	<i>Blarina carolonensis</i> [= <i>brevicauda</i> ] <i>shermani</i>	SSC (2)
Homosassa shrew	<i>Sorex longirostris eionis</i>	SSC (2)
sei whale	<i>Balaenoptera borealis</i>	E
fin whale (finback whale)	<i>Balaenoptera physalus</i>	E
North Atlantic right whale (right whale)	<i>Eubalaena glacialis</i> ( <i>Balaena glacialis</i> [ <i>incl.</i> <i>australis</i> ])	E
humpback whale	<i>Megaptera novaeangliae</i>	E
sperm whale	<i>Physeter macrocephalus</i>	E
Florida manatee (West Indian manatee)	<i>Trichechus manatus latirostris</i> ( <i>Trichechus manatus</i> )	E

Common Name	Scientific Name	Status
<b><u>INVERTEBRATES</u></b>		
<b><u>CORALS</u></b>		
pillar coral	<i>Dendrogyra cylindrus</i>	E
<b><u>CRUSTACEANS</u></b>		
Panama City crayfish (econfina crayfish)	<i>Procambarus econfinae</i>	SSC (1)
sims sink crayfish (Santa Fe cave crayfish)	<i>Procambarus erythrops</i>	SSC (1)
black creek crayfish	<i>Procambarus pictus</i>	SSC (1)
<b><u>INSECTS</u></b>		
Miami blue butterfly	<i>Cyclargus [=Hermiargus] thomasi bethunebakeri</i>	E
Schaus' swallowtail butterfly	<i>Heraclides aristodemus ponceanus</i>	E
<b><u>MOLLUSKS</u></b>		
Florida tree snail	<i>Liguus fasciatus</i>	SSC (1)
Stock Island tree snail	<i>Orthalicus reses</i> <i>Orthalicus reses [not incl. nesodryas]</i>	E

## KEY TO ABBREVIATIONS AND NOTATIONS

### List Abbreviations

FWC =	Florida Fish and Wildlife Conservation Commission
E =	Endangered
T =	Threatened
SSC =	Species of Special Concern

Reasons for SSC listings prior to January 1, 2001 are indicated by the number in parenthesis under the following criteria:

- (1) has a significant vulnerability to habitat modification, environmental alteration, human disturbance, or human exploitation which, in the foreseeable future, may result in its becoming a threatened species unless appropriate protective or management techniques are initiated or maintained;
- (2) may already meet certain criteria for designation as a threatened species but for which conclusive data are limited or lacking;
- (3) may occupy such an unusually vital or essential ecological niche that should it decline significantly in numbers or distribution other species would be adversely affected to a significant degree;
- (4) has not sufficiently recovered from past population depletion, and
- (5) occurs as a population either intentionally introduced or being experimentally managed to attain specific objectives, and the species of special concern prohibitions in Rule 68A-27.002, F.A.C., shall not apply to species so designated, provided that the intentional killing, attempting to kill, possession or sale of such species is prohibited.

### List Notations

- <sup>1</sup> Lower keys population only.
- <sup>2</sup> Monroe County population only.
- <sup>3</sup> Other than those found in Baker and Columbia Counties or in Apalachicola National Forest.

**APPENDIX V.C.3A  
HISTORIC AND/OR  
ARCHEOLOGICAL SITES**



**HISTORIC AND/OR  
ARCHEOLOGICAL SITES TO BE  
PROVIDED ONCE KNOWN**

APPENDIX V.C.3B  
FLORIDA MASTER SITE FILE  
RESPONSE



# Florida Master Site File

Division of Historical Resources / R.A. Gray Building  
500 South Bronough St., Tallahassee, Florida 32399-0250  
Phone (850) 245-6440 / Fax (850)245-6439 / Email [sitefile@doh.state.fl.us](mailto:sitefile@doh.state.fl.us)



## FAX Cover Page

To: (Fax Number) 61 - 954 - 436 - 8664

Date 3 / 23 / 2009 Pages 3 (including this sheet)

Please deliver these pages to:

Name: Mark Clark

Organization: Miller Legg

Sender Name: Erin M Bailey

Message:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

In case of a problem with any portion of this transmission, please call (850) 245-6440

500 S. Bronough Street • Tallahassee, FL 32399-0250 • <http://www.flheritage.com>

Director's Office  
(850) 245-6300 • FAX: 245-6436

Archaeological Research  
(850) 245-6444 • FAX: 245-6452

Historic Preservation  
(850) 245-6333 • FAX: 245-6437

Historical Museums  
(850) 245-6400 • FAX: 245-6433



This record search is for informational purposes only and does **NOT** constitute a project review. This search only identifies resources recorded at the Florida Master Site File and does **NOT** provide project approval from the Division of Historical Resources. Contact the Compliance and Review Section of the Division of Historical Resources at 850-245-6333 for project review information.

March 23, 2009

Mark Clark  
Miller Legg  
1800 N Douglas Rd., Ste. 200  
Pembroke Pines, FL 33024  
Fax: 954-436-8664



In response to your inquiry of March 20, 2009, the Florida Master Site File lists one previously recorded archaeological site and no standing structures in the following parcels of Collier County:

**T53S, R34E, Sections 9, 10, 11, 12, 13, 14, 15, and 16**

When interpreting the results of our search, please consider the following information:

- This search area may contain *unrecorded* archaeological sites, historical structures or other resources even if previously surveyed for cultural resources.
- Because vandalism and looting are common at Florida sites, we ask that you limit the distribution of location information on archaeological sites.
- While many of our records document historically significant resources, the documentation of a resource at the Florida Master Site File does not necessarily mean the resource is historically significant.
- Federal, state and local laws require formal environmental review for most projects. This search **DOES NOT** constitute such a review. If your project falls under these laws, you should contact the Compliance and Review Section of the Division of Historical Resources at 850-245-6333.

Please do not hesitate to contact us if you have any questions regarding the results of this search.

Sincerely,

**Erin Michelle Bailey**  
Archaeological Data Analyst  
Florida Master Site File

CULTURAL RESOURCES REPORT

SITELD	FORMNO	T-R-S	CR	SITERNAME	NRLIST SURVEY	LOCATION	OTHER
CR00386	198508	53S/34E/16	AR	CORN DANCE ISLAND	1616 Map: XOMB		Culture: SEMI Sitetype: INOR

1 site(s) evaluated; 1 form(s) evaluated. (1 AR)  
 Print date: 3/23/2009 8:53:39 AM

# MILLER LEGG

## Facsimile

<b>Date:</b> <u>3/20/2009</u>	<b>Time:</b> <u>3:19 PM</u>	<b>Number of pages:</b> <u>3</u> <i>(including cover)</i>
-------------------------------	-----------------------------	--

<b>From:</b> Mark Clark	<b>To:</b> Florida Master Site File-TRS Search
<b>Fax:</b> (954) 436-8664	<b>Company:</b> Division of Historic Resources
<b>Project Name:</b> TNT Park	<b>Fax:</b> (850) 245-6439
<b>Project Number:</b> 09-00063	<b>Phone:</b>
<b>Remarks:</b>  <input type="checkbox"/> Urgent <input type="checkbox"/> For your review <input checked="" type="checkbox"/> Reply ASAP <input type="checkbox"/> Please comment <input type="checkbox"/> Will mail original <input type="checkbox"/> As requested	<b>cc:</b>
	<b>Fax #</b>
	<b>cc:</b>
	<b>Fax #</b>

**Comments:**

Please see the attached request for a Florida Master Site File - TRS Search.

If you have any questions, please do not hesitate to call.

Thanks,

Mark

**Important Message:** This information is intended solely for the person/entity to whom it is addressed and may contain messages that are privileged and confidential. Any dissemination or copying of this information by unauthorized persons is strictly prohibited. If you receive this fax in error, please telephone (954) 436-7000.



**Florida Master Site File-TRS Search**  
**Preliminary Investigation of Previously Recorded Cultural Resources**

To request a search for previously recorded cultural resources, fill in the **Township** (circle North or South), **Range** (circle East or West), & **Section** number(s) of your project area and fax to 850-245-6439. Also include a photocopy of the appropriate USGS quad map with your project area clearly marked.

Township (North or South): S3S      Range (East or West): 34E  
 Section (include all affected): 16, 15, 14, 13, 9, 10,  
11, 12

Township (North or South): \_\_\_\_\_      Range (East or West): \_\_\_\_\_  
 Section (include all affected): \_\_\_\_\_

Township (North or South): \_\_\_\_\_      Range (East or West): \_\_\_\_\_  
 Section (include all affected): \_\_\_\_\_

Township (North or South): \_\_\_\_\_      Range (East or West): \_\_\_\_\_  
 Section (include all affected): \_\_\_\_\_

Township (North or South): \_\_\_\_\_      Range (East or West): \_\_\_\_\_  
 Section (include all affected): \_\_\_\_\_

(Searches generating more than 10 pages of material will be returned by US mail)

Return To: NAME: Mark Clark  
 ORGANIZATION: Miller Legg  
 DATE: 3/20/2009  
 FAX#: (954) 436-8664  
 PHONE#: (954) 436-7000  
 ADDRESS:

1800 N. Douglas Road, Suite 200  
Pembroke Pines, FL 33024

Send To Printer Back To TerraServer Change to 11x17 Print Size Show Grid Lines Change to Landscape

USGS 69 km W of Miami, Florida, United States 01 Jul 1979

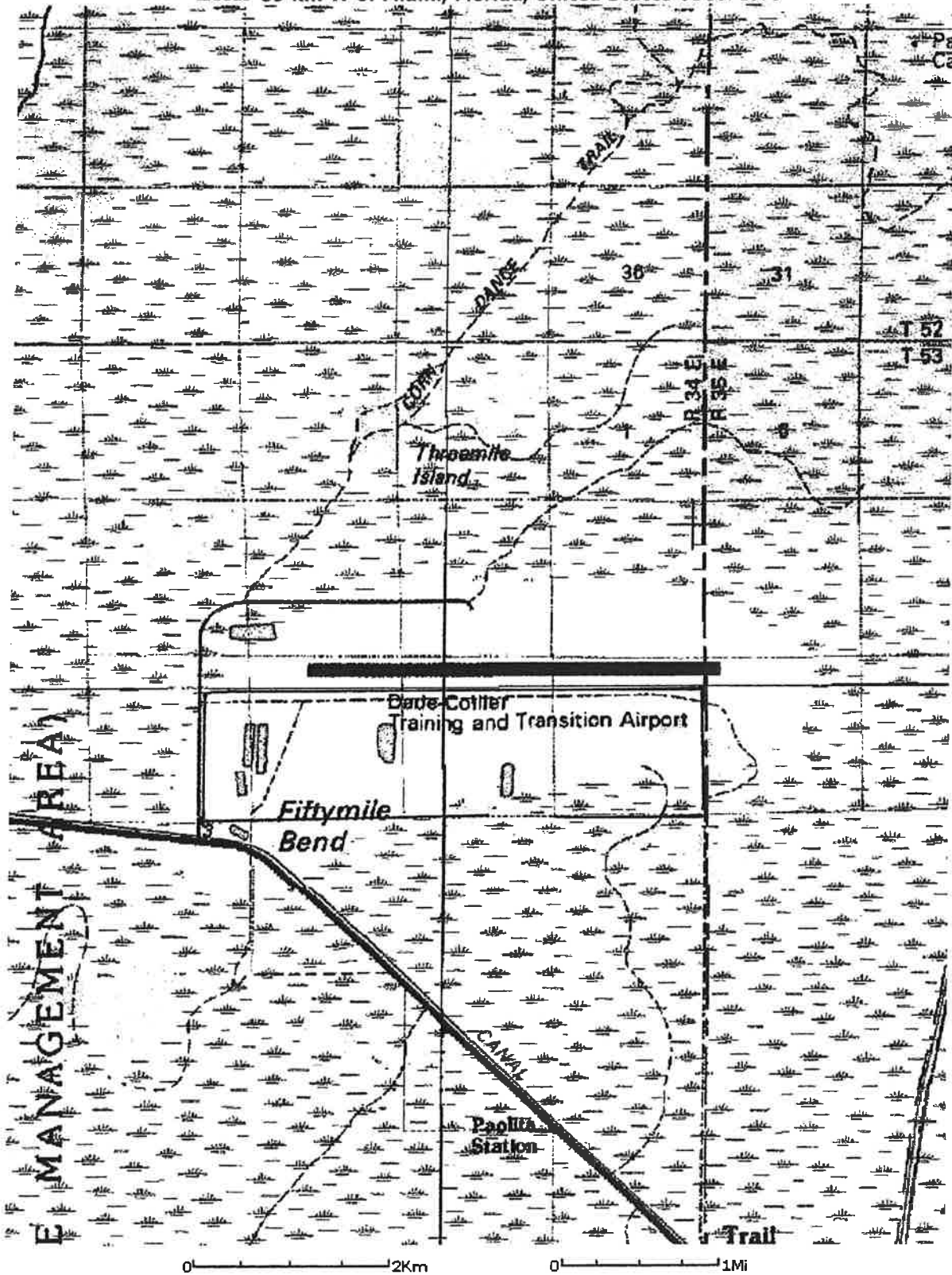


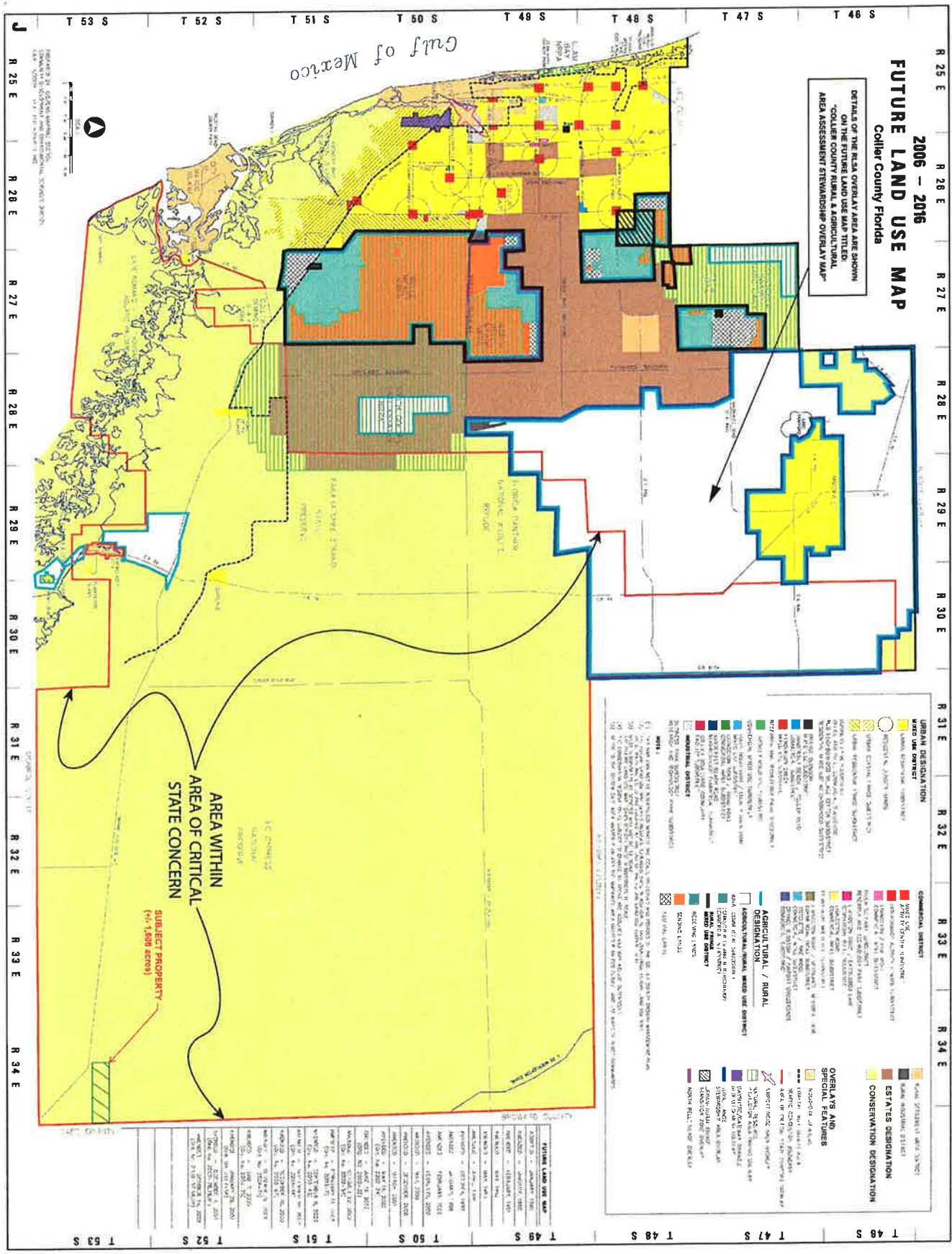
Image courtesy of the U.S. Geological Survey

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□ - Project Location



**APPENDIX V.D.1  
AREA OF CRITICAL STATE  
CONCERN (ACSC) MAP**



**FUTURE LAND USE MAP**  
2006 - 2016  
Collier County Florida

DETAILS OF THE RLSA OVERLAY AREA ARE SHOWN  
ON THE FUTURE LAND USE MAP TITLED  
"COLLIER COUNTY RURAL & AGRICULTURAL  
AREA ASSESSMENT STEWARDSHIP OVERLAY MAP"

- URBAN DESIGNATION**
- Urban Designation
  - Urban Designation (Water)
  - Urban Designation (Wetlands)
  - Urban Designation (Highways)
  - Urban Designation (Public Works)
  - Urban Designation (Other)
- AGRICULTURAL / RURAL DESIGNATION**
- Agricultural / Rural Designation
  - Agricultural / Rural Designation (Water)
  - Agricultural / Rural Designation (Wetlands)
  - Agricultural / Rural Designation (Highways)
  - Agricultural / Rural Designation (Public Works)
  - Agricultural / Rural Designation (Other)
- OVERLAID AND SPECIAL FEATURES**
- Overlaid Area
  - Special Feature
  - Special Feature
  - Special Feature
  - Special Feature
  - Special Feature

AREA WITHIN  
AREA OF CRITICAL  
STATE CONCERN

SUBJECT PROPERTY  
(717, 1400 ACRES)

APPENDIX V.D.1 ACS#

APPENDIX V.D.5.B  
DATA AND ANALYSIS FOR THE  
PROPOSED USES

## **Dade –Collier Cypress Recreation Area Sub-District**

### **Appendix V.D.5b.**

## **V. REQUIRED INFORMATION**

### **D. GROWTH MANAGEMENT**

5.b. Yes. The proposed land use sub-district known as the **Dade-Collier Cypress Recreation Area Sub-District** will create a minor increase in intensity of the subject area which is approximately 1,608 acres. This area is currently owned by Miami-Dade County and is managed by the Aviation Department. The area proposed for amendment is part of a larger parcel of land (Parcel #: 01233520000) that is known as the Dade-Collier Training and Transition Airport or “TNT”.

Miami-Dade County Park and Recreation Department is currently developing, with State Department of Agriculture, Division of Forestry funding from the T. Mark Schmidt OHV Recreation Grant Program, a plan for off-highway vehicles (OHV) to use trails on the property. This plan is part of a State initiative to address a deficiency in outdoor recreational areas suitable for safe OHV use. In particular, the State is seeking a location proximate to Miami/South Florida where such use can take place without impacting dense urban areas.

The planning approach involves creating an outdoor recreation area that balances preservation of natural resources, such as the intact cypress heads, tree islands, and wet prairies, with recreational destinations and amenities such as trails for hiking, mountain biking and riding OHVs (Off-Highway Vehicles). Due to the swampy characteristics of the site, trails are necessary to allow the public to pass near the natural attractions, such as, lakes, cypress heads, and tree islands.

- Trails that adversely impact intact and sensitive natural areas will be removed and the area restored back to original conditions.
- Some existing trails will be stabilized, especially those located in previously disturbed fill pads around lakes or aligned on existing swamp buggy trails.
- Other existing trails that now interrupt sheet flow will be modified and stabilized in a manner more consistent with the topography and sheet flow of the natural area.

Trails will be buffered from sensitive natural areas to allow walkers, bikers, birdwatchers, mountain bikers, and OHV riders a view without degrading the natural resources. The proposed area is 1,608 acres and will allow for designated trails throughout the subject area. A Visitor’s Center building, approximately 2,200-2,400 square feet, is planned which will include an administrative area (small office room), orientation/education area, restrooms, electrical and a small meeting room (with media capability for training/orientation purposes). The parking for the facility may include a hard surface or paved with enough space for 80 cars and trucks with trailers; see **Appendix V.D.5b.1 - Conceptual Plan**.

Currently, the Miami-Dade County Park and Recreation Department seeks to transition this subject area closer to its natural state. This includes reducing the current impact of unregulated off-highway vehicle use and eliminating sport hunting throughout the subject area; see **Appendix V.D.5b.2 Existing Trails**. The Miami-Dade County Park and

Recreation Department has the resources to regulate and improve the area by stabilizing certain existing trails system so that off-highway vehicles do not further destroy this area. Once this recreational area is fully managed, it can serve as a regional resource for the residents of South Florida and its visitors.

Subsequent to the Growth Management Plan Amendment, (GMPA), and prior to any development of the site, the Miami-Dade County Park and Recreation Department will complete an environmental analysis as part of an area management plan along with a detailed parks plan. These plans will offer the opportunity for both Miami-Dade and Collier Counties to partner with State and Federal agencies to create and implement a comprehensive management plan that will be a benefit for the natural environs, users and the public.

Supporting Documents, pursuant to 9J-11.006 Submittal Requirements for Proposed Local Government Comprehensive Plan Amendments, F.A.C.: **See Appendices V.B.1 - Present FLUM, IV.D.1 Amended – FLUM, V.D.5b.2 – Existing Land Uses, V.A.1 – Location Map.**

Supporting Data and Analysis, pursuant to 9J-11.007 Data and Analysis Requirements for proposed Local Government Comprehensive Plan Amendments: The proposed future land use designation is based on the increasing demand from the citizens of Miami-Dade and Collier Counties for additional recreational uses. The Miami-Dade Park and Recreation Department has received multiple requests from citizens and local community organizations for outdoor recreational uses that includes fishing, archery, bird watching, mountain biking, hiking, camping and off-highway vehicle use. This is an excellent opportunity for Miami-Dade County to provide its citizens with these types of uses that the State has already demonstrated and reported to be deficient within the region; see **Appendix V.D.5b.3**. The State Comprehensive Outdoor Recreation Plan, as provided by the Department of Environmental Protection, Division of Recreation and Parks, clearly shows a lack of motorized trails in the South Florida region. The subject area for the proposed amendment is within Collier County; however, it is adjacent to the Miami-Dade County boundaries and offers an excellent opportunity to serve the residents of both jurisdictions due to its strategic location. There are approximately 54,000 OHV's registered within 100 miles of the subject area.

The Miami-Dade County Park and Recreation Department has received approximately three to five phone calls a month from citizens and organizations requesting a place for such uses described in the proposed amendment. In addition, there have been numerous OHV rallies, frequent e-mails, and other forms of public demand for OHV areas which are received by Miami-Dade County. Several OHV groups exist in Miami, and have large groups of riders to support this need. This has resulted in the Miami-Dade County Park and Recreation Department pursuing suitable and cost effective County owned sites for these uses. In further support for the increasing demand; see **Appendix V.D.5b.4** for a map representing the OHV Titled for 2002 – 2006. Miami-Dade County has a total of 12,842 titled OHV's from 2002 to 2008 and has the second highest number of titles in Florida. Collier County has 5,560 titled OHV's, Broward County has 12,543 titled OHV's which is the third highest in the State, Palm Beach has 11,464 titled OHV's which is the fourth highest in the State and

Lee County has 9,000 titled OHV's; see **Appendix V.D.5b.5** for the County Title Activities. The attached OHV Titled for 2002 – 2006 Map, depicting the graphic representation of the numerous OHV owners and potential park users in Miami-Dade County, as well as the number of title transactions in the adjacent counties, further demonstrates the need for the proposed request. To date, the subject area for the proposed amendment is the most cost feasible location to provide its citizens a recreational area for this type of use. This project will bring a level of resource management and enforce and protect visitor and facility security.

The following is a list of OHV organizations that create a demand for the proposed comprehensive plan amendment:

- AtvMiamiExtreme.com Enthusiast Group (Cary Hernandez, Javier Ortega, Leo Lopez)
- ATVFlorida.com Enthusiast Group (Jose Camps – Miami , Dennis Bolanos - Naples)
- ATV Safety Instructor (certified through the ATV Safety Institute) – Brooke Lynch
- M.E. Thompson Park Motocross Area, Steve Griff - Vendor, Manager
- Countyline Dragway - former Opa Locka West Airport is used for 1/8-mile drag racing)), Peter Scalzo – Vendor, Manager
- Family Riders Motorcycle Club of Perrine (Shakum)
- Florida Trail Riders (Gustavo Medina – Miami group)
- Thehumponline.com Enthusiast Group (Brooke Lynch, Marc Lane, Amy Collins, Robert Cote)
- 

#### Support:

There is wide spread support for the proposed amendment in both Miami-Dade and Collier Counties. Letters of support have been received from a variety of people and organizations including: The Everglades Coordinating Council; Miami-Dade County's Aviation Department (MDAD); Commissioner Jose Diaz, Vice Chairman of the Miami-Dade Board of County Commissioners; the Collier County Manager; and the National Off-Highway Vehicle Conservation Council; see **Appendix V.D.5b.6** for these letters of support.

In addition, Miami-Dade County is within the State Department of Highway Safety and Motor Vehicles (DHSMV) Region 4 geographical area, which was identified by the State OHV Advisory Committee as the highest need area for OHV trails and safety training areas.

#### Consistency and Compatibility with the Comprehensive Plan:

As part of the supporting data and analysis, the applicant is submitting the below objectives and policies from the Collier County Comprehensive Plan. These objectives and policies support the proposed **DADE-COLLIER CYPRESS RECREATION AREA SUB-DISTRICT** and indicate a consistency with the proposed amendment.

#### Future Land Use Element:

##### **(XV) Policy 3.1(b):**

The [Land Development Code] (LDC) contains provisions that protect environmentally sensitive lands and provide for the retention of open space. This has been accomplished;

through the implementation of various zoning districts and zoning overlays that restrict higher intensity land uses in the Rural Fringe Mixed Use District and, which require specific land development standards for the remaining allowable land uses; through the adoption of permanent Natural Resource Protection Area (RRPA) Overlays; integration of State of Florida Big Cypress Area of Critical State Concern regulations into the LDC, and, in part, through implementation of the Rural Lands Stewardship Overlay. This has also been accomplished through the implementation of regulations such as minimum open space requirements, native vegetation preservation requirements, and/or through the creation of incentives that encourage the use of creative land use planning techniques and innovative approaches to development in the County's Agricultural/Rural Designated Area.

**Objective 4:**

In order to improve coordination of land uses with natural and historic resources, public facilities, economic development, housing and urban design, the Future Land Use Element shall be continually refined through detailed planning. Future studies might address specific geographic or issue areas. All future studies must be consistent with the Growth Management Plan and further its intent.

**Recreation and Open Space Element:**

**(II) = Plan Amendment adopted on January 25, 2007 Ordinance No. 2007-15**

**(II)(III) Policy 1.4.2:**

Collier County shall continue to coordinate the provision of recreational facilities and activities with other governmental jurisdictions that own or operate such facilities and activities within, or adjacent to, Collier County. Said governmental entities shall include, but not necessarily be limited to:

**(II)** U.S. Department of Commerce, the National Oceanic and Atmospheric Administration

U.S. Department of the Interior, the National Park Service

The Florida Department of Environmental Protection, Division of Recreation and Parks

Florida Department of Agriculture and Consumer Services, Division of Forestry

Lee County, Florida

Hendry County, Florida

Broward County, Florida

**(III)** Miami-Dade County, Florida

Monroe County, Florida

The South Florida Water Management District, Big Cypress Basin Board

The Collier County School Board

The City of Naples, Florida

The City of Marco Island, Florida

Everglades City, Florida

The City of Bonita Springs, Florida

**Recreation and Open Space Element Level-of-Service:**

The following is the level-of-service standard for Collier County's Recreation and Open Space. The proposed amendment to the Future Land Use Element will further enhance the recreational level-of-service standard to provide additional recreational acreage for Collier County's citizens.

**(II) Policy 1.1.1:**

Collier County hereby adopts the following level of service standards for facilities and land owned by the County or available to the general public:

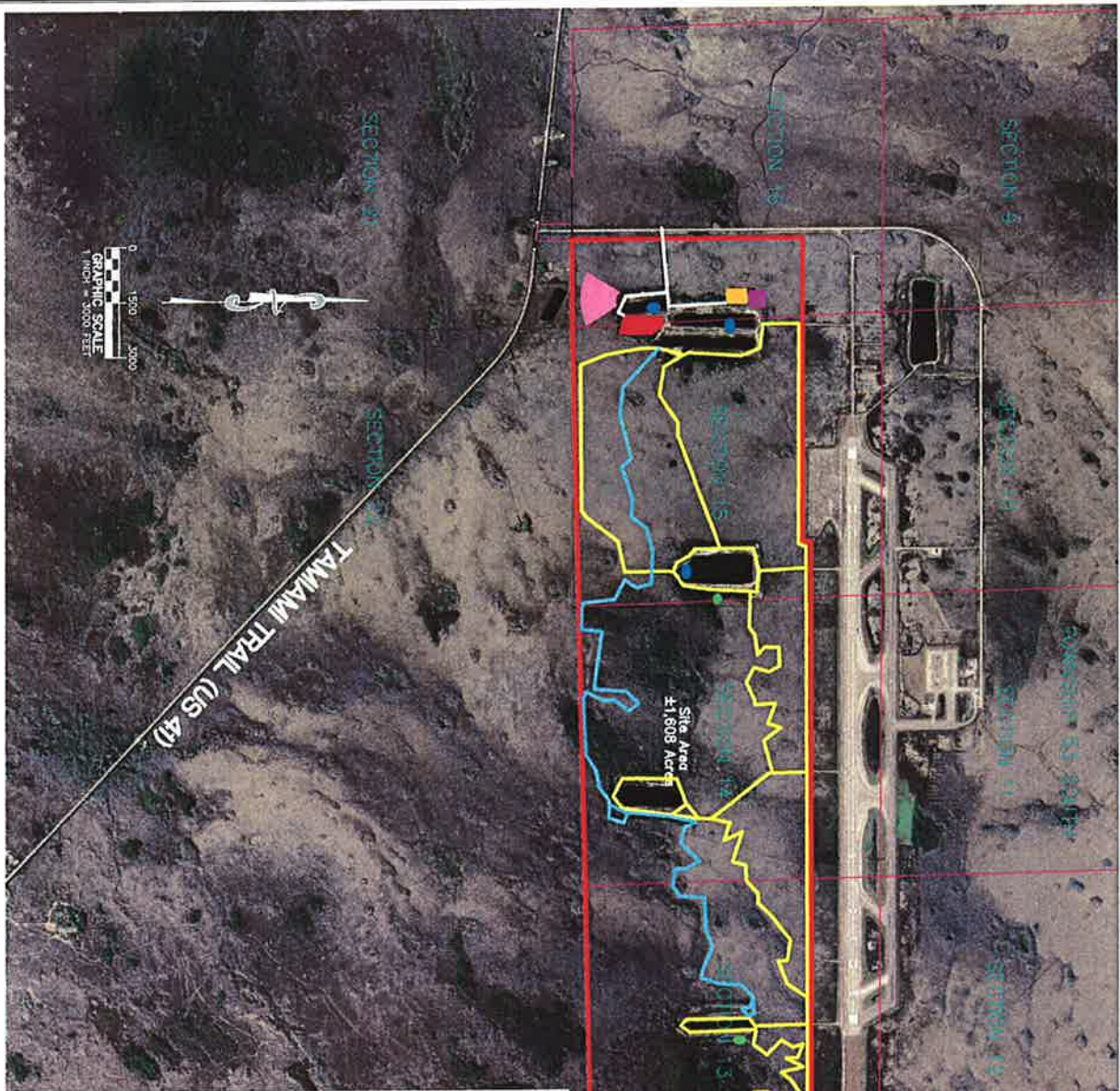
**Level of Service Standard:**

**(II) A.** 1.2882 acres of community park land/1,000 population (unincorporated)

**(II) B.** 2.9412 acres of regional park land/1,000 population



**APPENDIX V.D.5B.1  
CONCEPTUAL DIAGRAM**



- LEGEND:**
- Visitor's Center Building (approximate 2200-2400 SF, size of typical MDPFR field center), which includes:
    - Administrative area (small office room)
    - Orientation area
    - Restrooms
    - Electrical
    - Small meeting room (with media capability for training/orientation purposes)
  - Parking: hard surface or paved
    - Enough space for 80 cars (remember that OHV riders often travel in large trucks towing trailers - will need a number of the spaces to be 40-50 foot long - need wide turning radiuses)
  - Camping: primitive and RV (but with minimal offerings - not for extended stay/luxury RV camping)
  - Fishing: piers or docks (not boat ramps)
  - Off-highway vehicle trails (stabilized trails - at grade) for ATVs and Off-Highway Motorcycles/dirtbikes (beginner trails to west, advanced to east)
  - Multi-use trails (for hikers and bikers, stabilized)
  - Existing Access
  - Wildlife viewing opportunities (could be a platform or overlook, or simply a cypress dome or tree island visible at a distance from trails)
  - Archery Range

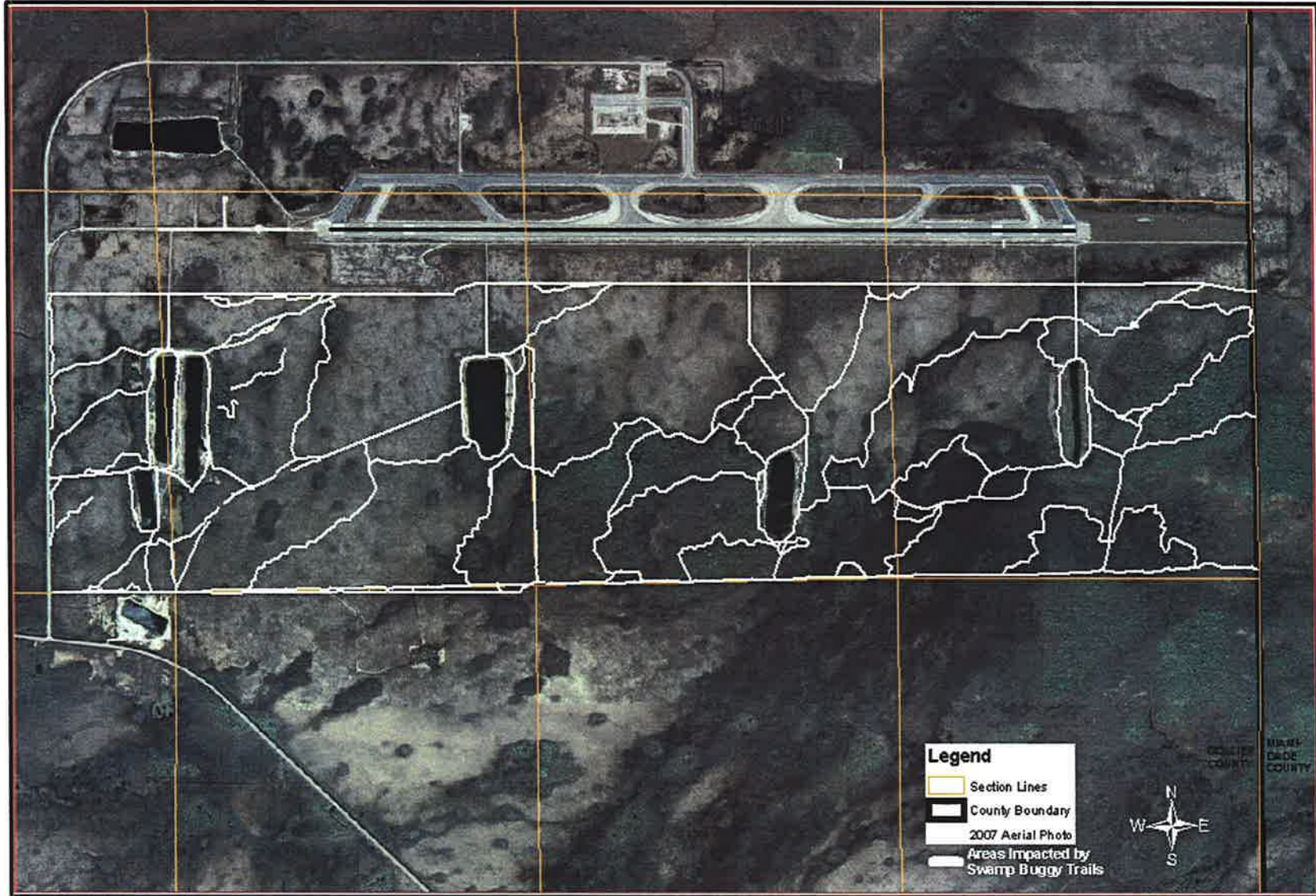
APPENDIX V.D.5b.1 - CONCEPTUAL DIAGRAM

<p>09-00063</p> <p>V.D.5b.1</p> <p>3/21/09</p>	<p><b>MILLER LEGG</b></p> <p>South Florida Office 1800 North Douglas Road - Suite 200                  Parkways Park, Florida - 32924-2000                  904-426-7200 Fax 904-426-9844                  www.millerlegg.com</p>	<p><b>DADE-COLLIER CYPRESS PRESERVE RECREATION AREA</b></p> <p><b>COLLIER COUNTY, FLORIDA</b></p> <p><b>FOR: MIAMI-DADE COUNTY</b></p>	
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**APPENDIX V.D.5B.2**  
**EXISTING TRAIL CONDITIONS**



# DADE-COLLIER CYPRESS RECREATION AREA EXISTING CONDITIONS - TRAIL IMPACTS IN 2007



V.D.5b.2 - EXISTING TRAIL CONDITIONS

**APPENDIX V.D.5B.3  
STATE COMPREHENSIVE  
OUTDOOR RECREATION PLAN**

**TABLE 5.21**  
**1998 OUTDOOR RECREATION RESOURCES AND FACILITIES BY MAJOR SUPPLIER**  
**SOUTH FLORIDA (REGION 11)**

RESOURCE/FACILITY	UNITS	FEDERAL	STATE	COUNTY	MUNICIPAL	NON-GOVERNMENT	TOTAL
Outdoor Recreation Areas	Areas	42	82	418	1,014	524	2,080
Land Area	Acres	1,100,940.85	678,573.99	18,195.65	9,557.32	24,095.43	1,831,363.24
Water Area	Acres	1,135,700.15	68,376.97	1,024.96	436.06	1,574.16	1,207,112.30
Total Area	Acres	2,236,641.00	746,950.96	19,220.61	9,993.38	25,669.59	3,038,475.54
<b>RESOURCE BASED</b>							
Cabins	Cabins	53	26	17	0	292	388
Tent Sites	Sites	209	98	86	29	659	1,081
RV Sites	Sites	567	175	532	300	9,029	10,603
Commemorative Structures		0	5	2	28	1	36
Historic Sites	Sites	2	24	25	22	20	93
Museums		10	7	18	6	23	64
Picnic Tables	Tables	391	1,584	2,441	3,184	6,847	14,447
Hunting Land	Acres	204,690.00	664,883.20	0.00	0.00	0.00	869,573.20
Hunting Water	Acres	0.00	1,578.10	0.00	0.00	0.00	1,578.10
Hunting Area	Acres	204,690.00	666,461.30	0.00	0.00	0.00	871,151.30
Bike Trails (Paved)	Miles	52.00	3.30	83.90	185.90	2.80	327.90
Bike Trails (Unpaved)	Miles	18.20	16.90	9.00	8.80	1.00	53.90
Canoe Trails	Miles	184.80	41.70	7.50	12.00	50.00	296.00
Hiking Trails	Miles	119.10	53.80	6.90	93.90	3.90	277.60
Horseback Trails	Miles	0.00	0.00	17.50	50.00	24.00	91.50
Jogging Trails	Miles	1.50	3.80	49.40	78.50	9.10	142.30
Motorcycle Trails	Miles	0.00	0.00	0.00	0.00	0.00	0.00
Nature Trails	Miles	16.90	10.80	49.80	21.20	8.20	106.90
Freshwater Beach	Miles	0.07	0.00	0.64	0.54	1.05	2.29
Freshwater Beach Area	Square Feet	10,350.00	0.00	295,700.00	3,543,750.00	112,600.00	3,962,400.00
Freshwater Beaches	Beaches	1	0	8	2	22	33
Freshwater Boat Ramp Lanes	Lanes	4	70	20	129	12	235
Freshwater Boat Ramps	Ramps	4	60	19	25	6	114
Freshwater Catwalk	Feet	0.00	80.00	1,720.00	3,183.00	215.00	5,198.00
Freshwater Catwalks	Catwalks	0	1	7	27	5	40
Freshwater Jetties	Jetties	0	42	1,560	3,125	0	4,727
Freshwater Marina Dry Storage	Boats	0	0	0	0	155	155
Freshwater Marina Slips	Slips	0	0	3	0	300	303
Freshwater Marinas	Marinas	0	0	0	0	6	6
Freshwater Piers	Piers	0	0	8	13	1	22
Saltwater Beach	Miles	16.18	10.60	5.19	24.91	10.40	67.28
Saltwater Beach Area	Square Feet	1,717,500.00	2,893,400.00	4,090,250.00	20,275,890.00	3,050,955.00	32,027,995.00
Saltwater Beaches	Beaches	10	14	14	180	57	275
Saltwater Boat Ramp Lanes	Lanes	13	18	81	75	130	317
Saltwater Boat Ramps	Ramps	8	12	44	45	175	284
Saltwater Catwalk	Feet	700.00	0.00	5,578.00	82,022.00	19,730.00	108,030.00
Saltwater Catwalks	Catwalks	3	0	9	16	42	70
Saltwater Jetty	Feet	9,000	920	9,895	1,367	1,404	22,586
Saltwater Marina Dry Storage	Boats	0	0	503	0	9,811	10,314
Saltwater Marina Slips	Slips	222	66	1,015	995	12,172	14,470
Saltwater Marinas	Marinas	6	4	8	13	335	366
Saltwater Piers	Piers	2	9	2	9	54	76
<b>USER-ORIENTED</b>							
Baseball Fields	Fields	4	11	173	496	23	707
Basketball Goals	Goals	17	8	432	902	117	1,476
Equipped Play Areas	Areas	6	5	181	498	45	735
Football Fields	Fields	2	10	66	226	17	321
Golf Courses (18 hole)	Courses	0	0	3	10	89	102
Golf Courses (9 hole)	Courses	0	0	3	2	11	16
Golf Courses (Executive)	Courses	0	0	0	3	23	26
Golf Courses (Total)	Courses	0	0	6	15	123	144
Multi-use Courts	Courts	1	0	25	64	19	109
Multi-use Fields	Fields	3	11	89	140	20	263
Pools	Pools	2	6	26	77	257	368
Racquetball Courts	Courts	3	40	99	326	72	540
Recreation Centers	Centers	4	5	110	216	118	453
Shuffleboard Courts	Courts	0	0	85	265	191	541
Tennis Courts	Courts	14	57	274	814	958	2,117
Volleyball Courts	Courts	0	1	26	19	0	46

TABLE 5.22  
ESTIMATED DEMAND AND NEED FOR OUTDOOR RECREATION RESOURCES AND FACILITIES  
SOUTH FLORIDA (REGION 11)

RECREATIONAL ACTIVITY	1997			2000			2005			2010		
	Demand (User Occasions)	Resource Needs	Units	Demand (User Occasions)	Resource Needs	Units	Demand (User Occasions)	Resource Needs	Units	Demand (User Occasions)	Resource Needs	Units
<b>RESOURCE-BASED</b>												
Archaeologic/Historic Site	3,145,775	0 sites		3,373,713	0 sites		3,750,011	0 sites		4,120,126	0 sites	
Bicycle Riding	19,654,556	1,241.32 miles		20,710,755	1,328.55 miles		22,432,994	1,470.77 miles		24,089,784	1,607.60 miles	
Camping(RV/Trailer)	2,203,445	0 sites		2,339,420	0 sites		2,562,521	0 sites		2,779,565	0 sites	
Camping(Tent)	888,761	10 sites		947,134	82 sites		1,043,150	201 sites		1,136,981	317 sites	
Freshwater Beach Activities	1,408,384	1.01 miles		1,468,050	1.15 miles		1,564,085	1.38 miles		1,654,262	1.59 miles	
Freshwater Boat Ramp Use	147,616	0 lanes		160,036	0 lanes		180,639	0 lanes		201,078	0 lanes	
Freshwater Fishing <sup>1</sup>	774,929	8,355.69 feet		810,849	9,245.60 feet		868,971	10,685.56 feet		924,095	12,051.24 feet	
Hiking	1,282,041	251.77 miles		1,373,519	289.54 miles		1,524,454	351.87 miles		1,672,767	413.11 miles	
Horseback Riding	1,780,575	0.00 miles		1,877,923	0.00 miles		2,036,790	0.00 miles		2,189,849	0.00 miles	
Hunting	663,841	79,348.70 acres		690,431	117,421.07 acres		733,076	178,480.96 acres		772,849	235,427.65 acres	
Nature Study	1,456,739	0.00 miles		1,580,150	0.00 miles		1,784,927	0.00 miles		1,988,143	0.00 miles	
Picnicking	3,865,010	0 tables		4,161,882	0 tables		4,652,960	0 tables		5,137,669	0 tables	
Saltwater Beach Activities	32,119,905	8.07 miles		34,914,886	14.62 miles		39,556,285	25.51 miles		44,168,645	36.33 miles	
Saltwater Boat Ramp Use	1,296,686	0 lanes		1,372,483	0 lanes		1,496,558	0 lanes		1,616,760	0 lanes	
Saltwater Fishing <sup>1</sup>	1,957,858	0.00 feet		2,116,524	0.00 feet		2,379,441	0.00 feet		2,639,736	0.00 feet	
<b>USER-ORIENTED</b>												
Basketball	2,081,984	0 courts		2,166,463	0 courts		2,302,063	0 courts		2,428,732	0 courts	
Football/Soccer	1,674,962	0 fields		1,746,391	0 fields		1,861,404	0 fields		1,969,484	0 fields	
Golfing <sup>2</sup>	4,949,664	0 courses		5,335,523	0 courses		5,974,114	0 courses		6,604,961	0 courses	
Handball/Racquetball	1,907,699	0 courts		1,997,126	0 courts		2,141,917	0 courts		2,279,402	0 courts	
Shuffleboard	1,254,970	0 courts		1,354,039	0 courts		1,518,063	0 courts		1,680,214	0 courts	
Softball/Baseball	1,375,585	0 fields		1,452,374	0 fields		1,577,810	0 fields		1,698,875	0 fields	
Swimming Pool Use <sup>3</sup>	27,708,848	162 pools		29,873,857	204 pools		33,457,180	274 pools		36,997,510	342 pools	
Tennis	2,493,639	0 courts		2,682,442	0 courts		2,994,606	0 courts		3,302,460	0 courts	

<sup>1</sup> Boat fishing not included in table

<sup>2</sup> Includes 9-hole and 18-hole courses

<sup>3</sup> 4800-square foot minimum

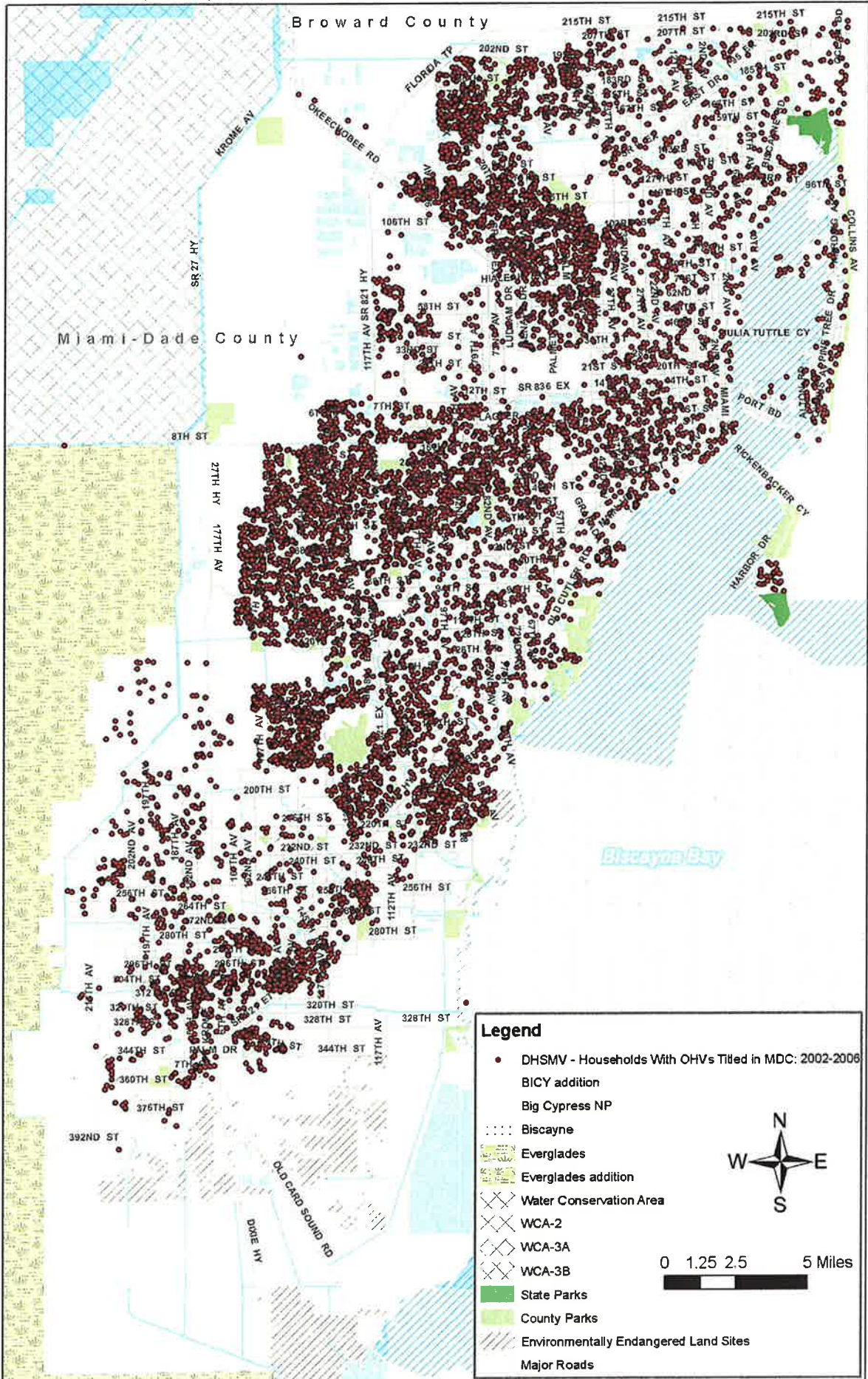
APPENDIX V.D.5B.4  
OHV TITLED FOR 2002 - 2006





# OFF-HIGHWAY VEHICLES TITLED FOR 2002-2006

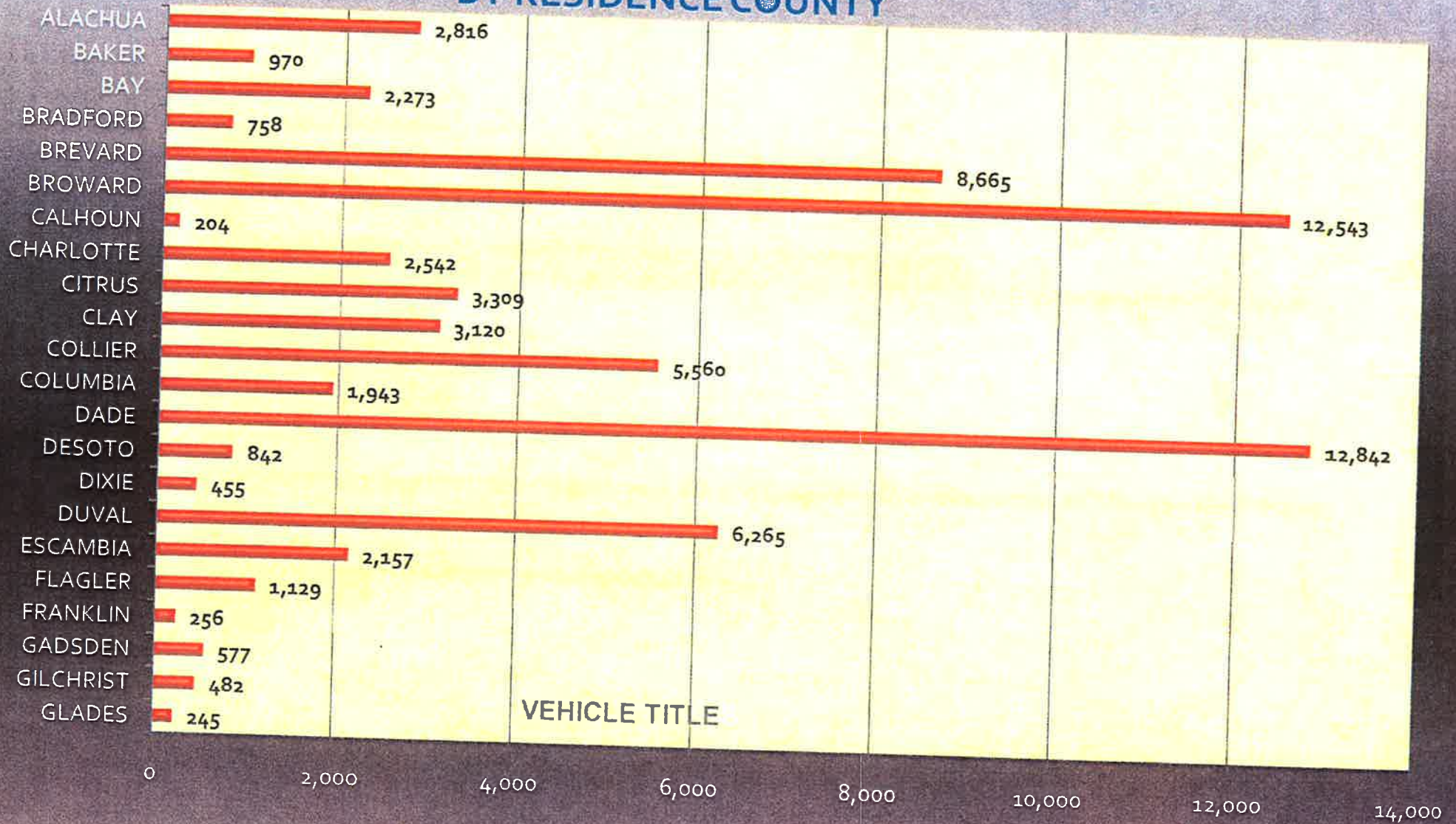
PLANNING & RESEARCH DIVISION  
PARK AND RECREATION DEPARTMENT  
JULY 2007 OHV\_MDC.mxd  
SOURCE Department of Highway Safety & Motor Vehicles (DHSMV)



**APPENDIX V.D.5B.5  
COUNTY TITLE ACTIVITIES**

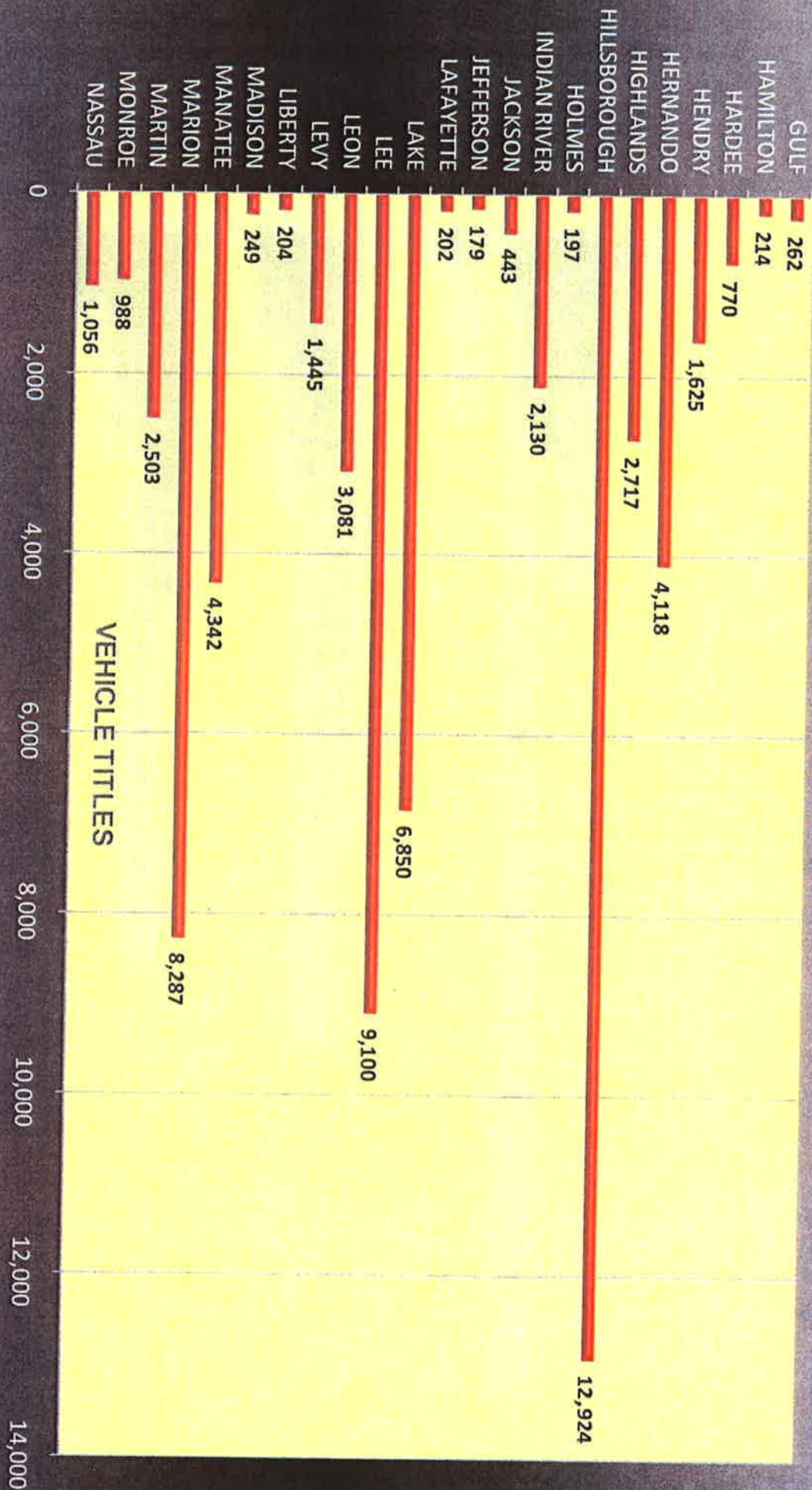
# County Title Activity 6/30/02 - 12/31/2008

## TITLE TRANSACTIONS FOR OFF HIGHWAY VEHICLES BY RESIDENCE COUNTY



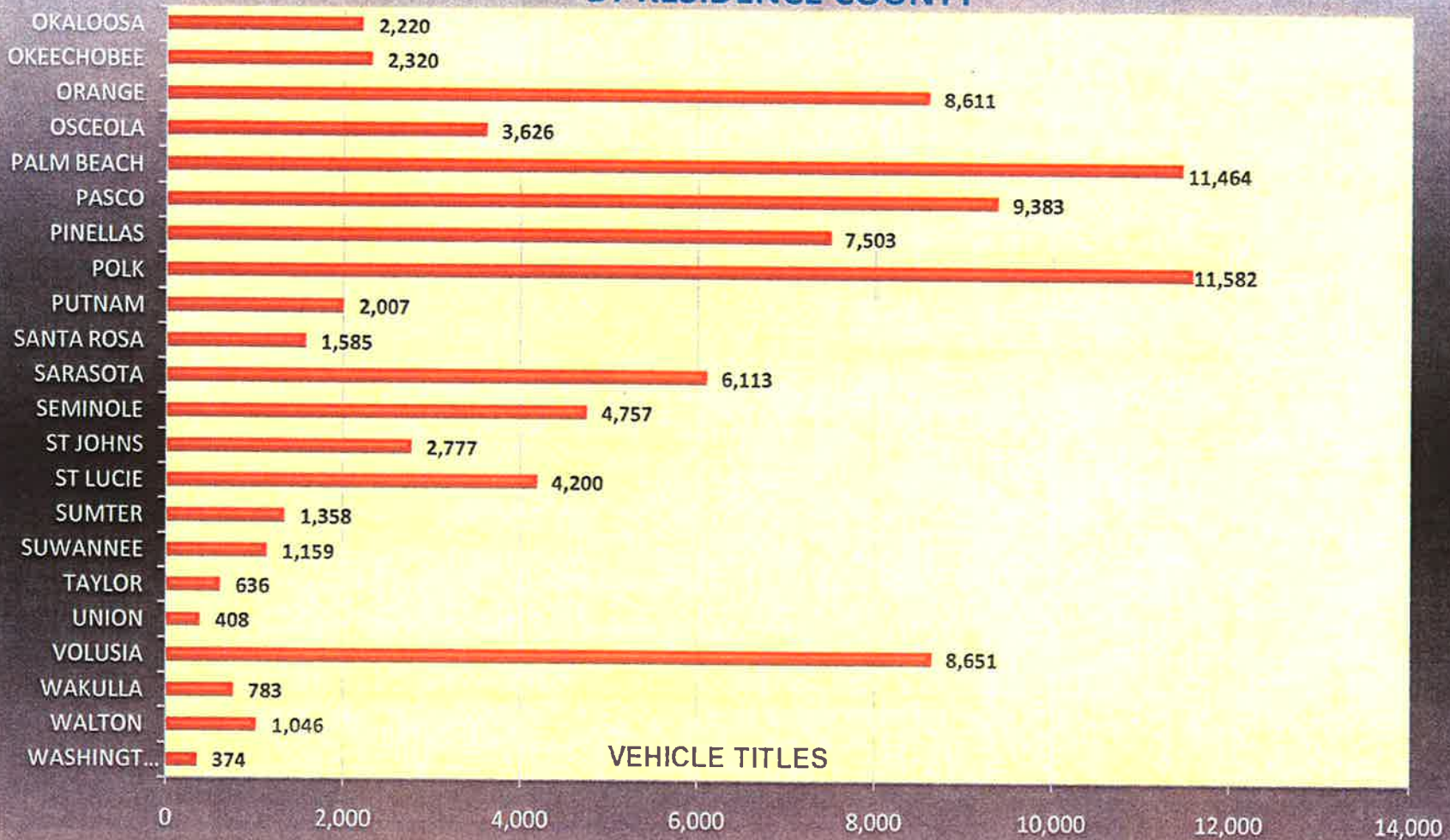
# County Title Activity 6/30/02 - 12/31/2008

## TITLE TRANSACTIONS FOR OFF HIGHWAY VEHICLES BY RESIDENCE COUNTY



# County Title Activity 6/30/02 - 12/31/2008

## TITLE TRANSACTIONS FOR OFF HIGHWAY VEHICLES BY RESIDENCE COUNTY



**APPENDIX V.D.5B.6  
LETTERS OF SUPPORT**

Everglades Coordinating Council  
22951 SW 190 Ave.  
Miami, FL 33170

October 11, 2005

Florida Department of Agriculture and Consumer Services  
T. Mark Schmidt Off-Highway Vehicle Recreation Grant Program  
407 South Calhoun Street – Mayo Building, Room SB-8  
Tallahassee, FL 32399-0800

Re: Off-highway Recreation Site

To Whom It May Concern:

The Everglades Coordinating Council (ECC) delegates agree and support enthusiastically Miami Dade County Park and Recreation Department's request for funding from Fl. Dept of Agriculture and Consumer Services, Div. of Forestry, for a study of potential sites in Miami-Dade County for future location of an off-highway vehicle recreation site.

Miami-Dade is in great need of a structured OHV area for our citizens to enjoy as well as others from outside our county. As vice president of the Everglades Coordinating Council and speaking on behalf of our many organizational delegates, I am totally optimistic and looking forward to the positive effects a future OHV site will bring to Miami-Dade County and our fellow citizens. Organizing this "Active" style OHV use will greatly assist in removing it from un-authorized areas that the activity sometimes occurs in.

Being in an organization that advocates and supports everyone enjoying all of Florida's rich outdoor recreational opportunities, we wholeheartedly endorse this project and urge the powers that be to also lend their support.

If you have any questions please do not hesitate to contact me at 305-588-9910.

Sincerely,

Albert Bryan  
Vice President  
Everglades Coordinating Council



Commercial Airport:  
Miami International Airport

General Aviation Airports:  
Dade-Collier Training & Transition  
Homestead General  
Kendall-Tamiami Executive  
Opa-locka  
Opa-locka West

March 12, 2009

To Whom It May Concern  
Florida Department of Agriculture and Consumer Services  
T. Mark Schmidt Off-Highway Vehicle Recreation Grant Program  
407 South Calhoun Street – Mayo Building, Room SB-8  
Tallahassee, FL 32399-0800

Dear Sir/Madam:

The Miami-Dade County's Aviation Department (MDAD) owns and operates the Dade-Collier Training and Transition (TNT) Airport. TNT is comprised of over 24,000 acres located north of U.S. Highway 41/Tamiami Trail. The operating airport consumes 8,000 acres and is surrounded by 16,000 acres of wetland marsh prairie, cypress tree islands, and man-made lakes. MDAD was approached in 2007 by the Park and Recreation Department (MDPR) to find a location for trails for off-highway vehicles (OHVs).

The Aviation Department is nearly finished with a study that is recommending the highest and best uses for the 18,000 acres of property for revenue generation and resource conservation. The Aviation Department is amenable to OHV recreation as a potential activity in the approximate 1,450 acres of previously disturbed land south of the airport. In 2009 MDAD and MDPR executed a Memorandum of Agreement, and have since worked jointly on the planning and design of an OHV trail area south of the airport.

Therefore, MDAD supports MDPR in their grant request for planning work that leads to land use approvals and environmental permitting for OHV trails at TNT. This site appears to have the potential to support a regional OHV recreation area that will attract riders from all over South Florida.

Sincerely,  
  
Gregory C. Owens  
Division Director, Real Estate Mgmt & Development

**Miami-Dade Aviation Department**  
P.O. Box 025504  
Miami, Florida 33102-5504  
T 305-876-7000 F 305-876-0948  
www.miami-airport.com

[miamidade.gov](http://miamidade.gov)





*Jose "Pepe" Diaz*  
COMMISSIONER

*Board of County Commissioners*  
MIAMI-DADE COUNTY - FLORIDA

DISTRICT 12  
111 N. W. FIRST STREET  
MIAMI, FLORIDA 33128-1963  
(305) 375-4343  
FAX (305) 372-6109  
E-MAIL: JPdiaz@miamidade.gov

March 12, 2009

Florida Department of Agriculture and Consumer Services  
T. Mark Schmidt Off-Highway Vehicle Recreation Grant Program  
407 South Calhoun Street - Mayo Building, Room SB-8  
Tallahassee, FL 32399-0800

To Whom It May Concern:

I proudly support the Miami-Dade County Park and Recreation Department in their grant request for funding for planning work that leads to land use approvals and environmental permits for off-highway vehicle trails at the Dade-Collier Training and Transition (TNT) Airport. Miami has a great need for off-highway vehicle recreational trails and riding areas. I have been approached by mothers and fathers who want a safe place for their children to ride ATVs and dirt bikes. There have simply been too many people injured in OHV accidents along roadways in the county, and we are working toward a solution to the problem.

I am working closely with my colleague, Honorable Jim Colletta, Collier County Commissioner to coordinate of planning and design of OHV trails at TNT that will benefit residents of both counties. Due to the importance of this project, I brought Collier and Miami-Dade County administrators and environmental regulatory agencies together and discussed the need to expedite this project. Our agency partners in this project include Big Cypress National Preserve, South Florida Water Management District, US Army Corps of Engineers, US Fish and Wildlife Service, Florida Fish and Wildlife Conservation Commission, just to name a few.

Again, I extend my support to Park and Recreation in their grant request for planning work that leads to land use approvals and environmental permitting for OHV trails at TNT. This site can provide a safe place for children and adults to ride ATVs and dirt bikes, with designated trails and a family-oriented atmosphere. I underscore the importance of a regional OHV trail area for residents of South Florida, and urge the Committee to support this grant request.

Sincerely,

  
Jose 'Pepe' Diaz  
Vice-Chairman  
Miami Dade Board of County Commission



## COLLIER COUNTY OFFICE OF THE COUNTY MANAGER

3301 East Tamiami Trail • Naples, Florida 34112 • (239) 252-8383 • FAX: (239) 252-4010

March 12, 2009

Florida Department of Agriculture and Consumer Services  
T. Mark Schmidt Off-Highway Vehicle Recreation Grant Program  
407 South Calhoun Street – Mayo Building, Room SB-8  
Tallahassee, Florida 32399-0800

To Whom It May Concern:

Please consider this letter of support for Miami Dade County Park and Recreation on their grant application for the T. Mark Schmidt Off-Highway Vehicle Recreation Grant Program. This application will provide necessary funding for planning work that leads to land use approvals and environmental permits for off-highway vehicle trails at the Dade-Collier Training and Transition (TNT) Airport located in Dade and Collier Counties. Currently, there is no public land available for OHV trails, or all-terrain vehicle use within Miami-Dade County and in Collier County. Land available for such use is not readily accessible due to the cost of land; difficulty in finding land that is not considered environmentally sensitive and some lands require special permitting.

At the request of Collier County Commissioner Jim Coletta, Miami-Dade County Aviation and Park and Recreation staff made a presentation to the Board on the proposed use of OHV trails at TNT. Collier County Commission directed staff to continue to work with Miami-Dade in planning, design, and permitting of OHV facilities. The next step is to apply for land use approval for the site. Supporting the request of Miami Dade County Park and Recreation will allow them to continue work toward developing OHV trails at the TNT site for use by both counties' residents.

Again, I extend my support to Miami-Dade County Park and Recreation in their grant request for planning work that leads to land use approvals and environmental permitting for OHV trails at TNT. This site can provide a safe place for children and adults to ride ATVs and dirt-bikes, with designated trails and a family-oriented atmosphere. I underscore the importance of a regional OHV trail area for residents of South Florida, and urge the Committee to support this grant request.

Sincerely,

James V. Mudd, County Manager  
Collier County Government



October 17, 2005

[fouche@miamidade.gov](mailto:fouche@miamidade.gov)

The National Off-Highway Vehicle Conservation Council (NOHVCC) is a publicly supported, non-profit, education foundation organized for the purpose of promoting safe, responsible, family-oriented off-highway recreational experiences. We are a forum for organizations and supporters of OHV recreation, including enthusiasts, clubs, associations, OHV manufacturers, aftermarket suppliers, OHV dealers, and affiliated foundations, to become partners in creating a positive future for the sport.

NOHVCC supports the development of OHV recreation parks and riding areas that are designed, constructed, operated and maintained in accordance with the guidelines contained in the OHV Park manual written by George Fogg. Copies of this document can be ordered from our Wisconsin office.

NOHVCC recognizes the need for public OHV recreation opportunities in southeast Florida, and supports the development of a properly designed and managed OHV park in Miami-Dade County.

If we can provide additional information or support, please contact us.

Sincerely,

Russ Ehnes  
Executive Director

**National Off-Highway Vehicle Conservation Council**  
4718 South Taylor Drive  
Sheboygan, WI 53081  
Phone: 800-348-6487/Fax: 920-458-3446/Email: [Trailhead@nohvcc.org](mailto:Trailhead@nohvcc.org)

**APPENDIX V.E.1A  
POTABLE WATER**

## **Appendix V.E.1.a) Potable Water**

### **Existing Level of Service Standard (LOSS):**

The Collier County Growth Management Plan – Public Facilities Element (Potable Water Sub-element) establishes the following Potable Water LOSS:

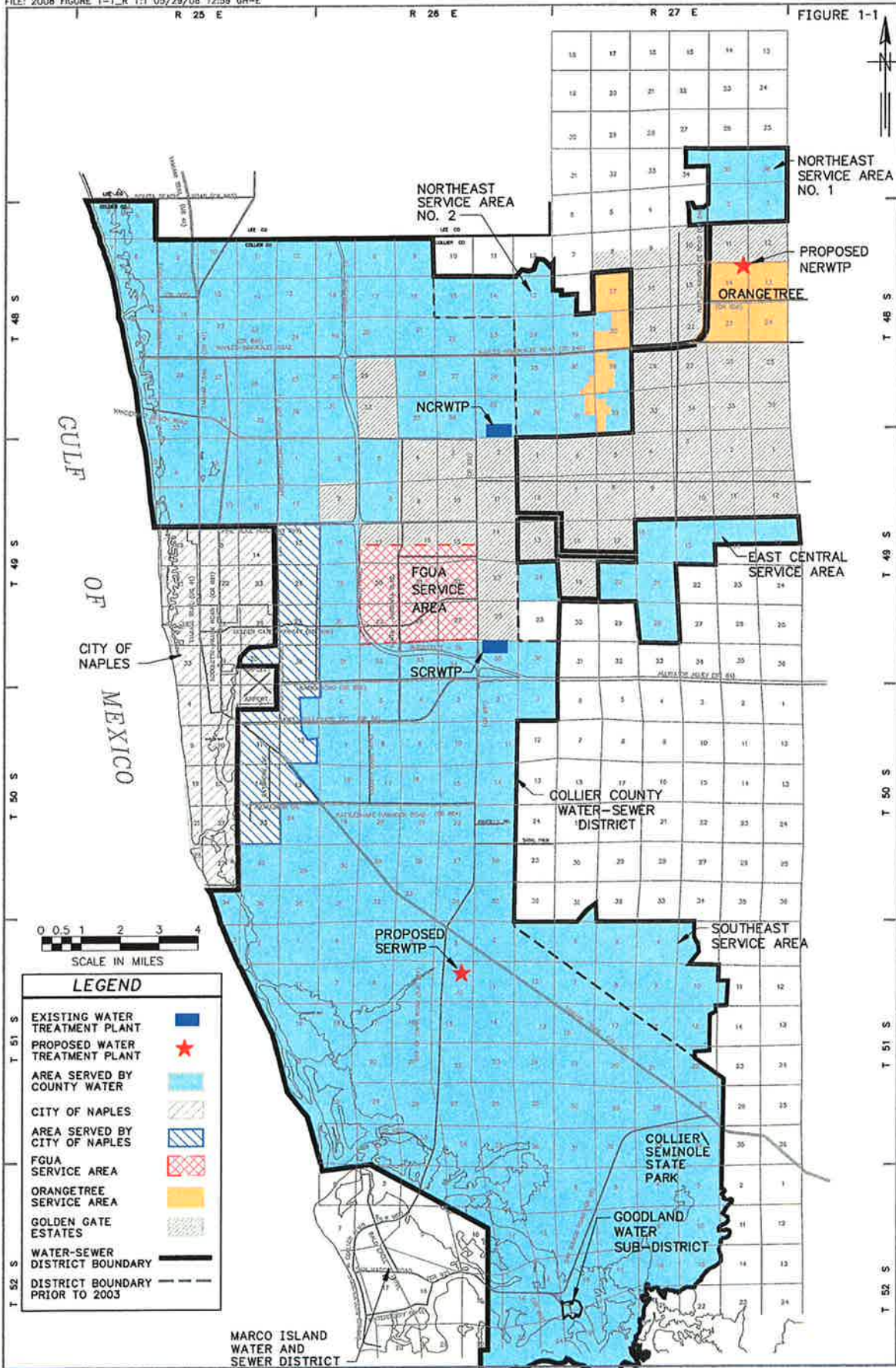
1. For the Collier County Water and Sewer District, the LOS is **185 GPCD** (gallons per capita per day)
2. For the Goodland Water District, the LOS is **163 GPCD**.
3. For the City of Naples unincorporated service area, the LOS is **163 GPCD**.
4. For the Everglades City unincorporated service area, the LOS is **163 GPCD**.
5. For independent districts and private potable water systems, the LOS is the sewage flow design standards as identified in Policy 1.3.1 of the Potable Water Sub-Element of the GMP, except that approved private wells are exempt from these LOS requirements.

### **Proposed Improvements:**

The proposed Dade-Collier Cypress Recreation Area (The Project) contemplates the following development characteristics:

- a. New Visitor's Center Building (approximate 2200-2400 SF) to include, Administrative area (small office room), Orientation area, Restrooms and small meeting room (with media capability for training/orientation purposes)
- b. New Parking Lot for 80 vehicles.
- c. Camping: primitive and RV (but with minimal offerings – not for extended stay/luxury RV camping)
- d. Fishing: piers or docks.
- e. Off-highway vehicle trails (at grade) for Off-Highway Vehicles (OHV) use.
- f. Multi-use trails (for hikers and bikers)
- g. Wildlife viewing opportunities (could be a platform or overlook, or simply a cypress dome or tree island visible at a distance from trails)
- h. Archery Range.

Review of the Collier County “10-Year Water Supply Facilities Work Plan”, The 2008 Water Master Plan Update” and the “2008 Annual Update and Inventory Report (AUIR) on Public Facilities” indicate that the proposed development is well outside the existing and future Collier County Water Service Area as depicted in **Figure PW-1** and will not impact the capacity of the existing public water distribution/transmission and treatment system; thus exempt from the above listed LOS requirements. Given the remoteness of the project site from public water distribution/transmission facilities, potable water and site fire protection for the new development will consist of onsite well(s) with approved purification system(s) designed, permitted constructed, monitored and maintained in conformance with county/state health department standards, the National Fire Protection Association and South Florida Water Management District (SFWMD) Water Use Permit(s) general and special conditions.



**EXISTING AND FUTURE  
WATER SERVICE AREAS**

COLLIER COUNTY GOVERNMENT  
PUBLIC UTILITIES DIVISION  
2008 WATER MASTER PLAN UPDATE  
24 JUNE 2008

**APPENDIX V.E.1B**  
**SANITARY SEWER LOSS**

## **Appendix V.E.1.b) Sanitary Sewer**

### **Existing Level of Service Standard (LOSS):**

Per Collier County Growth Management Plan – Public Facilities Element (Sanitary Sewer Sub-element) establishes the following LOSS:

- a. The North Sewer Area is 145 GPCD.
- b. The South Sewer Area is 100 GPCD.
- c. The City of Naples unincorporated sewer service area is 121 GPCD.
- d. Independent districts and private sanitary sewer systems is the sewage flow design standards identified in Policy 1.2.1 of the Sanitary Sewer Sub-Element of the GMP, as required by the State of Florida.
- e. Approved private septic systems are exempt from these LOS requirements.

### **Proposed Improvements:**

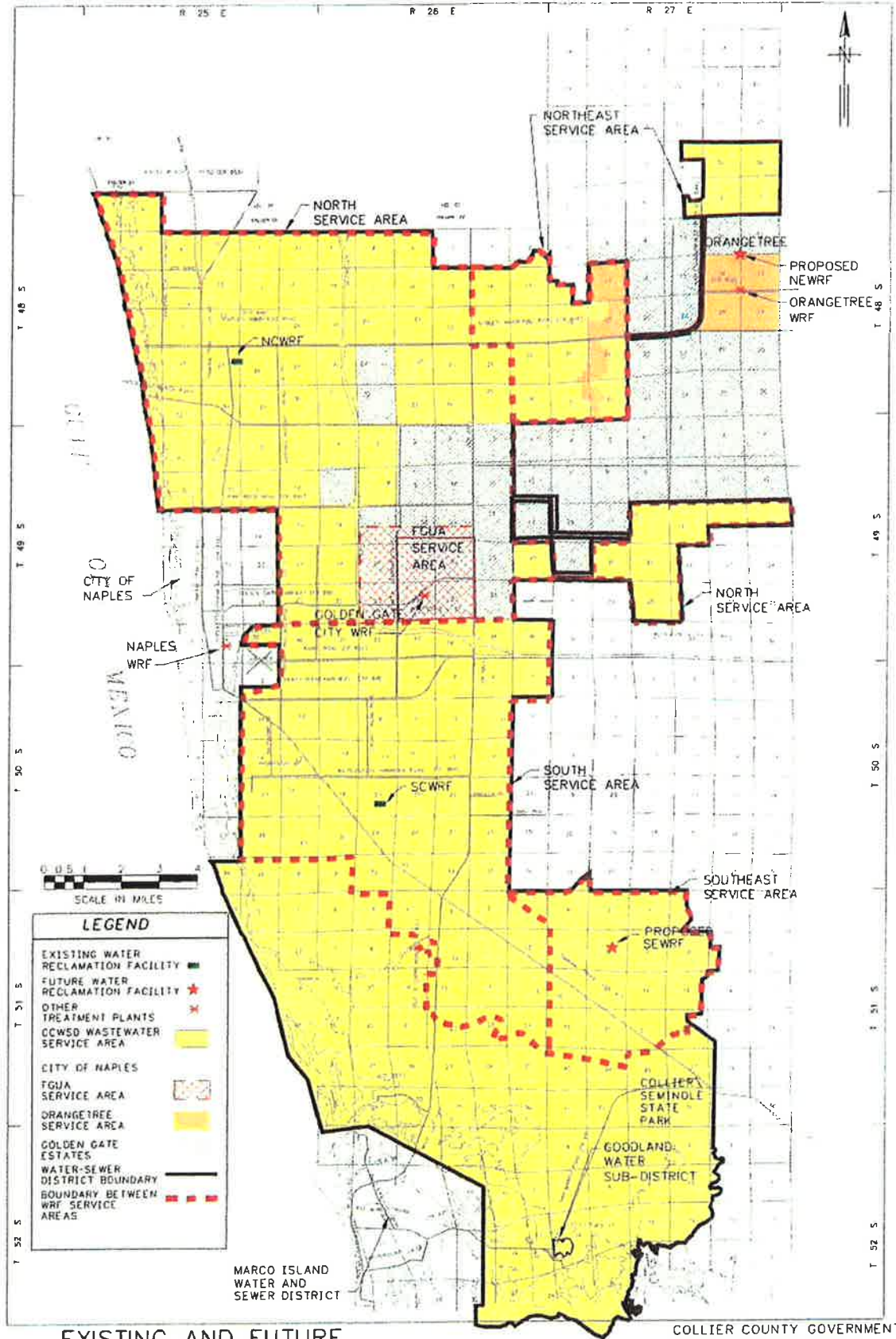
The new project contemplates the following development characteristics:

- a. New Visitor's Center Building (approximate 2200-2400 SF) to include, Administrative area (small office room), Orientation area, Restrooms and small meeting room (with media capability for training/orientation purposes)
- b. New Parking Lot for 80 vehicles.
- c. Camping: primitive and RV (but with minimal offerings – not for extended stay/luxury RV camping)
- d. Fishing: piers or docks.
- e. Off-highway vehicle trails (stabilized trails – at grade) for Off-Highway Vehicles (OHV)
- f. Multi-use trails (for hikers and bikers)
- g. Wildlife viewing opportunities (could be a platform or overlook, or simply a cypress dome or tree island visible at a distance from trails)
- h. Archery Range

Review of the Collier County “2008 Annual Update and Inventory Report (AUIR) on Public Facilities – County Sewer Treatment and Collection System” indicate that the proposed Dade-Collier Cypress Recreation Area is located approximately 43 miles from the existing and future Collier County Wastewater Service Areas as depicted in **Figure S-1** and will not impact the capacity of the existing public wastewater collection/transmission/pumping and treatment systems; thus exempt from the above listed LOS requirements. The sanitary sewer system for the new development will consist of onsite septic tank/drainfield system(s) strategically located within the proposed development and designed per F.A.C. requirements, considering required setbacks from potable water well(s) and environmentally sensitive (wetlands) areas.



FIGURE 1-1



**EXISTING AND FUTURE WASTEWATER SERVICE AREAS**

COLLIER COUNTY GOVERNMENT  
PUBLIC UTILITIES DIVISION  
2008 WASTEWATER AUJR

**APPENDIX V.E.1C**  
**TRAFFIC METHODOLOGY**



March 27, 2009

Mr. John Podczerwinsky  
Project Manager  
Collier County Transportation Planning  
2885 South Horseshoe Drive  
Naples, Florida 34104

**Re: Dade-Collier Cypress Recreation Area – Traffic Methodology  
ML Project No. 09-00063**

Dear Mr. Podczerwinsky:

Please accept this letter as our Traffic Methodology Statement for the above-referenced project, as required by the Collier County Traffic Impact Study (TIS) Guidelines and Procedures. The intent of this letter is to propose a methodology memo with assumptions for preparation of a traffic impact study for this site. The paragraphs below outline the background information, assumptions, and proposed methodology for the Traffic Impact Study.

#### ***Introduction***

The Dade-Collier Park Amendment is a proposed amendment to the Collier County Growth Management Plan for +/- 1608 acres located north of U.S. Highway 41 (Tamiami Trail) at the Dade County Line. The existing site is part of the Dade-Collier Training and Transition Airport property owned by the Miami-Dade Aviation Department. The proposed site is south of the existing runway, and contains mostly wetlands with some excavated lakes and dirt roads constructed with the airport. The proposed park will include primitive campgrounds, an archery range, fishing (from lake banks only), and bird-watching. The trails connecting these areas will be designated for Off Highway Vehicles (OHV), bicycles, and hiking.

#### ***Study Area***

The proposed site is located on the Dade-Collier County border. Access to the proposed site will share the existing service driveway for the Dade-Collier Training and Transition Airport. The project entrance, site area, and adjacent roadways are shown on the map on the next page. Tamiami Trail is a two lane undivided roadway connecting Miami to Naples, and continuing north to Tampa/St. Petersburg. The closest intersection to the project site is State Road 29, approximately twenty-eight miles to the west. State Road 29 continues north to I-75.

**IMPROVING COMMUNITIES. CREATING ENVIRONMENTS.**

South Florida Office: 1800 N Douglas Road • Suite 200 • Pembroke Pines, Florida • 33024-3200  
(954) 436-7000 • Fax: (954) 436-8664  
[www.millerlegg.com](http://www.millerlegg.com)

Mr. John Podczerwinsky  
 March 27, 2009



Site Location Map

**Data Collection and Correction Factors**

The study shall use the data from the 2008 Annual Update and Inventory Report (AUIR - refer to attached table) to demonstrate that the project will not generate significant impacts, as defined by Section 8 of the TIS guidelines.

**Trip Generation**

The trips to/from the site shall be estimated using the Institute of Transportation Engineers (ITE) Trip Generation Manual, 8<sup>th</sup> Edition.

Non-wetland areas of the park will be utilized for these activities. It is assumed that this area will be 10% (maximum) of the site area.

Calculation will be based on Land Use Code 416 – County Park.

Land Use Code	Unit	Size	AM Peak Hour			PM Peak Hour		
			Rate	Enter 71%	Exit 29%	Rate	Enter 35%	Exit 65%
416	Acres	161	0.52	60	24	0.59	33	62

The final traffic impact study to be provided will be classified as a minor study as outlined in the Collier County TIS Guidelines and Procedures.

**Trip Distribution**

The distribution of trips to/from the park will be determined based on OHV title data from the Florida Department of Highway Safety and Motor Vehicles. Because some of the trips will begin/end in Dade County, approval from the Miami Dade Public Works Department will also be required.

**Pass By and Internal Capture**

This site will not utilize trip reduction based on internal and pass-by capture due to the usage and site location.

Mr. John Podczerwinsky  
March 27, 2009

***General Operational Analysis Requirements and Software***

This operation analysis will be limited to the following analysis scenarios:

1. Scenario 1- Existing
2. Scenario 2- Future—5 years or less build out horizon

The analysis will not include committed trips on the roadway network based on the absence of approved but un-built surrounding developments and related vested trips.

The capacity analysis software that will be used is Synchro 7.

If you have any questions or require additional information, please contact me at (954) 436-7000 or at [eczerniejewski@millerlegg.com](mailto:eczerniejewski@millerlegg.com).

Sincerely,



Eric S. Czerniejewski, P.E.  
Associate, Engineering

ESC/jw/bmg

Attachment – 2008 AUIR Table

cc: Julio Menache – Millian, Swain & Associates, Inc.  
Kevin Asher – Miami-Dade County Parks & Recreation  
James A. McCall – Miami-Dade County Parks & Recreation

V:\Projects\2009\09-00063 - Dade-Collier Park Amendment\Documents\Report\4109 Submittal\APPENDICES\Appendix V.E.1.c - Traffic Methodology.doc

**APPENDIX V.E.1D  
DRAINAGE**

## **Appendix V.E.1.d) Drainage**

### **Existing Conditions:**

The proposed Collier Cypress Recreation Area (The Project) is located North of US 41 (Tamiami Trail) near 50-mile bend within the 24,480 acre property known as The Dade-Collier Training and Transition Airport (TNT) property. The Project site specifically occupies approximately 1,608 acres of the TNT property within and is bounded on the north by the existing airport (Approx. 1,000 acres) that includes a maintenance trailer, a single runway, taxiways and apron and to the west by an existing access road that links Tamiami Trail to the existing airport. The project site is currently in a semi-natural state; that include wetlands, cypress and hardwood forests, except for the presence of five man-made quarry lakes, excavated in 1968 to provide fill for construction of the airport and access road to Tamiami Trail.

### **Level of Service Standard (LOSS) Requirements:**

The Project is located in the Collier County – Gator Hook Strand Basin and within the Big Cypress Watershed Basin as shown in **Figure D-1**. The drainage LOSS for this project must comply with the goals, objectives and policies stipulated in the Collier County Land Development Code (Chapter 6) and the Growth Management Plan (Future Land Use, Public Facilities Element-Drainage Sub-element and the Conservation & Coastal Management) Elements. Further, the site is within the Big Cypress Area of Critical Concern thus subject to review by the State of Florida department of Community Affairs (DCA). In addition, given that the project site is greater than 40 acres and impacts existing wetlands within the Big Cypress Watershed Basin, the Big Cypress Basin Board and the South Florida Water Management (SFWMD) will have jurisdiction over review and approval of design, permitting and implementation of drainage/stormwater management systems at this site. At a minimum, the required project Drainage LOSS for the proposed development to attenuate water quality and water quantity requirements shall be as follows:

### **Access paved driveways, parking areas:**

The minimum elevation shall be above the highest stage (elevation) derived from stage-storage computations of the 10 year-24 hour storm event using SFWMD accepted methodology.

### **Minimum Finish Floor Elevation:**

The minimum lowest floor elevation for buildings/structures shall be above the established FEMA Flood Zone for the project site or the highest stage (elevation) derived from stage-storage computations of the 100 year-72 hour storm event using SFWMD accepted methodology; whichever is higher.

### **Perimeter Grading / Allowable Offsite Discharges:**

**Perimeter grading** along the project boundary shall be established at the maximum stage derived from stage-storage computations of the 25 year – 72 hour storm event using SFWMD accepted methodology.

### **Proposed Improvements:**

The new project contemplates the following development characteristics:

- a. New Visitor's Center Building (approximate 2200-2400 SF) to include, Administrative area (small office room), Orientation area, Restrooms and small meeting room (with media capability for training/orientation purposes)
- b. New Parking Lot for 80 vehicles.
- c. Camping: primitive and RV (but with minimal offerings – not for extended stay/luxury RV camping)
- d. Fishing: piers or docks.
- e. Off-highway vehicle trails (stabilized trails – at grade) for Off-Highway Vehicles (OHV)
- f. Multi-use trails (for hikers and bikers)
- g. Wildlife viewing opportunities (could be a platform or overlook, or simply a cypress dome or tree island visible at a distance from trails)
- h. Archery Range

The proposed development uplands will be concentrated along the western portions of the site in close proximity to the existing access road. Storm runoff from parking areas and other development uplands will be collected via drainage structures fitted with pollution retardant baffles and conveyed to dry retention areas for water quality attenuation per SFWMD criteria.

The existing five quarry lakes were excavated in the 1960's without consideration of safety or littoral (shallow) shelf areas for fish and wildlife propagation and currently lack a littoral zone transition from the uplands to the bottom of the lakes. As part of the site improvements, the existing edge of the lakes will be improved with a shallow littoral zone to enhance fish and wildlife. In addition, the restored lakes will provide ample controlled surface storage capacity for stormwater management. The drainage system from developed areas may be conveyed to the existing lakes after water quality requirements are achieved in dry retention areas and subsequently released through controlled means (control structures, spreader swales) in a manner similar to the natural surface flow regime of the area.

There are existing trails, previously created by swamp buggies that traverse the project site primarily in an east/west direction. As part of the proposed site development, restoration/realignment of these trails, enhancement of compliant trails and modification of trails to passive uses will be proposed in order to increase overall compatibility with historical sheet flow patterns from the Big National Preserve to the Everglades National Park.

The drainage and stormwater management systems for the project will be designed considering site constraints and opportunities but in unison and compatible with environmental site assessments, development and mitigation strategies, environmental enhancements and regulatory requirements.



**APPENDIX V.E.1.E  
SOLID WASTE LOSS**

**Dade-Collier Cypress Recreation Area Sub-District**  
**Appendix V.E.1.e) Solid Waste**

**Existing Level of Service Standard (LOSS):**

The Collier County Growth Management Plan – Public Facilities Element (Solid Waste Sub-element) and section 6.02.08 of the Collier County Land development Code has established the following Solid Waste Facility Level of Service requirements:

- a. The LOS for capital solid waste disposal facilities is 2 years of constructed lined cell capacity at the average disposal rate for the previous five (5) years, and 10 years of permittable landfill capacity at the average disposal rate for the previous five (5) years.
- b. The determination of public facility adequacy for solid waste disposal facilities shall be based on the following:
  1. The required public facilities are in place at the time a final site development plan, final subdivision plat, or building permit is issued.
  2. The required public facilities are under construction at the time a final site development plan, final subdivision plat, or building permit is issued.
  3. The required public facilities are guaranteed in an enforceable development agreement that includes the provisions of subsections 1. and 2. above.

Collier County facilities that meet the current LOS include two franchise collection areas and three recycling centers, as follows:

- a. Unincorporated County Service Area and Immokalee Service Area;
- b. Naples Recycling Center
- c. Marco Recycling Center
- d. Carnestown Recycling Center

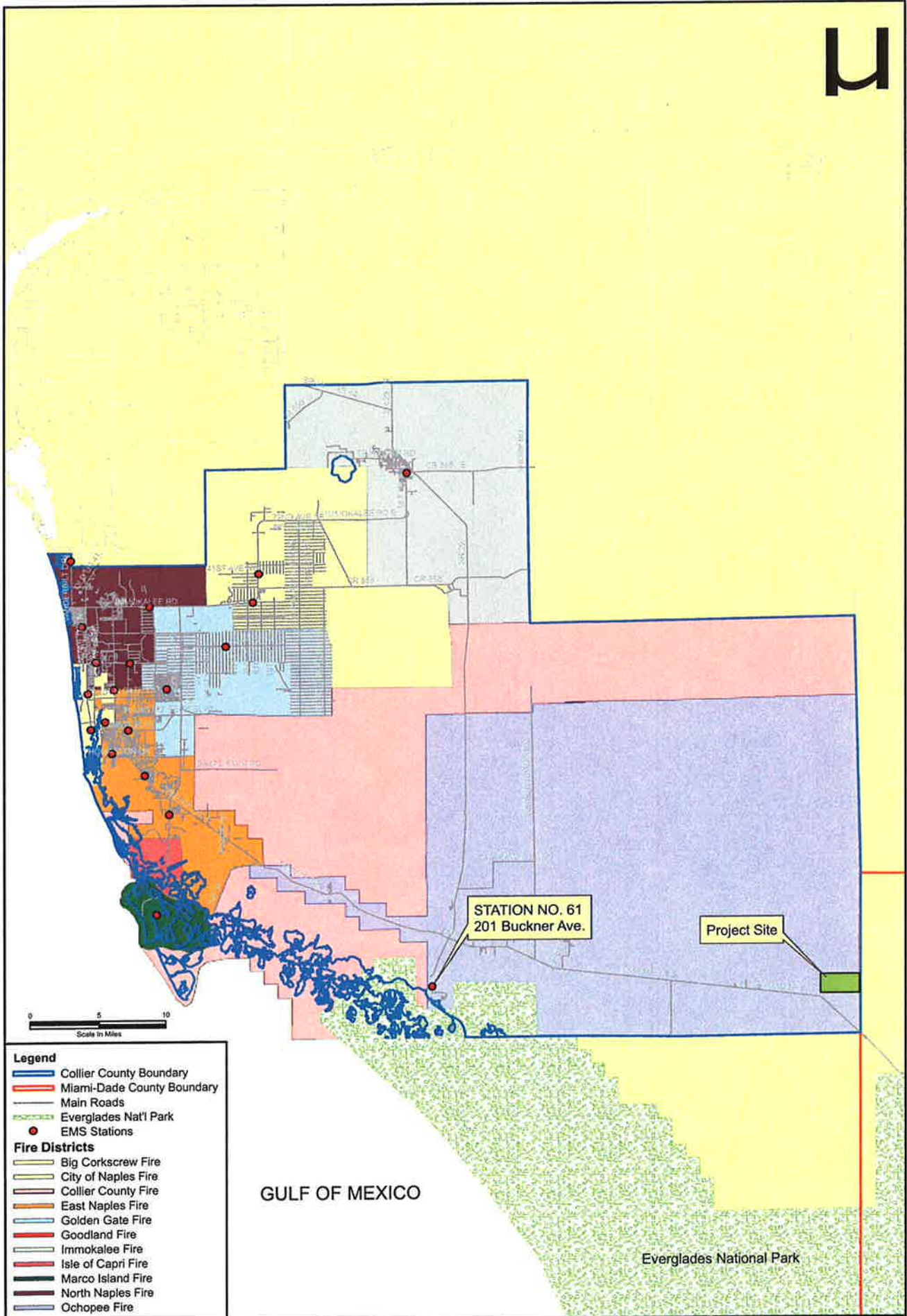
**Proposed Improvements:**

The proposed Dade-Collier Cypress Recreation Area (The Project) contemplates the following development characteristics:

- a. New Visitor's Center Building (approximate 2200-2400 SF) to include, Administrative area (small office room), Orientation area, Restrooms and small meeting room (with media capability for training/orientation purposes)
- b. New Parking Lot for 80 vehicles.
- c. Camping: primitive and RV (but with minimal offerings)
- d. Fishing: piers or docks.
- e. Off-highway vehicle trails (at grade) for Off-Highway Vehicles (OHV) use.
- f. Multi-use trails (for hikers and bikers)
- g. Wildlife viewing opportunities (could be a platform or overlook)
- h. Archery Range.

It is anticipated that collection and disposal of solid waste and recyclables generated from proposed development activities will be conducted by an approved private solid waste hauler under contract with the property owner.

**APPENDIX V.E.2  
FIRE DISTRICTS AND  
EMERGENCY MANAGEMENT  
SERVICES**



- Legend**
- Collier County Boundary
  - Miami-Dade County Boundary
  - Main Roads
  - ▨ Everglades Nat'l Park
  - EMS Stations
- Fire Districts**
- ▨ Big Corkscrew Fire
  - ▨ City of Naples Fire
  - ▨ Collier County Fire
  - ▨ East Naples Fire
  - ▨ Golden Gate Fire
  - ▨ Goodland Fire
  - ▨ Immokalee Fire
  - ▨ Isle of Capri Fire
  - ▨ Marco Island Fire
  - ▨ North Naples Fire
  - ▨ Ochopee Fire

GULF OF MEXICO

Everglades National Park



**COLLIER COUNTY FIRE DISTRICTS AND  
EMERGENCY MANAGEMENT SERVICES**

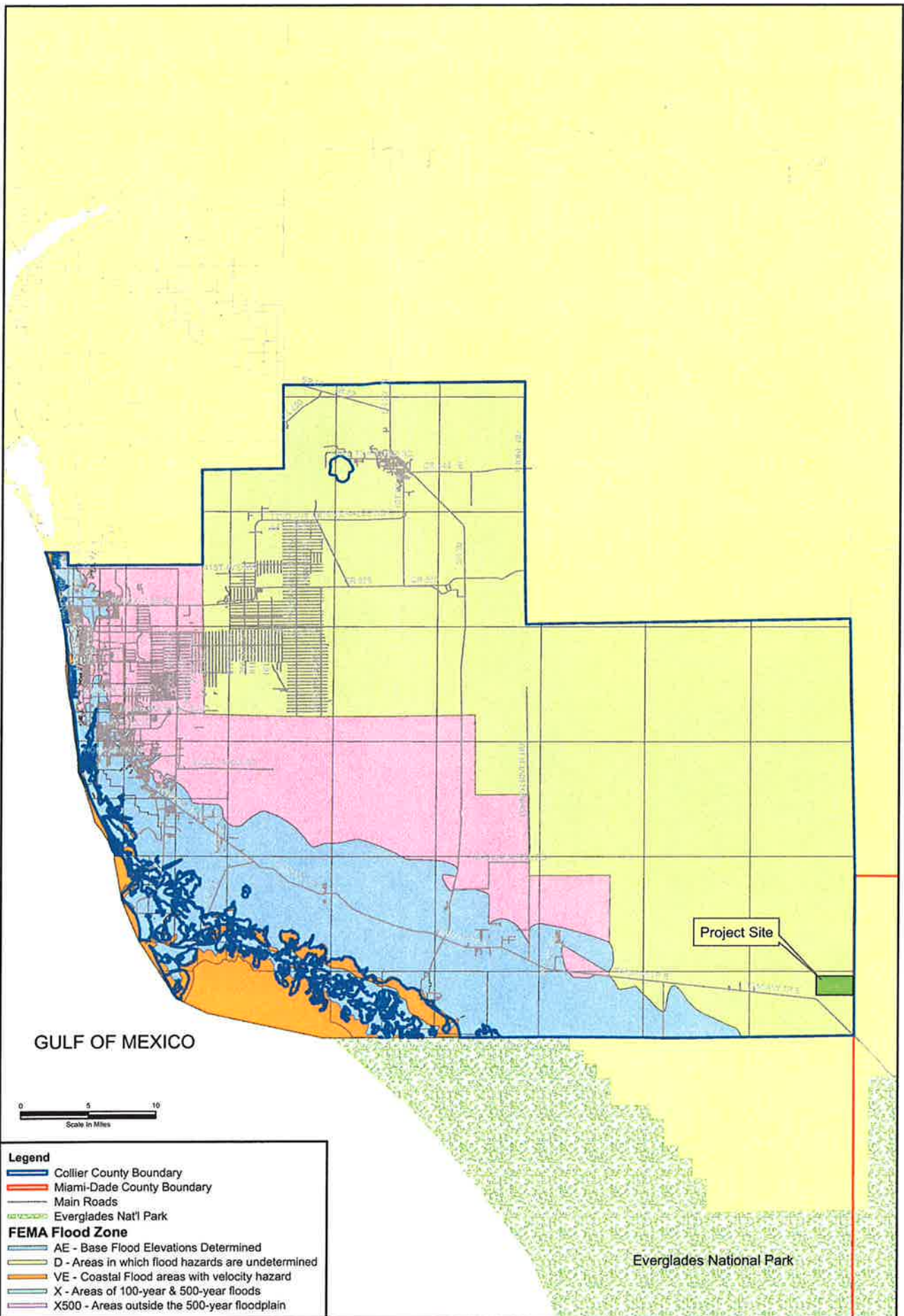
**Appendix V.E.2**

**APPENDIX V.E.3  
PROPOSED SERVICES AND  
PUBLIC FACILITIES**

**SERVICES & PUBLIC  
FACILITIES TO BE PROVIDED  
ONCE KNOWN**

**APPENDIX V.E.F.1  
FEMA FLOOD ZONES**





GULF OF MEXICO



- Legend**
- Collier County Boundary
  - Miami-Dade County Boundary
  - Main Roads
  - Everglades Nat'l Park
- FEMA Flood Zone**
- AE - Base Flood Elevations Determined
  - D - Areas in which flood hazards are undetermined
  - VE - Coastal Flood areas with velocity hazard
  - X - Areas of 100-year & 500-year floods
  - X500 - Areas outside the 500-year floodplain

Project Site

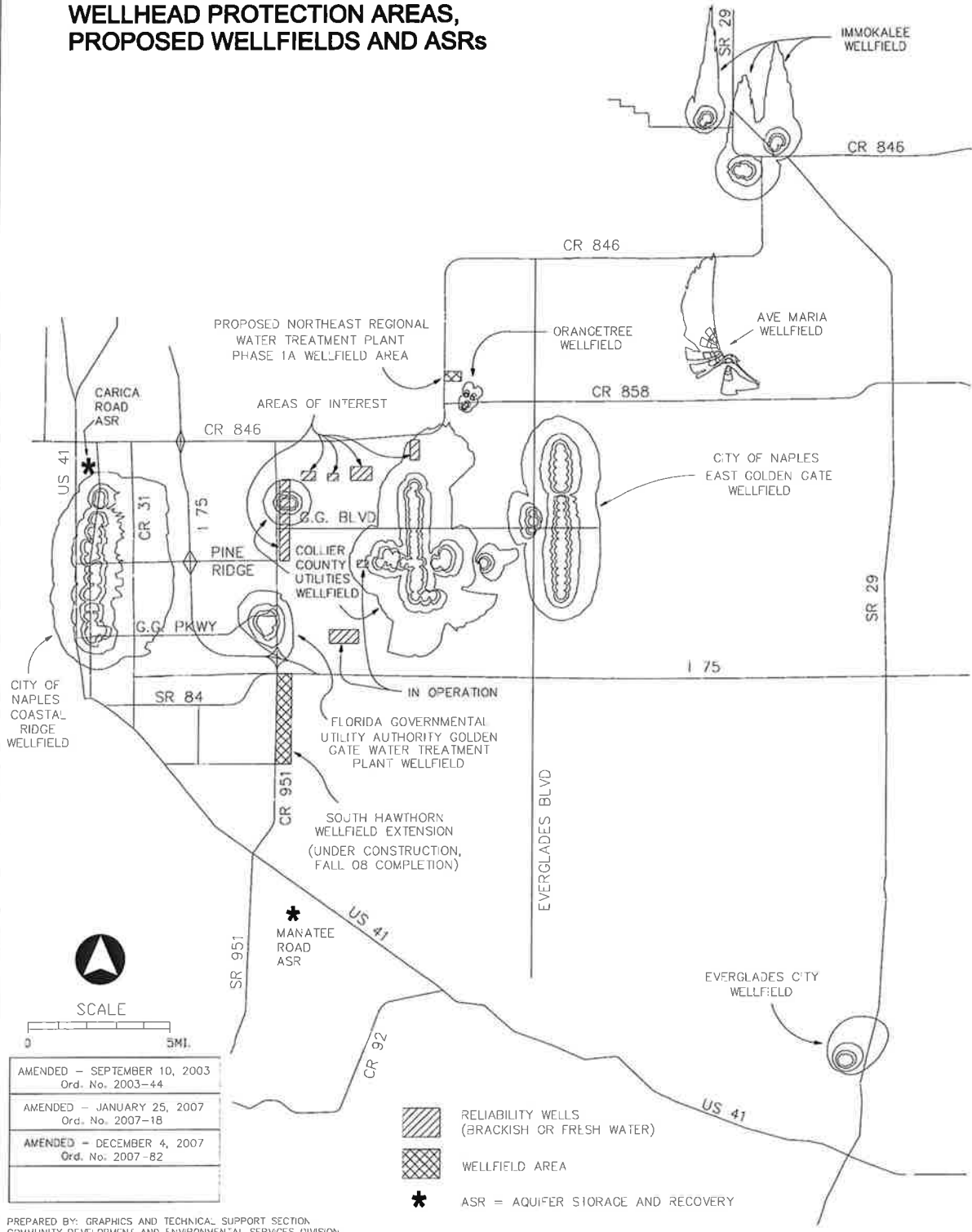
Everglades National Park



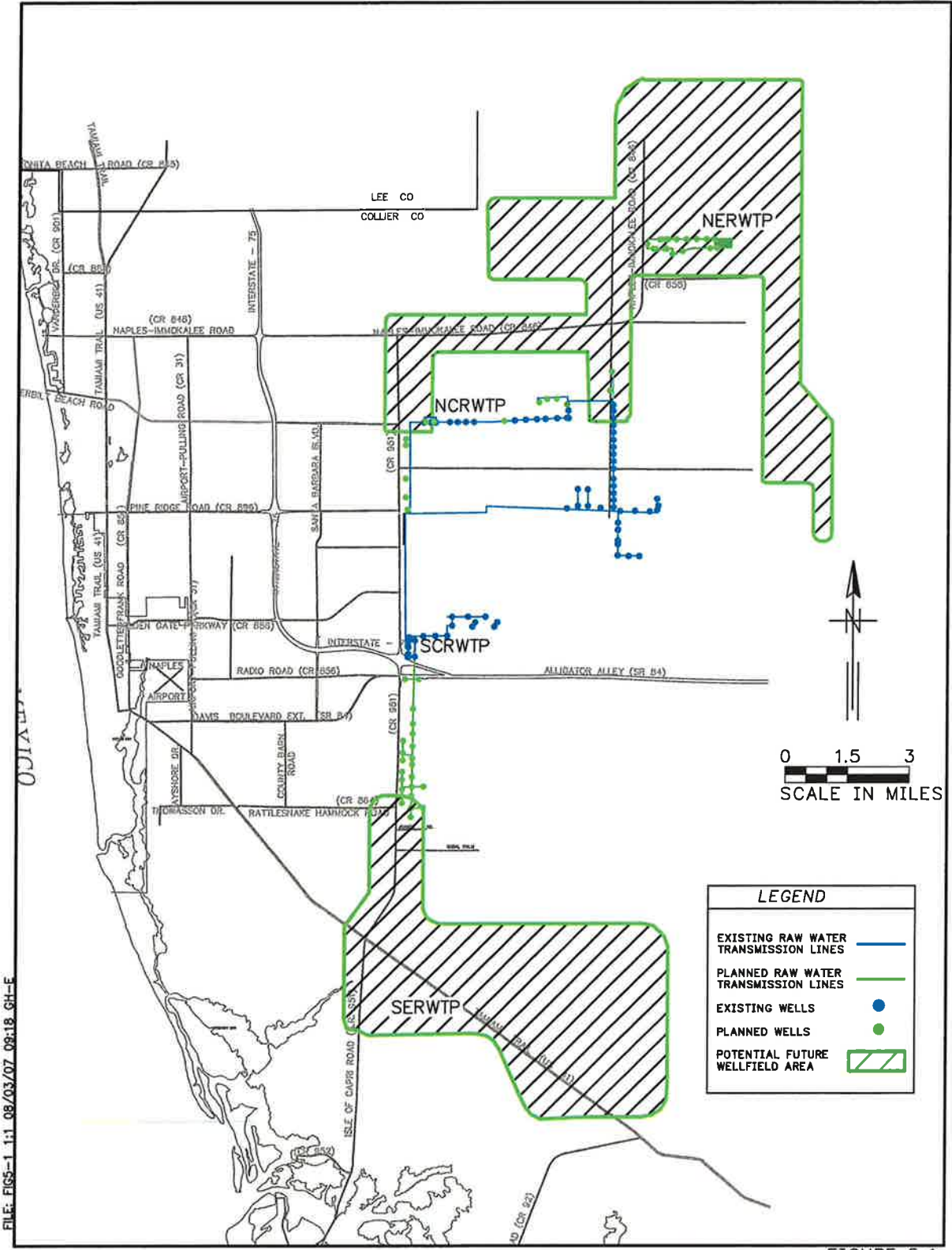
FEMA FLOOD ZONES

APPENDIX V.E.F.2A  
PROPOSED WELLFIELDS AND  
ASR

# COLLIER COUNTY WELLHEAD PROTECTION AREAS, PROPOSED WELLFIELDS AND ASRs



**APPENDIX V.E.F.2B  
WELLFIELDS AND RAW WATER  
TRANSMISSION MAINS**



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FIGURE 5-1  
 COLLIER COUNTY 10-YEAR WATER SUPPLY FACILITIES WORK PLAN  
 EXISTING AND PLANNED CCWSD WELLFIELDS AND RAW WATER TRANSMISSION MAINS

APPENDIX V.G.4  
WARRANTY DEED

MEMORANDUM

107.07-17A

TO William W. Gibbs

DATE July 16, 1973

SUBJECT Jetport acquisition

FROM Francis G. Rearick

*Francis G. Rearick*

This memorandum concerns the title to approximately 24,320 acres of land in Dade and Collier Counties, Florida, being twelve sections of land in Dade County and twenty-six sections of land in Collier County, and the site of the proposed Transition and Training Airport as set forth in Dade County Resolution No. R-1388-67, passed and adopted on November 9, 1967. The property is specifically described as follows:

Sections 19, 20, 29, 30, 31 and 32 in Township 52 South, and Sections 5, 6, 7, 8, 17 and 18 in Township 53 South, all in Range 35 East, Dade County, Florida

and

Sections 21, 22, 23, 24, 25, 26, 27, 28, the South half of 29, the North half of 32, all of 33, 34, 35 and 36 in Township 52 South, and Sections 1, 2, 3, 4, the South half of 5, the North half of 8, all of 9, 10, 11, 12, 13, 14, 15 and 16 in Township 53 South, all in Range 34 East, Collier County, Florida.

Subject only to the exceptions hereinafter noted, full fee simple title to all of said property has passed to and is presently vested in Dade County, Florida.

Lands located in Dade County

The twelve sections of land listed above lying in Dade County were the subject of a condemnation suit filed on July 23, 1968 in the Circuit Court of Dade County, entitled DADE COUNTY v. ABBAT, et al., No. 68-11218. A Declaration of Taking was filed as a part of the proceedings, and hearing thereon was held before Honorable Marshall C. Wiseheart, pursuant to due notice, on September 5, 1968.

That portion of the above property described as:

The North half and the Southeast quarter of Section 20,  
Township 52 South, Range 35 East

was at the time owned by the State Board of Education of the State of Florida, and on motion of the State, by authority of Section 127.01(1) of the Florida Statutes, this land was excluded from the Order of Taking and dismissed from the proceeding.

Also, the Central and Southern Florida Flood Control District, a State agency, was the owner of the following tract of land:

The West half of the Southeast quarter of Section 8,  
Township 53 South, Range 35 East.

For the same reason, this tract was excluded from the proceeding.

The Central and Southern Florida Flood Control District also held easements in certain lands in Sections 5, 8 and 17 above described. These easements were created by a grant from Miami Shipbuilding Corporation, dated January 12, 1950, recorded in Deed Book 3236 at page 582 of the Public Records of Dade County. The easement was "for any and all purposes necessary to the construction, maintenance and operation of any project in the interest of flood control, reclamation, conservation and allied purposes now or that may hereafter be conducted by the grantee herein, its successors or assigns, including the right to permanently or intermittently flood" the area. This easement was partially released by disclaimer dated January 23, 1964 and recorded in Official Records Book 3995 at page 398 of the Public Records of Dade County, the effect of which was to release from the easement all of the described lands except a small portion lying easterly of the west right-of-way line of flood control district levee No. L-28. The exact location of this right-of-way line is set forth in the release instrument referred to above in Official Records Book 3995, page 398. The fee title to the lands burdened by this easement has been acquired and paid for.

The Flood Control District has refused to make voluntary conveyance of the fee title to its eighty acres described above, or to release its easement on the other lands. Keeping in mind the fact that these lands are at the extreme east end of the property, and would be useful to the Jetport only as a clear zone,



and that these lands will not while under control of the Flood Control District be used for building purposes or any purpose incompatible with airport operation, it is my opinion that this exception to the fee title will in no way lessen the value of the property as a whole.

The 480 acres still owned by the State Board of Education present a somewhat different problem. Our records show that negotiations with the Board of Trustees of the Internal Improvement Fund for the voluntary acquisition of this land began in August, 1968, and the County's request for conveyance was to be placed on the agenda of the meeting of the Trustees to be held on September 10, 1968. As of this writing, we have no record of any action having been taken, favorable or otherwise. Regretfully, I leave this unfinished business in your hands. It will be noted, however, that this particular parcel which has been excepted from the taking lies at the extreme northeast corner of the Jetport "square" and is for that reason probably one of the least valuable tracts for airport purposes.

I am attaching as a part of this memorandum a sketch showing the locations of the excepted properties in relation to the property as a whole, from which it becomes obvious that a jetport could be successfully operated without the necessity of acquiring the fee titles and easement above described.

With the exceptions above noted, an Order of Taking was entered on October 2, 1968, and funds in compliance with said Order were deposited in the Registry of the Court on October 10, 1968, at which time full fee title to the remaining lands passed to Dade County.

Thereafter, through court contested litigation and voluntary settlements, the amounts of money payable to all property owners have been adjudicated, and payments for substantially all properties, as well as attorney fees, costs and Clerk's commission, have been made or provided for by deposit in the court registry. I have today learned that a final judgment for payment of \$1,000.00 has been entered, but have been unable to ascertain to whom it is payable, as the judgment is in the recording department. As soon as the judgment is returned to the Court file, Mrs. Moore will send you a copy, and also a statement of the remaining amount to be placed in the registry. This will close the case.

#### Lands located in Collier County

The twenty-six sections of land listed above lying in Collier County were subject to a condemnation suit filed on July 27, 1968 in the Circuit Court of Collier County, entitled DADE COUNTY v. ABESS, et al., No. 315-1968. In

addition to the Dade County resolution mentioned above, the Board of County Commissioners of Collier County passed a Resolution on December 5, 1967, granting that county's permission, consent and approval of the acquisition of the lands by Dade County. A Declaration of Taking was filed as a part of the proceedings, and hearings thereon were held before Honorable Harold S. Smith, pursuant to due notice, on September 7 and 13, 1968.

An Order of Taking was entered on September 13, 1968, which was modified by a supplement to the Order of Taking, entered on December 4, 1968. By the terms of said Order, as modified, and by deposit in the court registry on September 17, 1968 pursuant thereto, the fee to all of the Collier lands vested in Dade County, except the following:

- (a) Reservations of oil, gas and minerals in favor of Oleum Corporation in all parcels in Township 52 South, Range 34 East, and in Sections 2, 4, 8, 10, 12, 14 and 16 in Township 53 South, Range 34 East;
- (b) Interests of Oleum Corporation and Humble Oil & Refining Company, their respective successors and assigns, in an oil, gas and mineral lease between said parties, dated November 2, 1964 and recorded in Official Records Book 180 at page 702 of the Public Records of Collier County, Florida, covering all parcels in Township 52 South, Range 34 East, and in an oil, gas and mineral lease between said parties dated November 2, 1964 and recorded in Official Records Book 180 at page 710 of the Public Records of Collier County, Florida, covering all parcels in Sections 2, 4, 8, 10, 12, 14 and 16, Township 53 South, Range 34 East, Collier County, Florida.

The exceptions last above noted were the result of long conferences with the parties involved, including consultation with State Geologist, Dr. Robert Vernon, who stated as his opinion and from his personal knowledge that airports can be built, and are safely built, over oil fields where mining operations were not permitted within 125 feet of the surface of the land. It is believed that mining operations, if any, could be conducted under the surface of the lands last described with no interference with any airport uses. All parcels on the surface of these lands have been paid for through the above condemnation proceedings, either through contested litigation or by virtue of settlement agreements.

The recorded instruments in Collier County relating to these oil, gas and mineral reservations and leases are as follows:

1. Deed, 9/29/53, Collier to Dominion Corporation, D. B. 30/106.
2. Deed, 9/29/53, Collier to Dominion Corporation, D. B. 30/113.
3. Deed, 12/15/59, Collier to East Land Corp., O. R. 54/286.
4. Deed, 10/21/63, Collier to Oleum Corporation, O. R. 160/11.
5. Deed, 3/16/64, East Land Corp. to Oleum Corporation, O. R. 173/530.
6. Lease, 11/2/64, Oleum Corporation to Humble Oil & Refining Company, O. R. 180/702.
7. Lease, 11/2/64, Oleum Corporation to Humble Oil & Refining Company, O. R. 180/710.

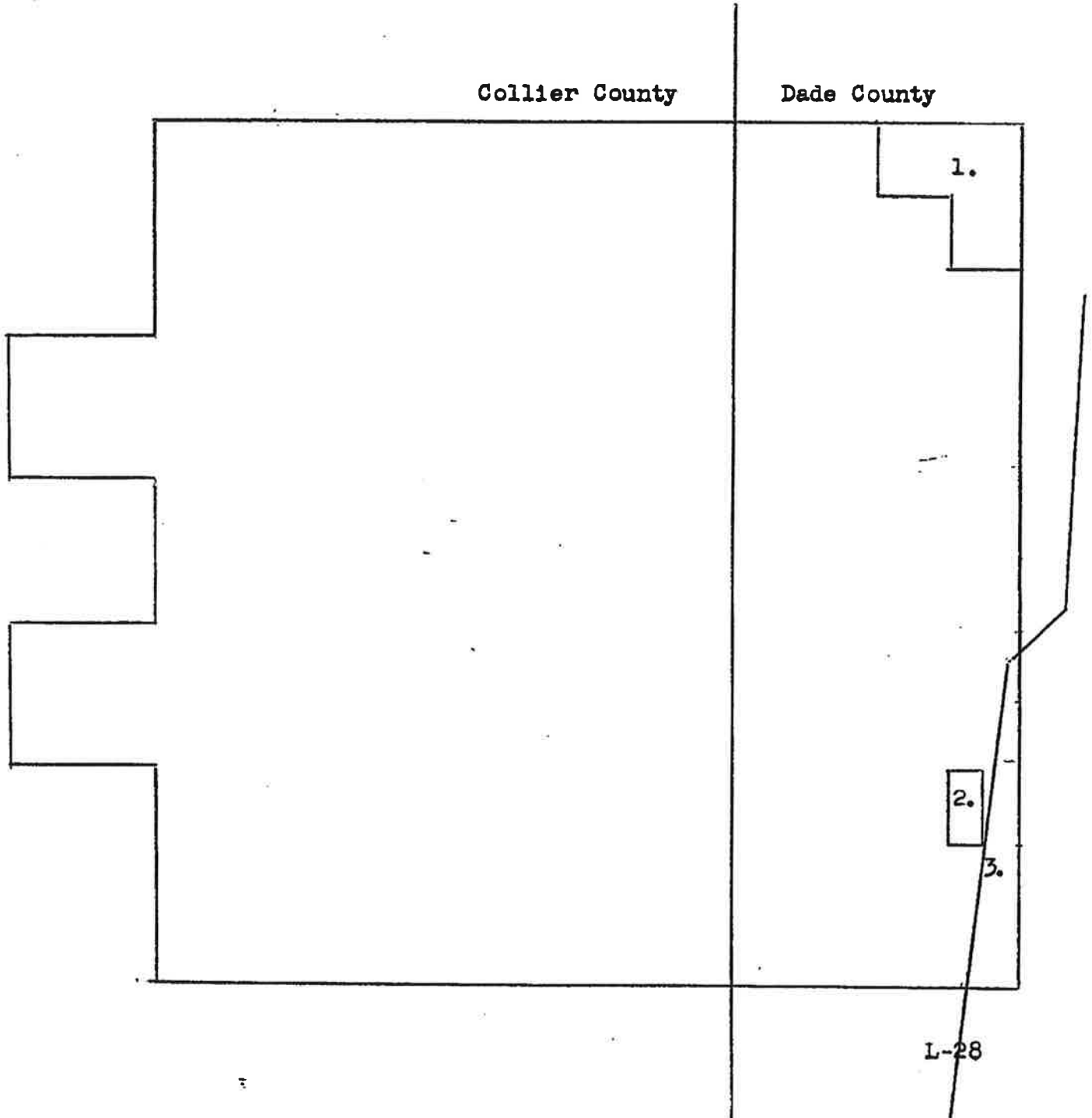
Through court litigation and settlements, final judgments have been entered covering the surface and all mineral rights with the exception of those above noted, in the entire twenty-six sections of land in Collier County, and money has been paid or is on deposit available for payment, for all parcels, including attorney fees, costs, and Clerk's commission. The fund is in fact overpaid, and Mrs. Scott or Mrs. Tygett will make a refund as soon as all payments have been completed.

FGR:bg

North

Collier County

Dade County



1. State Board of Education - fee - 480 acres.
2. Flood Control District - fee - 80 acres.
3. Flood Control District - easement.