

#### DEPARTMENT OF COMMUNITY AFFAIRS

"Dedicated to making Florida a better place to call home"

RICK SCOTT
Governor

BILLY BUZZETT
Secretary

#### **MEMORANDUM**

**TO**: External Review Agencies

**DATE**: March 23, 2011

**SUBJECT:** Proposed Comprehensive Plan Amendment Review

**Objections, Recommendations and Comments Reports** 

Enclosed are the Departments Objection, Recommendations and Comments Reports on the proposed amendments to the comprehensive plan(s) from the following local government **MIAMI-DADE CO 11-1.** 

These reports are provided for your information and agency files. Following the adoption of the amendments by the local governments and subsequent compliance review to be conducted by this agency, we will forward copies of the Notices of Intent published by each local government plan.

Should you have any procedural questions on this matter, please contact Mr. Ray Eubanks at (850.488.2356 or by e-mail at ray.eubanks@dca.state.fl.us.

DRE/dh

Enclosure



STATE OF FLORIDA

#### OF COMMUNITY AFFAIRS DEPARTMENT

"Dedicated to making Florida a better place to making Florida a better place to making Florida a better

RICK SCOTT Governor

HE & TENNIG BILLY BUZZETT METROPOLITAR PLANSING SECT Secretary

March 22, 2011

The Honorable Joe A. Martinez Chairman, Miami-Dade County **Board of County Commissioners** Stephen P. Clark Center 111 Northwest 1st Street, Suite 220 Miami, Florida 33128



MIAMI-DADE COUNTY DIRECTOR'S OFFICE DEPT. OF PLANNING & ZOMING 201103350

Dear Chairman Martinez:

The Department of Community Affairs completed its review of the proposed Comprehensive Plan Amendment for Miami-Dade County, DCA Number 11-1, which was received on January 18, 2011. Copies of the proposed amendment have been distributed to appropriate state, regional and local agencies for their review, and their comments are enclosed. The Department reviewed the comprehensive plan amendment for consistency with Rule 9J-5, Florida Administrative Code, and Chapter 163, Part II, Florida Statutes, and the Miami-Dade County Comprehensive Plan. The Department does not identify any objections, and this letter serves as the Objections, Recommendations and Comments Report.

For your assistance, we have attached procedures for final adoption and transmittal of the comprehensive plan amendment. If you have any questions, please call Bill Pable, AICP, at (850) 922-1781.

Sincerely.

J. Thomas Beck, AICP
Director, Division of Community Planning

JTB/bp

**Enclosures: Review Agency Comments** 

Alina Hudak, County Manager, Miami-Dade County cc: Marc C. LaFerrier, AICP, Director, Miami-Dade County Planning Department B. Jack Osterholt, Interim Executive Director, South Florida Regional Planning Council

2555 SHUMARD OAK BOULEVARD [] TALLAHASSEE, FL 32399-2100 850-921-0781 (f) Website: www.dca.state.fl.us 850-488-8466 (p) D

#### TRANSMITTAL PROCEDURES

Upon receipt of this letter, the County has 60 days in which to adopt, adopt with changes, or determine that the County will not adopt the proposed amendment. The process for adoption of local government comprehensive plan amendments is outlined in s. 163.3184, F.S., and Rule 9J-11.011, F.A.C. The County must ensure that all ordinances adopting comprehensive plan amendments are consistent with the provisions of Chapter 163.3189(2)(a), F.S.

Within ten working days of the date of adoption, the County must submit the following to the Department:

- Three copies of the adopted comprehensive plan amendments;
- A listing of additional changes not previously reviewed;
- A listing of findings by the local governing body, if any, which were not included in the ordinance; and
- A statement indicating the relationship of the additional changes to the Department's Objections, Recommendations and Comments Report.

The above amendment and documentation are required for the Department to conduct a compliance review, make a compliance determination and issue the appropriate notice of intent.

In order to expedite the regional planning council's review of the amendments, and pursuant to Rule 9J-11.011(5), F.A.C., please provide a copy of the adopted amendment directly to the Executive Director of the South Florida Regional Planning Council.

Please be advised that Section 163.3184(8)(c), F.S., requires the Department to provide a courtesy information statement regarding the Department Notice of Intent to citizens who furnish their names and addresses at the local government's plan amendment transmittal (proposed) or adoption hearings. In order to provide this courtesy information statement, local governments are required by law to furnish the names and addresses of the citizens requesting this information to the Department. Please provide these required names and addresses to the Department when you transmit your adopted amendment package for compliance review. In the event there are no citizens requesting this information, please inform us of this as well. For efficiency, we encourage that the information sheet be provided in electronic format.



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

February 17, 2011

Ray Eubanks, Administrator Plan Review and Processing Department of Community Affairs 2555 Shumard Oak Boulevard Tallahassee, FL 32399-2100



COMMUNITY PLANNING

Dear Mr. Eubanks:

Subject:

Miami-Dade County, DCA #11-1

Comments on Proposed Comprehensive Plan Amendment Package

The South Florida Water Management District (District) has completed its review of the proposed amendments to Miami-Dade County's (County) Comprehensive Development Master Plan (CDMP). One of the three parts to the amendment package, a text modification in the Land Use Element, raises water resource concerns. This text amendment would allow an expansion of agricultural production and the raising of livestock in Open Land Subarea 4 (East Everglades Residential Areas).

Open Land Subarea 4 is located west of the east coast protective levee system that separates the Everglades from the urban areas of the County and is adjacent to Everglades National Park. This area has limited flood protection and is very sensitive to activities that would impact water quality. The U.S. Army Corps of Engineers' (USACE) 8.5 Square Mile Project will restore a more natural flow of surface water to the western portion of Open Land Subarea 4. The project has been designed to prevent an increase in the seasonal inundation of property in the remainder of Open Land Subarea 4, but provides no improvement in the existing, limited flood protection. Without on-site water quality treatment, the proposed increase in "agricultural production" and "raising of livestock" could impact water quality in Everglades National Park, Florida Bay, Biscayne Bay, and the USACE stormwater treatment area immediately to the south (Attached Map).

The District offers the following recommendations:

#### Flood Protection

• Any increased intensity and activity will necessitate an increase in flood protection. The regional water management system in this area was not designed or constructed to provide this additional flood protection and the amendment does not provide for additional flood protection. The amendment should clearly establish by policy that land owners in this sub-area will be responsible for providing on-site retention to facilitate their own activities as well as to prevent increased inundation of other properties in the area. The County should also consider revising the amendment text to require on-site retention of the 100-year stormwater event per Miami-Dade County Department of Environmental Resources Management rules.

Ray Eubanks, Administrator February 17, 2011 Page 2

#### **Water Quality**

- Ensure that all land use changes associated with the amendment do not result in the
  further degradation of water quality; and require that future water management
  activities in the subarea are consistent with and contribute to the attainment of all
  applicable water quality standards, including nutrient criteria and Total Maximum
  Daily Loads. Future water management activities should not further degrade water
  quality of downstream waterbodies including Biscayne Bay and Florida Bay.
- The revised text removes the seasonal limitation without further guidance as to the types of agriculture allowed or a definition of noncommercial livestock production. Without these definitions, the County will not be able to demonstrate how water quality standards will be met. Future land uses must remain consistent with the existing comprehensive plan text that prohibits land uses from compromising surface water and groundwater quality in addition to flood control.
- Encourage landowners to work with the Florida Department of Agricultural and Consumer Services in the implementation of best management practices in accordance with Chapter 403.067, F.S.

Please note that the construction schedule of the wetland restoration component of the District's 8.5 Square Mile Area Mitigation Project has been delayed. The Miami-Dade County Department of Planning and Zoning's Staff Report should be updated to indicate that construction of the District's project will begin in 2011, pending approval of a Special Use Permit from the County.

The District offers its technical assistance to the County and the Department of Community Affairs in developing sound, sustainable solutions to protect the region's water resources. For assistance or additional information, please contact Rod Braun at (561) 682-2925 or <a href="mailto:rbraun@sfwmd.gov">rbraun@sfwmd.gov</a>.

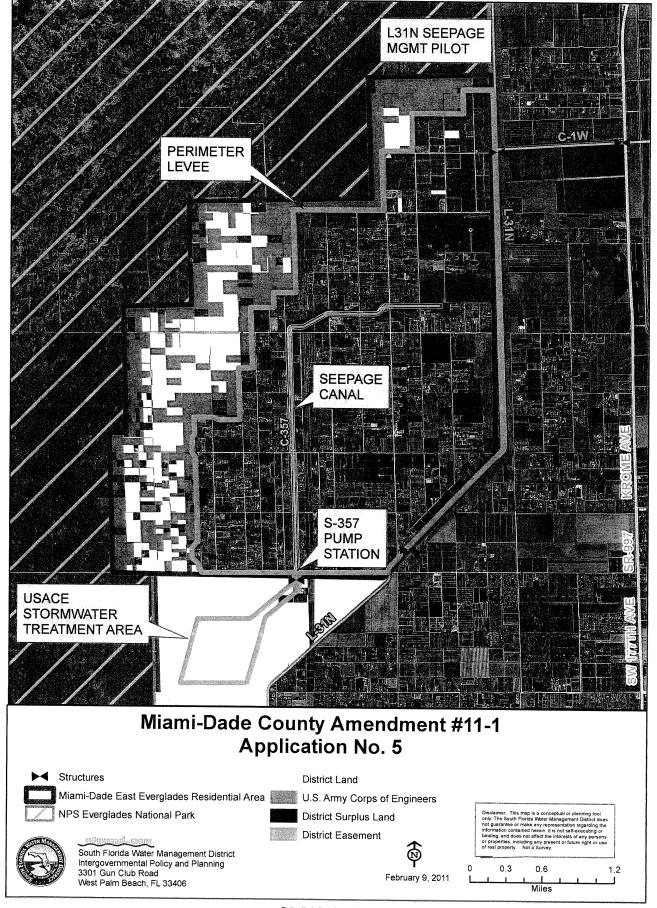
Sincerely,

Kim Shugar

Director

Intergovernmental Programs Department South Florida Water Management District

c: Rod Braun, SFWMD
Bob Dennis, DCA
Rachel Kalin, SFRPC
Marc LaFerrier, Miami-Dade County
Jim Quinn, DEP
Mark Woerner, Miami-Dade County





# Florida Department of Transportation

RICK SCOTT GOVERNOR

1000 NW 111 Avenue Miami, Florida 33172-5800 OFFICE OF THE SECRETARY

February 21, 2011

Mr. Ray Eubanks
Division of Community Planning
Florida Department of Community Affairs
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

Subject: Proposed April 2010 Cycle Standard Amendments to the Miami-Dade County Comprehensive Development Master Plan (DCA# 11-1)

Dear Mr. Eubanks:

In accordance with your request, and the provisions of Chapter 163, Florida Statutes and Chapter 9J-5, Florida Administrative Code, this office has completed a review of the proposed April 2010 Cycle Standard Amendments to the Miami-Dade County Comprehensive Development Master Plan (DCA# 11-1). The District has no objections, recommendations, or comments on the submittal. Please contact Ken Jeffries at 305-470-5840, if you have any questions concerning our response.

Sincerely,

Phil Steinmiller Planning Manager District Six

Ph Sherintle

Cc: Harold Desdunes, FDOT Aileen Boucle, FDOT



# FLORIDA DEPARTMENT OF STATE Kurt S. Browning

Secretary of State
DIVISION OF HISTORICAL RESOURCES

February 11, 2011

Mr. Ray Eubanks
Department of Community Affairs
Bureau of State Planning
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

Re:

Historic Preservation Review of the Miami-Dade County 11-1 Comprehensive Plan Amendment

Dear Mr. Eubanks:

According to this agency's responsibilities under Section 163, *Florida Statutes*, and Chapter 9J-5, *Florida Administrative Code*, we reviewed the above document to determine if data regarding historic resources were given sufficient consideration in the request to amend the Miami-Dade County Comprehensive Plan.

We reviewed three proposed text amendments to the Miami-Dade County Comprehensive Plan to consider the potential effects of these actions on historic resources. Application 4 creates a new Community Health and Design Element, Application 5 modifies text for the Open Land Subarea 4 of the Land Use Element to allow agriculture and livestock, and Application 6 amends the Land Use Element to allow bed and breakfast lodgings in designated historic properties in all residential land use categories. Text for this amendment ensures that any expansions or additions shall be compatible architecturally and in height and scale with the surrounding neighborhood. This agency encourages appropriate adaptive reuse of historic structures.

While our cursory review suggests that the proposed changes may have no adverse effects on historic resources, it is the county's responsibility to ensure that the proposed revisions will not have an adverse effect on significant archaeological or historic resources.

If you have any questions regarding our comments, please feel free to contact Susan M. Harp of the Division's Compliance Review staff at 850.245.6333.

Sincerely,

Laura A. Kammerer, Historic Preservationist Supervisor

Laura a. Kammerer

Compliance Review Section Bureau of Historic Preservation

pc:

Mr. Bob Dennis

# Revised Initial Recommendation of the Department of Planning and Zoning Addressing CDMP Amendment Application No. 5 October 20, 2010

This document replaces in its entirety the previously published Staff Initial Recommendation for Application No. 5, dated August 25, 2010.

# **Application No. 5 TEXT AMENDMENT**

### **APPLICATION SUMMARY**

Applicant/Representative:

Miami-Dade County Department of Planning and Zoning / Marc C. LaFerrier, AICP, Director, Miami-

Dade County

Element(s) to be Amended:

LAND USE ELEMENT

Requested Text Changes:

Modify the text of Open Land Subarea 4 (East Everglades Residential Areas) in the Land Use Element of the Comprehensive Development Master Plan (CDMP), to allow agriculture production including nurseries and tree farms and

limited raising of livestock.

Amendment Type:

Standard Text Amendment

#### RECOMMENDATIONS

Staff:

ADOPT WITH CHANGE AND TRANSMIT

(August 25, 2010, and further revised on October

20, 2010)

Community Council:

Planning Advisory Board (PAB) acting as Local Planning Agency:

Board of County Commissioners:

**NOT APPLICABLE** 

ADOPT WITH CHANGE AND TRANSMIT

(October 4, 2010)

ADOPT AND TRANSMIT (November 18, 2010)

Final Recommendation of PAB acting as Local Planning Agency:

Final Action of Board of County Commissioners:

TO BE DETERMINED (2011)

**TO BE DETERMINED (2011)** 

April 2010 Cycle 5-1 As further revised on Wednesday, October 20, 2010 Updated and Replaced November 18, 2010

Application No. 5

Staff recommends **ADOPT WITH CHANGE AND TRANSMIT** the proposed text amendment for the following reasons:

#### **Conclusions and Principal Reasons for Recommendations:**

- 1. Open Land Subarea 4 is primarily located within "Management Area 1: Modified Environment" of Miami-Dade County's East Everglades Area of Critical Environmental Concern. Management Area 1 is subject to the East Everglades Zoning Overlay Ordinance as established in Section 33B, Article II, of the Miami-Dade County Code (Code). This proposed text amendment would allow consideration of land uses for private property that are more consistent with the land uses currently allowed by the Code for Management Area 1.
- 2. Open Land Subarea 4 currently allows 'seasonal agriculture' as a use that may be considered for approval and the County's East Everglades Resources Planning Project publication, entitled "Agricultural Use" (1978), indicates that this Subarea has had some agricultural uses for several decades. Land within this Subarea is zoned as GU (Interim), which allows for agricultural use, and AU (Agriculture). Although the text of the Comprehensive Development Master Plan (CDMP) currently restricts the type of allowable agriculture to row crops, container nurseries or other agricultural uses that are seasonal or "above ground" uses, additional agricultural uses may be appropriate for Open Land Subarea 4.
- 3. Miami-Dade County supports the agriculture industry and recognizes that high land cost, and competition for farmland for other uses, such as water resource management and residential development, has reduced the acreage available to farmers to produce winter crops and products that must be grown in a subtropical climate. This proposed CDMP amendment would offer farmers and other agriculturalists flexibility in choosing the type of agriculture, or type of crop or product, that is best suited to conditions in Open Land Subarea 4.
- 4. Historical County documents indicate that part-time farmers have kept a small number of foul, rabbits, pigs, or cows in this area, and residents in this area are interested in legalizing the keeping of these animals. However, any concentration of animals, or commercial operations involving animals, would be likely to have a negative impact on surface and groundwater and therefore would not be appropriate for this sensitive area. For these reasons, only limited raising of animals is recommended for this text amendment. All proposed uses for Open Land Subarea 4 shall be more specifically defined through proposed amendments to the Code and related land development regulations.
- 5. Text in the section entitled Open Land Subarea 4 of the CDMP states, "Uses that could compromise groundwater quality shall not occur west of the Turnpike Extension." Since surface water and groundwater in the Subarea interact freely, land use activities directly impact groundwater. Therefore, to preserve the quality of surface and groundwater in the immediate area, and to maintain water quality in nearby ecosystems such as the Everglades National Park and associated downstream water bodies, the Department recommends amending the County Code to ensure that site design and activities associated with these proposed land uses will not impact water resources.

The Department believes that through application of current site development standards, including containment of stormwater runoff, and proposed Code amendments, water quality will not be impacted by these proposed uses. Water quality concerns related to livestock raising will be further addressed through Code amendments to restrict this activity, which may include limitations on the number of animals allowed per parcel of land or acreage, or other similar limitations.

#### **Requested Text Amendment:**

Staff proposes to change the text of Open Land Subarea 4 (East Everglades Residential Areas) in the Land Use Element of the CDMP to remove the term "seasonal agriculture" and allow agriculture production and limited raising of livestock. The proposed text amendment (See Appendix A) would read as follows as amended since the applications report was published on June 5, 2010:

Open Land Subarea 4 (East Everglades Residential Areas). This subarea is bounded on the north, west and southwest by Everglades National Park, on the east by Levee 31N, and on the south by SW 168 Street. Uses which may be considered for approval in this area are seasonal agriculture production and limited raising of livestock¹ nurseries, tree farms and rural residences at a density of 1 dwelling unit per 40 acres, or 1 dwelling unit per 20 acres if ancillary to an established agricultural operation, or 1 dwelling unit per 5 acres, after such time as drainage facilities become available to protect this area from a one-inten-year flood event in keeping with the adopted East Everglades zoning overlay regulation (Section 33B, Code of Miami-Dade County) and compatible and necessary utility facilities. Uses that could compromise groundwater quality shall not occur in this area.

<sup>&</sup>lt;sup>1</sup> Miami-Dade County shall formulate and adopt amendments to Miami-Dade County Code Section 33B Areas of Critical Environmental Concern, Article II. East Everglades, and adopt land development regulations applicable to land designated Open Land Subarea 4 (East Everglades Residential Areas) to specifically address the type of agriculture production uses and the limited raising of livestock uses that may be allowed; that considers water quality and that there is no flood protection provided in this Subarea.

#### STAFF ANALYSIS

#### Description of Open Land Subarea 4 and Existing Land Uses

Open Land Subarea 4 (East Everglades Residential Areas) is generally west of the Kendall Tamiami Executive Airport, and bounded on the north, west and southwest by Everglades National Park, on the east by the L-31N Canal, and on the south by SW 168 Street. The boundaries of the Subarea are depicted, along with other information, on the map entitled, "Application No. 5", located at the end of this report. The Subarea is approximately 5,635 acres in size, or 8.8 square miles (thus the common name for this area, "the 8 and ½ Square Mile").\(^1\) Existing land uses in Subarea 4 include various types of agriculture, undeveloped land, residential use, and transportation, communication, and utility uses. Agriculture types include tropical fruit crops, tree farms, and vegetable crops such as okra. Some agricultural activities are year-round uses and are not consistent with the adopted CDMP and do not have required County permits. Animals observed in the area include horses, goats, fowl, and some hogs; the maintenance and raising of animals for commercial purposes is not permitted in the Subarea. The Subarea also includes residential structures, and some structures that support agricultural uses. According to Department of Environmental Resources Management staff, some of these structures, or building densities, have not been permitted by the County.

Approximately 41% of Subarea 4 is owned by government agencies; including the SFWMD, the United States Army Corps of Engineers, Everglades National Park, and a 306 acre parcel of land that belongs to the Federal Aviation Administration (FAA). This FAA-owned property is a radar and antenna site that supports aviation activities throughout South Florida.

Open Land Subarea 4 is generally a low-lying area with elevations between 5.5 and 8.5 feet above mean sea level (msl) and contains prairie wetlands. According to Federal Emergency Management Agency (FEMA) records, approximately the eastern half (diagonal line from the northeast to the southwest) of Subarea 4 is in FEMA flood zone X (moderate to low flood risk area, usually the area between the limits of the 100-year and 500-year floods) and the western portion of the Subarea is the higher risk flood zone AH (Areas with a 1% annual chance of shallow flooding, usually in the form of a pond, with an average depth ranging from 1 to 3 feet).<sup>2</sup>

Numerous properties within Subarea 4 have jurisdictional wetlands and must have a Class IV Wetlands Permit from the Miami-Dade County Department of Environmental Protection (DERM) for development activity; this permit addresses allowed land uses, and any proposed grading or filling. The Class IV permit also requires onsite retention of stormwater because "cut and fill criteria" are applicable to this hydrologic basin.

#### CDMP Land Use and Zoning for Open Land Subarea 4

In the CDMP, the Open Land future land use category is divided into five subareas. Each of these subareas is low-lying and contains wetlands; however, each subarea's allowed uses vary

<sup>&</sup>lt;sup>1</sup> A group of residents has formed and is currently working to establish the name, "Las Palmas", for an eastern portion of the Subarea.

http://msc.fema.gov/webapp/wcs/stores/servlet/info?storeId=10001&catalogId=10001&langId=1&content=floodZones&title=FEMA%20Flood%20Zone%20Designations.

due to the characteristics within each subarea. As stated in the CDMP, the Open Land category contain lands that are "intended to serve one or more of the following functions: production such as agriculture, limestone extraction or other resource based activity such as development of potable water supplies; rural residential development at a maximum density indicated for the specific Open Land subarea, but no greater than one unit per five acres; recreation; compatible utility and public facilities . . . and conservation, maintenance or enhancement of environmental character." The CDMP specifically states that "Because the Open Land areas primarily consist of wetlands, all proposed uses will be reviewed on a case-by case basis." Uses which may be considered for approval in Subarea 4 are as follows:

"... seasonal agriculture and rural residences at a density of 1 dwelling unit per 40 acres, or 1 dwelling unit per 20 acres if ancillary to an established agricultural operation, or 1 dwelling unit per 5 acres, after such time as drainage facilities become available to protect this area from a one-in-ten-year flood event in keeping with the adopted East Everglades zoning overlay regulation (Section 33B, Code of Miami-Dade County) and compatible and necessary utility facilities. Uses that could compromise groundwater shall not occur in this area."

#### Seasonal Agriculture

The CDMP provides for 'seasonal agriculture' as an allowed land use within Open Land designated areas as noted above. A footnote on CDMP page I-63 defines seasonal agriculture as:

"...agricultural activities which occur during the months November through April on land at natural elevation, or which occur during the months May through October on land that is, or has been bedded or filled to an elevation at or above Miami-Dade County flood criteria, and given that no additional off-site drainage will occur."

The language for seasonal agriculture was added to the CDMP in 1988 because: 1) Open Land designated areas are low-lying and wet for significant periods throughout the year causing a significant risk to year round crops; 2) farming practices in various flood-prone areas put pressure on management agencies to draw down water levels near prime conservation areas; and, 3) requests for additional fill on properties could alter the wetlands and drainage patterns of the area.

The Department has, since 1988, interpreted the term seasonal agriculture to apply only to row crops, since that is what has typically been grown between May through October and November through April. These limited growing seasons allow the grower to grade his land into a system of rows and furrows in the wet season and/or farm at grade during the dry season. Recently, the agricultural uses allowed under "Seasonal Agriculture" have been expanded by the Department of Planning and Zoning to include:

- 1) in-ground agricultural activities at natural grade without additional fill for crops that have no more than an annual growing season, and
- 2) above-ground agricultural activities, such as container nurseries, which can be removed or raised during wet periods.

This interpretation has allowed some limited additional agricultural uses to growers in the Open Land areas.

April 2010 Cycle 5-6 As further revised on Wednesday, October 20, 2010 Updated and Replaced November 18, 2010

Application No. 5

#### East Everglades Zoning Overlay

The underlying zoning districts in the Open Land Subarea 4 are GU (Interim), which allows for agricultural use, and AU (Agriculture). These underlying zoning districts are superseded by the East Everglades Zoning Overlay (Chapter 33B of the Miami-Dade Code). The 1981 ordinances that established the East Everglades as an Area of Critical Concern were preceded by the East Everglades Resources Planning Project, and several years of planning, studies, and publications jointly created by a steering committee and representatives from Miami-Dade County, the SFWMD, the Florida Department of Environmental Regulation, and Everglades National Park. The reasons for critical designation of this area are recorded as Sections 33B-13(c)(1) through (6) of the County Code and are summarized below:

- Recharge of Biscayne Aquifer: the area is upgradient from major public and private drinking water wells that supply water to Miami-Dade and Monroe County. Maintaining high groundwater levels in this area helps to provide a freshwater head which prevents the intrusion of salt water into the base of the Biscayne Aquifer.
- Surface water supply from the area to Everglades National Park (ENP) is critical for the
  ecosystems there. ENP ecosystems in turn support the nursery zones of Florida Bay
  and the Ten Thousand Islands and is essential to the maintenance of many fisheries of
  the Florida coast, the Gulf of Mexico and the Atlantic Ocean.
- 3. Flood storage capacity- the area of critical concern can retain large quantities of surface water during the wet season and then slowly release it providing needed fresh water to downgradient ecosystems and the aquifer.
- 4. Water quality maintenance- this area filters water for Everglades ecosystems and the aquifer. The Code also states, "Introduction of excess nutrients and other chemicals through development can quickly overload the natural assimilative capacity of the system."
- 5. Protection of economic vitality of Miami-Dade County- the County recognizes the cost of flood protection in wetlands and the additional costs of impacting critical water supplies.
- 6. Vegetation, wildlife, and other natural features- this area has rare geology that is able to support threatened and endangered plant and animal species.

As noted in the Principal Reasons section above, Open Land Subarea 4 is located within "Management Area 1: Modified Environment" of the East Everglades Overlay Ordinance. Management Area 1 conditionally allows residential uses and the following uses are permitted: agricultural use, or agricultural support housing or detached dwelling units at densities of no greater than one (1) unit per forty acres. The definition of "agricultural use" includes horticulture, row crops, groves, and nurseries, and excludes noxious exotic species. Permitted uses for Management Area 1 do not include the maintenance and raising of animals for commercial purposes.

According to County Code Section 33B-26 (Environmental performance standards), there are certain restrictions impacting agricultural uses in Management Area 1. The use of fill is limited to one half acre per development. Any shallow ditching allowed for agriculture shall not serve as a continuous conduit for transporting water to the extent that it has a significant adverse effect on the natural hydrologic regimen of the immediate vicinity of the parcel proposed for development. Where permitted, roads must be designed with bridges and culverts such that they will not interrupt or divert natural sheet flow. The Code also provides standards for allowed agricultural activities, including management to prevent the establishment of exotic species,

required onsite retention of stormwater, and no restriction of surface water sheet flow due to elevated planting beds or structures.

#### Support for the Agriculture Industry and Land for Agriculture in Miami-Dade County

Policies in the CDMP and provisions in the County Code support the Miami-Dade agriculture industry. CDMP policies and programs recognize that high land cost, and competition for farmland for other uses, such as water resource management and residential subdivision development, has reduced the acreage available to farmers for producing winter crops and products that must be grown in a subtropical climate. The loss of agricultural land in the East Everglades area could jeopardize the economic diversity and vitality of the Miami-Dade County economy (Section 33B-13(d)(9) of the County Code).

Records show that Open Land Subarea 4 historically had residential uses and diverse types of row crops and small groves on small parcels of land (1-10 acres) within a two mile radius of the L-31N and C-111 canals. Crops included tomato, boniato, calabaza pumpkin, squash, malanga, yucca or sweet cassava and cane. Ornamental nurseries and tropical fruit groves were also present, including banana, avocado, citrus and mango. Historical reports associated with the East Everglades Resources Planning Project also indicate that farmers have kept a small number of foul, rabbits, pigs, or cows in and around Open Land Subarea 4. Some residents in this area are working to legalize the keeping of these animals. However, the Department is concerned that a concentration of animals, or some commercial operations involving animals, would have a negative impact on water resources and downstream ecosystems and therefore would not be appropriate for this sensitive area. The raising of livestock can involve activities such as concentrated feed areas, manure and pasture management, and erosion control that can impact water resources and downstream ecosystems. For these reasons, only limited raising of animals is recommended.

#### SFWMD 8.5 Square Mile Mitigation Project Phases I and II

The SFWMD plans to begin a mitigation project to restore the natural flow of surface water to 383 acres of land within the western portion of Open Land Subarea 4. If there are no delays, construction for Phases 1 and 2 of the mitigation project is proposed to commence in October/November 2010 and be completed by July/August 2011. Basically, the mitigation project area will be either seasonally or perpetually inundated by the restored surface water flow. The SFWMD explained that Phase III of this project will involve an additional 90 acres and will extend eastward along the northern boundary of this Subarea.

A soil and groundwater assessment was completed by SFWMD contractors to identify pollutants that could potentially adversely affect the future ecological environment ("future aquatic community") including plant and animal species within the project area. Agrichemicals (organochlorine pesticides) and arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, copper, zinc, and Total Organic Carbon concentrations were studied. The SFWMD contractors identified "disturbed lands" or formerly cultivated areas including agricultural uses such as tropical plant nurseries/groves, and equipment maintenance/storage areas, and solid waste areas that contain exotic invasive plants and some contaminated soils.

As a result of this study, the restoration project will involve the removal of exotic vegetation and scraping of soil (removal of soil to the depth of limerock). The SFWMD will be managing some soils scraped from this area to minimize aquatic species' exposure to levels of contaminants, including agrichemicals, that exceed one or more critical environmental protection thresholds.

This mitigation area is separated from adjacent privately owned property within Open Land Subarea 4 by an earthen berm or levee called the L-357W. The SFWMD will begin restoration work to remove agricultural chemicals from soils on the west side of the berm in the near future. Since Subarea 4 is prone to flooding and surface and groundwater interact directly in this area, the Department recommends that the use of agricultural chemicals on the east side of the levee be kept to a minimum. Onsite retention of stormwater will help ensure that agrichemicals are filtered and retained onsite and will not travel west and south into the mitigation area, Everglades National Park, Manatee Bay, or affect the groundwater of the Biscayne Aquifer. This type of site development would also be more consistent with existing text for Open Land Subarea 4 which states, "Uses that could compromise groundwater shall not occur in this area."

#### **Environmental and Flood Risk Concerns**

#### **Environmental Concern**

Farmers and other agriculturalists are encouraged to choose crop types and farming techniques that control and minimize the use of fertilizer and pesticide and conserve water. Section 33B-13(d)(1) of the East Everglades Overlay, states that pesticides, fungicides, and fertilizers used in agricultural operations may pose water quality risks. The Code explains that excess nutrient loads, pesticides, and other pollutants can reduce biodiversity and productivity in nursery grounds for Gulf of Mexico and Atlantic fisheries, bird species, and Everglades fauna.

The Miami-Dade County Department of Environmental Resource Management (DERM) recommends the development of an appropriate zoning overlay or zoning rules to account for the unique environmental and flooding characteristic of Open Land Subarea 4. Revisions to the East Everglades Zoning Overlay (Section 33B of the County Code) could implement the provisions of this text amendment. Appropriate revisions to the County Code will limit the number of animals allowed on property in the Subarea and thereby minimize additional nutrient releases. Class IV wetland permit requirements and other Chapter 24 County Code criteria for onsite stormwater retention should also help ensure that surface water management on agricultural properties, regardless of the crop types, will not compromise groundwater quality.

#### Flooding

As noted above, Open Land Subarea 4 is subject to seasonal flood conditions. The Code recognizes that this area is subject to seasonal flooding (Section 33B-24) and establishes that there is no flood protection plan for this area. Instead, flood mitigation is occurring to offset anticipated groundwater level increases that will result from nearby Comprehensive Everglades Restoration Plan projects and related wetland restoration work. The C-357 canal is not designed to provide flood protection, it is designed to collect anticipated additional groundwater and route it to reservoirs south of this area. Similarly, the L-357W Levee is designed to mitigate for planned increases to surface water sheet flow and minimize flooding to the east, but does not provide flood protection. For these reasons, the County shall formulate Code amendments to reflect potential seasonal flood conditions (as also described in footnote no. 1 on page 5-4 of this report).

April 2010 Cycle 5-9 As further revised on Wednesday, October 20, 2010 Updated and Replaced November 18, 2010

Application No. 5

The County Code also establishes intent to protect sheet flow of surface water in the East Everglades Zoning Overlay area. Environmental performance standards, Section 33B-26, shall continue to dictate fill and ditching limitations for sites within this Subarea. In general, a maximum of one-half acre of fill will be allowed per development but no site fill shall impede the rate of volume of surface water flow or create significant backwater conditions, regardless of the land use.

Based upon the above analysis, the Staff recommends to ADOPT WITH CHANGE and TRANSMIT the proposed text application.

### Consistency Review with CDMP Goals, Objectives, Policies, Concepts and Guidelines

The following CDMP goals, objectives, policies, concepts and guidelines will be enhanced or maintained if the proposed text change is approved:

Policy LU-3B.

All significant natural resources and systems shall be protected from incompatible land use including Biscayne Bay, future coastal and inland wetlands, future potable water-supply wellfield areas identified in the Land Use Element or in adopted wellfield protection plans, and forested portions of Environmentally Sensitive Natural Forest Communities as identified in the Natural Forest Inventory, as may be amended from time to time.

Policy LU-8C.

Through its planning, capital improvements, cooperative extension. economic development, regulatory and intergovernmental coordination activities, Miami-Dade County shall continue to protect and promote agriculture as a viable economic use of land in Miami-Dade County.

Objective CON-6

Soils and mineral resources in Miami-Dade County shall be conserved and appropriately utilized in keeping with their intrinsic values.

Land Use Element, Open Land section, page I-61: Because Open Land areas primarily consist of wetlands, all proposed uses will be reviewed on a case-by-case basis. No particular use, other than rural residential use at specified densities is definitively allowed.

Land Use Element, Open Land Subarea 4 section, page I-64: Uses that compromise groundwater quality shall not occur in this area.

Land Use Element, Concepts section, page I-69: #14. Encourage agriculture as a viable economic use of suitable lands.

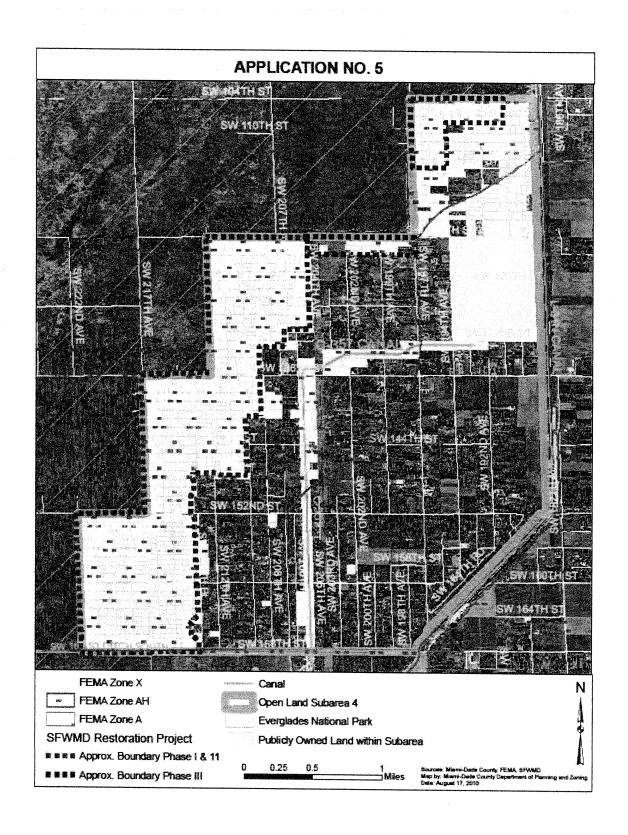
Policy CON-4A.

The aquifer-recharge values of wetland areas shall be maintained and, where feasible, enhanced or restored. There shall be no further positive drainage of wetlands to accommodate urban development or agricultural uses.

The following CDMP goals, objective, policies concepts and guidelines will be impeded if the proposed text chance is approved:

Policy LU-3B and text on page I-69 of the Land Use Element that addresses compromises to groundwater, listed above, could be impeded if agricultural production increases nutrient loads in Open Land Subarea 4.

Policy CON-4A, listed above, could be impeded if agricultural production leads to significant filling or ditching and interruption of surface water sheet flow in the East Everglades area.



## **APPENDICES**

Appendix A: Application Report