



CITY OF MIAMI GARDENS

**COMPREHENSIVE DEVELOPMENT MASTER PLAN
DRAFT AMENDMENT FOR WATER SUPPLY PLANNING**

CONSERVATION ELEMENT

GOALS OBJECTIVES AND POLICIES

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Prepared By:
The City of Miami Gardens
Planning and Zoning Department
1515 NW 167th Street, Building 5, Suite 200
Miami Gardens, Florida 33169

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CHAPTER IV - CONSERVATION ELEMENT GOALS, OBJECTIVES AND POLICIES

GOAL 1: PROTECTION AND CONSERVATION

Protect, promote and enhance the conservation and use of all natural and environmental resources of Miami Gardens through regulatory means, public education programs and intergovernmental coordination.

Objective 1.1: Air Quality

The City shall continue to protect and sustain ambient air quality.

Monitoring Measures: Maintaining and/or improving existing air quality standards.

Monitoring Measures: Assessment of air quality impact analysis results from regional, state and federal agencies.

Policy 1.1.1: Cooperate with county and state agencies to ensure that air quality standards are met and/or exceeded to provide for a cleaner environment.

Policy 1.1.2: Require all residential and non-residential developments to provide a specified amount of native trees pursuant to the land development regulations on established pervious to non-pervious surface areas. Utilize these standards to address issues related with noise abatement, dust from building sites and nuisance odors from business and industrial uses and promote aesthetic beauty.

Policy 1.1.3: Prohibit un-permitted burning of trash and debris within the City.

Policy 1.1.4: Encourage alternative forms of transportation and transit-oriented development (TOD) in conjunction with new developments and/or new roadway projects such as Metrorail.

Objective 1.2: Water Quality

The City shall conserve, appropriately use and protect the quality and quantity of floodplains, drainage, all current and projected water sources and waters.

Monitoring Measures: The extent to which water resources are conserved, appropriately used and protected and the degree to which the following policies are implemented.

Monitoring Measures: The level of service standards in the City's CDMP and consumption and conservation standards in the City's land development regulations.

Policy 1.2.1: Adopt surface water management and floodplain damage prevention regulations by addressing any construction in the one hundred (100) year floodplain to be in compliance with all the requirements and standards

pursuant to the Federal Emergency Management Agency (FEMA) and programs and policies of the Federal Insurance Administration, and the City's building codes.

- Policy 1.2.2:** Develop appropriate land development regulations to enforce stormwater management and control stormwater runoff.
- Policy 1.2.3:** Develop a Stormwater Drainage Master Plan and appropriate land development regulations that evaluate and implement the long term needs for retrofitting future stormwater drainage and groundwater aquifer recharge needs and meet state standards.
- Policy 1.2.4:** Continue to work and coordinate with City of North Miami Beach, Miami-Dade County, South Florida Water Management District (SFWMD) and other related agencies when emergency water management procedures are in effect.
- Policy 1.2.5:** Develop appropriate land development regulations that enforce a requirement that makes a development contingent upon the availability of adequate potable water.
- Policy 1.2.6:** By March 2010, through resolution(s) and land development code, the City will implement a water conservation program that requires following:
- Adopt resolution(s) that support all applicable water conservation measures contained in South Florida Water Management District, Miami-Dade Water and Sewer Department, City of North Miami Beach and City of Opa-Locka's programs as stated below:
 - a. South Florida Water Management District Lower East Coast Water Supply Plan 2005-2006 Update, Appendix F: Conservation.
 - b. Miami-Dade Water and Sewer Department's Water Supply Facilities Work Plan Report, November 2007, Appendix D, Water Use Efficiency Recommendation, Attachment A: Water Conservation Issues & Alternative Water Supplies for the Development Community.
 - c. City of North Miami Beach 10-Year Water Supply Facilities Work Plan, May 2008, Appendix D, Water Conservation Program Plan.
 - d. Water conservation measures as required by Miami-Dade County Ordinance 08-14; and Water use efficiency techniques for indoor water use in
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accordance with Section 8-31, 32-84 and 8A-381 of the Code of Miami-Dade County for all future developments.

- By September 2007, review water conservation regulations and revise the City's land development code as necessary to ensure implementation of water conservation techniques, including:
 - a. Subsurface and other water conserving irrigation techniques;
 - b. Xeriscape techniques;
 - c. Lawn watering restrictions;
 - d. The use of low water use plumbing fixtures in all construction; and
 - e. Any other effective methods commonly in practice or required by law.
- As part of the City's public awareness efforts, make available lists of vegetation classified by water demand for use by residents and developers.
- Establish and adopt level of service standards consistent with Miami-Dade County, City of North Miami Beach and City of Opa-Locka's Water Supply Facilities Work Plans.
- Ensure that water conservation booklets and educational materials are made available to residents and businesses via city hall, public facilities and educational programs and workshops.
- Promote public information programs sponsored by the South Florida Water Management District (SFWMD), Miami-Dade Water and Sewer Department, City of North Miami Beach, City of Opa-Locka and related agencies in an effort to increase public awareness and acceptance of water conservation techniques through newsletters, public service announcements, and displays at public awareness events.
- Evaluate alternatives to conserve existing water supplies including but not limited to water saving devices such as water saving plumbing fixtures, replacing or retrofitting water saving plumbing fixtures or Xeriscaping as required by Miami-Dade County Ordinance 08-14.

Policy 1.2.7: ~~Ensure that water conservation booklets and educational materials are made available to residents and businesses via city hall, public facilities and educational programs and workshops.~~

Policy 1.2.8: No development order shall be issued for new development that would result in an increase in demand on deficient facilities unless one of the following criteria is met:

- The necessary facilities are under construction at the time a development permit is issued and will be completed when the impacts of development occur; or
- The necessary facilities are guaranteed in an enforceable development agreement that includes the provisions set forth in the Capital Improvements Element; or
- The development is limited to pre-development contributions to the capacity of the existing facility in cases where upgrading of existing facilities would create undesirable impacts to adjacent or downstream properties.
- Regardless of agreements, permits, contributions or similar provisions, the necessary sanitary sewer, solid waste, drainage, adequate water supplies and potable water facilities shall be in place and available to serve new development no later than the issuance of a certificate of occupancy or its functional equivalent by the City of Miami Gardens.

Policy 1.2.9: The City shall create and adopt a 10-Year Water Supply Facilities Work Plan that is updated within 18 months and is consistent with South Florida Water Management District's Lower East Coast Regional Water Supply Plan Update, Miami-Dade Water and Sewer Department's Water Supply Facilities Work Plan Report, and City of North Miami Beach 10-Year Water Supply Facilities Work Plan.

Policy 1.2.10: Coordinate water conservation efforts with South Florida Water Management District, Miami Dade Water and Sewer Department, City of North Miami Beach, and other agencies. The City shall ensure a meaningful process for collaborative planning and intergovernmental coordination on a continuing and ongoing basis on water supply issues between the City of Miami Gardens, the Miami-Dade Water and Sewer Department, the City of North Miami Beach and City of Opa-Locka as follows:

- The City will submit monthly data to Miami-Dade Water and Sewer Department and participate in the City of North Miami Beach Annual Water Supply Planning Workshop as required by such entity to track the amount of water to be allocated for new use.

- The City shall continue to coordinate with its providers regarding any required expansion of water and wastewater treatment plants per Florida Statutes to meet demand through year 2030.
- The City shall coordinate with South Florida Water Management District, Miami-Dade County, City of North Miami Beach, City of Opa-Locka and related agencies to incorporate the City of Miami Gardens proposed population projections and potable water demands in their respective Water Supply Facilities Work Plans.
- Promote public information programs sponsored by the South Florida Water Management District (SFWMD), Miami-Dade Water and Sewer Department, City of North Miami Beach, City of Opa-Locka and related agencies in an effort to increase public awareness and acceptance of water conservation techniques through newsletters, public service announcements, and displays at public awareness events.
- The City shall coordinate with South Florida Water Management District, Miami-Dade Water and Sewer Department, ~~and~~ City of North Miami Beach and City of Opa-Locka through its 10-year Water Supply Facilities Work Plan in order to identify and implement alternative water supply projects.
- Establish and adopt level of service standards consistent with Miami-Dade County, City of North Miami Beach and City of Opa-Locka's Water Supply Facilities Work Plans.

Policy 1.2.11: ~~Comply with water use efficiency techniques for indoor water use in accordance with Section 8-31, 32-84 and 8A-381 of the Code of Miami-Dade County for all future developments.~~

Objective 1.3: Protected & Endangered Species

The City shall continue to maintain, enhance and protect the natural vegetative communities, and wildlife listed as endangered or threatened within City of Miami Gardens.

Monitoring Measures: Annual reports to regional, state and federal agencies ensuring habitat protection of endangered and threatened species.

Monitoring Measures: The incorporation of wildlife and plant protection standards into the City's land development regulations.

Policy 1.3.1: Adopt land development regulations to protect wildlife and vegetative communities that are endangered or threatened.

Policy 1.3.2: Prohibit development that will disturb or destroy native vegetation, wildlife and plants especially those that are endangered species through site plan review process and environmental management site inspections.

- Policy 1.3.3:** Manage environmentally sensitive vegetation and natural systems including but not limited to water resources, wetlands, native vegetation habitats of flora and fauna through land use planning, site plan review and land development regulation techniques.
- Policy 1.3.4:** Protect the urban forest from destruction and disturbance due to adverse effects from incompatible uses through the site plan review process.
- Policy 1.3.5:** Adopt regulations that ensure that during the site plan review process, development plans submit to the City any applicable regional, state or federal permits regarding listed species.
- Policy 1.3.6:** Cooperate with local, regional, state and federal agencies in protecting wildlife and plant species that are listed as endangered and/or threatened and support efforts to protect and conserve their natural habitats.
- Policy 1.3.7:** Ensure that information booklets and educational material is made available to residents and businesses via city hall, public facilities and educational programs and workshops to develop more awareness for native wildlife.

Objective 1.4: Natural Resources

The City shall continue to maintain and conserve all natural and conservation areas and their value to the surrounding natural environment.

Monitoring Measures: The extent to which natural resources are conserved, appropriately used and protected and the degree to which the following policies are implemented.

Monitoring Measures: The incorporation of conservation standards into the City's land development regulations.

- Policy 1.4.1:** Adopt land development regulations to protect natural resources and conservation areas through the development review process.
- Policy 1.4.2:** Continue to coordinate with Miami-Dade County's Department of Environmental Resource Management (DERM), South Florida Water Management District (SFWMD), South Florida Regional Planning Council (SFRPC), and other state and federal agencies to protect and manage the functionality of the natural systems.
- Policy 1.4.3:** Integrate city's open space and recreation system with emphasis on conservation and open space land uses.
- Policy 1.4.4:** Promote and support Miami-Dade County's Snake Creek Bikeways preferred plan as passive recreational open space within the City.

- Policy 1.4.5:** Coordinate the implementation of the City Parks Master Plan with the Snake Creek Bikeway preferred plan and other future recreational and open space plans for the City.
- Policy 1.4.6:** Encourage the City's vision of developing a city-wide Greenways Master Plan along canal rights-of-way by coordinating through the Transportation and Future Land Use elements and the City parks master planning process.
- Policy 1.4.7:** Establish conservation easements for the benefit of the residents to allow access to and from natural areas.
- Policy 1.4.8:** Ascertain that all available grants and such opportunities are utilized for preservation of natural areas.
- Policy 1.4.9:** Coordinate and participate with other agencies and entities involved in the improvement and preservation of the City's and surrounding ecosystems.
- Policy 1.4.10:** Ensure that information booklets and educational material is made available to residents and businesses via city hall, public facilities and educational programs and workshops to develop more awareness for natural and conservation areas.
- Policy 1.4.11:** Continue public outreach for natural systems maintenance and protection through the City's Keep Miami Gardens Beautiful Program.

Objective 1.5: Wetlands

While there are no known wetlands in Miami Gardens, the City shall continue to ensure that any wetlands identified and protected under county, regional, state or federal statutes and jurisdictions will be protected and prevented from environmental damage.

Monitoring Measures: Compliance with City Land development regulations through development review process.

Monitoring Measures: The degree to which the following policies are successfully adopted and implemented.

- Policy 1.5.1:** Protect and prevent the disturbance of any public or private wetland area by utilizing the authority provided by Miami-Dade County DERM, SFWMD and any other regional, state or federal agencies.
- Policy 1.5.2:** Adopt land development regulations that address wetland mitigation standards to provide consistency and compatibility with surrounding uses and preserve open space.
- Policy 1.5.3:** Protect environmentally sensitive areas within City of Miami Gardens by designating such areas as "Preservation" on the Future Land Use Map.

Objective 1.6: Mineral Resources

While there is no known mining in the City of Miami Gardens, the City shall conserve and protect areas determined to be suitable for extraction of minerals and soils.

Monitoring Measures: Compliance with City land development regulations through development review process.

Monitoring Measures: The degree to which the following policies are successfully implemented.

Policy 1.6.1: Adopt land development regulations that prohibit mining of minerals except as incidental to the development of land for residential or nonresidential purposes.

Policy 1.6.2: Ensure that drainage regulations are incorporated into the land development regulations to preserve soils.

Objective 1.7: Hazardous Materials

The City shall ensure that hazardous materials are properly disposed of and recycling and reuse principles are promoted through public awareness campaigns.

Monitoring Measures: Compliance with City Land Development Regulations through development review process.

Monitoring Measures: The degree to which the following policies are successfully implemented.

Policy 1.7.1: Adopt land development regulations that prohibit illegal dumping of hazardous wastes and enforce directives towards restriction of uses and appropriate management of hazardous materials.

Policy 1.7.2: Cooperate with Miami-Dade County Department of Solid Waste Management and appropriate regional, state and federal agencies to ensure that hazardous wastes generated within the City are properly managed to protect the environment.

Policy 1.7.3: Ensure that information booklets and educational material is made available to residents and businesses via City Hall, public facilities and educational programs and workshops to develop more awareness for regulatory processes regarding hazardous materials and recycling.