



## POTABLE WATER ELEMENT INTRODUCTION

As of 2008, water is pumped from the ground, treated and distributed to residential and non-residential unincorporated Seminole County users through County, city and private water systems. The County currently provides potable water service to four (4) major service areas in the unincorporated area:

- A. Southwest Service Area - In 2004, Seminole County purchased seven (7) privately owned water treatment and distribution systems from Florida Water Services (FWS) six (6) of which are now included as part of the Southwest Service Area (SWSA), although the individual service areas are not contiguous. One of the treatment facilities (Fern Park) was abandoned prior to the purchase, and that distribution system is now connected to the Southeast Service Area (SESA). The SWSA is supplied by the following water treatment plants (WTP) and other facilities all of which were former FWS utilities, except for Lynwood: Lynwood, Apple Valley, Dol Ray Manor, Druid Hills, Lake Brantley, Lake Harriet Estates, and Meredith Manor;
- B. Southeast Service Area - Served by the Southeast Regional, Indian Hills, and Lake Hayes WTPs;
- C. Northwest Service Area - Served by the Heathrow, Hanover Woods, Lake Monroe and Marham Regional WTPs; and
- D. Northeast Service Area - Served by the Country Club and Greenwood Lakes WTPs.
- E. Additional potable water service is provided to portions of unincorporated areas by several city and private water providers as detailed in the Ten-Year Water Supply Facilities Work Plan (Work Plan).

The County operates the potable water system as a fee-based enterprise. To ensure a continued supply of water, the County's Environmental Services Department prepares an annual budget and five-year capital plan for maintenance, replacement and capacity expansion based on a five-year master plan. Additionally, the County coordinates with the cities and private utilities to share wholesale service and coordinates with the St. Johns River Water Management District regarding the long term projected growth of demand for water services in Seminole County.

In 2002, 2004, and 2005, the Florida Legislature added additional requirements for the long term planning and coordination of the use of all available water supplies. The County's Work Plan was adopted by the County on 11/13/2007 and found compliant by the Department of Community Affairs. The Work Plan amendments are more fully discussed in the Issues and Concerns section of this Element and are detailed in the supplemental text section added to the Element following the Goals, Objectives and Policies section.

Since the early 1990's, public health and safety has been furthered by the adoption of a cross-connection control ordinance to reduce the chance of water contamination within the distribution system. Additionally, the Public Safety Department operates an underground fuel storage tank replacement program to reduce the possibility of ground water supply contamination.



## POTABLE WATER ELEMENT ISSUES AND CONCERNS

### ISSUE POT 1 MONITORING OF PROPOSED REGULATIONS

Proposed regulatory changes to the Safe Drinking Water Act of 1996 (PL 104-182), if passed, may have significant effect on the County's ability to provide drinking water to the public using current treatment methods. Capital modifications to the County's water treatment plants may be necessary to meet the minimum standards established.

The Safe Drinking Water Act, as amended, addresses the allowable drinking water levels of lead, copper, inorganic and organic contaminants, disinfectants, coliform and radionuclides. Since the original enactment, numerous new requirements have been proposed by the Environmental Protection Agency. The exact timetable for enactment of these is not yet determined due to potential legal challenges and questions as to what levels should be set. If the new levels are set significantly below current levels, the County could face significant capital expenditure to attain compliance. Potential expenses could arise from the development of new well fields, installation of new disinfection equipment and/or the construction of new types of treatment facilities.

### ISSUE POT 2 FLUORIDATION

Fluoridation has proven itself to be of value in the prevention of tooth decay in children and should be provided to all central water customers served by the County.

Seminole County has committed itself to the implementation of a water fluoridation program.

### ISSUE POT 3 CROSS CONNECTION CONTROL PROGRAM

The public water supply could become contaminated without the proper installation, testing, inspection, operation, maintenance and retrofitting of backflow prevention devices.

The State requires that each utility have a written cross-connection control program to protect water quality. A backflow device prevents water contamination from untreated water or liquid chemicals from being drawn into or forced into the County's water mains. The proper installation of backflow prevention devices is important to the sanitary working of the water distribution system. The County's current ordinance requires backflow devices on all new construction, and requires that inspection, testing, monitoring or retrofitting of existing structures be performed.

### ISSUE POT 4 CONSERVATION

The State Comprehensive Plan requires that water conservation be promoted as an integral part of water management programs.

The County requires all new developments to execute Reclaimed Customer Agreements where reclaimed water is or will be available. Other methods to increase conservation include public education; periodic amendment of the Building Code requirements to require use of water saving devices in development; amendment of the Land Development Code to require the use of drought tolerant plant species and water conserving irrigation techniques (known as Florida-Friendly/Waterwise); and application of a surcharge for excessive consumption. Approved conservation methods may be used singly or in combination on a site-specific basis.

### ISSUE POT 5 LEVELS OF SERVICE

The State requires that local jurisdictions assure that adequate water supplies and potable water facilities meeting the adopted level of service, shall be in place and available to serve new development no later than the issuance by the County of a certificate of occupancy or its



functional equivalent. Prior to approval of a building permit, or its functional equivalent, the County shall consult with the applicable water supplier to determine whether adequate water supplies to serve the new development will be available no later than the anticipated date of issuance by the County of a certificate of occupancy or its functional equivalent.

The Goals, Objectives and Policies section establishes the County's level of service as 350 gallons of water per day (average daily flow) per Equivalent Residential Connection for each individual service area. The amount of peak treatment facility capacity required is established as a minimum of 2.0 times the average daily flow. These levels of service shall also be applied for planning purposes to private and city utilities serving unincorporated customers unless a different level of service is authorized by the Florida Department of Environmental Protection (FDEP) or is adopted in a comprehensive plan.

The County will continue to operate in compliance with all rules and requirements of the FDEP, including, but not limited to, peak day, peak hour and service pressure requirements.

### **ISSUE POT 6 FUTURE WATER SUPPLY**

The Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP), including the 2035 Water Resources Protection and Water Supply Strategies document, was jointly developed by the St. Johns River Water Management District, South Florida Water Management District and Southwest Florida Water Management District in coordination with the Florida Department of Environmental Protection, and representatives of utilities, agriculture and industry. The CFWI RWSP is consistent with the water supply planning requirements of Chapter 373, Florida Statutes.

Volume I of the CFWI RWSP builds upon and updates previous Water Supply Plans completed by each of the three Districts that include portions of the CFWI Planning Area, and focuses on: water demand estimates and projections, water resource assessments based in part on groundwater modeling, and on developing feasible water supply and water resource development options that meet future needs in a manner that sustains the water resources and related natural systems. Volume II of the CFWI RWSP supplements planning results of Volume I by evaluating water conservation options and regional alternatives to meet the water supply demand.

The findings of the CFWI RWSP were that groundwater resources alone cannot meet future water demands or currently permitted allocations without resulting in unacceptable impacts to water resources and related natural systems. Primary areas that appear more susceptible to the effects of groundwater withdrawals that are of significance for Seminole County include the Wekiva Springs/River system and western Seminole County.

The entire CFWI RWSP is based on a planning horizon extending through 2035, and identifies water conservation measures, water supply project options and water resource development project options, all of which protect environmental and water resources.

#### **Previous Action**

The 2005 District Water Supply Plan (DWSP 2005) [also known as the Regional Water Supply Plan (RWSP)] addressed existing and future water use, traditional and alternative water sources, and water conservation efforts required to meet 2025 water supply needs, while sustaining water quality and protecting wetland and aquatic systems. It was adopted by the Governing Board in February 2006. The DWSP 2005 was designed to meet the requirements of the water supply planning provisions of Section 373, Florida Statutes, and was based on a planning horizon extending through 2025.

The results of the DWSP 2005 indicated the potential need for new regional facilities, new water storage methods and much stricter consumptive use permitting for new and existing wells.



## **ISSUE POT 7 WATER SUPPLY FACILITIES WORK PLAN**

The Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP), including the 2035 Water Resources Protection and Water Supply Strategies document, was jointly developed by the St. Johns River Water Management District, South Florida Water Management District and Southwest Florida Water Management District in coordination with the Florida Department of Environmental Protection, and representatives of utilities, agriculture and industry. The CFWI RWSP is consistent with the water supply planning requirements of Chapter 373, Florida Statutes.

As with the previously required Regional Water Supply Plan, each jurisdiction within the CFWI RWSP is required to amend its Potable Water Element within 18 months of adoption of the CFWI RWSP by the Water Management Districts that created the Plan. The amendments are to include actions necessary to ensure sufficient water to meet future needs, while protecting natural resources. Necessary amendments to the Capital Improvements and Conservation Elements are to be adopted at the same time.

### **Background**

In 2002, 2004, and 2005 the Legislature expanded the local government comprehensive plan requirements to strengthen coordination of water supply planning and local land use planning. The most significant requirement was completion of a 10-year Water Supply Facilities Work Plan (Work Plan) by all counties and cities within areas designated as "Water Resource Caution Areas" (PWRCA's) by their Water Management District in the District Water Supply Plan (DWSP) 2005. The DWSP 2005 was approved by its District Governing Board in February 2006. The original Work Plan for each jurisdiction was required to identify the existing and planned water supply facilities and source(s) of water to meet the projected demand within the local government's jurisdiction and was to be adopted as part of the Potable Water Element. The Capital Improvements Element was also required to be amended to include projects listed in the first five years of the Ten-Year Work Plan. Additionally, appropriate goals, objectives and policies of these and other Plan elements were to be amended or put in place in support of the Work Plan.

The required amendments based on the original Work Plan were adopted by Seminole County on November 13, 2007. The amendments addressed the water needs of Seminole County's water service areas through 2025 by permitting and constructing the first phase of the Seminole County Yankee Lake Regional Surface Water Treatment Plant.

### **Meeting the Legislative Requirements**

Wekiva Parkway and Protection Act (Wekiva Act), Chapter 369, Part III also required the County to amend its Comprehensive Plan by December 1, 2006, to include an up-to-date 10-year Water Supply Facility Work Plan (Work Plan) for building potable water facilities necessary to serve existing and new development and for which the local government was responsible, as required by Section 163.3177(6)(c), FS.

The County met the requirements of the Wekiva Act through its adoption of a Work Plan that addressed both County facilities and service areas as well as service to unincorporated users outside County service areas by city and private water utilities. In doing so, the County has addressed the full requirements of Chapter 163, FS. The County continues to meet the requirements of the Wekiva Act and Chapter 163, FS, by adopting by reference its updated 10-year Water Supply Facilities Work Plan (Work Plan) in 2017.

## **ISSUE POT 8 COORDINATION OF COUNTYWIDE WATER AND SEWER SERVICE**

In order to discourage urban sprawl, avoid duplication of services, maximize the use of existing facilities and plan for the provision of adequate levels of service to unincorporated users, the County relies primarily on its five year master plan and on coordination with other jurisdictions and private utilities for the provision of water and sewer services. These methods include



wholesale agreements, service area agreements and interconnection agreements. As the full urbanization of the nonrural portions of the County occurs and as redevelopment of the urbanized area begins, the County will continue to review, renew, revise and seek new cooperative agreements with other jurisdictions, private suppliers and regional agencies as necessary in the area.



## POTABLE WATER ELEMENT GOAL, OBJECTIVES, AND POLICIES

### GOAL

The County shall provide quality public water facilities to serve existing and future development needs in a cost efficient, highly reliable, and environmentally sound manner.

### OBJECTIVE POT 1 ENVIRONMENTAL AND CONSERVATION POLICIES

The County shall ensure that the provision of water service and the operation of water treatment facilities under its control is accomplished in a manner which will minimize to the maximum practicable extent, any adverse impacts on the environment, public safety, residential neighborhoods and/or surrounding properties through the implementation of the following policies:

#### Policy POT 1.1 Cross Connection Control Program

The County shall enforce its cross connection ordinance that enables the County to require inspection, testing and maintenance of backflow devices as well as the retrofitting of existing facilities to meet the requirements of the ordinance. The ordinance also provides for the use of sanctions such as citations and/or disconnection if standards are not met.

#### Policy POT 1.2 Safe Drinking Water Act

The County shall monitor amendments to the Safe Drinking Water Act, as they develop. Significant amendments shall be brought to the Board of County Commissioners (Board) attention in a timely manner through a preliminary impact analysis statement provided to the Board by the Department of Environmental Services describing the range of known solutions, estimated cost of each and a future timetable to identify the most appropriate and cost effective method of compliance.

#### Policy POT 1.3 Fluoridation

The County shall continue the existing program of water fluoridation.

#### Policy POT 1.4 Water Conservation Program

- A. The County shall continue to ensure that current and proposed conservation practices meet or exceed conditions of the current Consumptive Use Permit (CUP); and
- B. Ensure such practices are consistent with conservation practices identified as specific conditions in each CUP; and
- C. Ensure these practices are incorporated into the Water Supply Facilities Work Plan adopted by reference in the Potable Water Element.

#### Policy POT 1.5 Conservation Devices

Updates of the Land Development Code or Building Code shall include new requirements or revisions for water conservation devices and methods as needed. Such methods might include, but are not limited to, provisions for the use of drought tolerant species and water conserving irrigation techniques, use of Florida-Friendly/Waterwise landscaping for nonresidential construction, and surcharges for excessive consumption. Approved conservation methods shall be used singly or in combination on a site-specific basis. The County shall coordinate with the District to reduce



groundwater withdrawals for nonessential uses that consume large quantities of water (i.e. the filling of decorative fountains and ponds).

**Policy POT 1.6      Emergency Water Conservation**

The County shall continue to have and shall amend, as necessary, the emergency water conservation ordinance to enable the County to limit water usage by methods that may include, but are not limited to, citations with fines in order to enforce restrictions, and surcharges for excessive consumption and use methods as are otherwise authorized by law. The ordinance shall, at a minimum, be consistent with the St. Johns River Water Management District's Emergency Water Conservation requirements.

**Policy POT 1.7      Reuse of Reclaimed Water**

The County shall continue to require all development to enter into reclaimed customer agreements as a condition of service. Actual implementation of such agreements shall be based on, but not limited to, the following considerations: availability of effluent supply, distance from existing facilities, the nature of the soils and the nature of the development. Additionally:

- A. The County shall continue to ensure that current and proposed reuse practices meet or exceed conditions of Consumptive Use Permit (CUP);
- B. Ensure such practices are consistent with the reuse practices identified in the CUP technical staff report;
- C. Ensure current and proposed reuse practices are consistent with the Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP), and the Water Supply Facilities Work Plan adopted by reference in the Potable Water Element and other related reuse plans; and
- D. Ensure these practices are incorporated into the Potable Water Element's Water Supply Facilities Work Plan. Track and identify how the use of reuse water is achieving the County's goals of reducing need for ground water to meet overall water demands.

**Policy POT 1.8      Required Connection to Central Water Service**

The County shall require, within the unincorporated urban area, as described in Exhibit FLU: Urban/Rural Boundary, connection to central water service where available when a County capital project is scheduled and authorized to begin construction in the County's current adopted annual budget or construction is committed to begin within one (1) year in an enforceable schedule contained within a binding developers agreement.

**OBJECTIVE POT 2      EFFECTIVE POTABLE WATER OPERATION**

The County shall correct deficiencies and maximize the use of existing facility capacity by using the most cost effective and efficient means of providing water production, treatment, and transmission to the service areas.

**Policy POT 2.1      Continuation of User-fee Operation**

The County shall continue to construct and operate County-owned and operated water facilities by means of user fees and, when in the best interest of the County, make use of available federal and State funds.

**Policy POT 2.2      Priority of Water Service**

The County shall establish the priority of water service as follows in order of priority:

- A. Maintenance to the existing water system where immediate threats to public health or safety exist;
- B. Maintenance or upgrading of the existing water system to correct deficiencies, should they arise, and to meet the adopted level of service standards; and
- C. Service to new development areas.

**Policy POT 2.3      Minimum Construction Standards**

The County shall provide for regulation of the construction of facilities within unincorporated Seminole County by means of the water and sewer standards as set forth in the Land Development Code.

**Policy POT 2.4      Acquisition of Utilities to Augment Capacity**

The County shall continue to evaluate the acquisition of private water utilities to augment system capacity, upgrade potable water service, maximize facility use and increase cost effectiveness through economies of scale where economically feasible, where the private utility meets quality and safety standards, and where such acquisition is supportive of the County's long- term water planning strategy.



### **OBJECTIVE POT 3 LEVELS OF SERVICE**

The County shall establish and maintain a set level of service for each County potable water facility by providing facilities with sufficient capacity to meet projected service demands.

#### **Policy POT 3.1 Levels of Service Standards**

The County shall continue to maintain adopted levels of service standards through the day-to-day activities of the Department of Environmental Services and the implementation of the adopted Capital Improvements Element and the adopted annual budget.

The following levels of service standards are adopted for each individual service area:

- A. 350 gallons/day/Equivalent Residential Unit. Flow demands for commercial, industrial or other special developments differing from the flow values established by the serving utility shall be established from existing records or by estimated projections, using the best available data.
- B. Fire flows in single family residential areas shall provide 600 gpm at a 20 psi residual pressure. Fire flows in commercial, institutional, industrial areas and apartment or multi-unit complexes shall provide 1,250 gpm at a 20 psi residual pressure.
- C. Each treatment facility shall be maintained with a peak capacity at a minimum of two (2) times the average capacity.
- D. These levels of service shall also be applied for planning purposes to private and city utilities serving unincorporated customers unless a different level of service is authorized by the Florida Department of Environmental Protection (FDEP) or as adopted in a comprehensive plan.
- E. The County shall continue to operate in compliance with all rules and requirements of the FDEP, as well as all other applicable laws, rules and regulations, including but not limited to peak day, peak hour and service pressure requirements.

#### **Policy POT 3.2 Potable Water Master Plan**

The County shall update the Potable Water Master Plan every five years. As part of the update, the County shall conduct a level of service review to determine if adjustment of the existing level is necessary based on, but not limited to, historical data and projected demand. The Water Supply Facilities Work Plan (Work Plan), which is adopted by reference in the Potable Water Element and serves as data and analysis for the Potable Water Element, shall be consistent with the Potable Water Master Plan.

#### **Policy POT 3.3 New and Replacement Equipment**

The County shall maintain the established levels of potable water service through the acquisition of new and replacement equipment in accordance with the adopted five year Capital Improvements Element.

#### **Policy POT 3.4 Transmission Lines**



The County shall ensure that future transmission lines are sized to adequately meet the projected demands of development according to development phasing needs based upon the adopted/accepted Water Quality Master Plan which uses adopted future land uses as a basis for planning.

**Policy POT 3.5      Timing of Future Treatment Facility Expansion**

The County shall ensure that sufficient treatment facility capacity is maintained, once average daily flow (ADF) equals or exceeds 75% of a facility's permitted capacity or once the sum of current ADF plus future committed ADF equals or exceeds 90% of permitted capacity. A report shall be presented to the Board of County Commissioners by the Environmental Services Department on the need to increase capacity and, if capacity needs to be increased, the method of increase, estimated cost and timing.

**Policy POT 3.6      Adopted Potable Water Service Area Map**

Exhibit POT: County Potable Water Service Areas and Treatment Plants is the adopted potable water service area map for Seminole County. Whether central water usage is required for a particular piece of property within the service area is determined by reference to the Future Land Use Map Series, Exhibit FLU: Services and Facilities by Classification and the regulations governing that property according to its designation in the Series. Generally, when determined to be available in the urban area, new development or existing development with temporary well(s) shall connect to a central water system.

**OBJECTIVE POT 4 COORDINATION AND URBAN SPRAWL**

The County shall coordinate the extension of lines or increase of facility capacity with adjacent municipal and private facilities and discourage urban sprawl through implementation of the following policies:

**Policy POT 4.1 Evaluation of Service Area Expansion**

The County shall evaluate the impact on delivering adequate service to residents within the adopted service area as depicted in Exhibit POT: County Potable Water Service Areas and Treatment Plants prior to the expansion of a potable water service area outside the adopted service area boundaries. The County shall not expand the service area if the adopted level of service in the existing service area cannot be maintained or if the expansion will encourage urban sprawl.

**Policy POT 4.2 Methods of Providing Potable Water Outside of the Adopted Urban Service Area**

Outside of the Adopted Urban Service Area as depicted in Exhibit FLU: Special Area Boundaries, the County shall:

- A. Continue to rely primarily upon individual wells as the method of providing potable water to the residents and other occupants outside the urban services area;
- B. Encourage private central systems that exist as of the adoption date of this Plan to continue to provide an adequate level of service to users in their respective service areas, although the County shall discourage them from expanding their service areas;
- C. New development outside adopted central service areas shall not be designed nor constructed with central water and/or sewer systems; and
- D. Public and private central systems may be permitted in the future if it is clearly and convincingly demonstrated by the proponents of the system expansion that a health problem exists in a built but unserved area for which there is no other feasible solution. In such cases, the service area expansion plans will be updated concurrent with an areawide administrative land use update.

**Policy POT 4.3 Existing Package Plants**

Existing package plants (.e.g., schools, mobile home parks, etc.) shall be requested by the County to connect to the County system when service becomes available.

**Policy POT 4.4 Wholesale Agreements**

- A. The County shall enter into wholesale agreements with municipal and/or private utilities to encourage the most cost effective and efficient provision of water services and to avoid duplication of services during County expansion of capacity or lines when and where economically feasible and supportive of the County's long term water planning strategy.
- B. Wholesale agreements shall be incorporated as needed into the Support Documents of the Water Supply Facilities Work Plan (Work Plan) and designed to support and further advance the Work Plan.



**Policy POT 4.5**

**Extension of Service to New Development**

The County shall continue to require new development to fund the cost of extending water lines to serve their development.

**OBJECTIVE POT 5 COORDINATION OF POTABLE WATER AND LAND USE PLANNING**

The County shall coordinate land use planning with the management of water source and supply plans through the Comprehensive Plan, local water supply initiatives and the Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP), including the 2035 Water Resources Protection and Water Supply Strategies document, jointly developed and adopted by the St. Johns River Water Management District, South Florida Water Management District and Southwest Florida Water Management District. The CFWI RWSP supersedes the St. Johns River Water Management District's Regional Water Supply Plan of 2005 (DRWSP 2005).

**Policy POT 5.1 Ten-Year Water Supply Facilities Work Plan**

The County shall maintain a Water Supply Facilities Work Plan (Work Plan) for at least a ten (10) year planning period addressing water supply facilities necessary to serve existing and future development within the County's water service areas and support other local and regional water supply plans. The Seminole County 10-Year Water Supply Facilities Work Plan, prepared by Reiss Engineering, Inc, of Winter Springs, Florida and dated June 2017 is hereby adopted by reference into the Potable Water Element of the Comprehensive Plan. The 10-Year Water Supply Facilities Work Plan may be found in the Seminole County Environmental Services Department, the Development Services Department, and on the Seminole County web site under each of the respective Department's web page.

**Policy POT 5.2 Consistency of the Work Plan with the Capital Improvements Element**

Capital projects scheduled in the first five years of the ten-year Work Plan shall be included in the Capital Improvements Element as shown in CIE Exhibit *2017 10-Year Water Supply Facility Work Plan 5-Year Capital Improvement Schedule*. This schedule shall be updated annually as necessary to maintain consistency with the capital projects listed in the Work Plan and within 18 months following an update to the Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP) and subsequent revision to the Work Plan.

**Policy POT 5.3 Coordination with the Seminole County Water Master Plan**

The County shall use the Work Plan in conjunction with the County Water Quality Master Plan to prioritize and coordinate the expansion and upgrade of facilities used to withdraw, transmit, treat, store and distribute potable water to meet future needs.

**Policy POT 5.4 Coordination of Water and Land Use Planning**

The County shall coordinate the data contained in the Water Supply Facilities Work Plan with the adopted Future Land Use Map and the socio-economic data projections for the Comprehensive Plan. The County shall coordinate the Work Plan with the adopted Future Land Use Map in two ways:

- A. Long-range water supply planning to meet future service demand shall be based upon the County's projection of socio-economic data done as part of each seven-year Evaluation and Appraisal of the Seminole County Comprehensive Plan, or more frequently as needed. The projections for population, housing, employment, etc., are based on the designated future land use categories and potential for development, redevelopment and infill development in portions of unincorporated Seminole County. The projections therefore provide a reasonable



estimate of future service demand by location, and serve as the starting point upon which the ten-year water demand projections need to be based.

- B. Prior to issuing a building permit, the County shall continue to require a concurrency review finding that the calculated water service demand can be met by available and as yet uncommitted facility capacity and water supply.

**Policy POT 5.5      Coordination and Consistency with the St Johns Water Management District Regional Water Supply Plan**

The County shall continue to coordinate with and be consistent with the most current Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP) when updating the data or amending the ten-year Water Supply Facilities Work Plan (Work Plan). At a minimum, this coordination shall take place within 18 months following an update to the CFWI RWSP, generally undertaken every five (5) years. Any necessary changes will be included in the policies of the Potable Water Element and supporting data and analysis will be included in the text of the Work Plan. Where appropriate and feasible, the Work Plan shall include collaborative approaches with other local governments for water supply source use and development and water resource development.

**Policy POT 5.6      Coordination with District and Local Water Providers**

The County shall coordinate and consider with the St. Johns River Water Management District (District) and other local governments on the development of efficient, cost effective, and technically feasible water supply sources that will supplement future demands, without causing adverse impacts to water quality, wetlands, and aquatic systems. Consideration and coordination efforts made for each major water project shall be noted in the Work Plan. The County shall continue to work with the "Cooperators Group" of the District, County and Cities towards the development and evaluation of implementing a Countywide water supply plan.

**Policy POT 5.7      Maximize Use of Facilities and Supply Sources**

The County shall seek to maximize the use of existing potable water facilities, when financially and technically feasible, through the implementation of management techniques that enhance a source of supply, sustain water resources and related natural systems, and/or optimize water supply yield.

**Policy POT 5.8      Assessment of Water Supply Facilities Work Plan during Evaluation and Appraisal**

State statute requires each local government to determine the need for an Evaluation and Appraisal of its comprehensive plan at least once every seven years, to verify that changes in State Law have been incorporated into the Plan. The County shall assess as part of any necessary Evaluation and Appraisal:

- A. The extent to which the County has considered the Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP) and met the needs identified in the Potable Water Element by implementing projects identified in the supporting documentation of the ten-year Water Supply Facilities Work Plan (Work Plan) for building public,



private, and regional water supply facilities, including the development of alternative water supplies.

- B. The extent to which the County has been successful in identifying alternative water supply projects, traditional water supply projects, and conservation and reuse programs to meet the water needs identified in the Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP) or subsequent updates.

#### **Policy POT 5.9 Water Conservation Programs and Practices**

The County shall implement and maintain conservation water programs and practices that will result in a reduction of potable water demand. A description of each is detailed in the Water Supply facilities Work Plan adopted by reference in the Potable Water Element. These programs and practices include:

- A. Implementation of public education and outreach programs
- B. Implementation and enforcement of Water Conservation Ordinance (as may be amended), which implements an irrigation program and conservation requirements
- C. Periodic system water audits.
- D. Residential irrigation audit program
- E. Rate structure modifications to promote efficient use of water
- F. Regulations that override green lawn deed restrictions
- G. Development incentives for water efficient developments, such as those that use the Florida Water Star program
- H. Requiring water conserving plumbing devices, including those required by the Florida Building Code
- I. Meter replacement program
- J. Emphasizing Florida friendly/Waterwise irrigation practices
- K. Reporting free flowing wells to SJRWMD's Abandoned Artesian Well Plugging Program
- L. Implementing CUP conditions relative to water conservation
- M. Implementing the water conservation plan(s) submitted by the County as part of the consumptive use permit (CUP) process
- N. Other conservation programs and practices

#### **Policy POT 5.10 Reclaimed Water Programs and Practices**

Implement and maintain the following reclaimed water programs and practices that will result in a reduction of potable water demand:

- A. Reclaimed Ordinance – The County shall enforce the adopted ordinance requiring that residential development approved by the Board of County Commissioners that is within one of the designated reclaimed service areas as depicted in Exhibit POT: County Reclaimed Water Service Areas:
  - 1. Install separate irrigation lines for new development in areas currently served or scheduled to be served by reclaimed water;
  - 2. Connect existing water services once reclaimed is available;
  - 3. Install irrigation meters; and
  - 4. Install appropriate irrigation systems.



- B. Evaluate the Reclaimed Water Program as part of each future Evaluation and Appraisal Report.
- C. Residential Reclaimed Retrofits - The County shall complete the five (5) residential reclaimed retrofits listed in the Water Supply Facilities Work Plan per the schedule provided in Support Document #1.
- D. Reclaimed Augmentation Facility – The County shall design and construct a surface water reclaimed augmentation facility at Yankee Lake site per adopted Capital Improvements Plan project list. The County shall create and implement a plan to eventually use surface water as the primary back-up source to augment peak reclaimed water demands.
- E. Tri-Party Agreement - The County shall continue to participate through a tri-party agreement with the Cities of Lake Mary and Sanford in implementing the North Seminole Regional Reclaimed Water And Surface Water Augmentation System Expansion and Optimization Project through the Joint Participation Agreement Between City Of Sanford, City Of Lake Mary, And Seminole County Providing For Reclaimed/Water Alternative Water Supply Distribution Infrastructure (Tri-Party Agreement).
- F. Eastern Regional Reclaimed Water System – The County shall continue to maintain its agreement with the City of Orlando to maintain its reclaimed water allotment from the Iron Bridge Waste Water Treatment Plant for sale to the City of Oviedo and the University of Central Florida and the expansion of reclaimed service to new residential developments in identified reclaimed areas of the Southeast Service Area.

**Policy POT 5.11 Compliance with the Wekiva Parkway and Protection Act**

The policies in the Potable Water Element that are based on the Water Supply Facilities Work Plan (Work Plan) adopted by reference are intended to meet the requirements of the Wekiva Parkway and Protection Act by addressing jurisdictional water facilities necessary to serve existing and new development for which the County is responsible.

**Policy POT 5.12 Concurrency Requirements for Potable Water**

Adequate water supplies, and potable water facilities shall be in place and available to serve new development no later than the issuance by the County of a certificate of occupancy or its functional equivalent. Prior to approval of a building permit or its functional equivalent, the County shall consult with the applicable water supplier to determine whether adequate water supplies to serve the new development will be available no later than the anticipated date of issuance by the County of a certificate of occupancy or its functional equivalent.

**Policy POT 5.13 Meter Replacement Program**

The County shall initiate a meter replacement program by the end of 2008 to ensure the accurate measurement of customer usage.