

**BREVARD COUNTY COMPREHENSIVE PLAN**

**CHAPTER VI**

**POTABLE WATER ELEMENT**

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# POTABLE WATER ELEMENT

## GOALS, OBJECTIVES AND POLICIES

### GOAL 1

BREVARD COUNTY SHALL PURSUE A POTABLE WATER SUPPLY WHICH DOES NOT DEplete THE FRESHWATER RESOURCE AND IS SAFE, ENVIRONMENTALLY SOUND, AND EFFICIENT.

#### Objective 1

Brevard County shall strive to utilize potable water more efficiently on a per capita basis.

#### Policy 1.1

Brevard County shall maintain efforts to increase public awareness and acceptance of water conservation techniques including wastewater reclamation.

#### Policy 1.2

By 2011, the County shall include the following provisions within Land Development Regulations as they pertain to subdivision and site plan reviews in an effort to reduce per capita consumption:

- A. Irrigation systems installed after January 1, 2010, shall be designed to use non-potable water or reclaimed water as the source. Connection to a reclaimed water system is required when available, in accordance with Potable Water Element Policy 1.4
- B. New industrial or commercial development that does not require water meeting potable water quality standards shall be designed to use non-potable water or reclaimed water. Connection to a reclaimed water system is required when available, in accordance with Potable Water Element Policy 1.4
- C. Irrigation systems installed after January 1, 2010, shall utilize micro-irrigation techniques to the greatest extent practical.
- D. Landscaping for new development shall utilize waterwise landscaping principles including limits on the use of landscaping that requires irrigation.
- E. Brevard County shall maintain at a minimum, but not limited to, the following practices and provisions:

- a. Showerhead exchange program;
- b. Toilet rebate program;
- c. Maintain water main replacement program;
- d. Require low flow plumbing fixtures;
- e. Require dual piping for reclaimed water in reclamation areas.
- f. Provision of leak detection/ water conservation kits;
- g. Provision of water conservation and restriction messages on utility bills.

### **Policy 1.3**

The County shall strengthen and enforce the provisions found in the Brevard County Water Source Heat Pump Ordinance in an effort to protect water resources.

### **Policy 1.4**

The County shall identify additional reclamation zones and implement the provisions found in the Brevard County Wastewater Reuse Ordinance.

### **Policy 1.5**

By 2011, Brevard County shall adopt land development regulations to further reduce per capita consumption of potable water.

### **Policy 1.6**

Brevard County's Utility Services Department shall maintain a rate schedule of connection and service fees at an adequate level to provide necessary annual operation and maintenance funds, capital improvements, and renewal and replacement funds, for all County operated potable water systems.

### **Objective 2**

All Brevard County Utilities Department public water supply systems serving Brevard County residents shall be maintained at accepted water quality standards to protect the health of the users of potable water.

### **Policy 2.1**

Brevard County shall meet or exceed the water quality standards found in Chapter 62-550, F.A.C.

### **Policy 2.2**

Brevard County shall cooperate with the Florida Department of Environmental Protection (FDEP) to ensure that the appropriate purveyor of potable water shall notify the users of the public water supply systems when violations of water quality standards occur by following, at a minimum, the procedure found in Chapter 17-22, F.A.C.

**Policy 2.3**

Brevard County, municipalities, the School Board, and all primary and support agencies designated within the Brevard County Comprehensive Emergency Management Plan (CEMP), being governed by the authority of Public Law 93-288, Chapter 62-22, F.A.C, Chapter 252, F.S. and the St. Johns River Water Management District Water Shortage Plan (40C-21, F.A.C.), shall ensure the provision of potable water supplies to users of potable water within Brevard County during or after natural or man-made catastrophes.

**Policy 2.4**

Anyone proposing a new public water supply well shall comply with the policies contained in the Conservation Element.

**Objective 3**

Ensure that the present and future population has access to potable water that is consistent with the service sectors defined in the Future Land Use Element of this Comprehensive Plan.

**Policy 3.1**

The following acceptable level of service standards based on the maximum daily demand are hereby adopted, and shall be used as the basis for determining the availability of facility capacity and the demand generated by a development within the respective service areas. Potable water service areas are those areas depicted in Map 1.

**POTABLE WATER**

<b>SERVICE AREA</b>	<b>LEVEL OF SERVICE STANDARD</b>
MIMS	Residential - 400 gal/residential unit/day Non-Residential - 250 gal/equivalent unit/day
TITUSVILLE	104 gal/capita/day
COCOA	234 gal/ERC/day
SOUTH BREVARD	125 gal/capita/day

**Policy 3.2**

Brevard County's Water and Wastewater Division shall develop and implement a procedure to monitor the water system's level of service (LOS) status, and to determine the impact of a requested development order on available potable water capacity. Consistency with the established LOS determines approval of the development order as it pertains to the Potable Water Element as it pertains to the Potable Water Element. The gallons per day criteria for residential and non-residential consumption as established by the individual water suppliers shall be used as the criteria to measure the available capacity of the applicable water treatment plant.

### Policy 3.3

Recognizing that acceptable level of service standards may not be achieved in practice and to avoid the possibility of curtailment of potable water service, the Brevard County water service agency shall initiate action (including introduction into the Capital Improvement Element), utilizing a lead time based on a calculated number of years before the design capacity has been reached using the following formulas to ensure additional capacity is on-line within five years:

$$\frac{\text{design capacity} - \text{actual capacity}}{\text{growth rate}} = \text{\# of years to design capacity}$$

$$\text{\# years to design capacity} - 5 \text{ years} = \text{\# of years before necessary inclusion within the CIE}$$

$$\text{growth rate} = \text{percentage capacity increase per year.}$$

Brevard County shall pursue agreements with the other water suppliers in Brevard to adopt and utilize this or a similar procedure.

### Policy 3.4

Newly proposed service areas, expanding restricted service areas, or Public Service Commission (PSC) regulated service areas shall be reviewed and approved by Brevard County and applicable agencies.

### Policy 3.5

Potable water facilities and services intended to serve future development needs that are not located in the 0-20 year future potable water service area (see Map 1) shall not be permitted or provided unless the potable water service area is amended in the Potable Water Element of the Comprehensive Plan or a non-governmental entity is the provider of the potable water facilities, so long as the private potable water service is consistent with the Brevard County Comprehensive Plan, the Water Supply Plans of the County, the St. Johns River Water Management District, the City of Cocoa, the City of Titusville, and the City of Melbourne. Nothing in this element will prevent a private property owner from utilizing on-site water sources, such as a well, for individual and personal potable water use.

### Objective 4

Provide the facilities necessary to meet the projected needs of the County-operated public water supply system for the next twenty years by implementing the Brevard County Water Supply Plan dated 2009.

**Policy 4.1**

Brevard County shall continue to implement an wellfield expansion program to increase the safe yield of the surficial aquifer in the north county area, in order to provide an adequate and dependable water supply source to meet the current and future needs of the County-operated water system.

**Policy 4.2**

Brevard County supports the efforts of the Brevard Water Supply Board to meet the future needs of Brevard County which is consistent with and supportive of the provisions found in the Brevard County Comprehensive Plan, the Water Supply Plans of the County, the St. Johns River Water Management District, the City of Cocoa, the City of Titusville, and the City of Melbourne.

**Policy 4.3**

Brevard County shall continue cooperative efforts with other governmental entities, both within the County and outside of the County, for the planning, implementation, and management of water resources and supplies.

**Policy 4.4**

A potable water interconnect should be established and maintained between all of the publicly owned water systems in order to provide potable water during emergencies.

**Policy 4.5**

For potable water uses, Brevard County should utilize the highest quality water source, whenever economically and environmentally feasible.

**Policy 4.6**

Brevard County shall evaluate the Water Supply Plan and its projections at least every five years and amend the Water Supply Plan and Comprehensive Plan as may be necessary. Brevard County shall also update the Water Supply Plan within 18 months after the St. Johns River Water Management District approves an update to the regional water supply plan if the changes to the regional water supply plan affect Brevard County.

**Policy 4.7**

Brevard County shall continue to participate in the development of updates to the St. Johns River Water Management District Regional Water Supply Assessment and Water Supply Plan and any other water supply development-related initiatives facilitated by the District that would affect the County.

**Objective 5**

Brevard County shall maximize the use of existing potable water supplies facilities to discourage urban sprawl and encourage efficient, sustainable development and re-development.

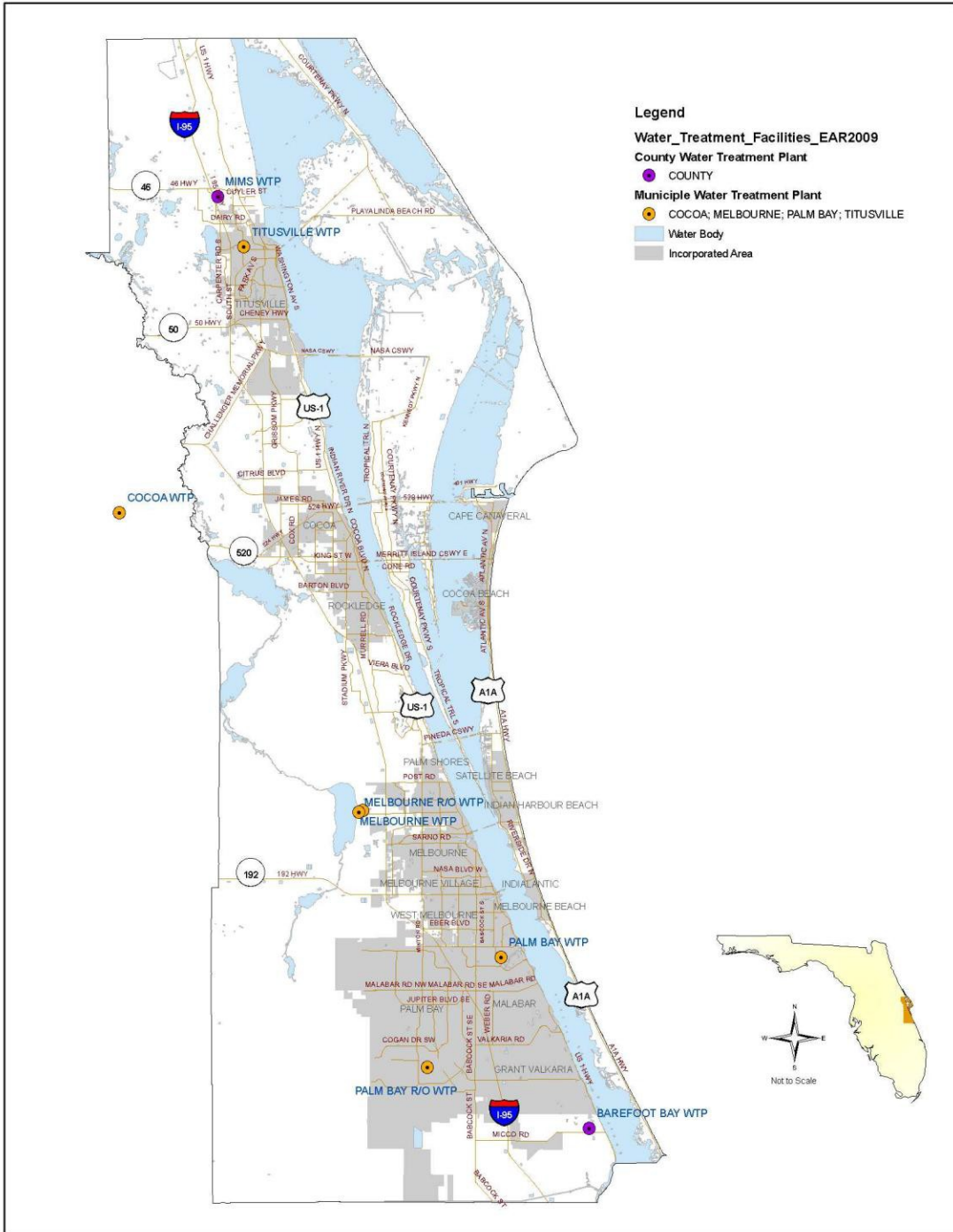
**Policy 5.1**

The development and use of County-owned potable water facilities and systems shall be for the overall public benefit by providing potable water for public consumption, maximizing the efficient and effective provision of potable water and minimizing construction, operation, and maintenance costs.

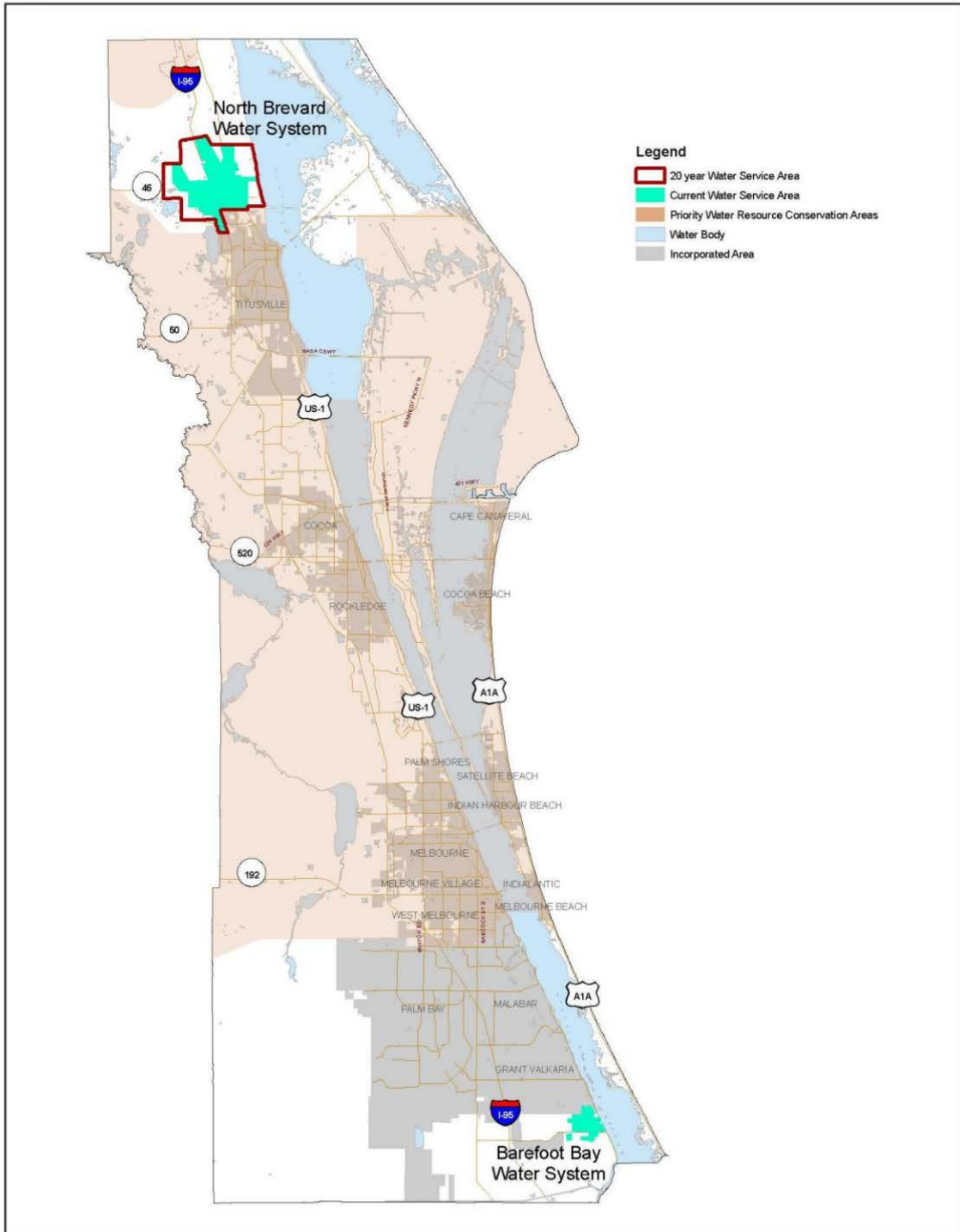
**APPENDIX**  
**LIST OF MAPS**

<b>Map</b>	<b>Title</b>
<b>1</b>	<b>Potable Water Treatment Plants</b>
<b>2</b>	<b>Existing Potable Water Customers and Future Service Areas</b>





Potable Water Element  
Potable Water Treatment Plants



**Potable Water Element  
Existing Potable Water Customers and Future Service Areas**