

Comprehensive Plan

Chapter 4
Potable Water
Sub-Element

Goals, Objectives, and Policies

City of Edgewater
Ordinance No. 2019-O-06

GOALS, OBJECTIVES AND POLICIES

GOAL 1: The City will provide potable water supply and treatment facilities designed to protect the public health and environment, will cause those facilities to be available concurrent with development and will construct and operate those facilities in an efficient manner.

Objective 1.1: *Potable Water Supply and Treatment Capacity.* Ensure that the sufficient potable water supply and treatment capacity exists prior to the issuance of new development approvals.

Policy 1.1.1: *Average Potable Water Demand Level of Service.* An average potable water demand of 204 gallons per ERU per day is hereby established as the standard level of service for Edgewater's potable water system.

Policy 1.1.2: *Determining Capacity Demand.* The established level of service standard of 204 gallons per ERU per day will be used to determine the capacity demand generated by proposed development.

Policy 1.1.3: *Proposed Improvements and Level of Service Standard.* All proposed improvements to the potable water system, including capacity increase, system expansion, or facility replacement will be consistent with the established level of service standard.

Policy 1.1.4: *Concurrency Management System.* Prior to approval of a building permit or its functional equivalent, the City shall determine that there will be adequate water supplies and facilities available no later than the date at which the City anticipates issuing a certificate of occupancy to serve the new development. All development is subject to the City's Concurrency Management System.

Policy 1.1.5: *Inventory of Water Supply Facilities and a Plan for Improvements.* The City shall maintain an ongoing inventory of water supply facilities and a plan for improvements needed to support existing and future demands. These shall be included in the *Water Supply Facilities Work Plan (WSFWP)*.

Policy 1.1.6: *Tracking Current Water Demand and Outstanding Commitments.* The City shall track current water demand and outstanding commitments in order to determine the availability of an adequate water supply for proposed developments.

Objective 1.2: *Potable Water Facility Concurrency.* Ensure that all potable water facilities required to support proposed development are available concurrent with such development.

- Policy 1.2.1:** *Developers Purchasing Required Potable Water Capacity.* The City will require developers to purchase required potable water capacity prior to obtaining a development permit.
- Policy 1.2.2:** *New Development Requirement and Potable Water Systems.* The City will require each new development to construct the potable water facilities, i.e. transmission and distribution lines, needed to connect to the existing system.
- Policy 1.2.3:** *Adoption of the City’s Water Supply Facilities Work Plan.* The City hereby adopts by reference the *Water Supply Facilities Work Plan (WSFWP)* dated April 2009 as prepared by the City of Edgewater (see Attachment A of the *Potable Water Element*). The City will maintain a *WSFWP* for a planning period of not less than ten years. The *WSFWP* addresses issues that pertain to water supply facilities and requirements needed to serve current and future development within the City’s water service area. The City shall review and update the *WSFWP* at least every five years. Any changes to occur within the first five years of the *WSFWP* shall be included in the annual *Capital Improvements Plan* update to ensure consistency between the *Potable Water Sub-element* and the *Capital Improvements Element*.
- Policy 1.2.4:** *Restoration DRI Requirements.* The City shall require the Restoration DRI developer to participate in the development of facilities (currently anticipated to be the addition of four Floridan aquifer wells, a storage tank and pump station, raw water transmission lines and additional treatment plant facility for brackish water, an AWS source, to be located at the City’s existing water plant) as needed to provide adequate water supply to the future phases of Restoration consistent with the City’s concurrency requirements and Consumptive Use Permit. The cost sharing terms and other related details shall be set forth in an enforceable Developer Agreement to be executed prior to the issuance of a building permit that would create water demand exceeding the City’s available capacity
- Policy 1.2.5:** *Requirement to Connect to Central Potable Water Systems.* All future development and redevelopment projects shall be required to connect to centralized potable water systems.
- Objective 1.3:** *Facility Operation and Maintenance.* Provide proper operation and maintenance of existing and future potable water system facilities to ensure optimum system performance.
- Policy 1.3.1:** *Operation and Maintenance of the Potable Water System.* The potable water system will be operated and maintained in compliance with applicable local, State and Federal regulations.
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Policy 1.3.2: *Reporting Potable Water Facility Operating Rules Violations.* The City will promptly report any violations of local, State or Federal potable water facility operating rules to the appropriate agency, and shall take immediate steps to correct any violations.

Policy 1.3.3: *Water Treatment Plant Operator Certification.* The City will employ water treatment plant operators with appropriate and current state water treatment plant operator certification.

Policy 1.3.4: *Energy and Water Conservation.* The City will continue to calibrate meters, maintain the distribution system, and perform water audits and other maintenance activities as may be determined to be beneficial to energy and water conservation

GOAL 2: The City shall plan for the expansion or increase in capacity of the potable water system to meet future needs.

Objective 2.1: *Cooperative Planning.* Coordinate with other jurisdictions to avoid duplication of potable water facility construction and operating costs by cooperative planning for service provision to future development.

Policy 2.1.1: *Interlocal Agreements and the Provision of Potable Water.* The City will continue to comply with the term of the latest revisions of the interlocal agreement between the City of Edgewater, City of Oak Hill and Volusia County with regard to provision of potable water services to City of Edgewater, City of Oak Hill and Volusia County residents and will continue to coordinate with Volusia County and the City of Oak Hill to update and revise the agreements as needed to ensure its applicability to anticipated future conditions.

Policy 2.1.2: *Potable Water System Expansion Requirements.* Priority of expansion of the potable water system shall be:

- a) To protect public health and safety, and/or eliminate serious pollution problems;
- b) To enable full use of existing facilities, by in-fill development in areas of current service availability;
- c) To provide a logical extension of existing facilities and service within the City's service area; and
- d) To provide beneficial and sustainable potable water for new development.

Objective 2.2: *Cooperative Planning of Service Providers.* Seek the participation of developers of proposed major developments for cooperative planning of service provisions to future developments.

Policy 2.2.1: *Promoting Development Agreements and Concurrency for New Developments.* The City shall promote developer agreements that result in assured utility development programs that will support and establish concurrency for new development within the guidelines of the SJRWMD's *District Water Supply Plan (DWSP)* and the City's *WSFWP*.

GOAL 3: The City shall seek to reduce its dependence on Upper Floridan aquifer groundwater as its water supply source for new development.

Objective 3.1: *Alternative Water Supply Sources.* Seek alternative water supply sources.

Policy 3.1.1: *Developing Alternative Water Sources.* The City will continue coordinating with the SJRWMD in developing alternative water sources pursuant to guidance of the SJRWMD's *DWSP*.

Policy 3.1.2: *Processing and Distributing Reclaimed Water.* The City will continue to develop facilities for processing and distribution of reclaimed water.

Policy 3.1.3: *Studying Alternative Water Supply Sources.* The City shall study alternative water supply sources as needed to support existing and future demands. These alternative sources shall be included in the *WSFWP*. Additional water supplies required to meet demands not satisfied by traditional groundwater sources will be developed from brackish water sources. Reverse osmosis treatment systems and concentrate disposal facilities will be constructed at the existing water plant site. It is envisioned that up to 2 MGD of brackish water supply and treatment will need to be developed.

Objective 3.2: *Reduction of Current Consumption.* Continue to pursue the reduction of current consumption of potable water in the City.

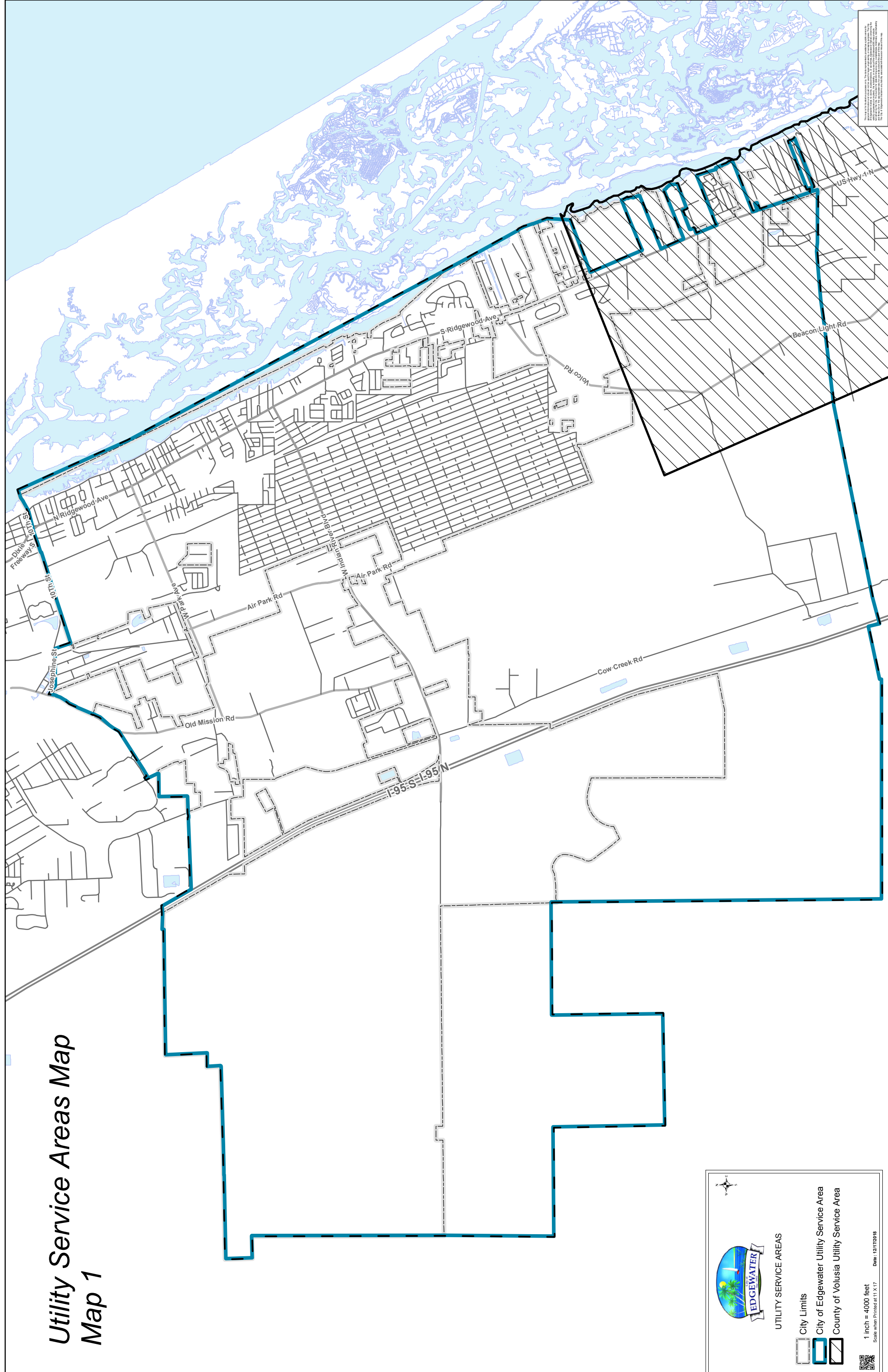
Policy 3.2.1: *Irrigation/Water Intensive Regulations.* The City will continue to develop regulations for less irrigation/water intensive landscaping.

Policy 3.2.2: *Replacing Inefficient Landscapes, Plumbing Devices and Appliances.* The City will continue to promote programs to replace inefficient landscapes, plumbing devices and appliances.

Policy 3.2.3: *Promoting Low Impact Development Techniques.* The City will continue to promote and encourage the use of low impact development (LID) techniques.

Policy 3.2.4: *Indoor Water Audits, Leak Detection and Irrigation System Audits.* The City will study the possibility of implementing a program that provides indoor water audits, leak detection and irrigation system audits.

Utility Service Areas Map Map 1



**EDGEWATER**

UTILITY SERVICE AREAS

-  City Limits
-  City of Edgewater Utility Service Area
-  County of Volusia Utility Service Area

1 inch = 4000 feet
Scale when Printed at 11 X 17
Date: 12/17/2018

This map is for informational purposes only. It is not intended to be used as a legal document. The City of Edgewater is not responsible for any errors or omissions on this map. The City of Edgewater reserves the right to change the map at any time without notice.