

I. INTRODUCTION**[New text, page SS-24]**

The purpose of the Sanitary Sewer Sub-Element is to provide for the health and safety of the residents of Collier County by ensuring adequate wastewater collection and treatment facilities that are cost-effective and environmentally sound. Such facilities may be provided through the Collier County Water-Sewer District, private utilities, other public utilities that operate within portions of the unincorporated County, or (in certain areas) private septic systems. In addition to collection and treatment of residential and commercial wastewater, the Sanitary Sewer Sub-Element also contains provisions regulating the reuse of treated effluent for irrigation purposes. Regardless of the service provider, or the manner in which service is provided to the customer, the provisions of the Sanitary Sewer Sub-Element shall be designed to ensure a safe, consistent and quality level of service for all customers.

**Goal, Objectives and Policies
Sanitary Sewer Sub-Element**

GOAL 1:**[Number Removed, page SS-25]****OBJECTIVE 1.1:****[Renumbered, page SS-25]****Policy 1.1.1:****[Renumbered, page SS-25]****Policy 1.1.2:****[Renumbered, revised text, page SS-25, SS-26]**

Consistent with the urban growth policies of the Future Land Use Element of this Plan, provision of central sanitary sewer service by the County is limited to: the service areas shown in this Plan and depicted on the Collier County Sewer District Boundaries map (Figure SS-1); the Existing and Future Sewer Service Areas map, which includes the Rural Transition Water and Sewer District (Figure SS-2); the Rural Transition Water and Sewer District – Mirasol map (Figure PW-2.1 in the Potable Water Sub-element); Sending Lands within the Rural Fringe Mixed Use District when Density Blending, as provided for in the Density Rating System of the Future Land Use Element, is utilized; and, to areas where the County has legal commitments to provide facilities and services as of the date of adoption of this Plan. Additionally, the County, at its discretion, may serve Towns, Villages, Hamlets, and Compact Rural Developments within the Rural Lands Stewardship Area Overlay (RLSA); ~~Towns, Villages, Hamlets, and Compact Rural Developments within the Rural Lands Stewardship Area Overlay may be served by the County, at the County's discretion;~~ presently, the County has no plans to serve any portion of the ~~Rural Lands Stewardship Area Overlay~~ RLSA. This Overlay is depicted on the countywide Future Land Use Map and map series.

Within the ~~Rural Lands Stewardship Area Overlay~~ RLSA: Hamlets and Compact Rural Developments one hundred (100) acres or less in size may be served by central sewer facilities, and; Towns, Villages and those Compact Rural Developments greater than one hundred (100) acres in size are required to be served by central sewer facilities, and, Compact Rural Developments that are one hundred (100) acres or less in size may be required to be served by central sewer facilities, depending upon the permitted uses

~~within the Compact Rural Development. These facilities may be provided by the private sector, an independent wastewater authority, or some other non-County utility provider. The private sector, Collier County, an independent wastewater authority, or some other non-County utility provider may provide these facilities.~~

For the purposes of this policy and policies ~~1.4.4, 4.5.1, and 4.5.3~~ of this Sub-Element, within the ~~Rural Lands Stewardship Area Overlay~~ RLSA, the term “central sewer facilities” includes decentralized community treatment systems; and, innovative alternative wastewater treatment systems such as decentralized community treatment systems, ~~shall not be prohibited by this policy~~ provided that they meet ~~all applicable regulatory~~ criteria of Chapter 64E-6 F.A.C.

A decentralized community wastewater treatment system shall not exceed a design capacity of 10,000 gallons per day, shall provide an advanced secondary level of treatment, and shall be operated by a public or private entity with responsibility for operations and maintenance in accordance with ~~applicable regulations~~ Chapter 64E-6 F.A.C. System facilities located on individual lots or parcels shall have a utility easement to allow for access and maintenance of the system by the operating entity. The system shall be designed to meet the adopted level of service standards set forth in Policy ~~4.2.1~~ of this Sub-Element.

Policy ~~1.4.3:~~

[Renumbered, revised text, page SS-26]

~~By the time mandated for the adoption of land development regulations pursuant to Chapter 163.3202, F.S., including any amendments thereto, the County will establish and implement a program requiring that private sector sanitary sewer service utilities establish and file with the Collier County Utilities Division an annual statement of their policy and service criteria, including level of service provided, consistent with the goals, objectives and policies of this Plan, for the expansion and/or replacement of their facilities to correct existing deficiencies and provide for future growth within their respective service areas. Also, County Ordinance 80-112 requires any new development connecting to private STP submit capacity availability information with building permit applications. The Collier County Water and Wastewater Authority (Authority), established by County Ordinance Number 96-6, regulates the operations of private sector wastewater treatment utilities that provide sanitary sewer services to portions of unincorporated Collier County. All such private sector sanitary sewer service providers are required to meet the County’s adopted wastewater treatment Level Of Service (LOS). All private sector sanitary sewer service providers shall file an annual statement with the Authority that provides current operating information including, but not limited to: a statement of current policies and service criteria, the LOS maintained by the service provider and whether such level of service meets the County’s LOS Standard for wastewater treatment. The annual report shall also document any necessary or projected facility expansion and/or replacement projects that are required to correct observed deficiencies.~~

Policy 1.4:**[New text, page SS-26]**

Collier County Ordinance Number 80-112 requires new development projects that propose to connect to private sector sanitary sewer service utilities to provide a letter of adequate capacity to the Collier County Building Review and Permitting Department at the time of application for a building permit.

Policy 1.1.4 5:**[Renumbered, revised text page SS-26]**

Collier County shall Ppermit development of package sewage treatment plant systems in areas identified in Policy 1.4-2, on an interim basis until County service is available. The County shall Aallow individual septic systems within the County only when connection to an existing central system is not readily accessible to render service, ~~and note that In portions of the County where septic systems are allowed, at such time as and future County or other central~~ sewer service becomes available, said septic systems will be required to connect to the ~~County regional~~ appropriate central sanitary sewer system.

Within the Rural Lands Stewardship Overlay, consistent with ~~P~~policy 1.4-2: septic systems are permitted within Hamlets; septic systems may or may not be permitted in Compact Rural Developments one hundred (100) acres or less in size depending upon the permitted uses in the Compact Rural Development; and, septic systems are not permitted in Towns, Villages, and those Compact Rural Developments greater than one hundred (100) acres in size. However, in Towns, Villages, and those Compact Rural Developments greater than one hundred (100) acres in size, septic systems are allowed to serve no more than 100 acres, on an interim basis only, until central service is available.

~~Policy 1.1.5:~~**~~[Deleted text, page SS-26]~~**

~~Continue enforcement of ordinances requiring connection of existing and new development to central sanitary sewer systems when they become available. Connections to a central system shall be made pursuant to Collier County Ordinance 88-4.~~

Policy 1.1.6:**[Renumbered, revised text, page SS-26]**

The County will give Master pPlanning and budgetary ~~emphasis~~priority to regional sanitary sewer system projects, which will provide the means for phase out and connection of existing package sewage treatment plants and areas of high concentrations of septic tanks where such facilities may reasonably be expected to adversely affect public health and safety or the environment, or fail to meet the performance standards for such facilities in Chapter 64E-6, F.A.C.

Policy 1.1.7:**[Renumbered, revised text, page SS-27]**

Where Community Development Districts, or similar special districts are established to provide a tool for developers to finance infra-structure or other purposes, wholly or partially within the Collier County Water-Sewer District, sewer service will be connected to the regional system, and all facilities shall be conveyed, when acceptable, to the

Collier County Water-Sewer District for operation and ownership in accordance with Collier County Ordinance Number 01-57, adopted October 23, 2001, and District construction and operating policies.

OBJECTIVE 1.2: [Renumbered, revised text, page SS-27]

~~By the time mandated for the adoption of land development regulations pursuant to Chapter 163.3202, F.S., including any amendments thereto, implement procedures to ensure that at the time a No development order is shall be issued, by Collier County without demonstration that~~ sanitary sewer facility capacity that meets or exceeds the minimum Level of Service Standards established herein is available or will be available to serve the development under the guidelines established for concurrency in the Capital Improvement Element of this Plan.

Policy 1.2.1: [Renumbered, revised text, page SS-27, SS-28, SS-29]

The following Level of Service (LOS) standards are hereby adopted and shall be used as the basis for determining the availability of facility capacity and the demand generated by a development:

FACILITY SERVICE AREA	LEVEL OF SERVICE STANDARD
Collier County Facilities	
North Sewer Service Area	145 gpcd
South Sewer Service Area	100 <u>120</u> gpcd
<u>Southeast Sewer Service Area</u>	<u>100 & 120</u> gpcd
<u>Northeast Sewer Service Area</u>	<u>120 & 145</u> gpcd
<u>East Central Sewer Service Area</u>	<u>120</u> gpcd
Marco Island Sewer District	
Unincorporated Service Area (Marco Shores)	100 gpcd
City of Naples Facilities	
Unincorporated Service Area	145 gpcd
Everglades City Facilities	
Unincorporated Service Area	100 gpcd
Independent Districts/Private Sector Systems	
Orangetree Utilities	<u>100</u> gpcd
Immokalee Water and Sewer District	<u>100</u> gpcd
Florida Governmental Utility Authority	<u>100</u> gpcd
<u>Private Sector Systems</u>	*

* The standards hereby adopted are the following sewage flow design standards in ~~(Source: Chapter 10D-6~~ 64E-6008, Florida Administrative Code), unless otherwise

approved by the Board of County Commissioners to address economic, social and construction method variations between individual systems.

TYPE OF ESTABLISHMENT	GALLONS PER DAY (GPD)
Commercial	
Airports	
a. <u>Per passenger</u>	5
b. Add per employee	20
Barber and Beauty shops (per chair)	100
Bowling Alleys (toilet wastes only per lane)	100
Country Club	
a. <u>Per resident member</u>	100
b. <u>Per member present</u>	25
c. <u>Per employee</u>	20
Dentist Offices	
a. <u>Per wet chair</u>	200
b. <u>Per non-wet chair</u>	50
Doctors Offices (per doctor)	250
Factories, exclusive of industrial wastes (gallons per person per shift)	
a. <u>No showers provided</u>	20
b. <u>Showers provided</u>	35
Food Service Operations	
a. <u>Ordinary restaurant (per seat)</u>	50
b. <u>24-hour restaurant (per seat)</u>	75

TYPE OF ESTABLISHMENT	GALLONS PER DAY (GPD)
c. Single service articles only (per person)	25
d. Bar and cocktail lounge (per person)	30
e. Drive in restaurant (per car space)	50
f. Carry out only	
1. <u>P</u> er 100 square feet of floor space	50
2. <u>A</u> dd per employee	20
Hotels and Motels	
a. Regular (per room)	100
b. Resort hotels, camps, cottages (per person)	75
c. <u>A</u> dd for establishments with self service laundry facilities (per machine)	400
Office Building (per worker)	20
Service Stations (per bay)	500
Shopping Centers without food or laundry (per square foot of floor space)	0.1
Stadiums, Race Tracks, Ball Parks (per seat)	5
Stores (without food service)	
a. <u>P</u> private toilets, for employees only (per employee)	20
b. <u>P</u> ublic toilets (per square foot of floor space)	0.1
Theaters	
a. Indoor, auditoriums (per seat)	5
b. Outdoor, drive ins (per space)	10
Trailer/Mobile Home Park (per trailer space)	200
Travel Trailer/Recreational Vehicle Park	
a. Travel trailer (overnight), without water and sewer hook up (per trailer space)	50
b. <u>A</u> dd for water and sewer hook up (per trailer space)	100
Swimming and bathing facilities (per person)	10
Institutional	
Churches (per seat)	3
Hospitals (per bed)	200
Nursing, rest homes (per person)	100
<u>Parks, with public picnic facilities</u>	
a. <u>W</u> ith toilets only (per person)	5

TYPE OF ESTABLISHMENT	GALLONS PER DAY (GPD)
b. <u>W</u>with bathhouse, showers and toilets (per person)	10
Public institutions other than schools and hospitals (per person)	100
Schools (per student)	
a. D day type	15
b. A add for showers	5
c. A add for cafeteria	5
d. A add for day school workers	15
e. B boarding type	75
Work/Construction camps semi-permanent (per worker)	50
Residential	
Residences	
a. Single family (per bedroom)	150
b. A apartment (per bedroom)	150
c. Mobile home not in a trailer park (per bedroom)	150
d. Other (per occupant)	75

Footnotes:

1. ~~For food service operations, kitchen wastewater flows shall normally be calculated as sixty six percent (66%) of the total establishment wastewater flow.~~
2. ~~Systems serving high volume establishments, such as fast food restaurants and service stations located near interstate type highways, require special sizing considerations due to above average sewage volume expected from restroom facilities.~~

Policy ~~1.2.2:~~ **[Renumbered, page SS-29]**

Policy ~~1.2.3:~~ **[Renumbered, page SS-29]**

Policy ~~1.2.4:~~ **[Renumbered, revised text, page SS-30]**

The County shall ~~Annually~~ review historical sanitary sewer demand records and adjust these LOS standards, as referenced in Policy 2.1, if so indicated by said annual review.

OBJECTIVE ~~1.3:~~ **[Renumbered, revised text, page SS-30]**

The County will continue to ensure utilization of environmentally sound and economically beneficial methods for disposal of treated sludge and septage, and will also ensure that such practices are followed by private utilities regulated by the County.

Policy 1.3.1: [Renumbered, revised text, page SS-30]

The County shall ~~include~~ maintain sludge de-watering and stabilization facilities ~~with all for use by~~ County wastewater treatment ~~plants~~ operations to produce sludge de-watered and stabilized to a degree suitable for use as cover material for County landfills or to be used for any suitable manner that is permitted by law. The County shall ensure that private wastewater utilities regulated by the County follow similar practices.

OBJECTIVE 1.4: [Renumbered, page SS-30]**Policy 1.4.1:** [Renumbered, revised text, page SS-30]

The County shall ~~N~~negotiate agreements with area golf courses to accept and use treated wastewater effluent for irrigation when and where ~~same~~ it is available from existing and future wastewater plants.

Policy 1.4.2: [Renumbered, revised text, page SS-30]

The County shall ~~C~~connect existing and future publicly owned lands that are suitable for irrigation with treated wastewater effluent, such as government building grounds, parks, and highway medians, when economically feasible and in accordance with the direction and policy of the Board of County Commissioners.

Policy 1.4.3: [Renumbered, revised text, page SS-30]

The County shall ~~C~~connect existing and future privately owned land that is suitable for irrigation with treated wastewater effluent, such as cemeteries, nurseries and commercial/industrial parks, when economically feasible and in accordance with the direction and policy of the Board of County Commissioners.

Policy 1.4.4: [Renumbered, revised text, page SS-30]

At such time ~~that~~ as a source of treated effluent ~~will be~~ becomes available, the County shall permit the construction and connection of dual water systems (i.e., separate potable water and treated wastewater effluent networks) to the County's treated effluent irrigation system (i.e., separate potable water and treated wastewater effluent) in new subdivisions, provided that said connection causes no adverse impact to the potable water system.

Policy 1.4.5: [Renumbered, revised text, page SS-30]

Where Community Development Districts, or other similar special districts are established to provide a tool for developers to finance infrastructure or other purposes, wholly or partially within the Collier County Water-Sewer District, and where such districts make provisions for irrigation via dual systems utilizing effluent and/or other irrigation sources, said systems shall be connected to the regional system when available,

and all internal irrigation systems shall remain in private ownership and be master metered by the County.

Policy 1.4.6: **[Renumbered, revised text, page SS-30]**

The County ~~will~~ shall seek to expand the availability of irrigation water from supplemental ~~water~~ sources through connection of ~~connected~~ such sources to the County's reclaimed water system.

OBJECTIVE 1.5: **[Renumbered, revised text, page SS-31]**

The County ~~will~~ shall discourage urban sprawl and the proliferation of private sector sanitary sewer service suppliers in an effort to maximize the use of existing public facilities through the development order approval process by implementing the following policies.

Policy 1.5.1: **[Renumbered, revised text, page SS-31]**

The County shall ~~Discourage~~ urban sprawl by permitting universal availability of central sanitary sewer systems only: in the Designated Urban Area, in the Designated Urban-Rural Fringe Transition Zone Overlay, in Receiving and certain Neutral Lands within the Rural Fringe Mixed Use District, and in the Rural Settlement District, all of which are depicted on the Future Land Use Map, and in Towns, Villages, Hamlets, and Compact Rural Developments within the Rural Lands Stewardship Area Overlay. These areas are further identified as: within the Collier County Sewer District Boundaries on Figure SS-1 of the Sanitary Sewer Sub-element, except the outlying urban areas of Immokalee, Copeland, Chokoloskee, Plantation Island, and Port of the Islands; within the Rural Lands Stewardship Area Overlay, as each Town, Village, Hamlet and Compact Rural Development is designated; or within the Rural Transition Water and Sewer District Boundaries on Figure SS-2 of the Sanitary Sewer Sub-element; or in Sending Lands within the Rural Fringe Mixed Use District when Density Blending, as provided for in the Density Rating System of the Future Land Use Element, is utilized; and, in areas where the County has legal commitments to provide facilities and service outside the Urban Area as of the date of adoption of this Plan.

Policy 1.5.2: **[Renumbered, revised text, page SS-31]**

The County ~~will~~ shall discourage urban sprawl and the proliferation of private sector and/or package sanitary sewer treatment systems through the development order approval process in order to ~~insure~~ ensure maximum utilization of ~~the~~ existing and planned public facilities. No existing private sector or package treatment system will be permitted to add customers unless all Levels of Service Standards are met, and operations are in conformance with all ~~DER~~ FDEP permits.

Policy 1.5.3:**[Renumbered, revised text, page SS-31]**

As provided for in the Rural Lands Stewardship Area Overlay, and in Policy 1.4.2, central sewer facilities are permitted in Towns, Villages, Hamlets, and Compact Rural Developments. Though not anticipated, it is possible that central sanitary sewer collection lines may extend through lands not designated as a Town, Village, Hamlet or Compact Rural Development; no properties designated other than as a Town, Village, Hamlet or Compact Rural Development ~~is~~ are permitted to connect to these collection lines. Under criteria, properties may be eligible for central sanitary sewer service from Collier County Utilities, or a private sector utility or ~~independent~~ district, within the Receiving Areas identified in the Rural Transition Water and Sewer District, depicted on the Existing and Future Sewer Service Areas map (Figure SS-2) of the Sanitary Sewer Sub-element, subject to availability. Qualifying criteria ~~will~~ shall be limited to the requirements and incentives established in the Future Land Use and ~~the~~ Conservation and Coastal Management Elements of ~~the~~ this Plan to obtain preservation standards established for environmentally sensitive lands in the Sending Areas of the Rural Fringe Mixed Use District. Criteria for central sanitary sewer service eligibility may include, but are not limited to, plans for development which utilize creative planning techniques such as clustering, density blending, rural villages, and TDRs from identified environmentally sensitive areas. Criteria for eligibility may be amended and additional Sending and Receiving Lands may be designated in the future. Central Sanitary Sewer collection lines, within the Rural Transition Water and Sewer District, may extend through Sending Lands; however, no properties designated as Sending Lands may connect to the collection lines.