

VIII. CAPITAL IMPROVEMENT

GREEN COVE

Spring



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VIII. CAPITAL IMPROVEMENT ELEMENT

A. LEVEL OF SERVICE ANALYSIS

Below is a table summarizing the population estimates.

Table VIII-1. 1970-2020 Population Estimates

Year	Service Area Population*
1970	3,857
1980	4,154
1990	4,497
2000	5,378
2005	6,148
2007	6,403
2010	7,016
2020	9,786

Source: City of Green Cove Springs

1. Wastewater

The City of Green Cove Springs has two sewer treatment plants. The capacity of the Harbor Road Wastewater treatment plant is 750,000 gallons per day (GPD) and the capacity of the South Wastewater Treatment Plant is 350,000 gallons per day. These two plants have a combined capacity of 1,000,000 GPD available for sewer service. The completion of the improvements at the Harbor Road facility will create a capacity of 1.25 million gallons per day. The 2020 daily average for wastewater treatment was 872,000 GPD or 70% of the capacity of the plant. The plant has 30% of the plant available to serve existing and future development.

2. Water

Green Cove Springs has a total capacity for water treatment of 6,300,000 GPD. The daily average usage of potable water is 1,213,464 or 20% of capacity. The City has remaining capacity available to serve future development through planning year 2040.

The adopted LOS standard for potable water is 150 GPD per capita. The City can anticipate a 47% demand increase of the water demand through planning year 2040 within the Green Cove Springs Utility Service Area.

3. Water Supply

The Consumptive Use Permit from the St. Johns River Water Management District allows for 1, 779,028 GPD in 2024. This is below the current usage. The City has available water supply to serve the existing and future development.

4. Transportation

All the roads in Green Cove Springs are operating at or below the adopted level of service.



Table VIII-2. Roadway Segment LOS

ROADWAY	FROM	TO	FUNCTIONAL CLASSIFICATION	LENGTH	LANES	DIVIDED?	2020 PEAK	2020 AADT	LOS
US HWY 17 (SR 15) / Orange Ave	North City Limits	Governors St	Principal Arterial – Other Urban	0.4	4	Divided	2,280	29,500	D
US HWY 17 (SR 15) / Orange Ave	Governors St	Center St	Principal Arterial – Other Urban	1.00	4	Divided	2,280	24,000	D
US HWY 17 (SR 15) / Orange Ave	Center St	Ferris St	Principal Arterial – Other Urban	0.20	4	Divided	2,280	22,500	D
US HWY 17 (SR 15) / Orange Ave	Ferris St	Oak St	Principal Arterial – Other Urban	0.10	4	Divided	2,170	21,060	D
US HWY 17 (SR 15) / Orange Ave	Oak St	SR 16	Principal Arterial – Other Urban	0.40	4	Divided	1,890	21,060	D
US HWY 17 (SR 15) / Orange Ave	SR 16	South City Limits	Principal Arterial – Other Urban	0.10	4	Divided	1,300	14,410	C
SR 16 West (Idlewild Ave)	West City Limits	S Oakridge Ave	Major Collector - Urban	1.12	2	Divided	1,270	14,080	C
SR 16 West (Ferris St)	S Oakridge Ave	US 18	Major Collector – Urban	1.12	4	Divided	1,070	11,910	C
SR 16 East (Leonard C Taylor Pkwy)	US 17	Slow Tide Rd	Principal Arterial – Other Urban	0.75	2	Divided	1,720	18,010	D
SR 16 East (Leonard C Taylor Pkwy)	Slow Tide Rd	Bulkhead Rd	Principal Arterial – Other Urban	0.93	4	Divided	1,620	18,010	D
SR 16 East (Leonard C Taylor Pkwy)	Bulkhead Rd	South City Limits (Wildwood Rd)	Principal Arterial – Other Urban	0.36	2	Undivided	1,590	17,750	D
Green Cove Ave / Cooks Ln	S Oakridge Ave	US 17	Major Collector – Urban	0.13	2	Divided	160	1,600	C
CR 15 A / Oakridge Ave	South City Limits	SR 16 W	Major Collector - Urban	0.50	4	Divided	220	2,200	C

Source: *FDOT LOS, NERPM Model*

5. Recreation

The City of Green Cove Springs is committed to upgrading and expanding the recreation facilities of its residents. The existing conditions of the City's facilities are provided in the Recreation & Open Space Data & Analysis.

All of the residents of Green Cove Springs live within 2 miles of one of the City's recreational facilities. Many of the facilities are within 1 1/2 miles of City residents, and rarely more than 2 miles from residents depending on their location. The "radius of area served" requirement is met as all of the facilities are within distances which meet the service area requirements of playgrounds, playfields, and neighborhood and community parks.

B. PROPOSED PROJECTS

As illustrated in the Level of Service Analysis the City of Green Cove Springs does not have any existing deficiencies in public facilities. Capital Improvement Plan for 2021–2026 includes projects to maintain and upgrade public facilities and to plan for anticipated growth. The following charts are from the 21/22 through 25/26 Five Year Capital Improvement Plan.