



Levy County Comprehensive Plan

Water Supply Facilities Work Plan Amendments

Data & Analysis Report (September 22, 2025)

I. Introduction

Section 163.3177(6)(c)4, Florida Statutes, requires local governments to prepare and adopt a Water Supply Facilities Work Plan (WSFWP) into their Comprehensive Plans no more than 18 months after the adoption of their jurisdiction's applicable Regional Water Supply Plan (RWSP). In March 2024, the Suwannee River Water Management District (SRWMD) adopted an updated RWSP (titled the *Western Water Supply Plan* (WWSP)), triggering the requirement for Levy County to adopt a WSFWP into its Comprehensive Plan by September 2025.

To meet this requirement, Levy County has prepared a WSFWP and proposed amendments to the Infrastructure, Conservation, and Intergovernmental Coordination Elements of the Levy County 2045 Comprehensive Plan. These amendments adopt the WSFWP by reference and ensure consistency with the WWSP and related statutory requirements. This data and analysis report provides the information necessary to demonstrate that the proposed amendments are based on relevant and appropriate data, consistent with the requirements of Section 163.3177(1)(f), F.S.

II. Existing Water Supply Systems

Levy County's potable water needs are met through a combination of municipal, private, and County-owned water systems. Incorporated municipalities, such as Williston, Chiefland, Bronson, and others, operate their own utility systems and are responsible for planning to meet the needs of their service areas. In the unincorporated area, potable water service is provided by a mixture of small private utilities, individual wells, and two systems that are owned and operated directly by the Levy County Board of County Commissioners (BOCC). The two County-owned systems are:

- **University Oaks Mobile Home Park (MHP).** This system is located northeast of Bronson along State Road 24. It was originally constructed by a private developer before ultimately being taken over by the Levy County BOCC. The University Oaks MHP system continues to provide central water service to the University Oaks subdivision and its surrounding area.
- **Manatee Utilities.** This system is located in northwest Levy County along NW 115th Street. It was originally built by a private developer and was later assumed by Levy County BOCC. It serves the Chiefland Golf Course Clubhouse and several nearby homes.

Together, these two systems represent the extent of Levy County's direct operational responsibility for providing potable water service. However, only the University Oaks MHP system is addressed within the WSFWP, as it is the only County-owned facility identified in the WWSP for potential improvements. This



data and analysis report supplements the WSFWP by also assessing the projected water demand and supply of the Manatee Utilities system to provide a more complete picture of the County’s responsibility for water supply planning.

III. Anticipated Potable Water Needs

University Oaks MHP Water System

According to the University Oaks MHP WSFWP adopted as part of this amendment package, the system currently possesses 160 active service connections. The Plan assumes an average household size of 2.39 persons per household, resulting in an estimated service population of approximately 383 customers. The system’s average day demand (ADD) is reported as 44,665 gallons per day (GPD), or approximately 280 GPD per connection.

Future demand through the 10-year planning horizon (2024–2034) is projected in the WSFWP using two growth scenarios:

- Scenario A (Low-Growth) – 0.92 percent annual population growth, based on historical trends in the unincorporated area.
- Scenario B (High-Growth) – 2.02 percent annual population growth, based on more recent population growth patterns.

Assuming per-connection demand remains constant at 280 GPD, the WSFWP projects ADD under each growth scenario. These projections are summarized in **Table 1**.

Table 1. University Oaks MHP: Projected Average Day Demand

Year	Growth Scenario	Projected Population	Projected Connections	ADD Per Connection (GPD)	ADD Systemwide (GPD)	ADD Systemwide (MGD)
2024	Baseline	383	160	280	44,665	0.0447
2034	<u>Low Growth</u> (0.92% per year)	418	175	280	49,000	0.0490
2034	<u>High Growth</u> (2.02% per year)	459	192	280	53,760	0.0538

Source: Levy County University Oaks Mobile Home Park Water Supply Facilities Work Plan (September 2025).

Manatee Utilities System

Unlike the University Oaks MHP system, the Manatee Utilities System was not identified by the in the WWSP as a facility in need of improvements. As a result, the County’s WSFWP does not address this system. However, potable water demand projections for Manatee Utilities have been developed using service population and usage data reported in Table A-7b of the appendix of the WWSP. These projections



apply the same growth scenarios used for the University Oaks MHP system. The results are summarized in **Table 2**.

Table 2. Manatee Utilities: Projected Average Day Demand

Year	Growth Scenario ^A	Projected Population	ADD Per Person (GPD) ^C	ADD Systemwide (GPD) ^D	ADD Systemwide (MGD) ^D
2024	Baseline	162 ^B	147	23,814	0.024
2034	<u>Low Growth</u> (0.92% per year)	178	147	26,166	0.026
2034	<u>High Growth</u> (2.02% per year)	198	147	29,106	0.029
^A Growth scenarios match those used for the University Oaks MHP system ^B 2024 population is estimated using 2025 projections from Table A-7b of the WWSP; 2024-specific values were not provided ^C As reported in Table A-7b of the WWSP ^D Calculated by multiplying 'Projected Population' and 'ADD Per Person (GPD)'					

IV. Water Sourcing

Both the University Oaks MHP and Manatee Utilities systems obtain potable water from the Floridan Aquifer, which serves as the primary groundwater source for Levy County and the broader North Florida region. These systems are supplied by groundwater wells permitted by the Florida Department of Environmental Protection (FDEP), and neither currently relies on alternative water supply sources.

V. Capacity and Planned Improvements

University Oaks MHP System

As reported in the WSFWP, the FDEP permitted the water treatment plant (WTP) serving the University Oaks MHP system to have a design capacity of 228,171 GPD. Additionally, it has a water use permit from SRWMD authorizing up to 2,000,000 GPD (2 MGD). Projected demand in 2034 under both low- and high-growth scenarios ranges from 49,000 to 53,760 GPD, which remains well within both the FDEP and SRWMD permitted limits.

The WWSP identifies Phase 4 of the University Oaks MHP distribution system upgrades as the only existing Levy County-owned potable water system in need of improvements. This project involves replacing approximately 6,500 linear feet of deteriorating 6-inch water main with C900 PVC and installing upgraded meters to improve system efficiency and reduce water loss. The improvement is listed in the WWSP as a water conservation project, reflecting the regional emphasis on reducing leakage and improving meter accuracy. Implementation of this project is ongoing and will extend the service life of the system and ensure compliance with state and regional water supply goals.



Levy County Board of County Commission

Development Services Division

320 Mongo Street, Bronson, Florida, 32621

Office: 352.486.5203

Manatee Utilities System

The WTP serving the Manatee Utilities system has a water use permit from SRWMD authorizing a maximum day capacity of 288,000GPD. Projected demand in 2034 under both low- and high-growth scenarios ranges from 26,166 to 29,106 GPD, which remains well within SRWMD permitted limits. The Manatee Utilities System is not identified in the WWSP for improvements. Levy County will continue to operate the Manatee Utilities system and monitor its performance, but given the stable demand projections and currently available capacity, no additional improvements are anticipated within the planning horizon.

VI. Regional Consistency

The WWSP identifies current and future water supply needs and associated projects across the region. Consistent with Section 163.3177(6)(c)4, F.S., the proposed amendments adopt the County's WSFWP by reference and incorporate supporting objectives and policies to ensure alignment with the WWSP. The WSFWP includes the University Oaks MHP Phase 4 distribution system upgrade, the only County-owned project identified in the WWSP. In addition to this project, the WSFWP acknowledges and supports the broader suite of conservation, reuse, and groundwater protection strategies promoted in the WWSP, reinforcing regional priorities. Adoption of the WSFWP through the comprehensive plan amendments ensures consistency with the applicable RWSP, as required by statute.

VII. Sufficiency Statement

The proposed amendments to the Levy County Comprehensive Plan adopt the WSFWP by reference and update related elements to ensure consistency with the WWSP. These amendments are supported by relevant and appropriate data and analysis, including system-level demand projections, capacity evaluations, and regional planning documents. Together, the amendments fulfill the statutory requirements of Sections 163.3177(6)(c)4 and 163.3177(1)(f), F.S., and ensure that Levy County's comprehensive plan remains aligned with state and regional water supply planning efforts.