



HISTORIC TOWN OF EATONVILLE, FLORIDA

COUNCIL WORKSHOP AGENDA

Tuesday, May 21, 2024, at 6:30 PM

Town Hall - 307 E Kennedy Blvd

Please note that the HTML versions of the agenda and agenda packet may not reflect changes or amendments made to the agenda.

- I. CALL TO ORDER
- II. CITIZEN PARTICIPATION (Three minutes strictly enforced)
- III. COUNCIL DISCUSSION
 1. Discussion of the Water and Sewer Infrastructure Master Plan (**Public Works**)
 2. Discussion of the Infrastructure Equity Action Plan (**Public Works**)
 3. Discussion of a Community Benefit Agreement-CBA (**Administration**)
 4. Discussion of Ordinance 2024-2 - Camping on Public Property and Right of Way in the Town of Eatonville (**Legislative**)
- IV. COMMENTS
 5. Staff Comments
- V. ADJOURNMENT

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****PUBLIC NOTICE****

This is a Public Meeting, and the public is invited to attend. This Agenda is subject to change. Please be advised that one (1) or more Members of any of the Town's Advisory Boards/Committees may attend this Meeting and may participate in discussions. Any person who desires to appeal any decision made at this meeting will need a verbatim record of the proceedings and for this purpose may need to ensure that a verbatim record of the proceedings is made which includes the testimony and evidence upon which the appeal is to be based – per Section 286.0105 Florida Statutes. Persons with disabilities needing assistance to participate in any of these proceedings should contact the Town of Eatonville at (407) 623-8910 "at least 48 hours prior to the meeting, a written request by a physically handicapped person to attend the meeting, directed to the chairperson or director of such board, commission, agency, or authority" - per Section 286.26



HISTORIC TOWN OF EATONVILLE, FLORIDA

TOWN COUNCIL WORKSHOP

MAY 21, 2024, AT 06:30 PM

Cover Sheet

****NOTE**** Please do not change the formatting of this document (font style, size, paragraph spacing etc.)

ITEM TITLE: PRESENTATION / DISCUSSION - THE WATER AND SEWER INFRASTRUCTURE MASTER PLAN (Public Works)

TOWN COUNCIL ACTION:

PROCLAMATIONS, AWARDS, AND PRESENTATIONS		Department: PUBLIC WORKS
INTRODUCTIONS		Exhibits: <ul style="list-style-type: none"> • Water Master Plan • Sewer Master Plan • Water Plant Operations Relocation
CONSENT AGENDA		
COUNCIL DISCUSSION	YES	
ADMINISTRATIVE		

REQUEST: Request that Council hear and discuss the 10-Year Water & Sewer Master Plans for the Town of Eatonville Utilities.

SUMMARY: The 10-year water and sewer master plans has been completed and a presentation of the improvements will be made at the Council workshop. Resolution by Council is needed to accept the 10-year Water and Sewer Master Plan. The Plans includes upcoming maintenance activities, grant requests and awards, along with proposed capital improvements. The council will be asked to approve the 10-year plan by resolution. Staff would like to discuss the recommended Master Plans and 10-Year improvement plans. Resolution will be reserved for the Council to consider approving the adoption of the Water and Master Plan. With the scope of the plan the department is recommending the relocation of the water plant operation site.

RECOMMENDATION: Staff is recommending Town Council to Discuss the 10-Year Water & Sewer Master Plans for the Town of Eatonville Utilities.

FISCAL & EFFICIENCY DATA: N/A



WORKSHOP ITEM

UTILITIES INFRASTRUCTURE CONSTRUCTION PROGRAM

FUTURE WATER PLANT OPERATIONS

Prepared by Public Works Department

5/13/2024

Water Plant and New Storage Tank – Site Evaluation

Funding from the FDEP SRF Grant for drinking water in the amount of \$14.5M , will allow the Town to rebuild the water plant with new equipment and controls. In addition, the funding will allow the construction of a new 500,000 gallon ground storage tank, and replace old water mains throughout the town.

Funding is also available with the CDBG-MIT \$5.9 Million grant that the Town received in 2022 and will be added to the SRF funds to construct these improvements.

The new storage tank will accommodate for projected population growth. However, its size may exceed the size of the existing water plant site on 11 Mosely.

This report will evaluate the land use options for the water plant and water storage expansion.

OPTIONS:

- 1) Relocate all water plant and storage operations to the well site adjacent to Lake Bell.
- 2) Keep the water operations on the existing site. Build a new water operations building (2 story). Install a new above ground water storage tank, but with a higher profile. Demolish existing barn and move PW operations and storage to the west storage tank yard.

OPTION 1

Advantages:

- 1) The well, water plant and storage operations will be on a single site allowing activities will be centralized.
- 2) The new plant can be constructed without interfering with ongoing plant operations.
- 3) The existing water plant site can be repurposed for a higher use.
- 4) Funding from the grant will accommodate a landscape, hardscape and fencing package that would provide extensive buffering from the storage tank. This would also allow for a redesign and modernization of the park area outside the Denton Johnson Community Center. The prototype for this solution is the Town of Oakland water treatment facility. See Exhibit 1.



SITE VISIT

The Public Works Department will organize a second site visit to the Town of Oakland's water plant and park, to visualize a potential use in the Town of Eatonville.

FRIDAY MAY 31, 2024 at 1pm

(No Transportation Provided)

OPTION 2

Advantages:

- 1) The new water plant building on the existing site, can be designed to an aesthetic that will enhance the surrounding area. Photos below show a new utility plant in downtown Orlando designed to fit into the neighborhood.

Disadvantages:

- 1) The new water plant and water storage tank on the existing site will further industrialize the historic area of Eatonville.



EXHIBIT 1 – WATER PLANT AT LAKE BELL

The exhibit below, prepared by the EPA Technical Assistance R2P2 consultants, shows how a water plant can be incorporated into the existing recreation site. The exhibit also shows how this work will include a park enhancement, an outdoor venue and passive park and greater visibility of Lake Bell with trails and boardwalk.



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Abbreviations

Abbreviation	Term
AADD	Annual Average Daily Demand
AC	Asbestos Cement Pipe
ARV	Air Release Valve
ASDWA	Amendments to the Safe Drinking Water Act
ATS	Automatic Transfer Switches
AWS	Alternative Water Supply
AWWA	America Water Works Association
BDL	Below Detection Limit
CAR	Capacity Analysis Report
CCI	Construction Cost Index
CCL	Contaminant Candidate List
CCR	Consumer Confidence Report
CEC	Contaminants of Emerging Concern
CFR	Code of Federal Regulations
CFWI	Central Florida Water Initiative
Chapter 550	Chapter 550: Drinking Water Standards, Monitoring, and Reporting
Chapter 555	Chapter 62-555: Permitting, Construction, Operation, and Maintenance of Public Water Systems
Chapter 62-296	Chapter 296: Stationary Sources – Emissions Standards
CIP	Capital Improvements Plan
CO	Consent Order
CRA	Community Redevelopment Agency
CT	Chlorine Contact Time
CTA	Cascade Tray Aerator
CUP	Consumptive Use Permit
CWS	Community Water System
D/DBPR	Disinfectant/Disinfection Byproducts Rule
DBP	Disinfection Byproducts
DIP	Ductile Iron Pipe
EPS	Extended Period Simulation

Abbreviation	Term
ERP	Emergency Response Plan
ERU	Equivalent Residential Unit
EST	Elevated Storage Tank
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOH	Florida Department of Health
FEMA	Federal Emergency Management Agency
FF	Fire-flow
FP	Formation Potential
FPS	Feet per second
ft	Feet
GIS	Geographic Information Systems
GPCD	Gallons per capita day
GPD	Gallons per day
GPM	Gallons per minute
GPM	Gallons per minute
GST	Ground Storage Tank
GWR	Ground Water Rule
H ₂ S	Hydrogen Sulfide
HAA5	Haloacetic Acids
HAL	Health Advisory Level
HDPE	High Density Poly Ethylene
HGL	Hydraulic grade line
HP	Horsepower
IDSE	Initial Distribution System Evaluation
JPA	Joint Planning Area
LCR	Lead and Copper Rule
LF	Linear feet
LFA	Lower Floridian Aquifer
LFAS	Lower Floridian Aquifer System
LOS	Level of Service
LRAA	Locational Running Annual Average
LSL	Lead Service Lines
MCL	Maximum Contaminant Level

Abbreviation	Term
MCLG	Maximum Contaminant Level Goal
MDD	Maximum daily demand
MG	Million gallons
mg/L	Milligrams per liter
MGD	Million Gallons Per Day
MGY	Million Gallons Per Year
MOR	Monthly Operating Report
MRDL	Maximum Residual Disinfectant Level
MSL	Mean Sea Level
NPDWR	National Primary Drinking Water Regulations
NSDWR	National Secondary Drinking Water Regulations
NTU	Nephelometric Turbidity Units
OH&P	Overhead and Profit
pCi/L	Pico Curies per liter
PHD	Peak hour demand
POE	Point of Entry
PRV	Pressure reducing valve
psi	Pounds per square inch
PVC	Poly vinyl chloride
PWS	Public Water System
RAA	Running Annual Average
RPM	Rotations Per Minute
R/R	Repair and Replacement
S ⁰ _(solid)	Elemental sulfur
SAS	Surficial Aquifer System
SCADA	Supervisory Control and Data Acquisition
SDWA	Safe Drinking Water Act
SF	Square feet
SJRWMD	St. Johns River Water Management District
SMCL	Secondary Maximum Contaminant Level
SOC	Synthetic Organic Chemicals
SRF	State Revolving Fund
SS	Steady-state
SWTR	Surface Water Treatment Rule

Abbreviations

Abbreviation	Term
TAC	Technical Advisory Committee
TCR	Total Coliform Rule
TDH	Total Dynamic Head
THM	Trihalomethanes
TOC	Total Organic Carbon
TON	Total Odor Number
Town	Town of Eatonville
TS	Total Sulfide
TTHM	Total Trihalomethanes
UCMR	Unregulated Contaminant Monitoring Rule
UCU	Upper Confining Unit
UFA	Upper Floridian Aquifer
UFAS	Upper Floridian Aquifer System
USDA	US Department of Agriculture
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VA	Vulnerability Assessment
VFD	Variable frequency drive
VOC	Volatile Organic Chemical
WSFWP	Water Supply Facilities Work Plan
WTP	Water Treatment Plant
µg/L	Micrograms per liter

Executive Summary

The Master Plan is intended to provide a guide for orderly expansion, operation, and maintenance of the Town of Eatonville (Town) potable water system. The Town will use this master plan to prepare annual budgets for capital improvements. This Master Plan should be regularly updated to reflect conditions that have changed within the Town's service area. **Updates to the Master Plan should be scheduled every 4 to 5 years.**

Currently, the Town of Eatonville is experiencing significant population growth and development in the service area. Currently, the Town provides potable water to approximately 800 service connections and is projected to increase to approximately 1700 service connections by 2043. The population increase is projected to double water demand from 0.27 million gallons per day (MGD) to 0.66 MGD by 2043. The growth has resulted in necessary revisions to the population and demand projections. This master plan is required to update previous potable water service area projections and assess the need for recommended improvements.

The Town owns PWS No. 3480327. Biometrics Utility operates PWS No. 3480327 per a service agreement with the Town. Site visits were conducted to the water treatment plant and off-site elevated storage tank to assess the current condition of wells, treatment, storage, and pumping facilities. Each component and system were evaluated regarding compliance with the rules of the Florida Department of Environmental Protection (FDEP) for primarily, minimum design and operating capacities.

The Town's water system maps were updated with new planned developments within the potable water service area that have developer agreements and are currently being designed or constructed.

1. Lake Weston Apartments (Under Construction)
2. Enclave Apartments (Under Construction)
3. Host Dime (Under Construction)
4. Hungerford Property (Planning)

In addition, development of available vacant land infill was considered for parcels greater than one acre. Water main upgrades are likely to be required depending on the locations of planned developments.

Specific capital improvements will have to be identified and prioritized by the Town as more planned developments become reality.

Planned development and water mains were incorporated into the Town’s Geographical Information System (GIS). The GIS mapping was then used as a base for hydraulic modeling of the water distribution system. Bentley WaterCAD software was used to hydraulically model the water distribution system under the following four (4) scenarios:

- 1. Existing System – Base Model
- 2. Existing System with Off-Site EST Off-Line
- 3. Planned Development
- 4. Planned Development with Off-Site EST Off-Line

Demands were placed at key nodes throughout the distribution system. The results of the hydraulic modeling identified system upgrades needed to meet water demands through a twenty-year horizon (2043). In general, modeling predicted that under current conditions, fireflow is not attainable on certain 2” lines within the distribution system.

An engineer’s opinion of probable project costs for improvements were compiled and prioritized. Based on the prioritization and current and projected water system revenues a **5-year Capital Improvement Plan (CIP)** was prepared for budgeting approximately **\$0.26 Mil to \$4.00 Mil per year**.

The total probable project cost for the recommended facilities to serve the Town’s potable water system is **\$10.3 Mil** resulting in an estimated cost per residential connection of approximately **\$6,083 per connection** assuming 1,700 total connections (800 existing + 900 planned).

Based on evaluation of the facilities, water system equipment and structures are in fair condition and finished water quality meets regulatory requirements. The Town’s potable water system has the following major challenges:

- A. **Compliance with Disinfection Disinfectant By-Product (D/DBP) Water Quality** – The Town was issued a Consent Order on March 3, 2023, to address D/DBP non-compliance. The chlorine chemical feed system and the off-site elevated storage tank (EST) needs to be refurbished. In addition, the off-site EST needs to “turn-over” more frequently to decrease water age in the

distribution system. Flushing devices were installed in 2023 as an initial strategy to decrease water age.

- B. **Project Funding Sources** – Currently, the Town does not have impact fees established to fund expansion of the water system facility components to meet future development. As a result, the Town uses monthly water rates and secures grant money to fund projects. **The Town should conduct a rate study and impact fee analysis to identify capital improvement funding sources.**

The Town should continue with current CIP projects as identified in the current budget (**Appendix G**). The recommended five-year capital improvements projects for the Public Water System at Class 5 cost estimates are presented in **Chapter 9**.

The Town should continue to evaluate capacity and infrastructure needs to meet projected water demands of future growth; and coordinate capacity and facility expansions with the Future Land Use Map from the Town Development Services Department as guidance to prioritize expansion and upgrade the facilities. CPH offers the following recommendations for the Town to consider updating the current CIP in order of priority:

1. Relocate potable water main along Kennedy Blvd. to accommodate plans by Orange County to widen Kennedy Blvd. from Forrest City Road to Wymore Rd.
 - a. Investigate Relocation of PVC pipe from Lake Weston to S. Keller Rd. If needed, Design/Permit relocation.
 - b. Design/Permit Relocation and Abandonment of A/C pipe from S. Keller Rd. to WTP.
2. Upsize Water Treatment Plant No. 1 discharge water main pipe to at least 16-inch PVC from WTP to Kennedy Blvd.
3. Modify SJRWMD Consumptive Use Permit (CUP) to meet future potable water demands.
 - a. Increase CUP limit to 0.420-mgd to meet the Central Florida Water Initiative (CFWI) 2025 Upper Floridan Aquifer (UFA) limitations.
 - b. Permit Lower Floridan Aquifer (LFA) well to meet future demands. Includes Extended Period Simulation (EPS) hydrogeologic modeling impact evaluation.
4. Explore options to increase well field pumping capacity.

- a. Conduct well pump yield step drawdown test.
 - b. Upsize well pump and motors.
5. Design/Permit/Construct New WTP to replace Existing WTP
- a. Construct new WTP operations building to include new HSPs, chemical feed systems and diesel generator.
 - b. Construct new 500,000-gallon Ground Storage Tank (GST) to meet fire storage requirements. Include demonstration of 4-log virus inactivation CT disinfection calculations to increase consumer confidence.
6. Upsize selected water mains to at least 8-inch PVC to meet fireflow reliability.
7. Design/Permit/Construct/Test LFA well to serve as Alternative Water Source (AWS) to meet demands beyond 2025.
8. Coordinate with City of Maitland to establish emergency interconnections.
- a. Option 1 – Interconnect at S. Keller & Kennedy
 - b. Option 2 – Intersection of S. Lake Destiny Rd. & Kennedy Blvd
9. Establish water distribution (R/R) program to replace water mains less than 6-inches, substandard materials (Asbestos Cement/Galvanized/Unlined Cast Iron), and inoperable isolation valves.

1.0 Introduction

The Town of Eatonville (Town) authorized CPH, LLC (CPH) to prepare a potable water utility master plan for Public Water System (PWS) No. 3480327. This document serves as the Potable Water Utility Master Plan (Master Plan) for Eatonville from Fiscal Year 2023/24 to Fiscal Year 2043/44.

The potable water service area includes both planned development plus infill of available vacant land. Currently, Eatonville provides potable water to approximately 800 service connection customers. Future development and infill are projected to increase service connections to approximately 1,700 by 2043.

The annual average daily demand (AADD) potable water use is projected to increase from approximately 0.27 MGD in 2023 to 0.66 MGD in 2043. The projected maximum day (max-day) demands are expected to reach 1.85 MGD by 2043.

Eatonville operates and maintains two (2) groundwater source wells, which supply the Eatonville Water Treatment Plant (WTP) and distribute to approximately 13 miles of piping and valves to provide the highest quality of water available at the highest level of service.

The St. Johns River Water Management District (SJRWMD), under Consumptive Use Permit No. 3407 (CUP #3407), allows Eatonville to withdraw up to 146 million gallons per year (MGY) (0.40-MGD AADD) from two (2) upper Floridan aquifer (UFA) groundwater source wells until 2032. The CUP expires December 18, 2032. The Florida Department of Environmental Protection (FDEP) has set the maximum day design capacity of the Eatonville WTP to 1.44-MGD.

1.1 Purpose

The purpose of the Master Plan is as follows:

- Analyze the capabilities of the existing water system.
- Compare existing capabilities to the current and future needs.
- Project a capital improvements program (CIP) for future development over the next 20-year planning horizon.

1.0 Introduction

The Master Plan is intended to provide a guide for the orderly expansion of Eatonville’s potable water system. The Master Plan includes evaluations of the water treatment plant (WTP) capacity, the water distribution system, preliminary locations for additional facilities, and a description of techniques that may be appropriate for implementation by the PWS described by the Master Plan.

Contained within this Master Plan is a detailed description and analysis of the Town of Eatonville’s potable water system. Included are recommendations for improvements to the water system to meet the projected population increase within the service area. The population projections contained in this report for the water system were developed from historical demand data.

1.2 Goals

Goals of Eatonville’s potable water system are as follows:

- ❑ Maintain potable water services that are highly reliable
- ❑ Meet or exceed regulatory requirements
- ❑ Serve existing and future development
- ❑ Construct and maintain adequate infrastructure
- ❑ Serve customers in an environmentally sound manner
- ❑ Serve and operate in a cost-efficient manner
- ❑ Meet fire flow protection demands
- ❑ Minimally rely on wholesale agreements with other service providers (**N/A at this time**)

1.3 Tasks

Formal master planning efforts are a prudent and necessary means of laying the groundwork for the orderly and economical expansion of facilities to meet the needs of growing communities such as Eatonville. This Master Plan is intended to provide Eatonville with a program for potable water system expansion to a planned 20-year horizon within the current Service Area.

This Master Plan was prepared using the best available data for the existing facilities, customer base and projected planned development for the PWS. The recommended improvements to the PWS are accompanied by a suggested CIP implementation schedule and construction cost opinions to aid

Eatonville in planning for the future. This report presents planning level recommendations for the potable water system. The following tasks were developed for this Master Plan:

- 1) **Evaluated Water System Capacity** - Evaluate the capacity of the potable WTP facilities and distribution system to service current and planned future population within Eatonville’s potable water service area. Future potable water demands were projected based on serving existing customers and planned new developments plus infill of available vacant land.
- 2) **Recommended Capital Improvements Plan (CIP)** – Recommend immediate, near-term (5-year) and long-term (20-year) improvements to develop CIP projects for the potable water treatment facilities and distribution system.

1.4 Need for the Master Plan

The Town has experienced a steady population growth of 1% to 2% per year for the past five years. Currently, the Town is seeing some interest in the development of local properties, which requires an evaluation of the existing facility and distribution system capabilities to ensure current and future demands are met.

Considering the projected population growth, an evaluation is required to determine if additional water supply facilities will be required, along with extension and modifications of the existing water main transmission system.

Questions considered are as follows:

- How and where the new facilities and distribution water mains improvements are built?
- What size should the improvements be and to what design standards?
- Who should build the improvements?
- How should the improvements be financed?

In addition, the existing facilities will be evaluated to determine the adequacy of the current service. An evaluation of available water supply and required treatment is required to properly plan and budget for future improvements. Consideration is also given to redevelopment and annexation.

The existing facility evaluations highlight the necessity of developing a “Master Plan”. The Master Plan describes the current and long-term needs and develops a system of phasing capable of meeting existing and long term needs with minimum duplication or waste.

1.5 Scope of the Study and Limitations

This Master Plan generally refers to and presents a long-range plan to meet the expected demands for water production, water quality, and distribution system. The Master Plan includes information pertaining to phasing and flexibility that will provide general information and guidance for the Town as the potable water system improvements are developed.

The opinions of probable cost presented in this Master Plan are only at planning level accuracy. Costs of future water main and water treatment plant improvements are projected at an average unit cost without regard to specific details such as differing site conditions, soils, necessary valves, hydrants, and appurtenances, etc. The estimated project costs for items such as surveying, soils testing, engineering, legal, and administrative are included in the cost figures.

Timing of the improvements in the undeveloped areas, such as the Hungerford Property, is dependent upon the actual construction implementation schedules of the developers. Therefore, the Town has limited control over the timing of water main improvements in undeveloped areas.

Due to the unpredictability of the timing and exact nature of future development and based on the available funds for improvements, the locations and/or timing of replacement of the new water mains may be altered. The water mains described by this Master Plan indicate the general need for an equivalent water transmission conveyance capacity, which can likely be achieved in several ways.

The final sizes and detailed routing between general connecting points can and should be modified when actually designed. Additionally, water main improvements should be installed based on an in-depth cost evaluation of various routes. Existing lines should be kept in place wherever possible and supplemented with new lines. The size of transmission pipelines will be determined based on pressure losses as water flows through a length of the pipeline. WaterCAD hydraulic modeling will be used to simulate the operational characteristics for the existing system, as well as for various alternatives for providing improved water flows and pressures throughout the distribution system.

1.0 Introduction

Further, the evaluation of water treatment requirements and capacity are based on current regulatory requirements, as well as future regulatory requirements currently under consideration for implementation. The treatment techniques should be reevaluated as major changes and regulatory development occur.

Currently, there are no new rules that would dictate a change in treatment at the Town's WTP. **However, the disinfection byproduct consent order (CO No. 22-2847) issued in March of 2023 requires the Town to explore opportunities to mitigate DBP non-compliance.**

1.6 Plan Maintenance

Eatonville should use this Master Plan as a tool to prepare annual budgets for capital improvements. This Master Plan should be regularly updated to reflect conditions that have changed within Eatonville's service area. **Updates to the Master Plan should be scheduled every 5 years and coincide to the 10-year Water Supply Facility Work Plan adoption into the Town's Comprehensive Plan as required by the SJRWMD as part of the Central Florida Water Initiative (CFWI) Regional Water Supply Plan Report.**

The Plan should be reviewed and evaluated based on regulatory changes, water quality, actual population growth, and developing properties. The network of distribution mains is a major and critical part of the system. A PWS's value is limited by the availability to convey water to all locations throughout the system.

A WaterCAD hydraulic model of the water distribution system should be maintained in the Town's files. In addition, the current 2023 hydraulic model will be available on the Engineer's computer for subsequent computer analysis as directed by the Town. Future adjustments of the recommended distribution system improvements can be made and will be based on the water uses/demands as allocated in the current model.

2.0 Service Area Description

2.1 Geographic Location

Figure 2-1 present a map of the State of Florida showing the location of the Town of Eatonville. Eatonville is located in northern Orange County, in Central Florida (Latitude 28.618727, Longitude 81.383440). Eatonville is approximately 7 miles north of the City of Orlando (Orlando). The south part of the Town is bordered by the City of Winter Park (Winter Park). The northeastern part of the Town is bordered by the City of Maitland (Maitland) and by unincorporated areas of Orange County.

In addition, Eatonville’s water service area is located within the governing boards water management district’s Central Florida Water Initiative (CFWI) Regional Water Supply Plan (RWSP) planning area.

Figure 2-2 presents a map of the potable water service area. Total area of Eatonville, as reported by the United States Census Bureau, is 1.1 square miles (2.8 km²). Approximately 9% of Eatonville is comprised of water, leaving 1.0 square miles of land. Out of the 1.0 square miles, approximately 0.4 square miles are developed.

2.1.1 Water Service Area Land Use and Facilities Location

The Town provides potable water service and fire protection to all areas within the incorporated Town limits. Eatonville’s potable water service area consists of a mix of industrial, commercial, conservation, unincorporated, and residential areas.

The service area for Eatonville is divided by Interstate 4 primarily served from potable water mains on Kennedy Boulevard with a majority of the residential connections on the eastern side of I-4 and a majority of the commercial/industrial connections on the west side of I-4. The conservation areas consist of portions of six (6) surrounding lakes.

Currently, Eatonville currently does not have water service agreements or emergency interconnects with neighboring local governments.

FIGURE 2-1: Town of Eatonville Location Map

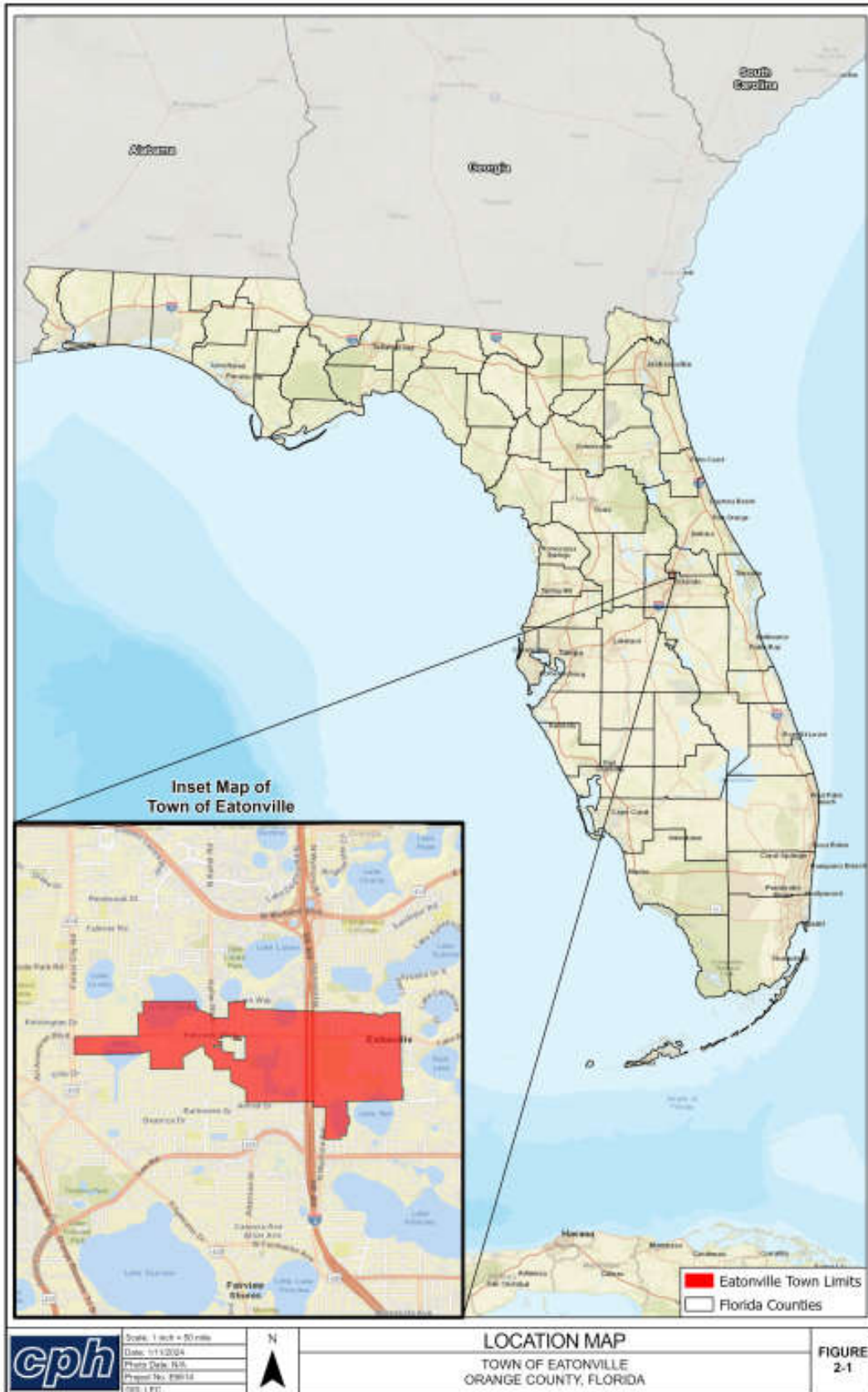
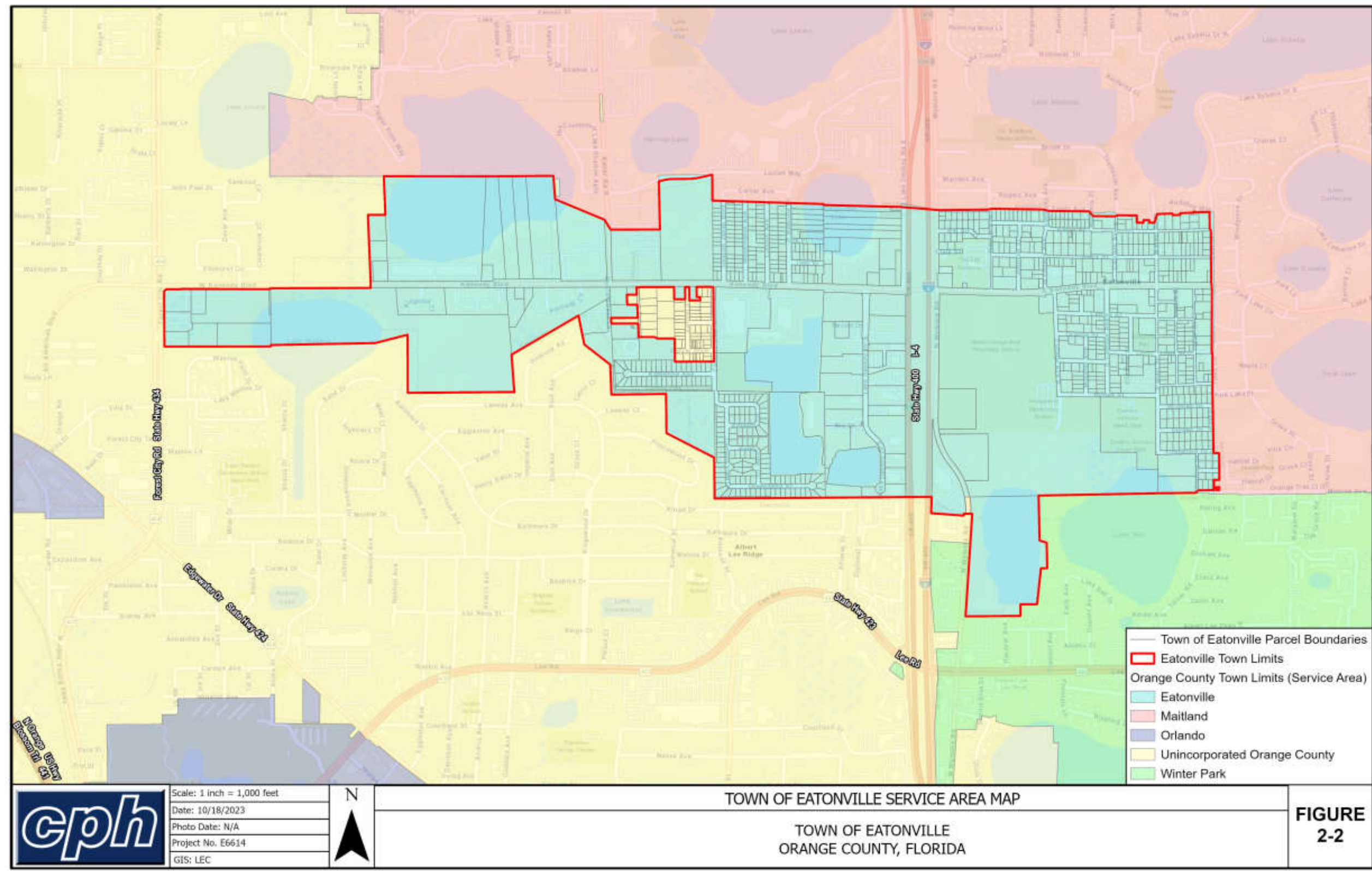


FIGURE 2-2: Town of Eatonville Potable Water Service Area



The Town owns and operates one (1) WTP and an off-site elevated storage tank (EST), with an FDEP permitted capacity of 1.44 MGD. The total length of water distribution system piping is approximately 65,500 LF, with diameters ranging from 2-inch to 10-inch pipe. The Town withdraws groundwater through two (2) public supply production wells.

The Town was issued a CUP from SJWMD for public water use. The SJRWMD issued CUP is presented in **Appendix A**. The impacts of the existing and proposed water withdrawals from the Floridan Aquifer were evaluated. **The evaluation and discussions, provided in this Master Plan, suggest that the Town will not have sufficient water supply to meet the needs of future development through 2043. Modification to existing CUP will likely be necessary prior to the CUP's 2033 expiration date.**

2.2 Climate

Eatonville's climate is considered sub-tropical with long humid summers and mild winters. According to National Climatic Data Center (NCDC) records; there is an average of 238 sunny days per year in Eatonville with an average high temperature of 92° F and an average low temperature of 53° F.

The heaviest rainfalls are in the summer from June to September with an annual average rainfall of 53 inches. The months of October to May are generally dry months with high irrigation demands. However, irrigation demands are also high during the summer due to the unusually high evapotranspiration rate in Florida.

2.3 Topography and Drainage

The Town has no distinctive hills and has a general elevation of 95 EL feet above sea level. Drainage is considered generally good with many lakes around the area and sandy soil conditions. The Town of Eatonville is located within the Middle St. John's River Basin.

2.4 Surface Waters

There are several small lakes bordering the Town, the largest of which are Lake Shadow and Lake Bell. The lakes that fall within town limits are Lake Shadow, Lake Bell, Lake Weston, Hungerford Lake, Lake Wilderness and Lake King. All water resources located in Orange County are designated as Class III, meaning the water can be used for recreational use, including fishing and swimming.

2.5 Soils

Soils have been mapped by the Soil Conservation Service of the U.S. Department of Agriculture. **Figure 2-3** depicts the soils within the Town. Fine sand makes up most of the soil within the Town's limit, specifically Zolfo-Urban Land complex and Smyrna-Urban Land Complex.

2.6 Ecology

Wetlands border the surface water bodies in and around the Town. No encroachment on existing wetlands is proposed or anticipated. There is a possible longleaf pine ecosystem in the south. There are no prime or unique farmlands, or plant and animal communities.

2.7 Air Quality

Overall, the Town's Air Quality Index has been good (0 to 50) to moderate (51 to 100) since 2009. Currently, the air quality for the service area adheres to the Federal Ambient Air Quality Standards.

2.8 Archeological and Historical Sites

The Eatonville Historic District, just east of Interstate 4, is registered in the National Register for Historic Places. The Historic District encompasses roughly 48 buildings and is bounded by East Avenue, Eaton Street, Clark Street, Fords Avenue, Wymore Road, and Ruffel Street. There are no known archeological sites in the Town of Eatonville.

2.9 Flood Plain

The majority of Eatonville lies in areas of minimal flood hazard, but still there are several areas within Eatonville identified by the Federal Emergency Management Agency (FEMA) to have potential for flooding in a 100-year storm event. The potential areas are subject to rising waters due to proximity to a nearby lake.

Figure 2-4 presents the FEMA Flood Map of Eatonville, which present areas potentially subject to flooding. Flood Zone A and AE represent the 100-year storm event flood levels. There are three (3) areas in the AE Zone or 100-year floodplain, all of which are bordering the lakes surrounding or within Town Limits. Surrounding Lake King and Lake Bell are flood hazard areas. The majority of Eatonville

FIGURE 2-3: Town of Eatonville Soils Map

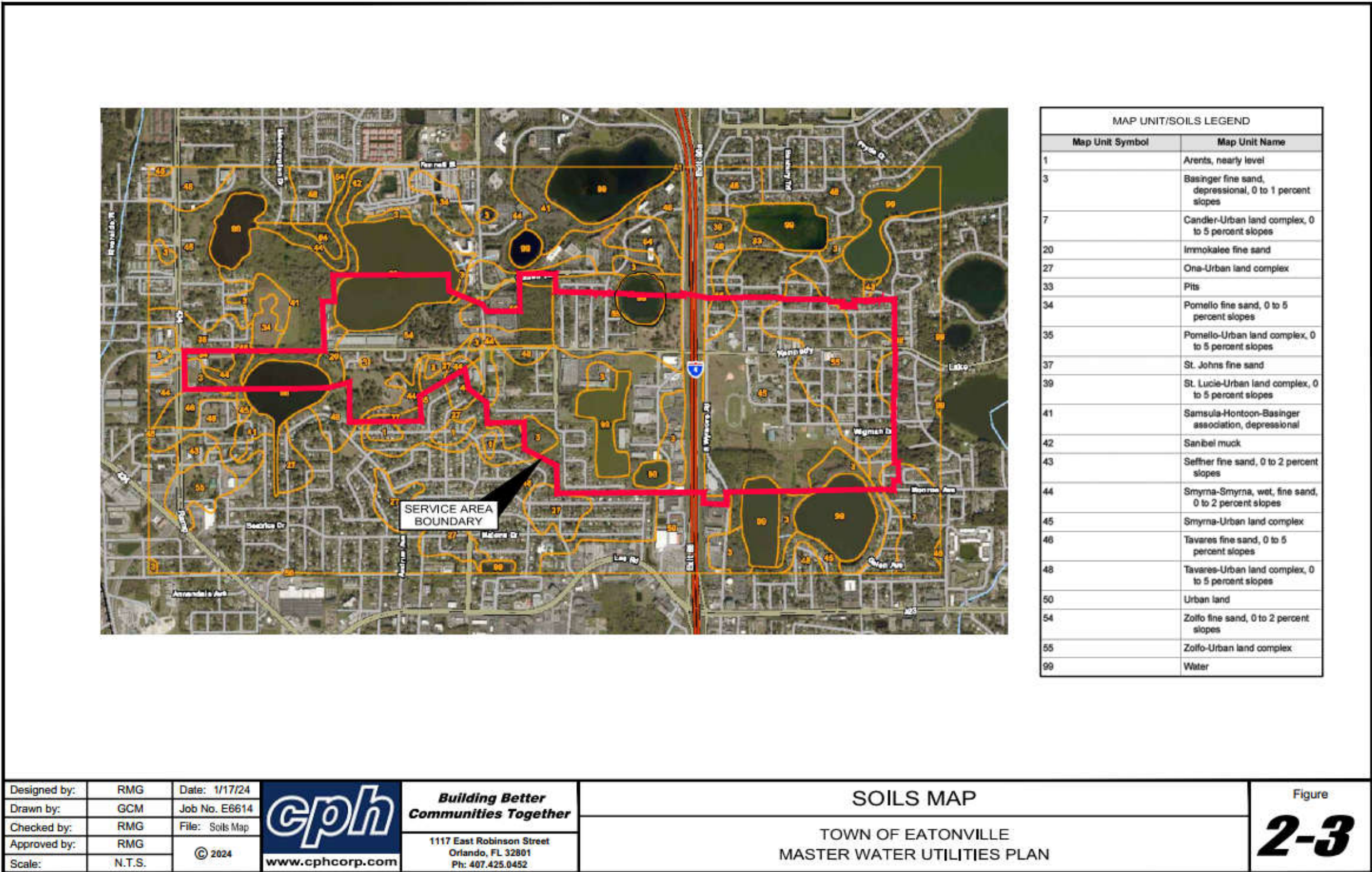
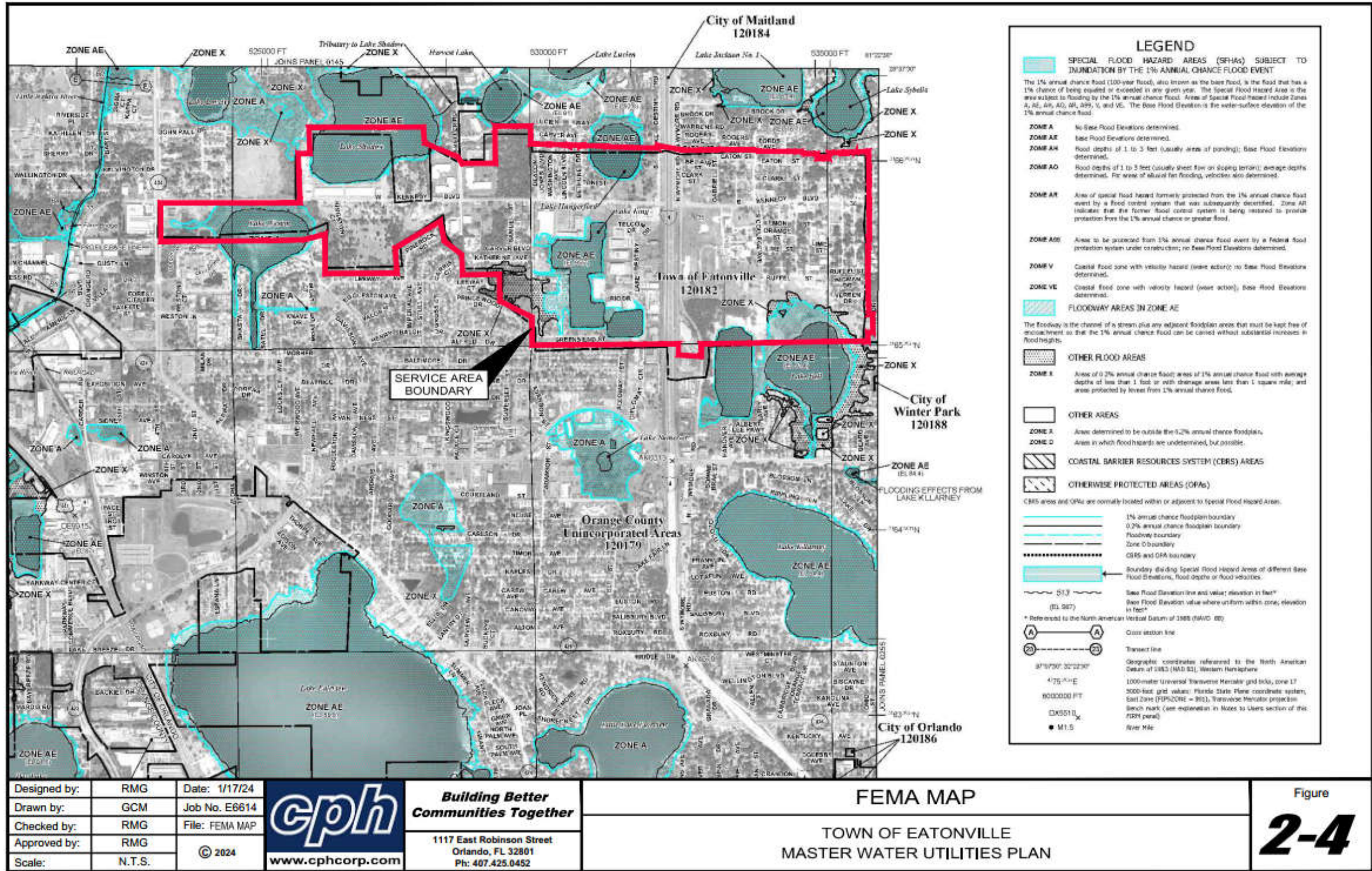


FIGURE 2-4: Town of Eatonville FEMA Flood Map



is within Zone X floodplain, which is known as areas outside of the 500-year floodplain or will have minimal flooding.

Areas below the 100-year flood requirements are subject to development standards and restrictions set forth in the Land Development Code. Development or redevelopment of lands throughout Eatonville are subject to various requirements of the Land Development Code. Regulations for development or redevelopment also require design of stormwater systems to not only meet Eatonville’s requirements but also the criteria of FDEP and SJRWMD.

Eatonville is required by SJRWMD to restrict runoff to pre-development conditions. The combination of the above requirements governs the limitations of intensity and density of development or redevelopment in Eatonville of flood prone lands.

Table 2-1 present the approximate well location ground elevations relative to the FEMA 100-year flood plain elevations. The existing constructed well head assembly elevations are above the 100-yr flood plain elevations. **Hence, the existing wells comply compliance with FDEP requirements.**

TABLE 2-1: Summary Well Ground Surface Elevations Relative to 100-yr Flood Elevations

PARAMETER	Well Ground Elevation ^(a) (Ft. EL)	Nearby 100-year Flood Elevations ^(b) (Ft. EL)	FDEP Complaint (Yes/No)
Eatonville WTP			
Well 1 (East)	99	91.4 (Lake Bell)	Yes
Well 2 (West)	97	91.4 (Lake Bell)	Yes

a) Source: Google Earth elevations, January 2022.
 b) Source: FEMA FIRM Flood Maps, December 2021.

2.10 Socio-Economic Conditions

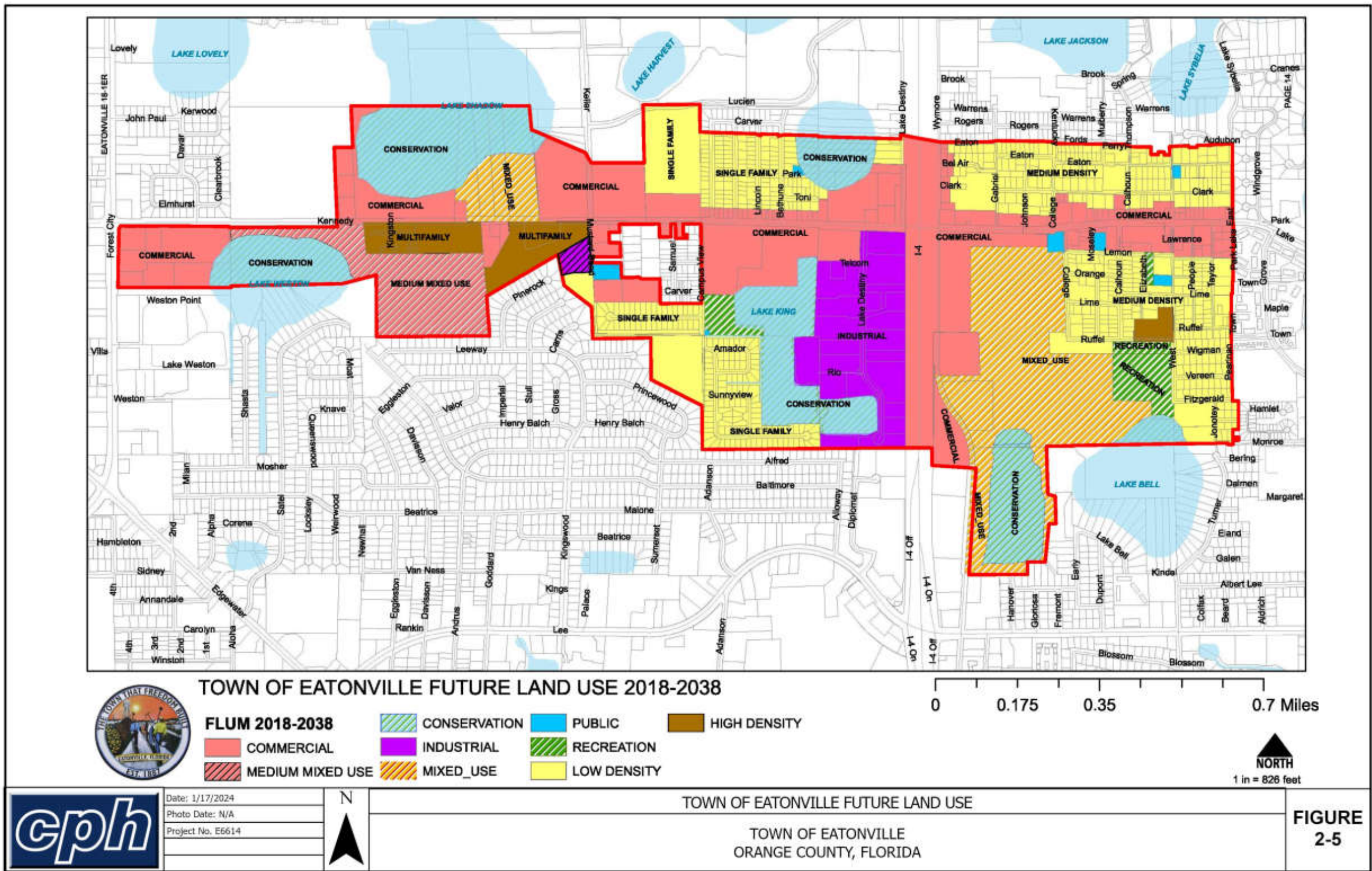
2.10.1 Population

The current estimated population is 2,988 based on 2020 US Census 3.89 persons per household for 768 active connections.

2.10.2 Land Use and Development

The service area is primarily commercial and residential with some industrial and conservation areas located around the lakes. There is one (1) Orange County public school within the Town, Hungerford Elementary. The High School has been closed for several years and the Town is currently working with a developer to develop the property. Land use is shown in the Town of Eatonville Future Land Use Zoning map presented in **Figure 2-5**.

FIGURE 2-5: Town of Eatonville Future Land Use Map



3.0 Water Supply & Quality Considerations

The Town of Eatonville is governed by the SJRWMD related to permitting of the water source allocation, well construction, conservation requirements and the pursuit of alternative water use. The Town must also comply with FDEP regulations involving design and construction of new or expanded water systems, facility clearance requirements, water quality monitoring after the PWS is placed into service and overall operation and maintenance. Consideration of both authorities' rules and regulations are required for planning future water and facility needs for the Town.

Eatonville has two (2) groundwater wells that tap into the upper Floridan aquifer (UFA) as the source of raw water for public water use. Well 1 (east) has a depth of 601 ft and Well 2 (west) has a depth of 601 ft. The wells are permitted to pull water from the UFA.

3.1 Characteristics of the Floridan Aquifer for Eatonville Source Water

The Floridan Aquifer is the primary source of potable water for most utilities in central Florida. The Floridan aquifer is a series of limestone formations, up to hundreds of feet in thickness, which lie beneath the surficial/sediment aquifer.

The Floridan aquifer is recharged by infiltration of rainwater through permeable surface sands into the uppermost limestone formations. Discharge from the Floridan aquifer occurs naturally through artesian springs and artificially through wells, which penetrate the surficial aquifer typically with steel casings. The Surficial aquifer, Floridan aquifer and aquifer “recharge” are described in more detail in the following sections.

3.1.1 Surficial Aquifer System

The unconfined Surficial Aquifer System (SAS) in the area consists of fine sands. The surficial aquifer also acts as a large filtering bed for purifying water before surface water recharges the Floridan Aquifer. The undifferentiated deposits extend from land surface to approximately 50 feet below land surface (bls). The base of the SAS is formed by layers of clay and limestone associated with the underlying Hawthorn Group. Eatonville's production well casing penetrate through and exclude the SAS.

3.1.2 Upper Confining Unit

The mixture of clay and sand in the lower part of the SAS, known as the upper confining unit (UCU), forms a semi-confining bed that impedes the exchange of water between the surficial aquifer and Floridan aquifer. The sandy material of the surficial aquifer and the clayey materials of the confining bed, have an important function in the hydrology of Central Florida. The parts of the UCU that are permeable, readily store water that infiltrates from the land surface and transmits into the Floridan Aquifer as natural recharge.

The UCU in the area extends from approximately 50 ft bls to 100 feet bls. The UCU includes the Hawthorn Group of sediments, which are composed of stiff green clay interbedded with sand, silt, soft clayey limestone and some hard limestone fragments, as well as the low permeability sediments of the Ocala Limestone. The UCU effectively inhibits vertical movement of water between the overlying surficial aquifer and the underlying Upper Florida Aquifer System (UFAS). The casings for Eatonville’s production wells penetrate through the UCU.

3.1.3 Floridan Aquifer System

The Floridan Aquifer System (FAS) in the area extends from 100 ft bls to at least 2,100 ft bls and is composed of the Ocala Limestone, Avon Park Formation, Oldsmar Formation and part of the Cedar Keys Formation. The FAS contains two (2) permeable zones, the Upper Floridan Aquifer (UFA) and Lower Floridan Aquifer (LFA), which are separated by a thick sequence of confining units.

The Upper Floridan Aquifer System (UFAS) extends to approximately 750 ft bls, which occurs at the upper contact of the Ocala Limestone and the Avon Park Formation. The highest transmissivity interval occurs from 450 ft bls to 570 feet bls and is composed of hard, dense dolomite with some quartz sand and clay present in fractures. Moderately permeable beds of hard, moldic dolomite and soft, weathered clayey limestone characterize the remainder of the UFAS.

The top of the Lower Floridan Aquifer System (LFAS) occurs at the lower contact of the Avon Park Formation and extends to approximately 2,100 feet bls. The LFAS is generally less permeable than the UFAS aquifer and the water produced can be highly mineralized and/or saline; however, the LFAS is relatively fresh water to the base of the system in central Florida.

3.0 Water Supply & Quality Considerations

The Floridan Aquifer is a highly productive aquifer, yielding water quantities for the Town of up to 1,650 gallons per minute per test yield condition reported in Sanitary Survey. The water in the Floridan Aquifer is under pressure due to overlying semi-confining beds which means that, in a tightly cased well penetrating the aquifer, the water will rise above the top of the aquifer. The level that the water rises to defines the potentiometric surface of the aquifer at that well. The Floridan Aquifer, like the shallow water table aquifer, generally fluctuates to a high level in October and a low level in May.

3.1.4 Aquifer Recharge

Groundwater recharge is a naturally occurring step of the Earth’s hydrologic cycle. As water is discharged from the aquifer through pumping and seepage, more water is simultaneously replaced through percolation. Recharge is a function of the head differences between the surficial aquifer and the artesian aquifer and is very dependent on local conditions such as soil characteristics, potentiometric surfaces and precipitation.

Groundwater and surface water levels in the area are generally at or near the elevation of the Floridan Aquifer potentiometric surface. Typically, recharge to the Floridan Aquifer is restricted to areas where the elevation of the water table is greater than the elevation of the potentiometric surface of the confined aquifers. The resulting low-pressure difference, combined with the nature of the surficial aquifer sediments, indicates that the region is considered a good recharge area to the Floridan Aquifer, ranging from 3-20 in/yr.

3.2 Consumptive Use Permit

Withdrawal of drinking water from the Florida Aquifer is regulated by the SJRWMD. The process of obtaining allocations from the SJRWMD results in receiving a Consumptive Use Permit (CUP). **The Town was issued CUP No 3407 in 2012. The Town has a 20-year permit that expires in 2032 with permitted maximum annual ground water withdrawals that cannot exceed 0.400 mgd AADD.**

3.3 Source Water Quality

Generally, the Town’s water quality is considered good for finished water quality. The Town’s water system is classified as a “community water system (CWS)” under FDEP criteria. **The CWS classification requires the Town to sample finished water and submit the results to the entire CWS customer base through a “Consumer Confidence Report” (CCR) on an annual basis.**

3.0 Water Supply & Quality Considerations

The CCR summarizes the concentrations of water quality samples detected during the required testing period. The 2022 results were below the maximum contaminant levels (MCL’s) for currently regulated sampling parameters except for disinfection by-products. A summarization of the Town’s water quality results and the relation to the maximum contaminate level (MCL) in the CCR is shown in **Table 3-1**. A copy of the 2022 CCR is provided in **Appendix B**.

Based on evaluation of the current rules and the Town’s water quality result, the current or future water quality rules are not anticipated to cause the Town to change the existing treatment methodology, except for HAA5 and TTHMs. Water quality level should remain sustainable beyond the 2043 planning period.

Table 3-1: Abbreviated Finished Water Quality Summary - 2022

Parameter	Unit	MCL	Eatonville Finished Water
Sodium	ppm	160	17.5
Chlorine	ppm	4	0.3 to 1.4
Haloacetic Acids (HAA5)	ppb	60 LRAA	38 to 80
Total Trihalomethanes (TTHM)	ppb	80 LRAA	53 to 106
Copper	ppm	1.3	0.417

3.4 Groundwater Contamination and Land Use

According to FDEP there are no areas delineated for groundwater contamination within Eatonville. However, there is an active DEP Cleanup Site and a Waste Cleanup Site. The land use surrounding a water supply site should be a major consideration in the selection of new sites, and in evaluating the potential for the contamination of existing sites. The following summarizes the two (2) cleanup sites:

1. DEP Cleanup Site is located on the Macedonia Missionary Baptist Church property on the south side of Kennedy Blvd. There was a leaking storage unit for petroleum from a gas station that is now demolished. Currently, the site is still being monitored and steps are being taken for adequate cleanup.
2. Waste Cleanup Site is located on the west side of Interstate 4 off Lake Destiny Drive. The site was added to the EPA’s database in January 2017. Upon initial screening, the groundwater migration of the contaminants is a pathway of concern; however, no plume has been determined for the site. It is unknown how rapidly groundwater will migrate outward from the contaminated site. The Town’s two (2) production wells are located within a half of a mile from the site. Therefore, any new wells should be located up gradient of the Waste Cleanup site until the plume is determined.

4.0 Existing Potable Water System Overview

Eatonville uses groundwater to meet potable water and fire protection demands. Eatonville currently owns, operates, and maintains Public Water System (PWS) No. 3480327. **Figure 4-1** presents map of Eatonville’s PWS system facilities.

4.1 Eatonville Public Water System

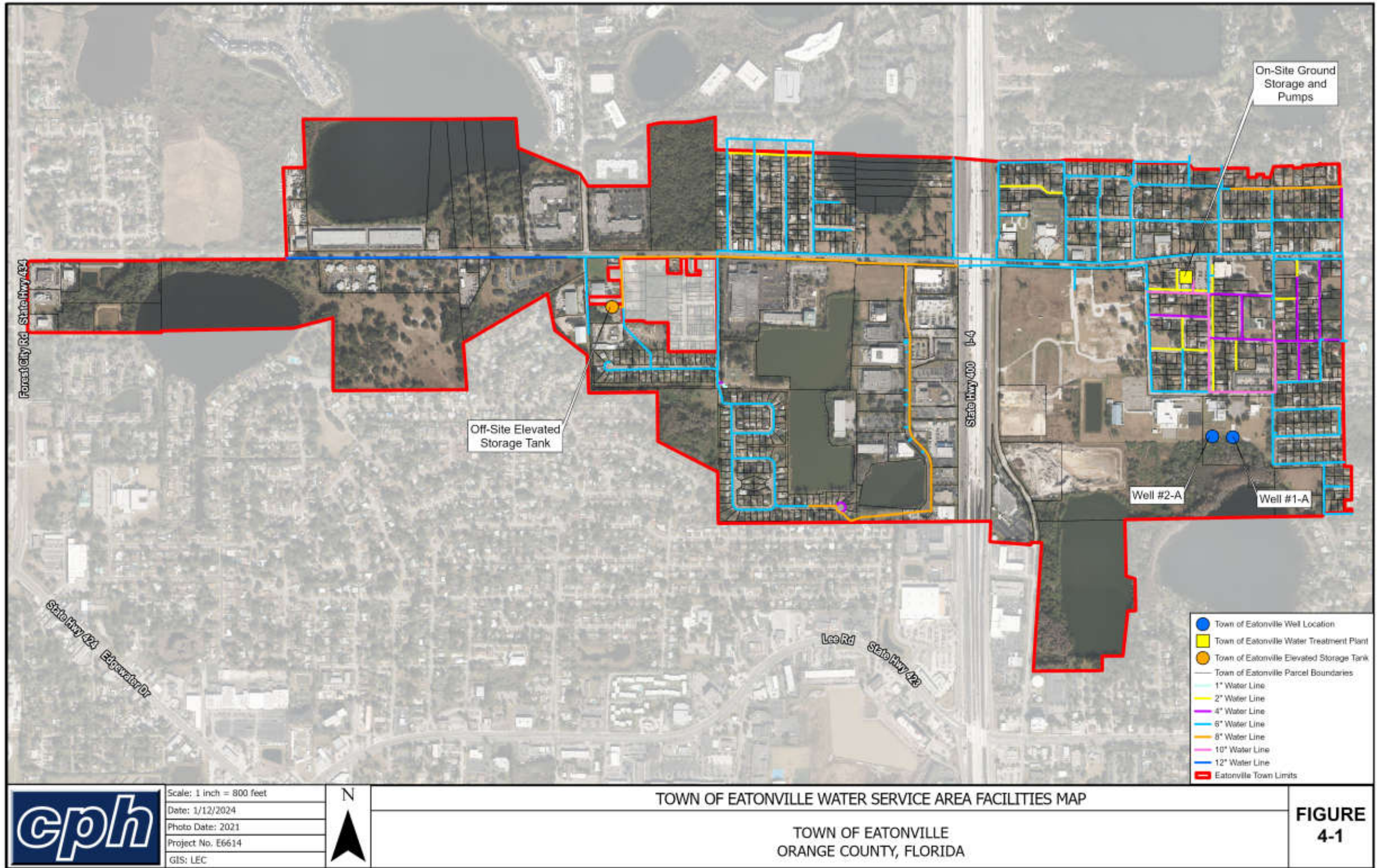
PWS No. 3480327 is a Category 4 Class C Community system permitted by FDEP with a WTP max-day design capacity of **1.44-MGD**. **Appendix C** presents the 2017 FDEP Sanitary Survey Report for Eatonville’s PWS. The Eatonville WTP is supplied by two (2) active upper Floridan aquifer wells with permitted allocations provided in the SJRWMD CUP No. 3407.

In 2022, the water utility served approximately 768 active service connections (2,989 people) delivering approximately 0.262 MGD of potable water, on an annual average daily demand (AADD) basis.

The Eatonville WTP is a typical central Florida treatment facility consisting of ground water wells, cascade tray aeration, chlorine disinfection, storage, and high service pumping. The high service pumps (HSPs) maintain a water system pressure of approximately 52 psi with variable frequency drives (VFD). The water system consists of the following components:

- Two (2) Upper Floridan Aquifer Ground Water Wells
- One (1) Free Chlorine Chemical Feed System for Primary and Secondary Disinfection
- One (1) on-site 200,000-gallon On-Site Ground Storage Tank (GST) equipped with a 1,000-gpm cascade tray aerator (CTA)
- Three (3) High Service Pumps (HSPs) (two (2) 500 gpm pumps with variable frequency drive motors and one (1) 800 gpm pump with a constant rate motor for fire flow)
- One (1) 200,000-gallon Off-Site Elevated Storage Tank (EST)
- Approximately 68,346 LF of water distribution mains ranging from 2 to 12 inches

FIGURE 4-1: Town of Eatonville Potable Water Service Area Facilities



4.2 Eatonville WTP

The Eatonville WTP is located at 332 East Kennedy Boulevard, Eatonville, Florida 32751. **Figure 4-2** shows an aerial of the Eatonville WTP. **Figure 4-3** presents a site plan of the Eatonville WTP. The site elevation of the WTP is approximately 146 feet EL.

Figure 4-4 presents the process flow diagram of the Eatonville WTP. The WTP is controlled by a Supervisory Control and Data Acquisition (SCADA) system. Emergency power is provided by diesel driven power generators; one (1) 60 kW off-site at Well No. 1 and one 150 KW on-site at the WTP site.

During normal operation, water is pumped from the wells into the GST. Liquid chlorine is injected into the GST at a target chlorine residual of 2.2 mg/L per 2017 Sanitary Survey. Treated water is stored in the GST and pumped into the distribution system to meet demands at preset pressures.

4.2.1 Permitted Raw Water Supply Sources

Eatonville is currently permitted by SJRWMD under CUP No. 3407-4 to withdrawal up to 146 million gallons per year (MGY), which equates to an AADD of 0.400 MGD until 2032. Eatonville’s CUP was issued on December 18, 2012 and expires on December 18, 2032.

Currently, Eatonville has two (2) active potable water supply groundwater wells that draw from the Upper Floridian Aquifer. Both wells are located off-site approximately 1,600 linear feet south of the WTP. The off-site wells ground elevation is approximately 97 feet EL.

Table 4-1 presents characteristics and inventory of the existing groundwater production facility wells and pumps that are currently in service (active). The total actual yield well capacity is approximately 1,200 gpm, while the firm actual yield well capacity is 600 gpm (largest well off-line). The wells turn on automatically when the water level in the GST drop to a preset low level. Each wellhead discharge assembly is equipped with an air release valve (ARV), check valve, water specialties propellor flow meter, and isolation gate valve (**Photo 4-1**). The following maintenance is needed for the wells:

- Repack well shaft on Well 1A to stop excess leaking.
- Replace inoperable propeller flow meter on Well 2A.
- Exercise generator on Well 1 on a frequent basis.

FIGURE 4-2: Aerial of the Eatonville WTP



(Source: Orange County Property Appraisers 1-16-2023)

FIGURE 4-3: Eatonville WTP Site Plan

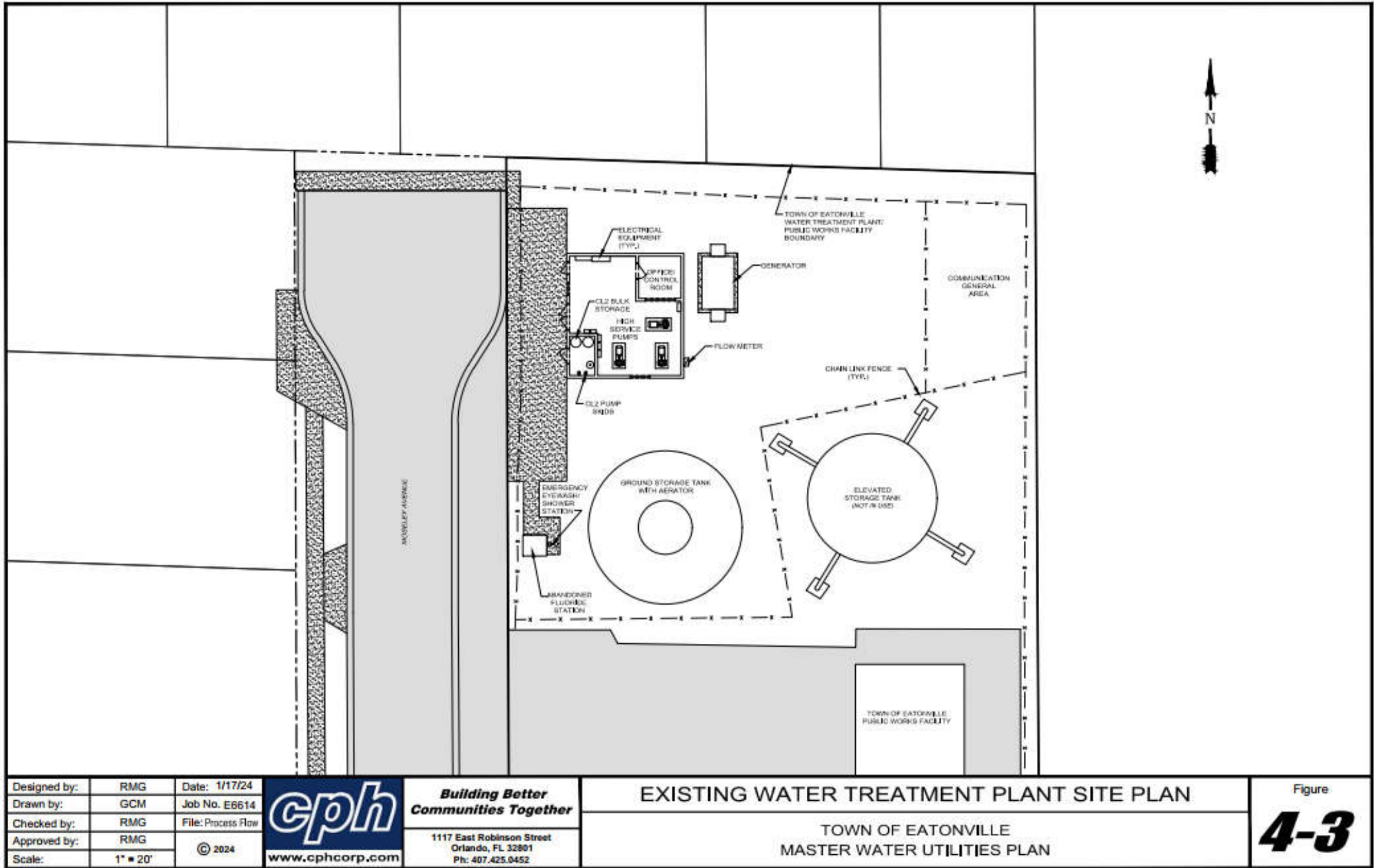


FIGURE 4-4: Eatonville WTP Process Flow Diagram

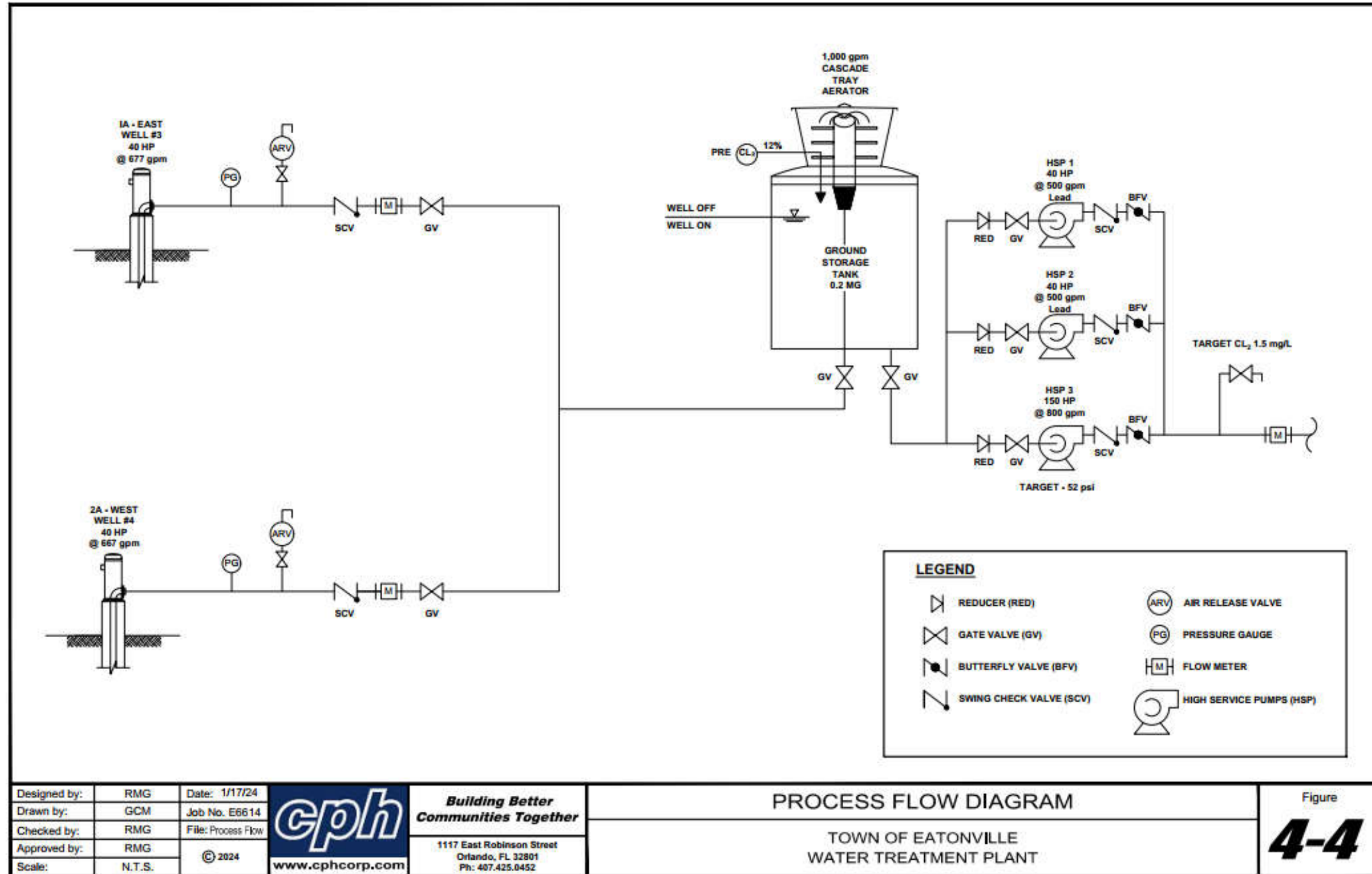


TABLE 4-1: Inventory of Existing Groundwater Well Pumping Facilities ^(a)

PARAMETER		Eatonville WTP	
Well	Well Name	1A-East	2A-West
	SJRWMD Well ID No.	3	4
	SJRWMD Station No.	38635	38634
	FDEP Florida Unique Well ID No.	AAI5809	AAI5812
	Aquifer	Upper Floridan	Upper Floridan
	Year Drilled	2005	2005
	Depth Drilled (ft.)	601	601
	Casing Length (ft)	80/205	62/207
	Casing Diameter (in.)	18/12	18/12
Pump	Type	Vertical Turbine	Vertical Turbine
	Manufacturer	Deming	Deming
	Model	XH10	XH10
	Rated Capacity (gpm)	900	900
	Actual Yield (gpm) ^(b)	677	667
	Motor Horsepower	40	40

a) Source: FDEP Sanitary Survey, August 23, 2017

b) Source: Florida Rural Water Association - Well Pump Flow Meter Test - June 6, 2023.

Photo 4-1: Wellhead Discharge Assembly




4.2.2 On-site Finished Water Storage and Aeration

Table 4-2 present an inventory of the storage facilities at the Eatonville WTP. Eatonville WTP has one (1) on-site 200,000-gallon pre-stressed concrete ground storage tank (GST) equipped with a 1,000-gpm aerator mounted on the dome riser (Photo 4-2). The GST stands at a height of 32 feet with a diameter of 32 feet. The raw groundwater flows by gravity over the CTA for partial removal of hydrogen sulfide (H₂S) (associated with a rotten egg smell). Aerated water then falls into the GST for storage prior to pumping into the water distribution system.

Appendix D presents the 2015 condition assessment of the GST. The following maintenance is needed for the GST:

- Repair areas of exposed reinforcement rebar on exterior dome roof.
- Install new screen on integrated vent.
- Install security shrouds on integrated vents to prevent contamination.

TABLE 4-2: Inventory of On-Site Storage Facilities

Photo 4-2	PARAMETER	Eatonville WTP
	Tank No.	GST-01
	Type	Prestressed Concrete
	Contractor	CROM
	Year Constructed	Unknown
	Aerator	1,000 gpm
	Capacity (Gallons)	200,000
	Low/Low/Low Level – HSPs off	10 feet
	Low/Low Level - Alarm	15 feet
	Low Level - Wells On	17 feet
	High Level - Wells Off	23 feet
	High/High Level - Alarm	24 feet

4.2.3 Chemical Treatment – Chlorine Disinfection

The Eatonville WTP currently injects 12% sodium hypochlorite (liquid chlorine) for primary disinfection of the aerated water in the GST. The liquid chlorine is injected at the base of the CTA basin. The WTP uses two (2) 17 gpd Stenner peristaltic chemical feed pumps, each feed pump dedicated to each well and able to serve as a back-up via isolation valve. The liquid chlorine is stored in two (2) 150-gallon HDPE storage tanks set in a containment area.

The following maintenance is needed for the chlorine feed system (**Photo 4-3**):

- Replumb connection of bulk storage tanks to chemical feed pumps per FDEP requirements.
- Upsize chemical feed pumps.
- Refurbish chemical feed room interior and exterior.
- Repipe bulk chemical storage tank to limit off-gassing.
- Replace room exhaust fan.

Photo 4-3: Chlorine Chemical Feed System



4.2.4 High Service Pumping

Table 4-3 present an inventory of the high service pumps at the Eatonville WTP. There are three (3) HSPs at the WTP. Two (2) rated at 500 gpm and one (1) at 800 gpm (for fire flow) with a total installed HSP capacity of 1,800 gpm (**Photo 4-4**). An 8-inch Water Specialties propeller meter is used to measure and report flow rate and volume to the FDEP. The existing propeller meter is not accurate at flow rates less than 300 gpm and should be checked for calibration,

The following maintenance is needed for the high service pumps:

- Replace propeller meter with mag meter.
- Standardize pumps and motors.
- Review HSP SCADA Control Settings.

Photo 4-4: High Service Pumping



TABLE 4-3: Inventory of Existing High Service Pumping Facilities

PARAMETER		Eatonville WTP		
Pump	Pump No.	HSP-01	HSP-02	HSP-03
	Type	End-Suction Centrifugal	End-Suction Centrifugal	End-Suction Centrifugal
	Year Installed	1981	1981	2000
	Manufacturer	Goulds	Goulds	Unknown
	Model	3765	3656M	Unknown
	Impellor	13-1/16"	13-1/16"	Unknown
	Capacity	500	500	800
	TDH	160 ft	160 ft	160 ft
Motor	Manufacturer	Teco Westinghouse	Techtopind	Unknown
	HP	40	40	50
	Duty	Variable	Variable	Constant
	RPM	Unknown	1,770	1,780
	Service Factor	Unknown	1.25	1.15

4.3 Off-Site Elevated Storage Tank

The Eatonville PWS has one (1) 200,000-gallon steel EST located off-site in the western portion of the service area at 662 W. Kennedy Blvd (**Photo 4-5**) which was constructed in 1979. The EST assists in maintaining peak hour pressure in the western distribution system. The EST is intended to supplement the HSPs rather than acting as a storage component for the distribution system. The EST equivalent “pumping capacity” is approximately 833 gpm, which increases the overall total HSP capacity to 2,688 gpm during peak demands.

The EST is at a ground elevation of approximately 100 ft EL with an overflow at approximately 224 feet EL (54 psi). Since the lead and lag HSPs at the WTP are on VFD motors, the EST will hold a steady hydraulic grade line of approximately 220 feet EL (52 psi). If the EST level drains to approximately 214.5 feet EL (48 psi) the constant rate fire flow HSP pump is actuated.

Appendix D presents the 2018 inspection report of the EST. The inspection report recommended the following maintenance for the EST:

- The Off-Site EST is over 40 years old and shows signs of significant corrosion and leaks.
- The Off-Site EST is currently scheduled for repair and refurbishment in February 2024.

Photo 4-5: Existing EST



662 W KENNEDY BLVD, EATONVILLE, FL 32810 8/11/2023 10:24 AM

4.4 Auxiliary Power Capacity

Table 4-4 summarizes auxiliary power supply and major equipment demands. Eatonville PWS has two (2) diesel generators. One (1) at the WTP, one (1) off-site at Well 1A.

The Eatonville generator supplies sufficient stand-by power to meet the PWS’s electrical demands. Whereas the off-site well generator has just enough power to meet the well’s electrical demands, including supply wells and high service pumps. The generators are equipped with automatic transfer switches (ATSs) that call for automatic generator start-up in the event of commercial power loss.

The following maintenance is needed for the generators:

- Exercise the generators on a regular basis and repair as necessary.
- Evaluate ability of well generator to power both wells.

TABLE 4-4: Inventory of Auxiliary Power

PARAMETER		Eatonville WTP	Well 1A + Well 2A
Generator	Manufacturer	Unknown	Generac
	Model No.	Unknown	Unknown
	Year Installed	Unknown	Unknown
	Size (kw)	150	60
	Equivalent Size (hp)	200	80
Major Equipment	Well Motor (hp)	---	80
	Treatment (hp)	2	---
	HSP Motor (hp)	130	---
	Total Draw (hp)	132	80
Generator Total Surplus/Deficit (hp)		+68	0

4.5 Existing Distribution System

Table 4-5 presents an inventory of distribution system piping. Eatonville has approximately 13 miles of potable water mains ranging from 2 to 12 inches in diameter. The distribution system is not considered built-out, as there are several new developments proposed or being constructed.

The growth increase in population is causing the projected water demands to be greater than past projections, which is of concern to the Town. There is approximately 28,434 LF of AC pipe, which the Town consistently has challenges to repair. Also, pipes less than 6-inches are not sufficient to meet fire flow demands. As a result, the following is recommended for the distribution system:

- Develop a Repair and Replacement (R/R) Programs for the distribution system to increase system confidence for the following:
 - Replace AC pipe
 - Replace Small pipe (< 6-inches)

TABLE 4-5: Inventory of Distribution System Piping

Diameter (in)	Length Ductile Iron (ft)	Length Asbestos Cement (ft)	Length PVC (ft)	Length All Diameters (ft)	Percent Diameter (%)
2	-	3,586	1,423	5,009	7.3%
4	-	4,589	469	5,058	7.4%
6	130	17,374	27,579	45,083	66%
8	-	-	7,666	7,666	11.2%
10	-	2,885	-	2,885	4.2%
12	-	-	2,645	2,645	3.9%
Total All Materials	130	28,434	39,782	68,346	100%
Material (%)	<0.2%	42%	58%	100%	

5.0 Potable Water Demand Projections

Water use in the Town is predominately residential with minimal commercial/industrial type use. Currently, the Town serves potable water to approximately 800 service connections (3000 persons). Although the Town boundaries are unlikely to expand over the next twenty years, infill and densification is occurring within Town Limits. The Town identified several development areas that are expected to increase the service area population density and result in additional water demand.

Figure 5-1 presents a map of development being planned for construction within Town limits including developable vacant parcels greater than 1 acre. **Table 5-1** presents the status planned development. Currently, the Town has three (3) development projects in the potable water service area that currently under construction plus the Hungerford Project which is currently in the conceptual planning stage.

Current groundwater supply water use is below the current CUP withdrawal allocation. However, the new developments are projected to increase potable water demand and require a CUP modification. At this time, Eatonville has not requested an increase in permitted allocation based on population projections associated with the current and proposed development projects.

Potable water demand projections were developed using average historical potable water demands over the last 5 years. Potable water demands were projected based on total service area residential population growth. **Appendix D** presents population growth projections used to project potable water demands. Population projections were created using new development plus infill of vacant lots greater than 1 acre.

5.1 Historical Potable Water Demand Allocations

Table 5-2 presents historical potable water demands from January 2015 to December 2022 compiled from monthly operational reports (MORs). Eatonville's Comprehensive Plan has adopted a 300 gallons per day per ERU level-of-service (LOS) for new development. The adopted LOS standard for potable water is typically used as the basis for determining availability of facility capacity for new development.

However, the 5-year average daily capita rate is 99 gpcd, which results in 385 gallon per day per ERU ($99 \text{ gpcd} * 3.89 \text{ persons per connection}$). Therefore, the future demand projections of new development are based on the higher historical ERU demand.

FIGURE 5-1: Town of Eatonville Ongoing and Proposed Development

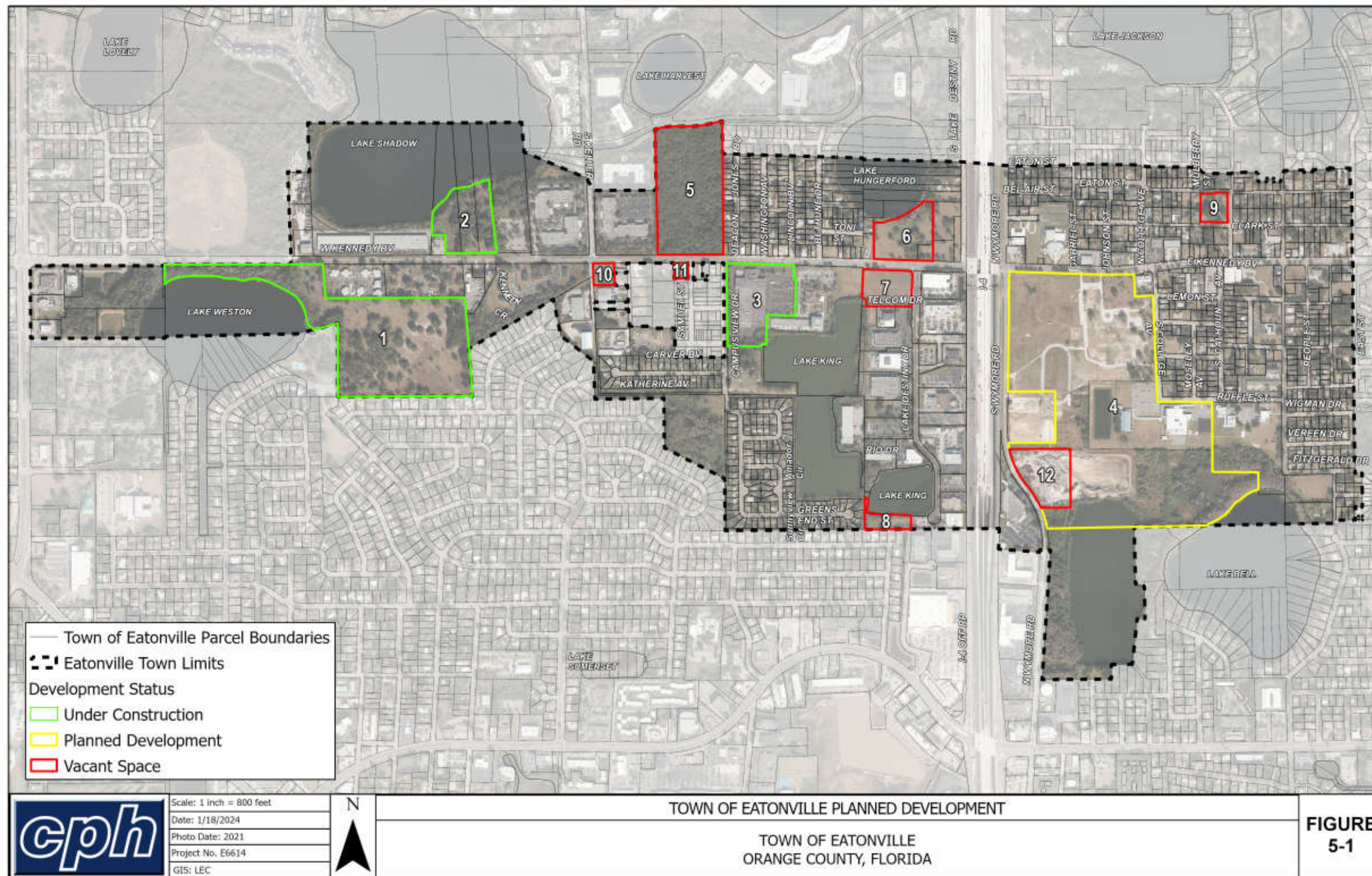


TABLE 5-1: Eatonville Planned Development

Project ID	Name	Type	Status	Acres
1	Lake Weston Apartments	Multi Family	In Construction	49.5
2	Enclave Apartments	Multi Family	In Construction	14.99
3	Host Dime	Commercial	In Construction	5
4	Hungerford Property	Mixed Use	Concept Plan	67.3
5	Bing Property	C-1, C-3, R-2	Vacant	6.36
6	Interstate Property	C-3, I-1	Vacant	3.7
7	Orra Ventures LLC	I-1	Vacant	1.63
8	339 Clark St	R-2	Vacant	1.6
9	690 W Kennedy Blvd	C-3	Vacant	0.95
10	W Kennedy	R-1	Vacant	1.0
11	BOCPS	C-3	Vacant - County Parks & Rec	17.61
12	DOT	C-2/M-U	Vacant - State Forest Parks & Rec	5.71

5.0 Potable Water Demand Projections

TABLE 5-2: Historical Potable Water Use (2015 to 2022) ^(a)

Year	No. of Water Service Connections ^(b)	Service Population ^(c)	Per Capita Demand (gpcd)	Annual Average Daily Demand (MGD)	Maximum Daily Demand (MGD)	MDD/ADD Peaking Factor	Peak Hour Demand ^(d) (gpm)
2015	686	2,669	123	0.33	0.68	2.07	940
2016	693	2,696	116	0.31	1.30	4.16	1,806
2017	700	2,723	120	0.33	1.26	3.85	1,750
2018	714	2,777	114	0.32	1.19	3.76	1,649
2019	728	2,832	111	0.32	0.71	2.24	980
2020	742	2,886	93	0.27	0.81	3.01	1,122
2021	756	2,941	90	0.26	0.60	2.27	833
2022	768	2,988	88	0.26	0.72	2.74	999
Average			99			2.81	

- a) Source: FDEP PWS #3480327 Monthly Operational Reports (MORs).
- b) Source: Billing Department – Active service meter connections.
- c) Assumed 3.89 persons per household per 2020 US Census.
- d) Assumed 2 * MDD/ADD peaking factor.

5.2 Projected Potable Water Demands

Future potable water demand allocations were projected using the historical per capita data, well pumping, high service pumping records and peaking factors applied to projected population growth in the total service area.

For projecting maximum daily demand, a historical average MDD/ADD peaking factor of 2.81 was used for the total service area. Similarly, the peak hour demand (PHD) for the potable water system was based on a historical PHD/ADD average peaking factor of 5.61.

Figure 5-2 presents the potable water service population growth projections adjusted for the new development identified by the Town's Planning Department. **Figure 5-3** presents the potable water demand projections for the total service area over a 20-year horizon. Projected potable water demands to the Eatonville PWS are projected to increase from 0.23-MGD to 0.46-MGD (100% increase) to the 2043 horizon.

Based on the water demand projections, **Table 5-3** presents the permitted and rated design capacities of the PWS to the 2043 horizon. The following are noted.

- **Plan to modify CUP allocation.** Permitted Groundwater CUP Withdrawal Allocation is projected to exceed the limit once Lake Weston and Enclave Apartments come on-line.
- **Plan to increase the PWS maximum-Day Design Capacity.** Permitted MDD design capacity is projected to exceed the limit once Lake Weston and Enclave Apartments come on-line.
- **Plan to increase well production capacity.** Currently, well production capacity is beyond 75% total (MDD + FF) and firm (MDD) well capacity.
- **Plan to increase available storage capacity.** Available storage capacity is projected to exceed the limit once Lake Weston and Enclave Apartments come on-line.
- **Plan to increase available high service pump capacity.** Available high service pump capacity is projected to exceed the limit once Lake Weston and Enclave Apartments come on-line.

FIGURE 5-2: Town of Eatonville Potable Water System Population Growth Projection

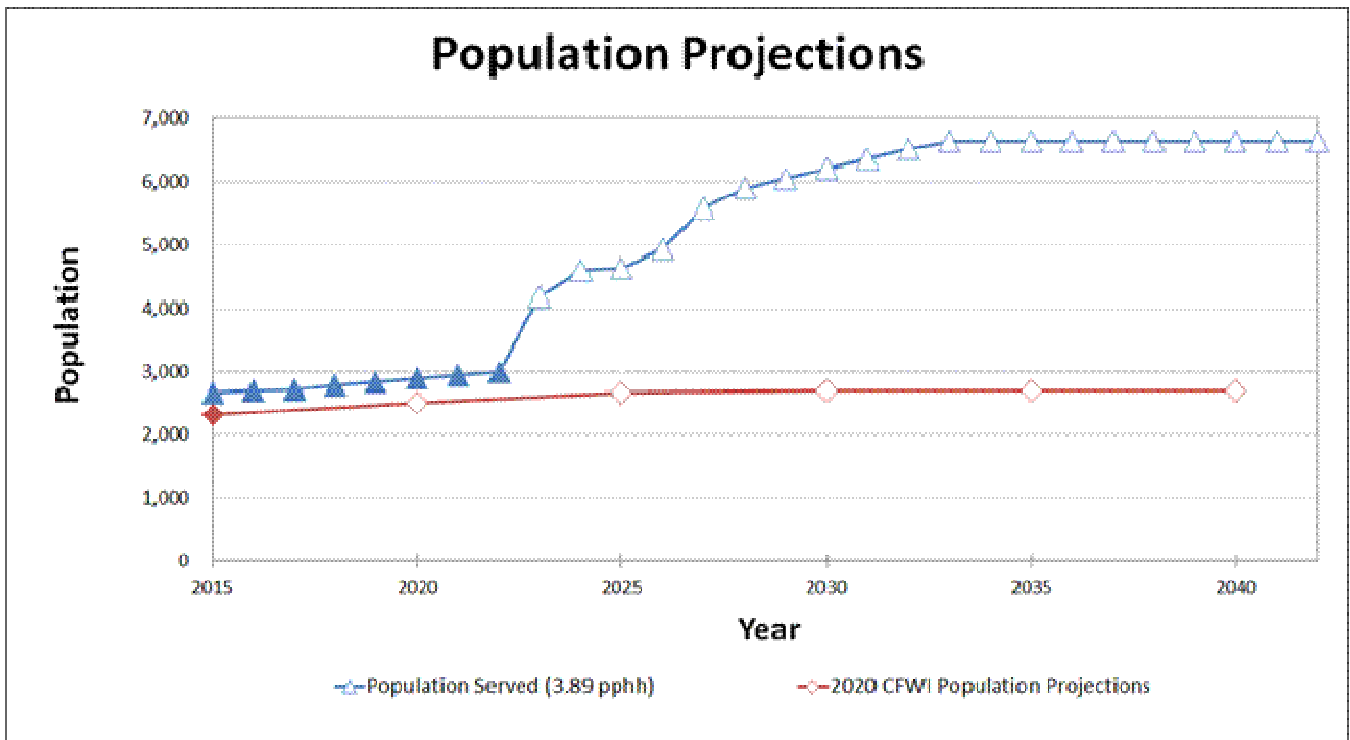
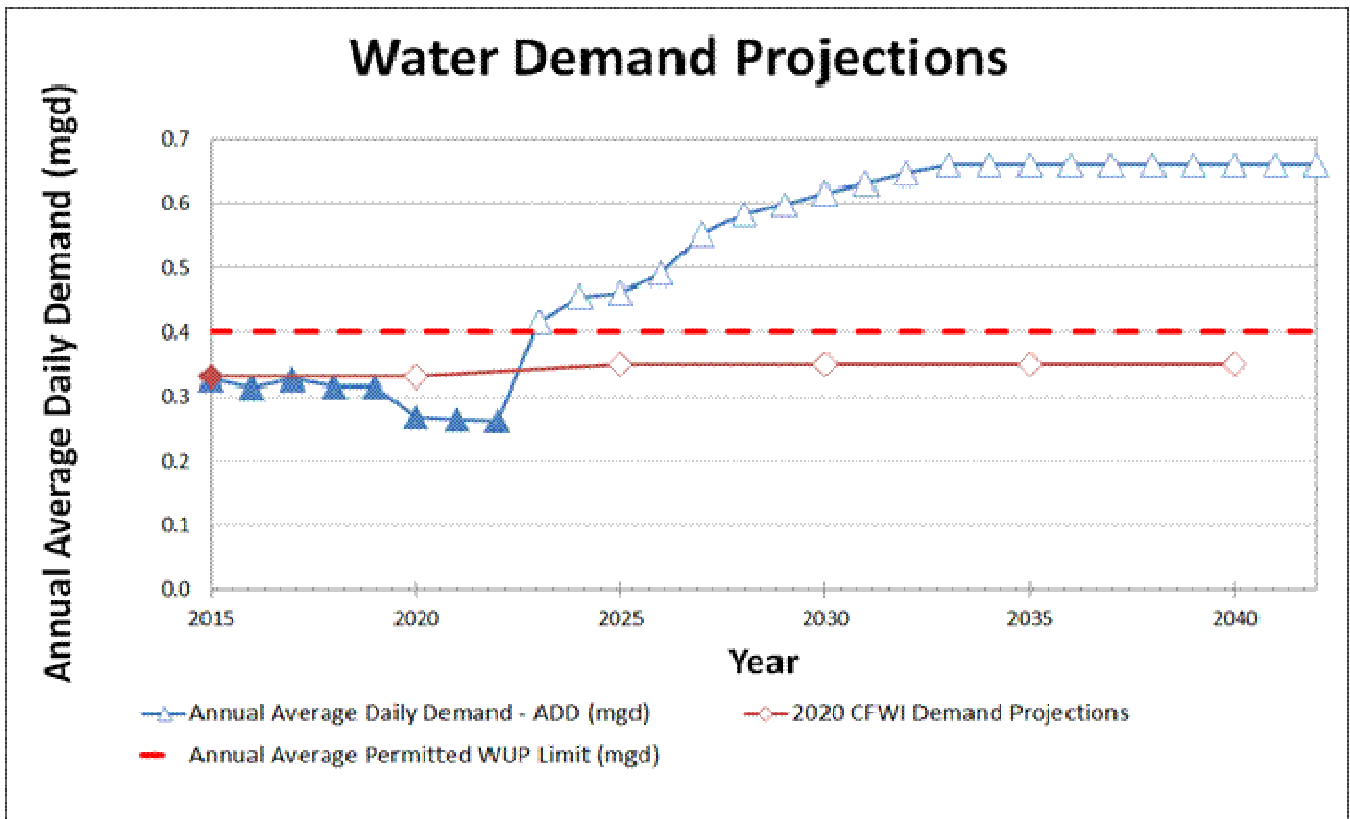


FIGURE 5-3: Town of Eatonville Potable Water Demand Projections



5.0 Potable Water Demand Projections

TABLE 5-3: Projected PWS Design Capacity (in 5-year increments)

PARAMETER	2015	2020	2025	2030	2035	2040	COMMENTS
	Potable Water Use						
Total # of Active Service Water Connections	686	742	1,193	1,594	1,709	1,709	
Service Connections per Year	---	14	12	40	0	0	
Future Cumulative Dwelling Units			425	826	941	941	Plans for New Developments
Persons per Household (pphh) - Connection	3.89	3.89	3.89	3.89	3.89	3.89	2020 US Census = 3.89 persons per household
Per Capita Usage (gpdc)	123	93	99	99	99	99	Town of Eatonville LOS 350 gpd per ERU
Population Served (3.89 pphh)	2,669	2,886	4,641	6,201	6,648	6,648	
Annual Average Daily Demand - ADD (mgd)	0.33	0.27	0.46	0.61	0.66	0.66	
Max Day Demand - MDD (mgd)	0.68	0.81	1.29	1.72	1.85	1.85	
MDD/ADD Peaking Factor	2.07	3.01	2.81	2.81	2.81	2.81	Average 2018 to 2022
PHD/ADD Peaking Factor	4.14	6.03	5.61	5.61	5.61	5.61	2 * MDD/ADD peaking factor
PHD (gpm)	940	1,122	1,792	2,394	2,567	2,567	
2020 CFWI Population Projections	2,324	2,501	2,658	2,701	2,702	2,702	
2020 CFWI Demand Projections	0.33	0.33	0.35	0.35	0.35	0.35	
CFWI 2025 Limit	0.35	0.35	0.35	0.35	0.35	0.35	
2025 UFA Adjusted AADD	0.33	0.27	0.46	0.46	0.46	0.46	
AWS Need Beyond 2025	0.00	0.00	0.00	0.15	0.20	0.20	
Proposed Adjusted CUP Limit to 2025 Demands	0.46	0.46	0.46	0.46	0.46	0.46	Based on CWFU UFA Withdrawal Limits
Permitted Groundwater Withdrawal Allocation							
Annual Average Permitted WUP Limit (mgd)	0.40	0.40	0.40	0.40	0.40	0.40	
ADD (mgd)	0.33	0.27	0.46	0.61	0.66	0.66	
ADD WUP Surplus/Deficit (mgd)	0.07	0.13	(0.06)	(0.21)	(0.26)	(0.26)	
Percent WUP Allocation (%)	82%	67%	115%	154%	165%	165%	Begin Planning @ 90%
Rated Maximum-Day Design Capacity							
Max Day Design Capacity (mgd)	1.44	1.44	1.44	1.44	1.44	1.44	FDEP PWS No. 6530431
MDD (mgd)	0.68	0.81	1.29	1.72	1.85	1.85	
Design Surplus/Deficit (mgd)	0.76	0.63	0.15	(0.28)	(0.41)	(0.41)	
Percent Design Capacity (%)	47%	56%	90%	120%	128%	128%	Begin Planning @ 75% Capacity
Well Production Capacity (TOTAL)							
Total Well Capacity (gpm)	1,344	1,344	1,344	1,344	1,344	1,344	FGUA Meter Calibration 6/6/2023
MDD + FF (gpm)	1,470	1,561	1,896	2,197	2,283	2,283	FDEP 62-555-315(3) -> Total > MDD + FF
Total Well Surplus/Deficit (gpm)	(126)	(217)	(552)	(853)	(939)	(939)	
Percent Total Well Capacity (%)	109%	116%	141%	163%	170%	170%	Begin Planning @ 75% Capacity
Well Production Capacity (FIRM - Largest Well Off-Line)							
Firm Well Capacity (gpm)	667	667	667	667	667	667	Largest Well Off-line - FGUA Meter Calibration 6/6/2023
MDD (gpm)	470	561	896	1,197	1,283	1,283	FDEP 62-555-315(3) -> Firm > ADD (preferably MDD)
Firm Well Surplus/Deficit (mgd)	197	106	(229)	(530)	(616)	(616)	
Percent Firm Well Capacity (%)	70%	84%	134%	179%	192%	192%	Begin Planning @ 75% Capacity
Storage							
On-Site GST (MG)	0.20	0.20	0.20	0.20	0.20	0.20	2021 Sanitary Survey
On-Site EST (MG)	0.00	0.00	0.00	0.00	0.00	0.00	Off-Line (200,000 gal)
Off-Site EST (MG)	0.20	0.20	0.20	0.20	0.20	0.20	
Total Storage Available (MG)	0.40	0.40	0.40	0.40	0.40	0.40	
Equivalent MDD Available Storage (mgd)	1.60	1.60	1.60	1.60	1.60	1.60	FDEP 62-555-320(a) -> MG = 25%MDD (mgd)
Required 25% MDD Storage (MG)	0.17	0.20	0.32	0.43	0.46	0.46	
Required Fire Flow Storage (MG)	0.12	0.12	0.12	0.12	0.12	0.12	FF = 1,000 gpm for 2 hours
Required 4-Log CT Storage (MG)	0.01	0.01	0.01	0.01	0.01	0.01	0.5 mg/L @ CT = 4 mg/L-min
Total Storage Required (MG)	0.30	0.34	0.46	0.57	0.60	0.60	
Storage Capacity Surplus/Deficit (MG)	0.10	0.06	(0.06)	(0.17)	(0.20)	(0.20)	
Percent Storage Capacity (%)	76%	84%	114%	141%	149%	149%	Begin Planning @ 75% Capacity
High Service Pumping (TOTAL)							
Installed HSP Capacity (gpm)	1,800	1,800	1,800	1,800	1,800	1,800	2021 Sanitary Survey
Required Capacity - PHD (gpm)	940	1,122	1,792	2,394	2,567	2,567	
Installed HSP Surplus/Deficit (gpm)	860	678	8	(594)	(767)	(767)	
Percent HSP Capacity (%)	52%	62%	100%	133%	143%	143%	Begin Planning @ 75% Capacity
High Service Pumping (FIRM)							
Firm HSP Capacity (gpm)	1,000	1,000	1,000	1,000	1,000	1,000	2021 Sanitary Survey
Required Capacity = MDD + FF (gpm)	1,470	1,561	1,896	2,197	2,283	2,283	Largest HSP Off-Line at each WTP
Firm HSP Surplus/Deficit (gpm)	(470)	(561)	(896)	(1,197)	(1,283)	(1,283)	
Percent HSP Capacity (%)	147%	156%	190%	220%	228%	228%	Begin Planning @ 75% Capacity

6.0 Potable Water Regulatory Requirements

This Chapter presents potable water regulatory requirements of concern for the Town to recognize. State and Federal regulations were reviewed.

6.1 SJRWMD Regulatory Background

Two (2) Upper Floridian Aquifer (UFA) wells are the source of raw supply water for the Eatonville WTP, which are located in the CFWI planning area. **As a result, withdrawal from the UFA will be limited to 2025 demands per the CFWI rule. Therefore, alternative water supply (AWS) sources should be explored: such as, conservation; construction of a Lower Floridan Aquifer (LFA) well; or interconnection with a neighboring utility for emergency (two-way meter assembly) or consecutive system use (one-way meter assembly).**

The Town's ground water supply withdrawal is regulated by the SJRWMD. **Table 6-1** presents key requirements of the CUP and the status of meeting compliance with permit conditions. Future development is projected to exceed existing withdrawal allocations based on historical data trends.

6.2 FDEP Potable Water Regulatory Background

Eatonville's public water system is regionally regulated by the FDEP Central District. The current potable water supply system consists of two (2) wells and one (1) water treatment plant facility. To assure that public water systems supply drinking water which meets minimum requirements, the Federal Government enacted PL 93-523 known as the "Safe Drinking Water Act (SDWA)" in 1974.

The SDWA is the federal law that protects public drinking water supplies throughout the nation. Under the SDWA, United States Environmental Protection Agency (EPA) sets standards for drinking water quality and with the FDEP implements various technical and financial programs to ensure drinking water safety.

The SDWA gives individual states primacy to set and enforce their own drinking water standards if the standards are at a minimum as stringent as EPA's national standards. The legislature of Florida has enacted the "Florida SDWA," Sections 403.850-.864, F.S.

TABLE 6-1: Key CUP Requirement Status

Key Requirements	Description	Status
Condition No. 2	Maintain all flowmeters. Repair or replace defective meters within 30 days of discovery. Well 2A meter is inoperable.	<ul style="list-style-type: none"> ➤ Repair/Replacement in Progress. ➤ Currently operator using run time and flow rate calibration check to calculate withdrawal.
Condition No. 3	Calibrate well flow meters every 10 years (by November 30, 2022).	<ul style="list-style-type: none"> ➤ By FRWA Flow Meter Calibration on June 6, 2023
Condition No. 6	Submit a compliance report every 10 years (December 31, 2022). Report shall contain sufficient information to demonstrate use of water will continue to meet withdrawal allocation for remaining duration of permit.	<ul style="list-style-type: none"> ➤ Current projected development growth indicates CUP will be exceeded.
Condition No. 11	Leaking well assemblies must be repaired or replaced to eliminate leaks	<ul style="list-style-type: none"> ➤ Need to schedule leak repair on Well 1A
Condition No. 23	Submit total withdrawal monthly recording EN-50 reports to SJRWMD every 6 months (July 31 st and January 31 st).	<ul style="list-style-type: none"> ➤ Up to date on EN-50 submittals ➤ Historical recordings reported inaccurately in 2019, 2021 and 2022
Condition No. 24/22	Current public supply groundwater withdrawal allocation for potable water is 146.0 mgy (0.40 MGD average) to December 18, 2032	<ul style="list-style-type: none"> ➤ At 66% of CUP limit ➤ Current projected development growth indicates CUP will be exceeded.

6.0 Potable Water Regulatory Requirements

Florida has promulgated Chapters 62-550 (1977 last amended 2015), 62-555 (1987 last amended 2014) and 62-560 (1987 last amended 2016), F.A.C, to implement the requirements of the Florida SDWA and to acquire and maintain primacy for Florida under the Federal SDWA. Florida has adopted national primary and secondary drinking water standards of the Federal Government where possible, and otherwise created additional rules to fulfill State and Federal requirements.

The SDWA Amendments of 1996 sought to address numerous long-standing problems impeding the nation's primary drinking water protection program. The expense associated with implementing drinking water regulations underscores the need for water purveyors to have a sound scientific information for the basis of decision-making.

Under the mandated Amendments to the SDWA in 1996, regulatory control has and will continue to increase, in terms of both number and types of contaminants being regulated, as well as acceptable contaminant concentrations. The newer provisions of the SDWA are more restrictive than standards in the past. Today, more emphasis must be placed on compliance with water quality regulations at the consumer tap, which include the following:

- Revised Lead and Copper Rule (LCR)
- Stage 2 Disinfection By-Product Rule (DBPR)
- Revised Total Coliform Rule (TCR) – Monthly BacT Sampling
- Ground Water Rule (GWR) - Demonstration of 4-Log Virus Inactivation

Moreover, public water purveyors are under increased demands to maintain consumer confidence and manage water quality in distribution systems expanding because of economic and population growth. As regulations continue to be developed, water utilities are preparing by implementing total quality management programs to increase productivity and enhance consumer attitudes.

The purpose of this section is to review existing drinking water supply and treatment performance relative to water quality, design, operations, and maintenance regulatory requirements. Objectives of this section are as follows:

- Review State and Federal regulations (existing and future) relative to drinking water.
- Present regulatory impacts relative to Eatonville's potable water system.
- Recommend action items in response to existing and future regulations applicable to Eatonville.

6.0 Potable Water Regulatory Requirements

6.3 Primary Drinking Water Standards

Eatonville meets State and Federal Drinking Water Standards. The federal regulations establish enforceable standards called "maximum contaminant levels (MCLs)." MCLs are established to protect public health and are calculated so that little or no adverse health risk would be expected based on a lifetime average consumption rate of two liters of water per day for 70 years.

Currently, eighty-eight (88) contaminants are regulated under National Primary Drinking Water Regulations (NPDWRs) established by EPA and enforced by FDEP. Primary drinking water standards in Florida include the following categories:

- Inorganic Chemicals (**Section 6.3.1**)
- Volatile Organic Chemicals (VOCs) (**Section 6.3.2**)
- Synthetic Organic Chemicals (SOCs) (**Section 6.3.3**)
- Disinfectant Residuals and Disinfection By-Products (**Section 6.3.4**)
- Microorganisms (**Section 6.3.5**)
- Radionuclides (**Section 6.3.6**)

6.3.1 Inorganic Chemicals

Table 6-2 summarizes the average inorganic chemicals monitored at the point-of-entry (POE) to the distribution system from the Eatonville WTP. Samples are collected triennially (every 3 years).

Eatonville complies inorganic chemical sample collection and water quality.

6.0 Potable Water Regulatory Requirements

TABLE 6-2: Summary of Inorganic Chemical (2012 to 2021) (a) (b)

CONTAMINANT	Units	2012	2015	2018	2021	Maximum Contaminant Level	Lab Minimum Detection Limit
Nitrate	mg/L as N	BDL	BDL	BDL	BDL	10.00	0.2
Nitrite	mg/L as N	BDL	BDL	BDL	BDL	1	0.2
Arsenic	mg/L	BDL	BDL	BDL	BDL	0.010	0.001
Barium	mg/L	0.004	BDL	0.005	0.005	2.000	0.002
Cadmium	mg/L	BDL	BDL	BDL	BDL	0.005	0.001
Chromium	mg/L	0.005	BDL	0.003	BDL	0.100	0.001
Cyanide	mg/L	BDL	BDL	BDL	BDL	0.200	0.005
Fluoride	mg/L	0.3	0.2	BDL	0.2	4.0	0.2
Lead	mg/L	BDL	BDL	BDL	BDL	0.015	0.001
Mercury	mg/L	BDL	BDL	BDL	BDL	0.0020	0.00002
Nickel	mg/L	0.002	0.002	BDL	BDL	0.100	0.001
Selenium	mg/L	BDL	BDL	BDL	BDL	0.050	0.002
Sodium	mg/L	15	20	19	18	160	0.5
Antimony	mg/L	BDL	BDL	BDL	BDL	0.006	0.001
Beryllium	mg/L	BDL	BDL	BDL	BDL	0.0040	0.0005
Thallium	mg/L	BDL	BDL	BDL	BDL	0.002	0.001

a) Source: FDEP triennial POE sampling of PWS No. 3480327.

b) BDL = Below Detectable Limit

6.0 Potable Water Regulatory Requirements

6.3.2 Volatile Organic Chemicals (VOCs)

Table 6-3 summarizes the average VOCs monitored at the POE to the distribution system from the Eatonville WTP. Samples are collected triennially (every 3 years). No VOCs have been detected.

Eatonville complies with VOC chemical sample collection and water quality.

TABLE 6-3: Summary of VOCs (2012 to 2021) ^{(a) (b)}

CONTAMINANT	Units	2012	2015	2018	2021	Maximum Contaminant Level
1,2,4-Trichlorobenzene	ug/L	BDL	BDL	BDL	BDL	70
cis-1,2-Dichloroethylene	ug/L	BDL	BDL	BDL	BDL	70
Xylenes (total)	ug/L	BDL	BDL	BDL	BDL	10,000
Dichloromethane	ug/L	BDL	BDL	BDL	BDL	5
o-Dichlorobenzene	ug/L	BDL	BDL	BDL	BDL	600
para-Dichlorobenzene	ug/L	BDL	BDL	BDL	BDL	75
Vinyl chloride	ug/L	BDL	BDL	BDL	BDL	1
1,1-Dichloroethylene	ug/L	BDL	BDL	BDL	BDL	7
trans-1,2-Dichloroethene	ug/L	BDL	BDL	BDL	BDL	100
1,2-Dichloroethane	ug/L	BDL	BDL	BDL	BDL	3
1,1,1-Trichloroethane	ug/L	BDL	BDL	BDL	BDL	200
Carbon tetrachloride	ug/L	BDL	BDL	BDL	BDL	3
1,2-Dichloropropane	ug/L	BDL	BDL	BDL	BDL	5
Trichloroethylene	ug/L	BDL	BDL	BDL	BDL	3
1,1,2-Trichloroethane	ug/L	BDL	BDL	BDL	BDL	5
Tetrachloroethylene	ug/L	BDL	BDL	BDL	BDL	3
Monochlorobenzene	ug/L	BDL	BDL	BDL	BDL	100
Benzene	ug/L	BDL	BDL	BDL	BDL	1
Toluene	ug/L	BDL	BDL	BDL	BDL	1,000
Ethylbenzene	ug/L	BDL	BDL	BDL	BDL	700
Styrene	ug/L	BDL	BDL	BDL	BDL	100

- a) Source: FDEP triennial POE sampling of PWS No. 3480327.
- b) BDL = Below Detection Limit <=0.5 ug/L.

6.0 Potable Water Regulatory Requirements

6.3.3 Synthetic Organic Chemicals (SOCs)

Table 6-4 summarizes the average SOCs monitored at the POE to the distribution system from the Eatonville WTP. Samples are collected every 3 years. SOCs include herbicides, pesticides, PCB and dioxin. No SOCs have been detected. **Eatonville complies with SOC chemical sample collection and water quality.**

TABLE 6-4: Summary of SOCs (2012 to 2021) (a) (b)

CONTAMINANT	Units	2012	2015	2018	2021	Maximum Contaminant Level	Regulatory Detection Limit
Endrin	mg/L	BDL	BDL	BDL	BDL	0.002	0.00001
Lindane	mg/L	BDL	BDL	BDL	BDL	0.0002	0.00002
Methoxychlor	mg/L	BDL	BDL	BDL	BDL	0.04	0.0001
Toxaphene	mg/L	BDL	BDL	BDL	BDL	0.003	0.001
Dalapon	mg/L	BDL	BDL	BDL	BDL	0.2	0.0010
Diquat	mg/L	BDL	BDL	BDL	BDL	0.02	0.0004
Endothall	mg/L	BDL	BDL	BDL	BDL	0.1	0.009
Glyphosate	mg/L	BDL	BDL	BDL	BDL	0.7	0.006
Di(2-ethylhexyl)adipate	mg/L	BDL	BDL	BDL	BDL	0.4	0.0006
Oxamyl (vydate)	mg/L	BDL	BDL	BDL	BDL	0.2	0.002
Simazine	mg/L	BDL	BDL	BDL	BDL	0.004	0.00007
Di(2-ethylhexyl)phthalate	mg/L	BDL	BDL	BDL	BDL	0.006	0.0006
Picloram	mg/L	BDL	BDL	BDL	BDL	0.5	0.0001
Dinoseb	mg/L	BDL	BDL	BDL	BDL	0.007	0.0002
Hexachlorocyclopentadiene	mg/L	BDL	BDL	BDL	BDL	0.05	0.0001
Carbofuran	mg/L	BDL	BDL	BDL	BDL	0.04	0.0009
Atrazine	mg/L	BDL	BDL	BDL	BDL	0.003	0.0001
Alachlor	mg/L	BDL	BDL	BDL	BDL	0.002	0.0002
Heptachlor	mg/L	BDL	BDL	BDL	BDL	0.0004	0.00004
Heptachlor epoxide	mg/L	BDL	BDL	BDL	BDL	0.0002	0.00002
2,4-D	mg/L	BDL	BDL	BDL	BDL	0.07	0.0001
2,4,5-TP (Silvex)	mg/L	BDL	BDL	BDL	BDL	0.05	0.0002
Hexachlorobenzene	mg/L	BDL	BDL	BDL	BDL	0.001	0.0001
Benzo(a)pyrene	mg/L	BDL	BDL	BDL	BDL	0.0002	0.00002
Pentachlorophenol	mg/L	BDL	BDL	BDL	BDL	0.001	0.00004
Polychlorinated biphenyls (PCBs)	mg/L	BDL	BDL	BDL	BDL	0.0005	0.0001
Dibromochloropropane (DBCP)	mg/L	BDL	BDL	BDL	BDL	0.0002	0.00002
Ethylene dibromide (EDB)	mg/L	BDL	BDL	BDL	BDL	0.00002	0.00001
Chlordane	mg/L	BDL	BDL	BDL	BDL	0.002	0.0002

a) Source: FDEP average triennial POE sampling of PWS No. 3480327.
 b) BDL = Below Detection Limit.

6.3.4 Disinfectants and Disinfection Byproducts Rules

6.3.4.1 Free Chlorine Disinfection

The Town uses 12% liquid chlorine for disinfection. **Table 6-5** presents a summary of chlorine residuals from the Eatonville WTP. Average chlorine residual from the Eatonville WTP is 0.09 mg/L. **Eatonville complies with the minimum and maximum residual disinfectant level (MRDL).**

TABLE 6-5: Summary of Chlorine Residuals (2014 to 2021) ^(a)

DISINFECTANT RESIDUAL	2014	2015	2016	2017	2018	2019	2020	2021	Residual Disinfectant Level
Average	1.6	2.0	1.4	0.92	0.8	1.0	0.09	0.09	Max: 4.0 mg/L Min: 0.5 mg/L
Maximum	2.5	3.0	2.9	1.1	1.0	1.4	1.2	1.2	
Minimum	0.77	0.7	0.7	0.6	0.6	0.8	0.5	0.5	

a) Source: Consumer Confidence Reports.

6.3.4.2 Disinfection By-Product Compliance and Consent Order

The Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) further strengthens public health protection by tightening compliance monitoring requirements for total trihalomethanes (TTHM) and five haloacetic acids (HAA5). The DBPR applies to community water systems and non-transient non-community systems, including those serving fewer than 10,000 people that add a disinfectant to the drinking water during any part of the treatment process.

The Stage 2 DBPR targets PWSs with the greatest risk by using a locational approach. Stage 2 is based on a locational running annual average (LRAA) for TTHMs and HAA5. Stage 2 LRAA provides compliance “equity” throughout the distribution system. Stage 2 DBP compliance monitoring for Eatonville began in 4th quarter of 2013. Stage 2 DBP MCLs are as follows:

- TTHM → 80 µg/L LRAA
- HAA5 → 60 µg/L LRAA

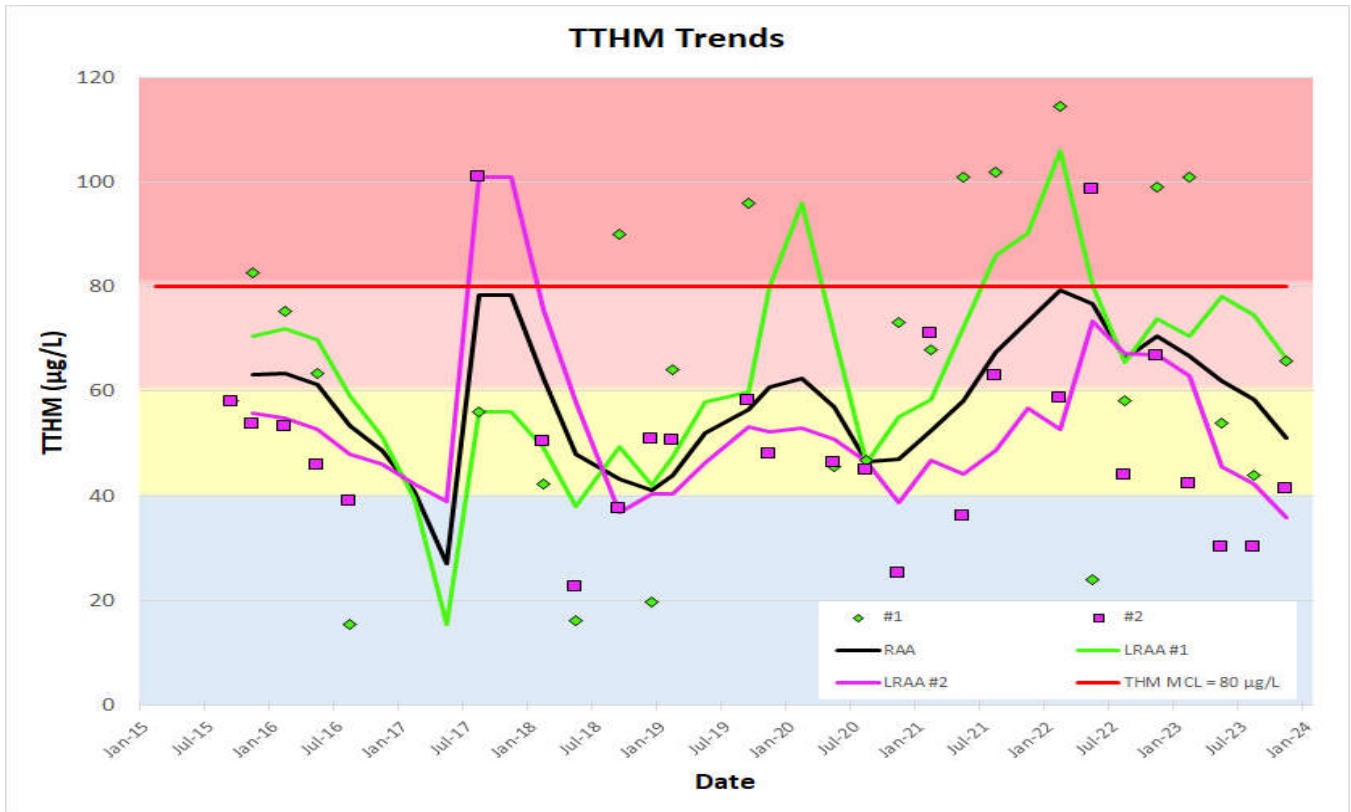
Figure 6-1 presents historical TTHM compliance sampling results from 2016 to present. Figure 6-2 presents historical HAA5 compliance sampling results from 2016 to present. Individual samples are represented by the symbols. The Stage 2 LRAA are represented by the same-colored trend lines.

On March 3, 2023, FDEP issued Consent Order No. 22-2847 to the Town to address violations relative to exceedance of disinfection by-product (DBP) maximum contaminant levels (MCLs). In the 3rd quarter of 2022, flushing devices were installed in the distribution system, which have resulted in a decrease in DBP trends.

Based on preliminary review of the DBP trends, some type of system change is suspected to be impacting the formation of DBPs. As a result, water age is suspected to be the major contributor in DBP formation for PWS No. 3480327. The following action items were offered for the Town to consider implementing to address the Consent Order:

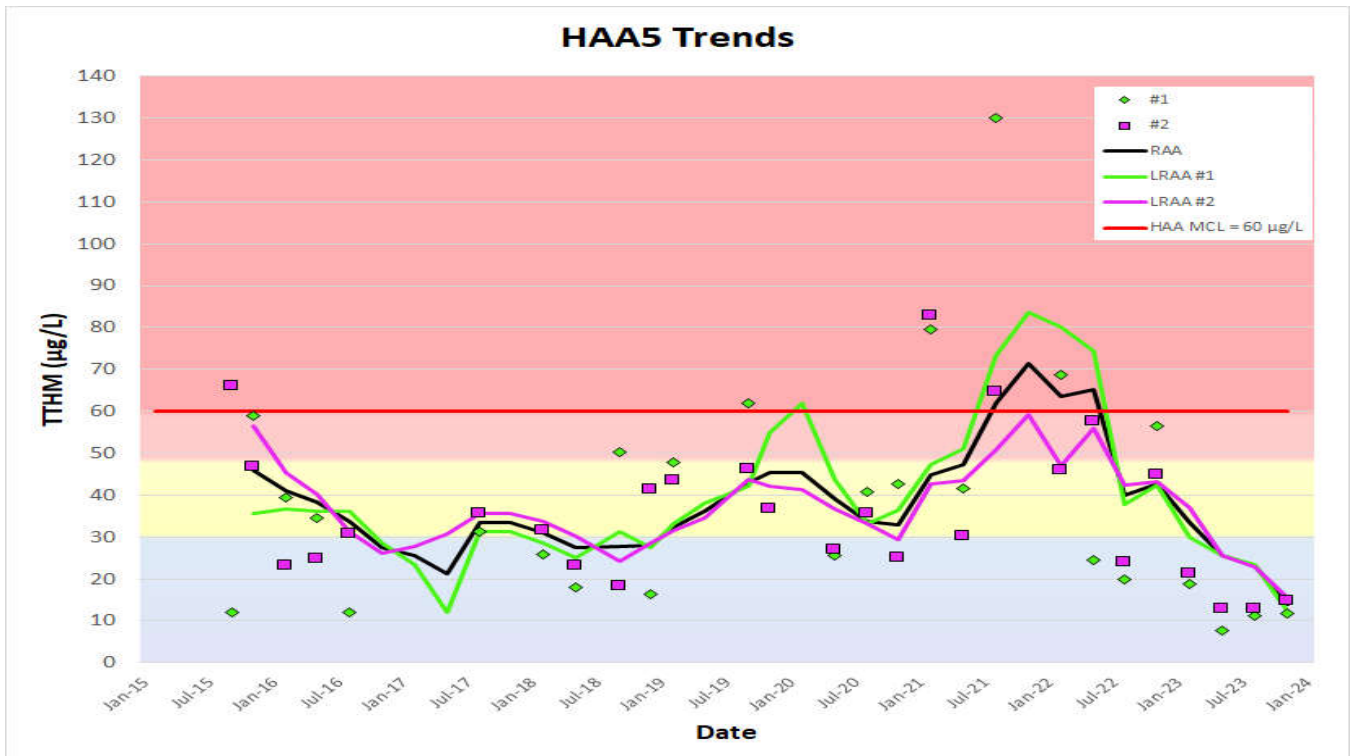
1. **Continue to Use Flushing Devices** – Installing flushing devices strategically in the distribution system offers an acceptable practice to implement for areas experiencing high water ages which result in DBP non-compliance. Several utilities in Central Florida use this low-cost approach to provide higher quality water to their customers. The main challenge with flushing is addressing the limits on the CUP withdrawal allocations for water supply.
2. **Conduct DBP Formation Potential (FP) Testing** – DBP FP testing offers a low-cost “snapshot” view of the source water’s ability to meet DBP compliance. Engineer will need to coordinate with Biometrics to collect samples and transport to Pace Laboratories for DBP measurement.
3. **Evaluate High Service Pumping (HSP) Variable Frequency Drive (VFD) SCADA to Optimize Elevated Storage Tank (EST) Turn-Over** – Currently, the Eatonville WTP has two (2) HSPs operated with VFD motors and one (1) HSP operated with a constant rate motor. The HSP VFDs are set to maintain a 52-psi set-point. The challenge with operating VFDs is “turning over” the remote EST. Adjusting the operational SCADA programming is a low-cost solution, which can allow the EST to “turn over” more frequently. DBPFP testing should be conducted prior to adjusting to optimize the required EST turn over time.

FIGURE 6-1: Stage 1 & Stage 2 THM Compliance Trends (2016 to 2023)



Source FDEP Stage 1 RAA and Stage 2 LRAA compliance sampling for PWS No. 3480327.

FIGURE 6-2: Stage 1 & Stage 2 HAA Compliance Trends (2016 to 2023)



Source FDEP Stage 1 RAA and Stage 2 LRAA compliance sampling for PWS No. 3480327.

4. **Permit and Install Mixing Devices to Ground Storage Tank (GST)** – Installing mixers and exhaust fans to the existing 0.2-MG GST is an acceptable practice to reduce stored water age, improve chlorine residual control and reduce chemical cost. Several utilities in Central Florida use this low-cost approach to provide higher quality water to their customers. A minor permit modification will need to be prepared and submitted to FDEP (Form 62-555.900 – Application to Construct PWS Components – Minor Permit Fee \$1000). In addition, the low water set-point readjusted to allow more frequent turnover of the GST which will improve DBP control.
5. **Submit 4-Log CT Virus Inactivation Demonstration to FDEP** – As a result of installing mixers in the 0.2-MG GST, the 4-log CT inactivation demonstration can be further adjusted to lower the low water set-point in the GST resulting in reduced storage water age further limiting DBP formation. Several utilities in Central Florida use this low-cost approach to provide higher quality water to their customers.
6. **Install Temporary Chlorine Feed System at Well Site** – Installing a temporary chlorine feed system at the well site offers the ability for the operators to control the chlorine feed rate and stabilize chlorine residuals. Also, the Eatonville WTP facility can be refurbished or relocated with minimal impact to operations during construction.

6.3.5 Microorganism

EPA has determined that the presence of total coliforms is a possible health concern. Total coliforms are common in the environment and are generally not harmful themselves. Presence of coliform bacteria in drinking water is generally a result of an issue with water treatment or distribution system pipes.

Excessive persistence of coliforms indicates the water may be contaminated with organisms that can cause disease. Disease symptoms may include diarrhea, cramps, nausea and possibly jaundice, headaches and fatigue. The symptoms, however, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than drinking water.

6.0 Potable Water Regulatory Requirements

Therefore, FDEP has set an enforceable drinking water standard for total coliforms to reduce the risk of adverse health effects. The MCL for coliform bacteria is based on the presence or absence of total coliforms in a sample, rather than coliform density, which triggers public notification.

Under the standard, no more than 5% of the samples collected during a month can contain coliform bacteria, except for systems collecting fewer than 40 samples/month that have one total coliform-positive sample per month are not violating the standard. Drinking water that meets this standard is usually not associated with a health risk from disease-causing bacteria and should be considered safe.

6.3.6 Radionuclides

According to the EPA, there are two (2) sources of radioactive contamination in drinking water. The first is naturally occurring radionuclides contained in soil that can be soluble in water. Some areas in Florida are susceptible to contamination from phosphate-rich soils and rock. The second source of radioactive contamination comes from man-made sources. According to FDEP, there is no known man-made contamination of drinking water in Florida. The standards and rules governing radionuclides is currently under revision by EPA. Florida will adopt the new standards and rules when issued by EPA.

FDEP monitors naturally occurring radionuclides. **Table 6-6** summarizes the average radionuclides monitored at the POE to the distribution system from the WTP. Samples are collected every 6 years. **Eatonville complies with radionuclide chemical sample collection and water quality.**

TABLE 6-6: Summary of Radionuclides (2012 to 2021) ^(a)

CONTAMINANT	Units	2012	2015 ^(b)	2021	MCL
Gross alpha particle activity (excluding radon and uranium)	pCi/L	2.0	N/A	1.8	15 pCi/L
Radium-226	pCi/L	0.6	N/A	0.8	5 pCi/L
Radium-228	pCi/L	1.0	N/A	0.7	5 pCi/L

a) Source: Consumer Confidence Reports.

b) Radionuclides sample not taken in 2015.

6.4 Secondary Drinking Water Standards

EPA has also established National Secondary Drinking Water Regulations (NSDWRs) which set standards to assist public water systems in managing drinking water for aesthetic considerations; such as taste, color and odor.

Secondary drinking water standard contaminants are not health threatening at the “secondary maximum contaminant levels (SMCLs). EPA believes that if secondary drinking water standard contaminants are present in water at levels above the standards, the contaminants may cause the water to appear cloudy or colored, or to taste or smell bad. The result may cause a great number of people to lose confidence and to stop using water from the PWS even though the water is safe to drink.

Secondary standards are set to give public water systems some guidance on removing the contaminants to levels below what most consumers find to be noticeable. No adverse health effects are generally associated with secondary drinking water contaminants.

Table 6-7 summarizes the average secondary contaminants monitored at the point-of entry (POE) to the distribution system from the Eatonville WTP. Samples are collected every 3 years. **Eatonville complies with secondary drinking water standard sample collection and water quality.**

6.0 Potable Water Regulatory Requirements

TABLE 6-7: Summary of Secondary Drinking Water Contaminants (2012 to 2021) ^(a)

CONTAMINANT	Units	2012	2015	2018	2021	SMCL	Lab Minimum Detection Limit
Aluminum	mg/L	BDL	BDL	BDL	BDL	0.2	0.02
Chloride	mg/L	34	33	32	29	250	0.40
Copper	mg/L	0.002	BDL	BDL	BDL	1	0.001
Fluoride	mg/L	0.3	0.2	0.4	0.2	2	0.2
Iron	mg/L	BDL	BDL	BDL	BDL	0.3	0.01
Manganese	mg/L	BDL	BDL	BDL	BDL	0.05	0.01
Silver	mg/L	BDL	BDL	BDL	BDL	0.1	0.0005
Sulfate	mg/L	4	6	5	3	250	1
Zinc	mg/L	BDL	BDL	BDL	BDL	5	0.01
Color	color units	15	5	BDL	BDL	15	5
Odor	Threshold odor number	BDL	BDL	BDL	BDL	3	1
pH	Std. Unit	8.04	8.39	7.99	8.25	6.5 to 8.5	0.01
Total Dissolved Solids	mg/L	216	222	222	244	500	2.5
Foaming Agents	mg/L	BDL	BDL	BDL	BDL	0.5	0.2

a) Source: FDEP triennial POE sampling of PWS No. 3480327.

b) BDL = Below Detection Limit.

6.5 Control of Lead and Copper

The treatment technique for the Lead and Copper Rule (LCR) requires systems to monitor drinking water at customer taps. If lead concentrations exceed an action level of 15 µg/L or copper concentrations exceed an action level of 1.3 ppm in more than 10% of customer taps sampled, the system must undertake a number of additional actions to control corrosion. If the action level for lead is exceeded, the system must also inform the public about steps to take to protect consumer health and may have to replace lead service lines under the PWS's control.

Lead and copper enter drinking water primarily through plumbing materials. Exposure to lead and copper may cause health problems ranging from stomach distress to brain damage. In 1991, EPA published a regulation to control lead and copper in drinking water. The regulation is known as the Lead and Copper Rule (LCR). Since 1991 the LCR has undergone various revisions. As a result of the Flint Michigan incident, EPA has revised the LCR in 2021.

The revised LCR includes a suite of actions to reduce lead exposure in drinking water where most needed. The revised LCR is intended to identify the most at-risk communities and ensure PWSs have plans in place to rapidly respond by taking actions to reduce elevated levels of lead in drinking water.

The revised LCR takes a proactive and holistic approach to improving the current rule from testing to treatment to telling the public about the levels and risks of lead in drinking water. The approach focuses on six (6) key areas:

1. Identifying the areas most impacted – Inventory Lead Service Lines (LSL)
2. Strengthening drinking water treatment requirements – Establish new lead action level = 10 ug/L
3. Replacing LSL – Replace LSL when customers replace their portion of LSL
4. Increasing sampling reliability – Target sample higher lead areas more frequently
5. Improving risk communication – Notify customers of exceedance within 24 hours
6. Protecting children in schools and childcare facilities – Sample drinking water outlets at schools

Table 6-8 summarizes the LCR action levels monitored in the distribution system. Samples are collected triennially. **Eatonville complies with LCR action levels sample collection and water quality.**

6.0 Potable Water Regulatory Requirements

TABLE 6-8: Summary of Lead and Copper 90th Percentile Concentrations (2012 to 2021) ^(a)

CONTAMINANT	Units	2012	2015	2018	2021	Treatment Technique Action Level
Lead	µg/L	N/A	N/A	N/A	0.001	15
Copper	mg/L	0.0283	0.0283	0.023	0.417	1.3

a) Source: FDEP triannual distribution system sampling.

6.6 Consumer Confidence Report

EPA requires community water systems to deliver a Consumer Confidence Report (CCR), also known as an “Annual Drinking Water Quality Report”, to their customers by July 1st of each year. The Consumer Confidence Reports provide customers information about their local drinking water quality.

Eatonville routinely monitors for contaminants in drinking water according to Federal and State laws, rules, and regulations. The data presented in the report is from the most recent testing performed in accordance with the laws, rules, and regulations. **According to the CCR, Eatonville’s drinking water continues to meet all Federal and State requirements.**

6.7 Ground Water Rule (GWR)

EPA issued the Ground Water Rule (GWR) to improve drinking water quality and provide protection from disease-causing microorganisms. Water systems that have ground water sources may be susceptible to fecal contamination. In many cases, fecal contamination can contain disease causing pathogens. The purpose of the GWR is to reduce disease incidence associated with harmful microorganisms in drinking water.

The GWR applies to PWS that use ground water as a source of drinking water. The GWR also applies to any system that delivers surface and ground water to consumers where the ground water is added to the distribution system without treatment. The GWR was published in the Federal Register on November 8, 2006.

Currently, FDEP has adopted the requirement of the GWR relative to demonstration of 4-log virus inactivation disinfection. Eatonville has not been required to submit a CT evaluation. However, if Eatonville was required to meet CT the following requirements were assumed for the Eatonville WTP GST.

6.0 Potable Water Regulatory Requirements

- 1. Minimum free chlorine residual ≥ 0.50 mg/l and MRDL ≤ 4.0 mg/L.
- 2. Minimum water temperature of 18° C (typical Central Florida low groundwater temperature).
- 3. pH value in the range of 6-9.
- 4. An installed HSP capacity peak hour demand of 1,800 gpm (all HSPs on-line).
- 5. GST baffle factor of 0.3 (without mixers).
- 6. A minimum water level of approximately 3 feet in the GST.

6.8 Contaminants of Emerging Concern

In addition to regulated contaminants, EPA also prioritizes research and data collection for new chemicals being discovered in water that previously had not been detected or are being detected at levels that may be different than expected under the Unregulated Contaminant Monitoring Rule (UCMR). While there are no regulatory limits for UCMR, there may be a long-term potential risk to human health, or the environment associated with emerging contaminants. Additional studies may also bring new or changing health exposure information related to emerging contaminants. Hence, FDEP is committed to addressing emerging contaminants.

As part of EPA’s data collection on emerging contaminants, all large and selected smaller public water systems (equal to or less than 10,000 people) across the U.S. were required to monitor for the targeted Contaminants of Emerging Concern (CEC). **Eatonville has not been selected to sample for any of the thirty (30) CECs.**

Once EPA’s study and evaluation are complete, EPA can develop or modify Health Advisory Levels (HALs) for CECs detected. While HALs do not establish a regulatory limit or “maximum contaminant level” (MCL) for drinking water, HALs provide guidance to state and local officials in evaluating drinking water quality based on levels below which adverse health effects are not anticipated to occur over a lifetime of exposure. Currently, the Florida Department of Health (FDOH) have set HALs for the following CECs:

- 1. 1,4-Dioxane –HAL ≤ 0.35 ug/L
- 2. PFAS/PFOS - HAL ≤ 70 ng/L

6.0 Potable Water Regulatory Requirements

6.9 Public Water System Design Standard Impacts and Action Items

This section presents State potable water design standards and suggests actions relative to the FDEP Chapter 62-555 regulations. **Table 6-9** provides a summary of the FDEP Chapter 62-555 rule requirements, compliance impacts and action items for Eatonville to consider.

Recommendations were developed to maintain compliance with FDEP regulations. Currently Eatonville is approaching the need for additional well production, storage capacity and high service pump capacity. For reference **Table 6-10** presents the total sulfide treatment guidelines for new wells.

TABLE 6-9: FDEP Chapter 62-555 Requirements

PARAMETER	Requirement	Facility Design Compliance Impacts	Compliant	Non-Compliant	Action Items
Monitoring	Odor Control	<ul style="list-style-type: none"> • Objectionable Odors 	√		---
	Capacity Analysis	<ul style="list-style-type: none"> • MDD < 75% Max Day Design Capacity 	√		Begin planning for rerating WTP.
Design	Location of PWS Wells	<ul style="list-style-type: none"> • Setback Distances • Well Head Protection • Security 	√		---
	PWS Wells	<ul style="list-style-type: none"> • Firm Capacity MDD • Total Capacity MDD + FF 	√		Begin planning for additional well production.
	Control of Copper Pipe Corrosion & Black Water	<ul style="list-style-type: none"> • H₂S Removal 	√		Begin planning treatment options if needed for future LFA wells ^(a)
	Drinking Water Chemicals	<ul style="list-style-type: none"> • NSF 60 Approved 	√		---
	Materials of Construction in Contact with Water	<ul style="list-style-type: none"> • NSF 61 Approved 	√		---
	Flood Protection	<ul style="list-style-type: none"> • 100-yr Flood 	√		---
	Color Coding of Piping	<ul style="list-style-type: none"> • Color Code and Label 	√		---
	Finished Water Storage	<ul style="list-style-type: none"> • 25% MDD + FF 	√		Begin planning for additional storage.
	Operation	Standby Power	<ul style="list-style-type: none"> • Source, treatment and pumping power to meet ADD 		√
High Service Pumping		<ul style="list-style-type: none"> • PHD • MDD + FF • Minimum 20 psi 	√		Begin planning for additional HSP capacity.
Maintenance	Isolation Valves & Auxiliary Equipment Exercise Program	<ul style="list-style-type: none"> • Every year 	√		Assess equipment exercise program
	Storage Tank Maintenance	<ul style="list-style-type: none"> • Every 5 years 		√	Off-site EST currently being repaired
Disinfection	GWR CT 4-Log Virus Inactivation	<ul style="list-style-type: none"> • CT > 4-mg/L-min 	√		Revise CT calculations for when new GST installed.
	Chlorine Residual	<ul style="list-style-type: none"> • Max = 4.0 mg/L MRDL • Min = 0.2 mg/L 	√		Assess condition of continuous chlorine analyzer

a) Wells constructed before 2003. No action required at this time.

TABLE 6-10: Total Sulfide Treatment Guidelines (FDEP Chapter 62-555.315) ^(a)

Potential for Impacts without Total Sulfide Removal	Source Water Sulfide Level	Potential Water Treatment Technique
Low	Total Sulfide (TS) < 0.3 mg/L; or Dissolved Iron (DI) < 0.1 mg/L ¹	Direct chlorination ²
Moderate	0.3 mg/L ≤ TS ≤ 0.6 mg/L @ pH ≤ 7.2	Conventional aeration ³ (maximum removal efficiency ≈ 40% to 50%)
	0.3 mg/L ≤ TS ≤ 0.6 mg/L @ pH > 7.2	Conventional aeration with pH adjustment (maximum removal efficiency ≈ 40% to 50%)
Significant	0.6 mg/L ≤ TS ≤ 3.0 mg/L @ pH ≤ 7.2	Forced Draft Aeration ³ (maximum removal efficiency ≈ 90%)
	0.6 mg/L ≤ TS ≤ 3.0 mg/L @ pH > 7.2	Forced Draft Aeration with pH adjustment ^{4,5} (maximum removal efficiency ≈ 90%)
Very Significant	TS > 3.0 mg/L	Packed Tower Aeration with pH adjustment ^{4,5} (maximum removal efficiency ≈ 90%)

a) Treatment depends upon H₂S levels in the raw water. Wells constructed before August 28, 2003 are exempt from treatment requirements; however, FDEP may enforce treatment requirements if consumer complaints are received on the quality of water related to H₂S levels.

- High iron content raises concern if chlorination alone is used and significant dissolved oxygen exists in the source water. Filtration may be required to remove particulate iron prior to water distribution.
- Direct chlorination of sulfide in water in the pH range normally found in potable sources produces S^{0(s)} and increased turbidity. Finished-water turbidity should not be more than two nephelometric turbidity units (NTU) greater than raw-water turbidity.
- Increased dissolved oxygen entrained during aeration may increase corrosivity.
- Reduction of alkalinity during pH adjustment and high dissolved oxygen entrained during aeration may increase corrosivity. Corrosion control treatment such as pH adjustment, alkalinity recovery, or use of inhibitors may be required.
- High alkalinity will make pH adjustment costlier, and use of other treatment may be in order. Treatment that preserves the natural alkalinity of the source water may enhance the stability of finished water.

7.0 Key Design Criteria for Distribution System Hydraulic Modeling

Addressing key design criteria for the potable water hydraulic model prior to initiation has several advantages. The primary advantages to Eatonville are as follows:

- Allows Eatonville to review proposed key criteria prior to use in modeling and evaluation.
- Provides an open avenue for Eatonville to revise, amend, or add to the key criteria based on Eatonville staff's unique knowledge of the system.
- Discusses and addresses potential issues and concerns related to the application of key design criteria prior to the modeling, evaluation, and development of proposed systems improvements.

There is also a significant advantage to Eatonville for early review and development of the key design criteria for the modeling and evaluation of the system. Primary and relevant concerns and issues can be discussed and finalized prior to beginning the work.

7.1 PWS Transmission and Distribution Hydraulic Modeling Criteria

The proposed methodology used in the hydraulic modeling and evaluating of Eatonville's potable water transmission and distribution system is presented in this section. Typical issues and concerns related to potable water transmission and distribution systems include the following factors:

1. Compliance with regulatory requirements and standards
2. Normal and extreme system service pressures
3. Normal operation and maintenance costs
4. Fire flow demand
5. Limiting or influencing severity of impacts associated with line breaks and emergency repair procedures

7.1.1 Factors Related to Compliance with Regulatory Requirements and Standards

Design criteria related to compliance with regulatory requirements and standards include:

- Maintenance of minimum service pressures above 20 psi
- Maintenance of minimum 0.2 mg/L free chlorine residual throughout the distribution system
- Materials and labeling/markings complying with AWWA and NSF 61 Standards
- Isolation valve spacing
- Stand-by pumping capability
- Emergency power for power outages

The general purpose of statutory requirements is to help assure that the quality of potable water delivered to users protects public health. **Although water quality modeling or evaluations are beyond the scope of the modeling and evaluation effort for this project, the hydraulic modeling software does have the capability to estimate water age, chlorine dissipation and disinfection by-product (DBP) formation potential throughout the system, provided the model is calibrated.**

Water age is a major indicator of the potential for water quality problems in potable water distribution systems. The WaterCAD model has the capability of modeling system chlorine residual dissipation and can be used by staff or others in the future for that purpose.

Minimizing lost/unaccounted for or wasted water is a key design criterion in Central Florida because of the lower allocations being permitted for consumptive use. Eatonville should continue efforts to minimize unaccounted for water.

Dead end mains are common causes of high-water age and low chlorine residual concentrations that can require frequent and significant volumes of flushing water to maintain minimum chlorine dissipation in the system. The related typical water transmission/distribution system hydraulic design factors include the capability to meet the minimum pressure requirements under the peak hour demand (PHD) or maximum day demand (MDD) coinciding with design fire flow (FF) demands (whichever is the most stringent).

Meeting criteria using non-looped systems can be counterproductive if pipe sizing results in low velocities and associated long residence times are adequate to allow chlorine residual concentrations to

7.0 Key Design Criteria for Distribution System Hydraulic Modeling

dissipate below the regulatory minimum during normal system demand conditions. Conversely, excessive transmission/distribution system velocities increase the dynamic head losses in the system; hence raising pumping costs.

Stand-by (redundant) high service pumps are required in case one of the pumps becomes inoperative. The typical design criterion for establishing pumping system requirements is to provide a firm pumping capacity equal to or greater than the highest anticipated flow rate required to meet peak system demands. The firm pumping capacity of a system is the total pumping capacity remaining after assuming that the highest capacity pumping system is out-of-service (in this case, HSP No. 3 or remote off-site EST).

Facilities for emergency power generation are required for public water systems (Chapter 62-555.320(14)) because significant interruptions in service pumping can quickly result in non-compliance with minimum pressure and chlorine residual requirements. Emergency power capabilities should be adequate to provide for starting and operating raw water supply and service pumping units. Emergency power fuel storage capacity should be adequate for a minimum of 72 hours of continuous emergency generator operation, unless fuel delivery is anticipated to be an issue and additional operational capacity is considered to be necessary.

7.1.2 Normal and Extreme System Service Pressures

Low (near or below 20 psi) system service pressure is a critical design criterion. Managing service pressures can also be an issue.

Distribution service area pressures in Central Florida potable water transmission mains normally range between 55 and 75 psi. Currently, the Eatonville WTP is set to maintain a local pressure of 52 psi. The EST provides 49 to 53 psi.

Typical Central Florida area conservative design criteria for water main pressure class is typically less than or equal to 75 psi and thrust restraint systems incorporate an assumed maximum operating plus surge pressure design factor of 2.0 for a 150-psi maximum pressure.

7.1.3 Factors Impacting Normal Operation and Maintenance Costs

Most of the factors that impact normal operation and maintenance costs have been included in previous discussions. The factors include costs associated with:

- Lost or unaccounted for water
- Water supply production
- Labor and reporting required for flushing mains to maintain required chlorine residuals
- Power costs associated with maintaining higher service pumping pressures than may otherwise be necessary

The major transmission/distribution system design criteria impacting cost is maintaining higher service pumping pressures, which result in excessive pipeline velocities. Transmission pipeline velocities greater than 5 feet per second (fps) can result in significant or excessive system head loss for long pipe runs. Normally, this velocity range and the resultant head loss are not significant for short lengths of small diameter distribution mains.

7.1.4 Fire Flow Demand Factors

Fire flow demands are obviously critical to transmission and distribution system design. Although fire protection and building design standards and codes exist, the level of fire flow service to most areas is normally determined and regulated by the local fire department, through locally adopted ordinances and standards. The ordinances and standards are generally based on nationally recognized standards incorporating factors such as:

- Building usage
- Building type
- Materials of construction
- Types of materials used and/or stored on-site
- Other considerations

7.0 Key Design Criteria for Distribution System Hydraulic Modeling

For buildings with fire sprinklers, the following two (2) potential time periods of concern regarding capabilities of water transmission and distribution system to supply adequate flows and pressures were considered:

1. First few minutes, after the beginning of the fire, before the fire fighters arrive on site.
2. Period after the arrival of the firefighting equipment and personnel.

If the fire sprinkler system does not have a booster pumping system during the first period of the fire, the transmission and distribution system must provide adequate flow and pressure to activate and provide for the design fire sprinkler demand. Fire sprinkler system flow demand is generally low during the initial period with respect to the flow demand of the second fire demand period.

However, the required minimum pressures that the transmission and distribution systems need to deliver during the initial fire demand period can be significantly higher than those of the second fire demand period, when fire trucks and fire department personnel are on site. Typically, traditional transmission and distribution system engineering evaluations and models consider only the second fire flow demand period.

An additional transmission and distribution system design criterion for high value or high-risk buildings/uses is the provision of redundancy in the local transmission and distribution system via looped mains or another method of multi-directional feed. Looping criterion require that the transmission/distribution system continue to transport water to the area if one of the feed lines were to be broken, by closing valves isolating the line segment from the remaining feed system.

Fire flow demand scenarios will be based on maximum daily demand (MDD) plus fire-flow (FF). Fire flow is dependent upon land use type. For modeling purposes, the Town uses the following fire-flow criteria set by Orange County Utilities, based on land use in steady state hydraulic modeling.

<u>Land Use Type</u>	<u>Area Fire Flows (gpm)</u>	<u>Residual Pressure (PSI)</u>
Single-family/duplex-triplex	500	20
Multifamily	1,000	20
Commercial/industrial	2,000	20

7.1.5 Factors Limiting or Influencing the Severity of Impacts Associated with Emergency Repair Procedures of Line Breaks

There are three (3) primary transmission/distribution design criteria that limit or influence the severity of impacts of emergency repairs of line breaks that can be evaluated in the modeling effort. The criteria are as follows:

1. Looping and/or multi-directional feed capability in the system layout
2. Appropriate spacing and location of line valves
3. Availability of detailed and accurate system maps

One of the primary purposes for looping transmission/distribution systems is to limit the extent of the area impacted by line breaks and therefore, the number of services affected by a line break. Line breaks are a critical issue for both transmission and distribution mains. Transmission mains serve larger areas of the system; hence, looping, parallel mains or other forms of multi-directional feed capability is most critical to the transmission system.

Assuming that a transmission or distribution system is looped or is capable of multi-directional feeds, the spacing and location of line valves adjacent to a line break determines the area affected by a line break, with larger spacing resulting in larger areas of impact. The recommended spacing between transmission main isolation valves is 1,000 feet. The recommended spacing for distribution system main isolation valves is 500 feet.

7.2 Potable Water Demand Projection Assumptions

Estimates and distribution of existing water demand will be based on parcel level population densities. Average daily demands (ADD) will be projected based on per capita demands. Maximum daily demands (MDD) will be based on historical MDD/ADD peaking factors.

Projections of future potable water demands will be based on applying historical per capita demands to each parcel. Demands will first be applied to parcels within the existing potable water service areas currently served by Eatonville and areas believed to be in the development planning stage, as determined and identified by Eatonville's Planning Department.

7.3 Potable Water System Hydraulic Modeling Design Criteria

Table 7-1 presents the key design criteria considered in the modeling and evaluation of Eatonville’s potable water transmission and distribution system.

TABLE 7-1: Potable Water System Distribution System Hydraulic Modeling Design Parameters

DESCRIPTION	CRITERIA	SOURCE
System Demands		
Persons per Service Connection	3.89	2020 US Census
Per Capita Demand	99 gpcd	Average last 5 years
Demand per day per ERU	385 gpd/ERU	Average last 5 years
Average Demand per minute per ERU	0.27 gpm/ERU	Average last 5 years
MDD/ADD Peaking Factor	2.81	Average last 5 years
PHD/ADD Peaking Factor	5.61	2 times MDD/ADD
Fire Flow Demands		
Hydrant	MDD + 750 gpm	Town Standard
System Pressures		
MDD + FF	20 psi minimum distribution system pressures (initial fire sprinkler pressure period not evaluated)	FDEP 62-555
PHD with no fire flow demands	30 psi minimum distribution system pressures	CPH Rule of Thumb
System Piping Velocities		
Maximum velocity for all piping	9.0 fps	CPH Rule of Thumb
Maximum velocity for all transmission mains	4.5 to 5 fps	CPH Rule of Thumb
Maximum velocity for all transmission mains with lengths of 3,000 feet or longer	3.5 fps	CPH Rule of Thumb

8.0 Potable Water Distribution System Evaluation

The purpose of this potable water distribution system evaluation is to update the distribution hydraulic model that Eatonville currently uses to determine the effects of operating scenarios at existing conditions; as well as, anticipated future growth. Deficiencies found as a result of the modeling analysis were noted and recommendations were suggested to provide possible solutions to the deficiencies.

The existing distribution system hydraulic model was developed using current demand conditions. By modeling the existing system for various scenarios, reactions to proposed conditions can be evaluated. The hydraulic model is currently not calibrated. Calibration of the model can be used to further optimize hydraulic model output. With assistance from Eatonville, improvements needed through the planning period were identified and prioritized for the development of 5-year CIP projects.

If needed, the distribution hydraulic model can be used by Eatonville to evaluate the effects of future developments on the distribution system and to identify improvements that may be necessary to improve the system. This section of the Master Plan report will:

- Describe the hydraulic model developed to analyze Eatonville’s existing water transmission and distribution system.
- Summarize the system analyses performed on the transmission and distribution system.
- Discuss the results and areas of concern for the transmission and distribution system.
- Present recommendations for improving the existing system’s response to demand conditions.

8.1 Hydraulic Model Development

This section details the hydraulic analysis of Eatonville’s PWS using computer modeling software, WaterCAD. WaterCAD is a computer software used by utilities and engineering firms to make informed decisions on infrastructure conditions and capabilities. The model is input-based, and with the proper data collection and assumptions, can be used to plan, design, and operate water distribution networks.

For this evaluation, the modeling software was used to evaluate possible pressure and fire flow issues within the system. Once the model is constructed, the model will be a useful resource for design improvements, such as sizing and location of pipe, pumps, and tanks in order to meet future development demands, fire flow demands, and pressure requirements.

CPH created the distribution system base beginning with Eatonville’s previous hydraulic model, Geographic Information System (GIS) files and AutoCAD files. Because the files were not current, CPH updated the files by physically adding the individual water systems from construction drawings provided by Eatonville Planning Department and input from Public Works Department.

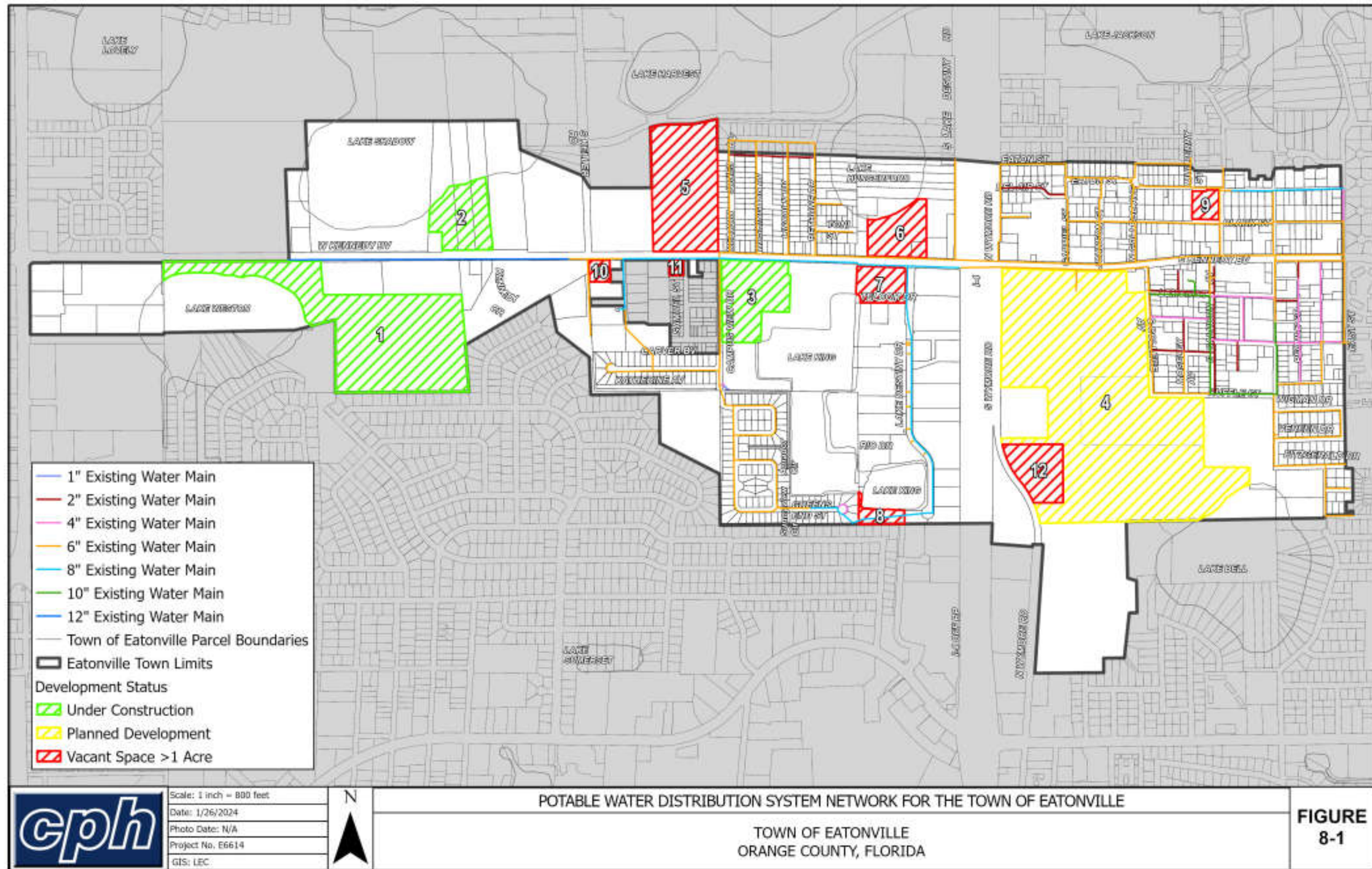
Figure 8-1 presents the potable water network at existing conditions for Eatonville. The potable water system hydraulic evaluation focuses on the existing water transmission and distribution system, including major water transmission mains, high service pumps and smaller diameter local distribution system mains.

The base model consists of a schematic representation of Eatonville’s existing potable water infrastructure. The base model was created to simulate current ADD. Average demands were applied to nodes throughout the system based on the number of surrounding residential connections to create a total system demand approximate to the current ADD. Water was supplied from artificial “reservoirs” simulating the GST at the WTP, and fed to the distribution system by the HSPs and the off-site EST. Pump curves for the WTP HSPs were taken from the manufacturers’ catalog for the particular high service pump models. The completed distribution model was then used to evaluate effects of future developments on the system.

The hydraulic model was prepared as a guide to Eatonville for maintaining the high level of potable water service that Eatonville provides to customers. Several aspects of Eatonville’s potable water supply system were addressed. Using existing data and growth projections, potable water system hydraulic models were developed for the following four (4) scenarios.

1. Existing System – Base Model
2. Existing System with Off-Site EST Off-Line
3. Planned Development
4. Planned Development with Off-Site EST Off-Line

FIGURE 8-1: Potable Water Distribution System Network for the Town of Eatonville



Each scenario was modeled at four (4) operating demand conditions to identify system deficiencies and suggest potential solutions:

1. ADD
2. MDD
3. PHD
4. MDD + FF

Table 8-1 presents the scenario and operating demand conditions modelled in gallons per minute (gpm).

TABLE 8-1: Existing and Projected Demands

PARAMETER		Operating Demand Condition			
No.	Scenario	ADD (gpm)	MDD (gpm)	PHD (gpm)	MDD + FF (gpm)
1	Existing System	187	392	785	392
2	Existing System with EST Off-Line	187	392	785	392
3	Planned Development	289	497	894	497
4	Planned Development with EST Off-Line	289	497	894	497

8.2 Hydraulic Model Input

The initial step to develop the hydraulic model of Eatonville’s PWS involved updating the distribution system network and verifying the reactions of the model compared to the flows and pressures produced by the Eatonville WTP. Nodes (pipe end-points) were generally located at changes in water main size, intersections of water mains, significant changes in elevations, and at minimal separation distances to allow the assignment of water demands from relatively small individual sub-service areas.

WaterCAD inputs consist of the network of pipes, nodes, and pumps. Demands, junction elevations, pump curves, and pipe diameters must be reflected and calibrated in the model. The following default modeling parameters of a typical distribution system were applied to the hydraulic model:

- Pipe Friction Method: Hazen Williams
- Kinematic Viscosity: 1.08E-005
- Flow Units: GPM
- Specific Gravity: 0.998
- Maximum Number of Trials: 40
- Relative Accuracy: 0.001

The Hazen-Williams C-factor used throughout the model was 105 for all variations of piping. The conservative C-factor was selected to account for minor losses through fittings that the model did not evaluate.

8.2.1 Model Demands

Eatonville water production facilities: such as well pumps, discharge piping and valves and high service pumps are represented and incorporated into the existing system model. The model was developed as a steady-state (SS) model, incorporating Eatonville’s pump curves, operational controls systems and target system pressure.

Once the model network is reflective of existing WTP conditions, the next step would be calibrating the model to Eatonville’s existing system pressures and respective water demands. To do so, fire hydrant

flow data would be reviewed, and the model adjusted to check and simulate node pressures to fire flow conditions. Following calibration, various modeling scenarios can be run.

The hydraulic model of the Eatonville water distribution system contains approximately 68,000 lineal feet of pipe ranging in size from 2-inch to 12-inch in diameter. The distribution system is supplied from the Eatonville WTP and off-site EST. Most of the demands were already present in Eatonville's model, so only spot checks were performed to verify that the distribution of demands was generally representative of the area based on parcel maps.

Critical design criteria for the evaluation and modeling of the transmission and distribution system included the following general topics:

- a. Minimum and maximum system pressures.
- b. Locations of existing dead-end mains and potential alternatives for dead-end elimination, reduction in number, and/or significance.
- c. Identification of mains with excessive head loss due to line velocities.
- d. Identification of line sizes less than four inches.
- e. Hydraulic modeling evaluation criteria for fire flow scenarios. Separate zones could be created for areas that are either predominantly residential or commercial.
- f. Identification of segments of transmission and distribution mains susceptible to major service outage if a line break were to occur along their lengths, including potential alternatives to significantly reduce the impacted areas or alternatives to provide redundant mains.
- g. Evaluation methodology or consideration of system water age as a system water quality indicator which can include locations commonly flushed to maintain system chlorine residuals.

8.2.2 Average Day Demand Model Input

A base model was created to simulate the systems based on ADD. The model's ADD was based on historical data from monthly operational reports (MORs). The predominant reason for ADD condition is to check that the modeling results are representative of actual system operations.

The ADD scenario is typically used to calibrate the model. The HSPs were input into the model based on constant speed operation with one or two VFD HSPs running. ADDs were modeled for 2022 and 2043 scenarios. Pipes less than 4-inches in diameter do not meet fire flow conditions.

8.2.3 Maximum Day Demand Model Input

By locating a fire flow demand at key locations, the size of particular pipe, or pipes that feed that node can be determined for adequacy. The MDD + FF alternative was run for all nodes fed by 4-inch pipes or greater in the distribution system.

8.3 Hydraulic System Analysis Criteria

This section describes the criteria used to evaluate the Potable Water Distribution System. The analysis criteria were used in the planning and sizing of the Distribution System and ancillary equipment, such as booster pumps for the investigated potential pressure issues. **Table 8-2, 8-3, and 8-4** present the pipe criteria, fire flow criteria, and water supply criteria, respectively.

Table 8-5 presents hydraulic design standards recommended in Ten-States Standards. The recommended design standards were used for modeling input and pipe sizing for recommended improvements.

TABLE 8-2: Pipe Criteria

Criteria Description	Value/Explanation	Reference
Minimum Pipe Size	Sufficient to carry MDD +FF or PHD	---
Minimum Pressure	Required with FF: 20 psi	<i>FDEP Rule 62-555</i>
Maximum Velocity	5 feet/second	<i>CPH Rule of Thumb</i>

TABLE 8-3: Fire Flow Criteria

Land Use	Required Fire Flow	Reference
Residential/Multifamily/Commercial	750 gpm	<i>Town Standard</i>

TABLE 8-4: Water Supply Criteria

Criteria Description	Value/Explanation	Reference
Supply Capacity	Meet MDD at all times	<i>FDEP Rule 62-555</i>
	Meet PHD for at least 4 consecutive hours	
	Meet MDD + FF	
Reliability	Capable of meeting Average, preferably Max Day Demand with largest pumping unit off-line	<i>FDEP Rule 62-555</i>

TABLE 8-5: Hydraulic Standards for the Water Distribution System

Description	Standard
Maximum Pipe Velocity	5.0 feet/second
Minimum Pressure	20 psi
Hazen-Williams Friction Coefficient (C)	100/110

8.4 Hydraulic Evaluation of Model Results

This section describes the hydraulic evaluation of Eatonville’s Water Distribution System, based on the modeling results and compared against the minimum standards. The existing piping evaluation involves the analysis of pressures and velocities under ADD, MDD, PHD and MDD+FF conditions. **Appendix E** presents hydraulic model results for the selected scenarios evaluated.

8.4.1 Pressures

Table 8-6 presents the pressure ranges for the selected scenarios at existing and future demand conditions. For existing and future conditions, ADD was run with one (1) pump on; both PHD and MDD were run with two (2) pumps on; and MDD+FF was run with three (3) pumps on. The model indicates that the minimum pressure criteria is met.

TABLE 8-6: Hydraulic Model Pressure Ranges for Existing and Future Conditions

PARAMETER		Operating Demand Condition			
No.	Scenario	ADD (psi)	MDD (psi)	PHD (psi)	MDD + FF (psi)
1	Existing System	60-69	59-69	57-68	85-94
2	Existing System with EST Off-Line	60-69	59-69	57-68	85-94
3	Planned Development	59-69	58-69	55-68	81-92
4	Planned Development with EST Off-Line	59-69	58-69	55-68	81-92

8.4.2 Velocities

Table 8-7 presents the velocity ranges for the selected scenarios at existing and future demand conditions. The model shows that the velocities are less than 5 feet per second (fps) during all flow conditions.

TABLE 8-7: Hydraulic Model Velocity for Existing and Future Conditions

PARAMETER		Operating Demand Condition			
No.	Scenario	ADD (ft/s)	MDD (ft/s)	PHD (ft/s)	MDD + FF (ft/s)
1	Existing System	0-0.8	0-1.6	0-3.2	0-1.6
2	Existing System with EST Off-Line	0-0.8	0-1.6	0-3.2	0-1.6
3	Planned Development	0-1.18	0-2.03	0-3.65	0-2.03
4	Planned Development with EST Off-Line	0-1.18	0-2.03	0-3.65	0-2.03

8.4.3 Model Summary Deficiencies

Table 8-8 presents the hydraulic model deficiencies for the demand scenarios at existing and future conditions. Year 2023 MDD + FF had indications of issues at six (6) junctions. These issues are due to the hydrants and junctions being on 2-inch lines. Running the model in future flow with the proposed improvements showed the deficiencies at the same 2-inch lines.

TABLE 8-8: Hydraulic Model Deficiencies for Existing and Future Conditions

PARAMETER	Operating Demand Condition			
	Scenario	ADD	MDD	PHD
Existing System	Four (4) pipes where the velocity = 0	Four (4) pipes where the velocity = 0	Two (2) pipes where the velocity = 0	Six (6) failed constraints on 2" lines
Existing System with EST Off-Line	Three (3) pipes where the velocity = 0	Three (3) pipes where the velocity = 0	One (1) pipes where the velocity = 0	Six (6) failed constraints on 2" pipes
Planned Development	Two (2) pipes where the velocity = 0	Five (5) pipes where the velocity = 0	Three (3) pipes where the velocity = 0	Six (6) failed constraints on 2" pipes
Planned Development with EST Off-Line	One (1) pipe where the velocity = 0	Four (4) pipes where the velocity = 0	Two (2) pipes where the velocity = 0	Six (6) failed constraints on 2" pipes

8.5 Recommendations

There are four (4) project recommendations to alleviate indications of pressure, flow rate, and fire flow reliability. Improvements have been prioritized as follows:

1. Relocate potable water main along Kennedy Blvd. to accommodate plans by Orange County to widen Kennedy Blvd.
 - a. Design/Permit/Relocation of 12-inch PVC pipe from Lake Weston to S. Keller.
 - b. Design/Permit/Relocation/Upsize and Abandonment of A/C pipe from S. Keller to WTP to at least 12-inch.
2. Upsize WTP 10-inch discharge water main pipe to at least 16-inch PVC from WTP to Kennedy Blvd.
3. Upsize selected water mains to at least 8-inch PVC to meet fireflow reliability.
4. Establish water distribution R/R program to replace water mains less than 6-inches and substandard materials (Asbestos Cement/Galvanized/Unlined Cast Iron).

9.0 Capital Improvements Program Recommendations & Costs

This section of the Master Plan report will summarize the estimated capital costs for the recommended improvements to the PWS. The estimated costs should be considered a budgetary planning guide. As Eatonville considers moving forward with a project, the costs should be updated to reflect changes that may have occurred and to account for inflationary effects.

The construction costs presented in this section include cost allocations for the contractor's general conditions, overhead & profit (OH&P) engineering and Class 4 contingency as follows:

- General conditions include the contractor's costs for mobilization and demobilization, bonds and insurance, salaries for the project manager and project superintendent and temporary facilities. General conditions were estimated at 10% of the construction value before OH&P.
- Contractor's OH&P was estimated at 15% of the construction value plus a contingency of 15% for a total OH&P of 30%.
- Engineering (Design, Permitting, Bidding and Construction Administration Services) were estimated at 15% for the Master Plan level.
- Class 4 Cost Estimate Contingency +/- 40%
- All costs presented are referenced to 2022 dollars.

9.1 Potable Water System Recommendations

The following are recommendations for Eatonville's PWS water supply, treatment, storage, pumping and distribution in order of priority:

Phase I (Figure 9-1)

1. Relocate potable water main along Kennedy Blvd. to accommodate plans by Orange County to widen Kennedy Blvd.
 - a. Design/Permit/Relocation of PVC pipe from Lake Weston to S. Keller.

- b. Design/Permit/Relocation and Abandonment of A/C pipe from S. Keller to WTP.
- 2. Upsize WTP discharge water main pipe to at least 16-inch PVC from WTP to Kennedy Blvd.

Phase 2 (Figure 9-2)

- 3. Modify CUP to meet future potable water demands.
 - a. Modify CUP limit to 0.420-mgd AADD relative to the CFWI 2025 UFA limitations.
 - b. Permit LFA well to meet future demands. Includes Extended Period Simulation (EPS) hydrogeologic modeling impact evaluation.
- 4. Explore options to increase well field pumping capacity from 1,000 gpm to 2,300 gpm.
 - a. Conduct well pump yield step drawdown test.
 - b. Upsize well pump and motors.
- 5. Design/Permit/Construct New WTP to replace Existing WTP
 - a. Construct new 500,000-gallon GST to meet fire storage requirements. Include demonstration of 4-log virus inactivation CT disinfection calculations to increase consumer confidence.
 - b. Construct new WTP operations building to include new HSPs, chemical feed systems and diesel generator.

Phase 3 (Figure 9-3)

- 6. Upsize selected water mains to at least 8-inch PVC to meet fireflow reliability.
- 7. Permit/Design/Construct/Test LFA well to serve as AWS to meet demands beyond 2025.
- 8. Coordinate with City of Maitland to establish emergency interconnections.
 - a. Option 1 – Interconnect at S. Keller & Kennedy
 - b. Option 2 – Intersection of S. Lake Destiny Rd. & Kennedy Blvd

Phase 4 (Figure 9-4)

- 9. Establish water distribution (R/R) program to replace water mains less than 6-inches and substandard materials (Asbestos Cement/Galvanized/Unlined Cast Iron), and inoperable isolation valves.

FIGURE 9-2: Phase 2 Potable Water CIP Improvements

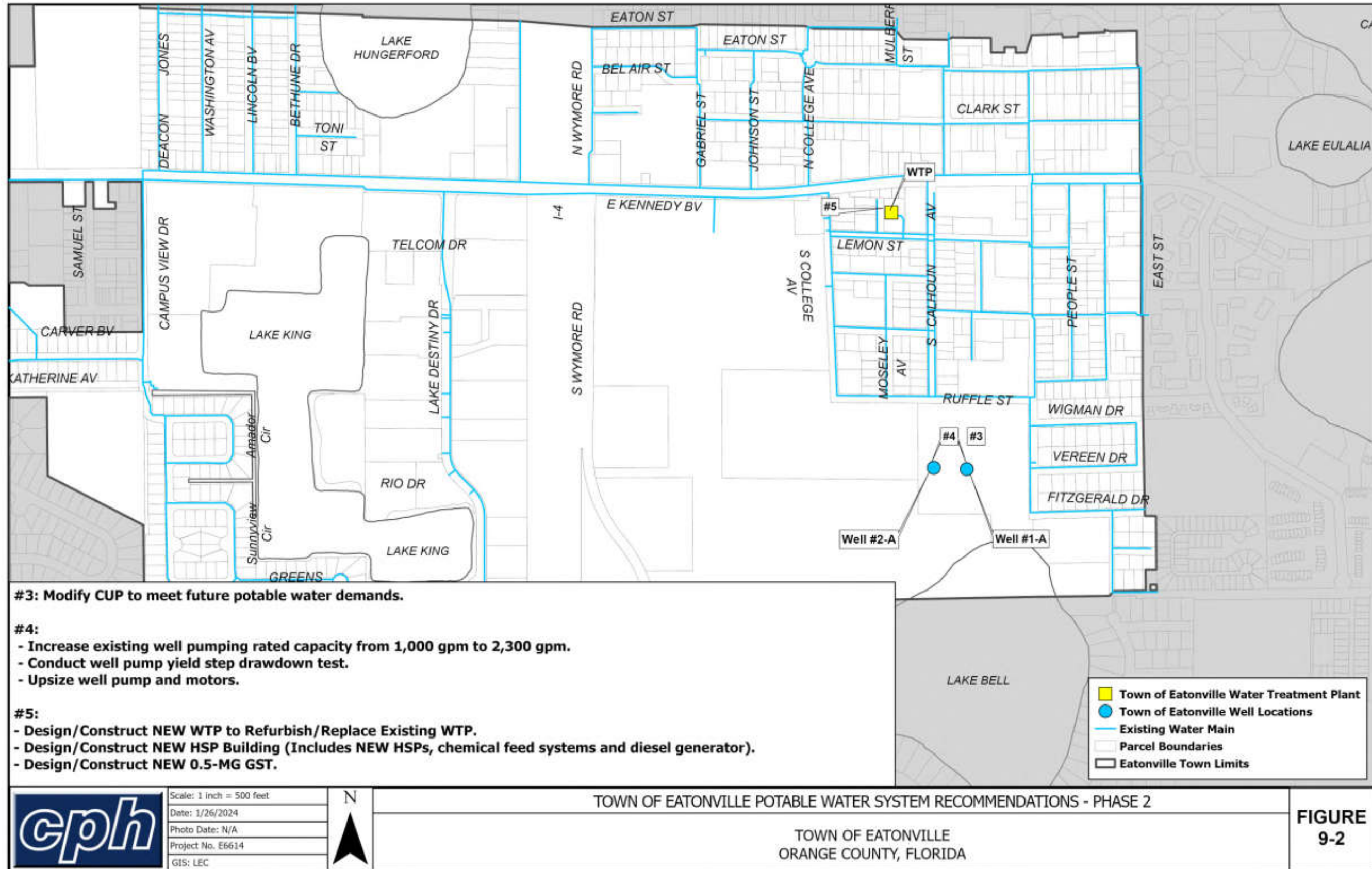


FIGURE 9-3: Phase 3 Potable Water CIP Improvements

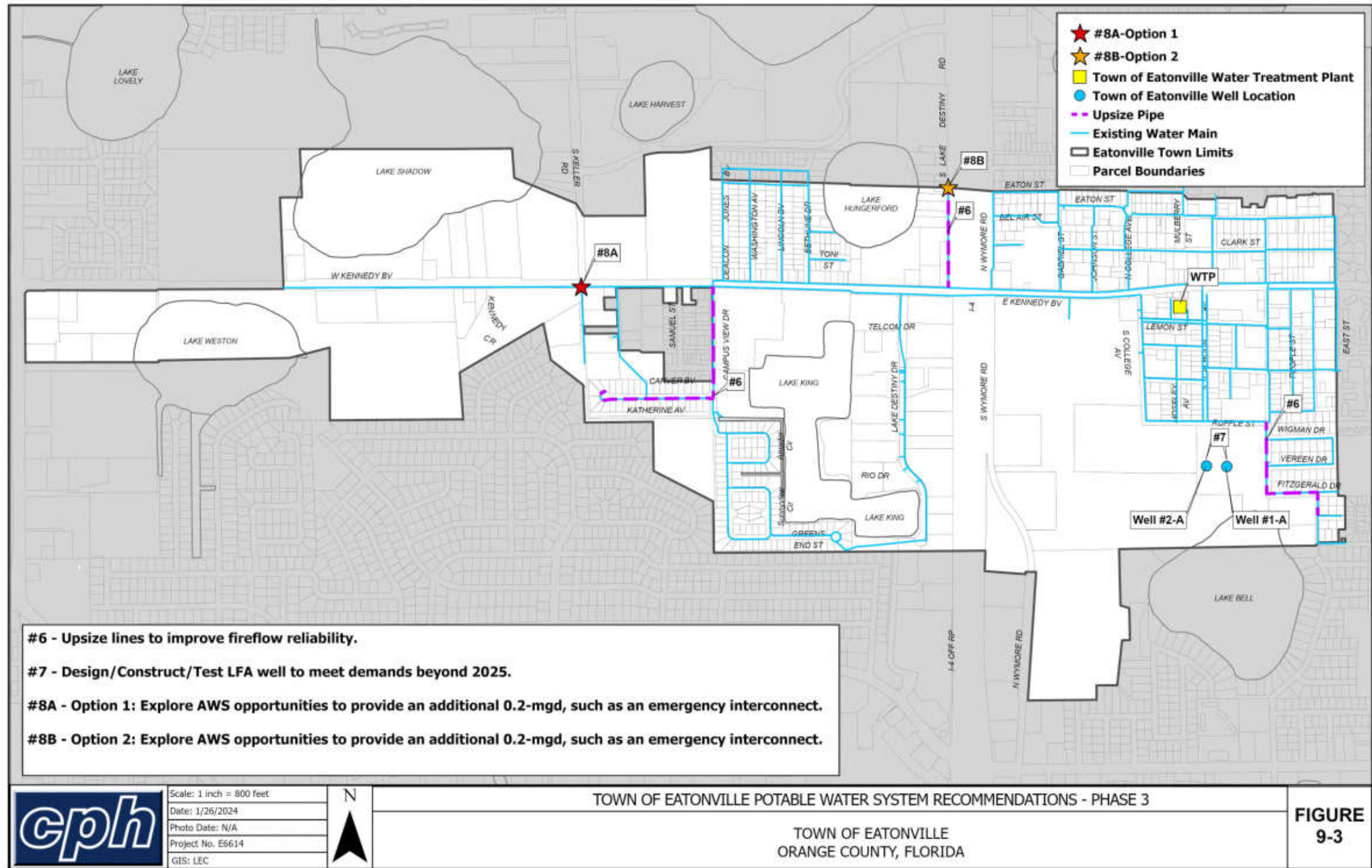
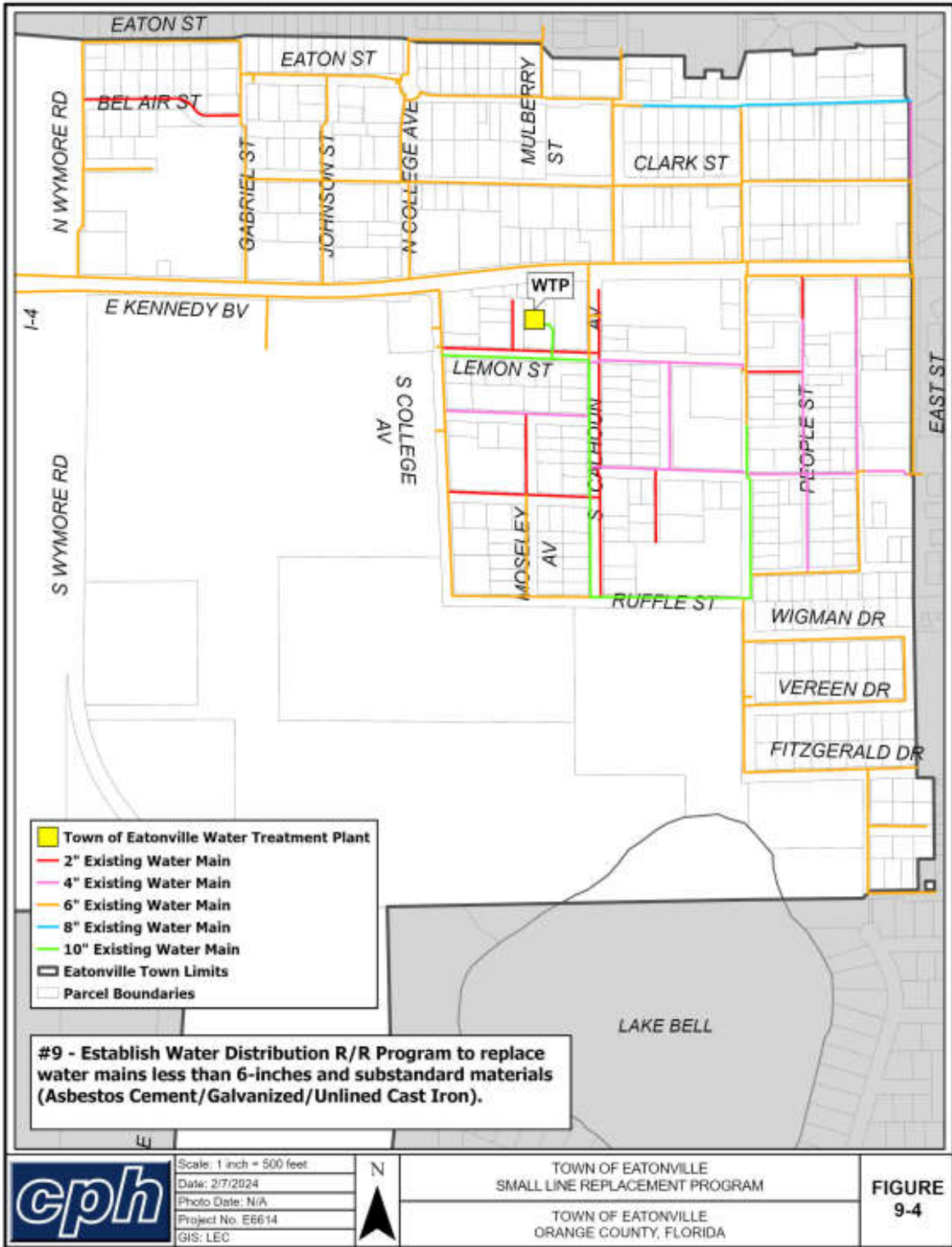


FIGURE 9-4: Phase 4 Potable Water CIP Improvements



9.2 Suggested CIP Program

The total probable project cost for the recommended facilities to serve Oakland’s potable water system is **\$13.8 million**. The projects would be partially funded by a mixture of grants, impact fees, developer contributions, etc. resulting in an estimated cost per residential connection of approximately **\$8,107 per connection** assuming 1,700 total connections (800 existing + 900 planned). **Table 9-1** presents the total project costs for the suggested 5-year CIP program, as well as a tentative schedule.

Appendix F presents the Eatonville’s Current Capital Improvements Program projects. Note that the summary includes costs for development of alternative water supply (AWS) sources for Eatonville. The future for water supply in Central Florida is difficult to predict. Clearly, the SJRWMD is encouraging the water supplies within the CFWI Service Area to look beyond groundwater for other water sources. Eatonville’s financial planning will need to be updated as future water supplies become more defined.

TABLE 9-1: Suggested 5-year CIP

CIP #	PARAMETER Description	Priority	Length	Upgrade/Size	LOS Impact	Funded (Yes/No)	Funding Source	Project Costs							
									FY2023/24	FY2024/25	FY2025/26	FY2026/27	FY2027/28	FY2028 to 2033	
									Requested	Proposed	Proposed	Proposed	Proposed	Proposed	
POTABLE WATER (PW)															
PW-1A	Design/Permit/Relocation of PVC pipe from Lake Weston to S. Keller.	1													
PW-1B	Design/Permit/Relocation and Abandonment of A/C pipe from S. Keller to WTP.	1	5,850		Improve System Reliability	No	Repair/Replacement	\$ 2,018,000			\$ 263,000	\$ 1,755,000			
PW-2	Upsize WTP discharge water main pipe to at least 16-inch PVC from WTP to Kennedy Blvd.	1	710		Improve System Reliability	No	Impact fees	\$ 213,000		\$ 213,000					
PW-3	Modify CUP to meet future potable water demands.	2			Increase Capacity	No	DEO Grant	\$ 75,000	\$ 75,000						
PW-4A	Conduct well pump yield step drawdown test.	2			Increase Capacity	No	DEO Grant	\$ 50,000		\$ 50,000					
PW-4B	Upsize well pump and motors.	2			Increase Capacity	No	Impact fees	\$ 150,000			\$ 150,000				
PW-5A	Construct new 500,000-gallon GST to meet fire storage requirements. Include demonstration of 4-log virus inactivation CT disinfection calculations to increase consumer confidence.	2		0.5	Increase Capacity	No	Impact fees	\$ 1,150,000			\$ 150,000	\$ 1,000,000			
PW-5B	Construct new WTP operations building to include new HSPs, chemical feed systems and diesel generator.	2			Improve System Reliability	No	DEO Grant	\$ 4,650,000	\$ 25,000	\$ 25,000		\$ 600,000	\$ 4,000,000		
PW-6	Upsize selected water mains to at least 8-inch PVC to meet fireflow reliability.	3			Improve System Reliability	No	Repair/Replacement	\$ 35,000	\$ 35,000						
PW-7	Design/Permit/Construct/Test LFA well to serve as AWS to meet demands beyond 2025.	3	1000	1500	Increase Capacity	No	Impact Fees	\$ 2,000,000							\$ 2,000,000
PW-8	Coordinate with City of Maitland to establish emergency interconnections.	3													
PW-9	Establish water distribution R/R program to replace water mains less than 6-inch and substandard materials (Asbestos Cement/Galvanized/Unlined Cast Iron).	4													
SUBTOTAL - Potable Water								\$ 10,341,000	\$ 135,000	\$ 288,000	\$ 563,000	\$ 3,355,000	\$ 4,000,000	\$ 2,000,000	

Priority

- 0 In Progress 0 -1 yrs.
- 1 Immediate 1 - 3 yrs.
- 2 Near-Term 3 - 5 yrs.
- 3 Long-Term Beyond 5 yrs.

9.3 Other Costs

Other costs Eatonville should factor into financial planning include land, legal, survey, geotechnical and costs associated with financing, lobbying and other non-engineering professional fees.

9.4 Cost Updates

The probable construction costs included in the Master Plan are expressed in 2022 dollars. The Engineering News Record Construction Cost Index (CCI) may be used for updating costs in the future. The 2022 CCI = 13175.00 (based on 1913).

9.5 Discussion of Financing Alternatives

The following sections discuss funding alternatives and other available options for capital projects.

9.5.1 Current Revenues

This funding alternative uses revenues from the customer usage rates for the water demand. Current revenues include the monthly base charge plus a charge per 1000 gallons based on water use. The revenues are used for operation and maintenance costs, capital projects and renewal and replacement of equipment.

9.5.2 Water Impact Fees/Funds

Capital Improvement Funds can also be available from a Water System Impact Fee Fund. Impact fees are collected from new construction within the system to cover the cost of expansion of the water system improvement required for growth. **Currently, Eatonville does not have utility impact fees.**

9.5.3 Revenue Bonds

A revenue bond is a type of municipal bond whose guarantee of repayment is solely from revenues generated by a specified revenue-generating entity associated with the purpose of the bonds, rather than from a tax. Revenue bonds are unlike general obligation bonds because only the revenues specified in the legal contract between the bond holder and bond issuer are required to be used for repayment of the principal and interest of the revenue bonds.

9.5.4 Grants

Grants for municipal capital improvement projects are available from agencies such as the following:

- U.S. Department of Agriculture (USDA),
- Community Redevelopment Agency (CRA Block Grants),
- Florida Department of Environmental Protection (FDEP) State Revolving Fund (SRF) and
- Local Water Management District (WMD).

9.5.5 Developer Contributions

Developer contributions are generally obtained from the developer of a project where a utility extension is required. Developer contributions may also be used if an upgrade or upsizing of an existing utility is required to adequately serve that project. Often the developer contribution is used to, at least partially, offset the required impact fee.

9.5.6 Renewal and Replacement Funds

Renewal and Replacement (R&R) Funds are used to replace worn or failing equipment or to improve efficiency of systems. R&R Funds are also used to rehabilitate/recondition equipment or structures. R&R Funds are used to make sure facilities are being well maintained and are in good working condition.

9.5.7 FDEP State Revolving Funds (SRF)

A loan from the FDEP SRF is a viable option for funding future major projects at a low interest rate. SRF funding is also available for wastewater and reclaimed water projects. **Currently, the FDEP Drinking Water SRF loan rate is 1.42% (Jan 2024).**

9.5.8 Future Projects (undetermined funding)

There are projects that are beyond the normal planning window in terms of funding. Projects that are over 10 years in the future are not funded nor are there plans for funding. The future projects are growth related projects and would probably be funded by Impact Fees or by the developer of the project. As

9.0 Capital Improvements Program Recommendations & Costs

growth occurs, the future projects become more focused. At that time, the Town would place the project in a 5-year CIP program for funding with a clear picture as when the project needs to be constructed.

APPENDIX A: SJRWMD CUP No. 3307-4

CONSUMPTIVE USE TECHNICAL STAFF REPORT
18-Dec-2012
APPLICATION #: 20-095-3407-4

Owner: Town of Eatonville
307 E Kennedy Blvd
Eatonville FL 32751 USA
(407) 623-1313

Applicant: Town of Eatonville
Bruce Mount
307 E Kennedy Blvd
Maitland FL 32751 USA
(407) 623-8906

Agent: Town of Eatonville
Bruce Mount
307 E Kennedy Blvd
Maitland FL 32751 USA
(407) 623-1313

Compliance Contact: Damaris Persaud
307 E Kennedy Blvd
Maitland FL 32751 USA
(407) 623-8904

Project Name: Town of Eatonville (Renewal)
County: Orange

Located in CFCA: Yes
Objectors: No

Authorization Statement:

The District authorizes, as limited by the attached permit conditions, the use of 146.0 million gallons per year of ground water from the Floridan aquifer via two existing Upper Floridan Aquifer wells to supply a population of 2,827 in 2032 with water for household, commercial/industrial, essential, water utility and unaccounted type uses.

Recommendation: Approval
Reviewers: Dwight Jenkins; Allyson Grosmaire

WATER USE SUMMARY:

Staff's Recommendation: Approval

Recommended Permit Duration and Compliance Reporting: 20-year duration permit with a 10-year compliance report required pursuant to section 373.236(4), Florida Statutes. The permittee is required to comply with, and submit all information and data required by, the limiting conditions set forth in the permit.

USE STATUS: This is a new use since the applicant did not timely apply for a renewal of the existing permit. The applicant is requesting a significant decrease in allocation over what was previously permitted (0.400 mgd versus 0.647 mgd).

PROJECT DESCRIPTION:

Project Location:

The Town of Eatonville is located approximately 5 miles north of downtown Orlando, in Orange County. The Town is bisected by I-4. The service area is bordered on the north and east by the City of Maitland, on the south by the City of Winter Park and on the west by unincorporated Orange County.

Background:

The Town of Eatonville provides potable water for an area of Central Orange County encompassing approximately 640 acres. The utility's service area is primarily made up of light commercial and residential customers. The town's previous Consumptive Use Permit (CUP) was issued in May 2007 with an expiration date of May 8, 2012. This application was received on November 6, 2012. This is nearly 7 months past the previously permit's expiration date and, therefore, this application must be considered as a new use.

Water Supply System Description:

The Town's water supply system consists of a supply treatment plant and two 12-inch Floridan aquifer wells (Wells 3 and 4). The Town also owns two inactive wells (wells 1 & 2). The inactive wells have been capped and are not anticipated to be used in the future.

Water Use Description:

The Town of Eatonville provides potable water for a service area of approximately 640 acres. The utility's service area is primarily made up of light commercial and residential customers. The applicant utilized the District's water supply planning numbers in calculating the requested allocation. The Town's current per capita use is 141 gallons per capita per day and the per capita is not anticipated to change in the future. The applicant is requesting an allocation which is only 62% of what was previously permitted (0.400 mgd versus 0.647 mgd).

PERMIT APPLICATION REVIEW:

Section 373.223, Florida Statutes (F.S.), and Section 40C-2.301, Florida Administrative Code (F.A.C.), require an applicant to establish that the proposed use of water:

- (a) is a reasonable-beneficial use;
- (b) will not interfere with any presently existing legal use of water; and,
- (c) is consistent with the public interest.

In addition, the above requirements are detailed further in the District's Applicant's Handbook: Consumptive Uses of Water, February 2, 2012("A.H.") District staff has reviewed the consumptive use permit application pursuant to the above-described requirements and have determined that the application meets the conditions for issuance of this permit. Highlights of the staff review are provided below.

REASONABLE BENEFICIAL USE CRITERIA:

Economic and Efficient Utilization:

Although there is room for growth, the Town does not anticipate it will see significant growth over the next 20 years. Since the Town used the District's projections from the Water Supply Plan and since the per capita use, both current and projected, are within the District guideline of 150 gpcd, staff concludes that reasonable assurances have been provided that the proposed use of water is in such quantity as is necessary for economic and efficient utilization pursuant to section 10.3 (a), A.H., provided the permittee complies with the conditions recommended for this permit.

Lowest Quality Water Source:

There is no source of reclaimed water available to the Town of Eatonville. The town does not own or operate a wastewater treatment plant nor does it anticipate building such a plant over the duration of this permit. All untreated wastewater generated by the town is sent to the City of Altamonte Springs for treatment and incorporation into

Altamonte Springs reclaimed water program. Most of Altamonte Springs reuse is already committed to reasonable beneficial uses in that service area and there is no infrastructure to return treated reuse to the town. Staff concluded that reasonable assurances have been provided that all lowest quality sources (wastewater as reclaimed water) are being put toward beneficial use pursuant to sections 10.3(f), A.H.

Water Conservation:

Staff evaluated the water conservation measures implemented by the applicant. The applicant has a conservation rate structure and has proposed the implementation of all the listed water conservation measures in the District Water Conservation Plan Form. Staff concluded that reasonable assurances have been provided that all available water conservation measures are currently implemented or will be implemented by the applicant pursuant to sections 10.3(e) and 12.2.5, A.H.

Environmental or Economic Harm:

Staff evaluated whether the environmental or economic harm caused by the proposed consumptive use has been reduced to an acceptable amount. Staff evaluated whether the proposed withdrawals of water would harm wetlands, surface waters, and springs. During the review of this permit application, District staff utilized the results of groundwater flow modeling and reviewed aerial photography of the site and environs. Although there are no significant wetlands or surface waters within the service area, staff determined that the wetlands and surface waters in the vicinity of the service area would not be expected to experience any shifts or changes in vegetation, soil subsidence, or tree stress or mortality due to the indiscernible drawdown in surficial groundwater levels predicted by the previously discussed model simulations for the proposed use. In addition, the requested allocation is 62% less than that previously permitted and there has been no indications of impacts associated with the existing use. Based on the above, Staff concludes that the applicant has provided reasonable assurance that the proposed withdrawal will not cause unacceptable environmental harm to water levels in wetlands or surface waters for the duration of this permit pursuant to Sections 9.4.3, A.H. and 10.3(d), A.H.

Interference with Existing Legal Uses of Water:

Staff evaluated whether the proposed use will cause an interference with a legal use of water. The closest existing permitted wells to the Town of Eatonville well field are a City of Maitland well field located approximately 2300 ft north, and a City of Winter Park well field located approximately 4200 ft south. The District used an analytical model to

evaluate the expected groundwater conditions. The model results indicated no appreciable surficial drawdown and approximately 0.7 feet of drawdown in a small area surrounding the wells within the well field. Staff concluded that these analyses provide reasonable assurance that the proposed use of water will not cause an interference with an existing legal use of water

Public Interest:

Staff evaluated whether the proposed use is consistent with the public interest. The F.A.C. 40C-2.501 (2)(d)(h)(k)(s)(u), identifies household, landscape irrigation, essential and water utility uses as legitimate type use classifications.

These type uses are so deemed consistent within the public interest, as they are beneficial to the overall well being of the people and are not detrimental to the water resources in the area.

PERMIT DURATION: 20 years.

Conditions

1. Prior to use, all proposed wells must be equipped with totalizing flow meters. All flowmeters must maintain +/- 5% accuracy, be verifiable and be installed according to the manufacturer's specifications.
2. The permittee must maintain all flowmeters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.
3. The permittee must have all flow meters checked for accuracy at least once every 10 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration.
4. The permittee shall meter all service connections.
5. The permittee shall use the lowest quality water source, such as reclaimed water, surface/storm water, or alternative water supply, to supply the needs of the project when deemed feasible pursuant to District rules and applicable state law.
6. The permittee shall submit, to the District, a compliance report pursuant to subsection 373.236(4), F.S., every 10 years during the term of the permit. The permittee shall submit the report by December 31, 2022. The report shall contain

sufficient information to demonstrate that the permittee's use of water will continue, for the remaining duration of the permit, to meet the conditions for permit issuance set forth in the District rules that existed at the time the permit was issued for 20 years by the District.

7. All irrigation shall be in conformity with the requirements set forth in subsection 40C-2.042(2), F.A.C.
8. District authorized staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications and conditions of this permit.
9. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Section 373.175, F.S., or to formulate a plan for implementation during periods of water shortage, pursuant to Section 373.246, F.S. In the event a water shortage is declared by the District Governing Board, the permittee must adhere to the water shortage restrictions, as specified by the District, even though the specified water shortage restrictions may be inconsistent with the terms and conditions of this permit.
10. Prior to the construction, modification or abandonment of a well, the permittee must obtain a water well permit from the St. Johns River Water Management District or the appropriate local government pursuant to Chapter 40C-3, F.A.C. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification, or abandonment is other than that specified and described on the consumptive use permit application form.
11. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.
12. The permittee's consumptive use of water as authorized by this permit shall not interfere with legal uses of water existing at the time of permit application. If interference occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the interference, unless the interference associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
13. The permittee's consumptive use of water as authorized by this permit shall not have significant adverse hydrologic impacts to off-site land uses existing at the time of permit application. If significant adverse hydrologic impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.

14. The District must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a well or facility from which the permitted consumptive use is made or within 30 days of any transfer of ownership or control of the real property at which the permitted consumptive use is located. All transfers of ownership or transfers of permits are subject to the provisions of Rule 40C-1.612, F.A.C.
15. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve, or other withdrawal facility as provided by Rule 40C-2.401, F.A.C. Permittee shall notify the District in the event that a replacement tag is needed.
16. The permittee's consumptive use of water as authorized by this permit shall not significantly and adversely impact wetlands, lakes, rivers, or springs. If significant adverse impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
17. The permittee's consumptive use of water as authorized by this permit shall not reduce a flow or level below any minimum flow or level adopted in Chapter 40C-8, F.A.C. If the permittee's use of water causes or contributes to such a reduction, then the District shall revoke the permit, in whole or in part, unless the permittee implements all provisions applicable to the permittee's use in a District-approved recovery or prevention strategy.
18. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to significant saline water intrusion. If significant saline water intrusion occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the saline water intrusion, unless the saline water intrusion associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
19. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to flood damage. If the permittee's consumptive use causes or contributes to flood damage, the District shall revoke the permit, in whole or in part, to curtail or abate the flood damage, unless the flood damage associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
20. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to a violation of state water quality standards (existing at the time of permit issuance) in receiving waters of the state, as set forth in Chapters 62-3, 62-4, 62-302, 62-520, and 62-550, F.A.C., including any anti-degradation provisions of paragraphs 62-4.242(1)(a) and (b), subsections 62-4.242(2) and (3), and Rule 62-302.300, F.A.C., and any special standards for Outstanding

National Resource Waters set forth in subsections 62-4.242(2) and (3), F.A.C. If violations occur, the District shall revoke the permit, in whole or in part, to curtail or abate the violations, unless the violations associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.

21. All submittals made to demonstrate compliance with this permit must include CUP number 20-095-3407-4 plainly labeled on the submittal.

22. This permit will expire 20 years from the date of issuance.

23. Total withdrawal from existing well No.'s 3 and 4, (GRS Station No's 38634 and 38635) must be recorded continuously, totaled monthly, and reported to the District at least every six months for the duration of this permit using District Form No. EN-50. The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

24. Maximum annual withdrawals from Well numbers 3 and 4 must not exceed 146.0 million gallons.

APPENDIX B: 2022 Consumer Confidence Report (CCR)

2022 Annual Drinking Water Quality Report

TOWN OF EATONVILLE

PWS# 3480327

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality of water and the services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our ground water is obtained from two wells. The wells draw from the Floridan Aquifer. The water is treated with aeration and is chlorinated for disinfection purposes.

In 2022 the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are no potential sources of contamination identified for this system. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at <https://prodapps.dep.state.fl.us/swapp/>

This report shows our water quality results and what they mean.

If you have any questions about this report or concerning your water utility, please contact **Public Works Department (407) 623-8904**. We encourage our valued customers to be informed about their water utility.

Town of Eatonville routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2022. Data obtained before January 1, 2022 and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

In the table below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

“ND” means not detected and indicates that the substance was not found by laboratory analysis.

“N/A” not applicable

Parts per billion (ppb) or Micrograms per liter (µg/l) – one part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter (mg/l) – one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter (pCi/L) - measure of the radioactivity in water.

Test Results Table

Inorganic Contaminants							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	8/21	N	.0047	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium (ppb)	8/21	N	.00120	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Sodium (ppm)	8/21	N	17.5	N/A	N/A	160	Salt-water intrusion, leaching from soil
Stage 1 Disinfectants and Disinfection By-Products							
Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	1/22- 12/22	N	1.3	0.3-1.4	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes

For chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected. The range of results is the range of results of all the individual samples collected during the past year.

Stage 2 Disinfectants and Disinfection By-Products							
Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Haloacetic Acids (five) (HAA5) (ppb) Gabriel Hydrent & East Tap	2/22	Y	68.5	46.1 - 68.5	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb) Gabriel Hydrent & East Tap	2/22	Y	115 (Highest LRRRA)	58.8 - 115	NA	MCL = 80	By-product of drinking water disinfection
Haloacetic Acids (five) (HAA5) (ppb)	5/22	N	24.6	24.6 - 57.6	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	5/22	N	24.1	24.1 - 98.6	NA	MCL = 80	By-product of drinking water disinfection
Haloacetic Acids (five) (HAA5) (ppb)	8/22	N	19.9	19.9 - 24	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	8/22	N	58.2	43 - 58.2	NA	MCL = 80	By-product of drinking water disinfection
Haloacetic Acids (five) (HAA5) (ppb)	11/22	N	56.5	44.7 - 56.5	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb) Gabriel Hydrent & East Tap	11/22	Y	99.1 (Highest LRRRA)	66.8 - 99.1	NA	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Exceeded Y/N	90th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	10/21	N	0.417	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	10/21	N	1.0	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits

We constantly monitor for various contaminants in the water supply to meet all regulatory requirements. Our water system was in violation of federal and state water quality standards for Disinfection By-Products from July 1, 2021 through June 30, 2022. The levels of Disinfection By-Products are shown in the Test Results table. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Town of Eatonville is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- (E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the number of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply, we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

We at Town of Eatonville would like you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call any of the numbers listed.

Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

PUBLIC WATER SYSTEM INFORMATION (to be completed by sampler – please type or print legibly)

System Name: Town Of Eatonville

PWS I.D. #

System Type (check one): Community Nontransient Noncommunity Transient Noncommunity

Address: 307 Kennedy Blvd.

City/State: Eatonville, FL Zip: 32751

Phone#: 386-623-8904 Fax#: _____ Email Address: _____

SAMPLE INFORMATION (to be completed by sampler)

Sample Number: 28 31 Sample Date: 8/18/21 Sample Time: 1000 AM PM (Circle One)

Sample Location (be specific) _____ Plant Tap _____ Location Code: _____

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): 1.4 mg/L Field pH: _____

Sample Type (Check Only One)

Reason(s) for Sample (Check all that apply)

- Distribution
- Entry Point (to Distribution)
- Plant Tap (not for compliance with 62-550)
- Raw (at well or intake)
- Max Residence Time
- Ave Residence Time
- Near First Customer

- Routine Compliance with 62-550
- Confirmation of MCL Exceedance*
- Composite of Multiple Sites**
- Other: _____
- Replacement (of Invalidated Sample)
- Special (not for compliance with 62-550)
- Clearance (permitting)

Sampling Procedure Used or Other Comments: _____

*See 62-550.500(6) for requirements and restrictions. And 62-550.512(3) for nitrate or nitrite exceedances.

**See 62-550.550(4) for requirements and attach a results page for each site.

SAMPLER CERTIFICATION

I, Zach Barber, Sampler, do HEREBY CERTIFY
(Print Name) (Print Title)

that the above public water system and sample collection information is complete and correct.

Signature: Zach Barber Date: 8/18/21

Certified Operator #: A 3758 Phone #: 386 589 0660 Sampler's Fax #: _____
Carlos A. Tola

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab - please type or print legibly)

Lab Name: Flowers Chemical Laboratories, Inc.

Florida DOH Certification #: E83018

Certification Expiration Date: 6/30/2022

ATTACH CURRENT DOH ANALYTE SHEET*

Phone #: 407-339-5984

Address: P. O. Box 150597, Altamonte Springs, FL 32715-0597

Were any analyses subcontracted? Yes No If yes, please provide DOH certification number(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION (to be completed by lab)

Date Sample(s) Received: 08/18/21

PWS ID (From Page 1): 3480327

Sample Number (From Page 1): 480543DW1

Lab Assigned Report # or Job ID: 480543

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

- | <u>Inorganics</u> | <u>Synthetic Organics</u> | <u>Volatile Organics</u> | <u>Disinfection Byproducts</u> | <u>Radionuclides</u> | <u>Secondaries</u> |
|---|---|--|---|---|--|
| <input checked="" type="checkbox"/> All Except Asbestos | <input type="checkbox"/> All 30 | <input checked="" type="checkbox"/> All 21 | <input type="checkbox"/> Trihalomethanes | <input checked="" type="checkbox"/> Single Sample | <input checked="" type="checkbox"/> All 14 |
| <input type="checkbox"/> Partial | <input checked="" type="checkbox"/> All Except Dioxin | <input type="checkbox"/> Partial | <input type="checkbox"/> Haloacetic Acids | <input type="checkbox"/> Qtrly Composite** | <input type="checkbox"/> Partial |
| <input type="checkbox"/> Nitrate | <input type="checkbox"/> Partial | | <input type="checkbox"/> Chlorite | | |
| <input type="checkbox"/> Nitrite | <input type="checkbox"/> Dioxin Only | | <input type="checkbox"/> Bromate | | |
| <input type="checkbox"/> Asbestos | | | | | |

LAB CERTIFICATION

I, Jefferson S. Flowers, Technical Director, do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature:

Date: 09/02/21

* Failure to provide a valid and current Florida DOH certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report and possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION AND NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE MCL EXCEEDANCES

NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "<" are not acceptable.)

Compliance Determination (to be completed by DEP or DOH - attach notes as necessary)

Sample Collection & Analysis Satisfactory Yes No

REVIEWED

Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____

Date Notified: _____

DEP/DOH Reviewing Official: _____

By Alyssa Lenkel at 1:57 pm, Jun 23, 2022

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

INORGANIC CONTAMINANTS
62-550.310(1)

Report Number / Job ID: 480543DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert #
1038	Nitrate+Nitrite(as N)	10	mg/L	0.200	U	EPA300.0	0.200	08/18/21		E83018
1040	Nitrate (as N)	10	mg/L	0.200	U	EPA300.0	0.200	08/18/21	11:30 AM	E83018
1041	Nitrite (as N)	1	mg/L	0.200	U	EPA300.0	0.200	08/18/21	11:30 AM	E83018
1005	Arsenic	0.010	mg/L	0.00100	U	EPA200.8	0.00100	08/18/21		E83018
1010	Barium	2	mg/L	0.00470		EPA200.8	0.00200	08/18/21		E83018
1015	Cadmium	0.005	mg/L	0.00100	U	EPA200.8	0.00100	08/18/21		E83018
1020	Chromium	0.1	mg/L	0.00120	I	EPA200.8	0.00100	08/18/21		E83018
1024	Cyanide	0.2	mg/L	0.00500	U	SM4500CN-E	0.00500	08/18/21		E83018
1025	Fluoride	4	mg/L	0.249	I	EPA300.0	0.200	08/18/21		E83018
1030	Lead	0.015	mg/L	0.00100	U	EPA200.8	0.00100	08/18/21		E83018
1035	Mercury	0.002	mg/L	0.0000200	U	EPA245.1	0.0000200	08/20/21		E83018
1036	Nickel	0.1	mg/L	0.00100	U	EPA200.8	0.00100	08/18/21		E83018
1045	Selenium	0.05	mg/L	0.00200	U	EPA200.8	0.00200	08/18/21		E83018
1052	Sodium	160	mg/L	17.5		EPA200.7	0.500	08/19/21		E83018
1074	Antimony	0.006	mg/L	0.00100	U	EPA200.8	0.00100	08/18/21		E83018
1075	Beryllium	0.004	mg/L	0.000500	U	EPA200.8	0.000500	08/18/21		E83018
1085	Thallium	0.002	mg/L	0.00100	U	EPA200.8	0.00100	08/18/21		E83018

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

SECONDARY CONTAMINANTS
62-550.320

Report Number / Job ID: 480543DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert #
1002	Aluminum	0.2	mg/L	0.0100	U	EPA200.8	0.0100	08/18/21		E83018
1017	Chloride	250	mg/L	28.7		EPA300.0	0.400	08/18/21		E83018
1022	Copper	1	mg/L	0.00100	U	EPA200.8	0.00100	08/18/21		E83018
1025	Fluoride	2	mg/L	0.249	I	EPA300.0	0.200	08/18/21		E83018
1028	Iron	0.3	mg/L	0.0136	I	EPA200.7	0.0100	08/19/21		E83018
1032	Manganese	0.05	mg/L	0.0100	U	EPA200.7	0.0100	08/19/21		E83018
1050	Silver	0.1	mg/L	0.000500	U	EPA200.8	0.000500	08/18/21		E83018
1055	Sulfate	250	mg/L	2.95		EPA300.0	1.00	08/18/21		E83018
1095	Zinc	5	mg/L	0.00280	I	EPA200.8	0.00200	08/18/21		E83018
1905	Color	15	CU	5.00	U	SM2120 B	5.00	08/18/21	05:00 PM	E83018
1920	Odor	3	TON@40C	1.00	U	SM2150 B	1.00	08/18/21	12:35 PM	E83018
1925	pH	6.5 -8.5	pH	8.25	Q	SM4500-H B	0.0100	08/19/21	06:24 PM	E83018
1930	Total Dissolved Solids	500	mg/L	224		SM2540 C	2.50	08/18/21		E83018
2905	Foaming Agents	0.5	mg/L	0.200	U	SM5540 C	0.200	08/18/21	05:20 PM	E83018

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

VOLATILE ORGANICS
62-550.310(2)(b)

Report Number / Job ID: 480543DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Analysis Date	Analysis Time	DOH Lab Cert #
2378	1,2,4,-trichlorobenzene	70	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2380	cis-1,2-Dichloroethylene	70	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2955	Xylenes	10000	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2964	Dichloromethane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2968	o-dichlorobenzene	600	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2969	Para-dichlorobenzene	75	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2976	Vinyl Chloride	1	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2977	1,1-Dichloroethylene	7	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2979	trans-1,2-Dichloroethylene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2980	1,2-Dichloroethane	3	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2981	1,1,1-trichloroethane	200	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2982	Carbon tetrachloride	3	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2983	1,2-dichloropropane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2984	Trichloroethylene	3	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2985	1,1,2-trichloroethane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2987	Tetrachloroethylene	3	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2989	Monochlorobenzene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2990	Benzene	1	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2991	Toluene	1000	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2992	Ethylbenzene	700	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018
2996	Styrene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	08/24/21		E83018

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

SYNTHETIC ORGANICS
62-550.310(2)(c)

Report Number / Job ID: 480543DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Extraction Date	Analysis Date	Analysis Time	DOH Lat Cert #
2005	Endrin	2	ug/L	0.0100	U	EPA505	0.0100	0.01	08/24/21	08/24/21		E83018
2010	Lindane	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	08/24/21	08/24/21		E83018
2015	Methoxychlor	40	ug/L	0.0500	U	EPA505	0.0500	0.1	08/24/21	08/24/21		E83018
2020	Toxaphene	3	ug/L	0.500	U	EPA505	0.500	1	08/24/21	08/24/21		E83018
2031	Dalapon	200	ug/L	0.100	U	EPA515.4	0.100	1	08/25/21	08/30/21		E83018
2032	Diquat	20	ug/L	0.400	U	EPA549.2	0.400	0.4	08/20/21	08/23/21		E83018
2033	Endothall	100	ug/L	9.00	U	EPA548.1	9.00	9	08/23/21	08/25/21		E83018
2034	Glyphosate	700	ug/L	6.00	U	EPA547	6.00	6		08/24/21		E83018
2035	Di(2-ethylhexyl) adipate	400	ug/L	0.600	U	EPA525.2	0.600	0.6	08/25/21	08/29/21		E83018
2036	Oxamyl (Vydate)	200	ug/L	2.00	U	EPA531.1	2.00	2.0		08/19/21		E83018
2037	Simazine	4	ug/L	0.0700	U	EPA525.2	0.0700	0.07	08/25/21	08/29/21		E83018
2039	Di(2-ethylhexyl)phthalate	6	ug/L	0.600	U	EPA525.2	0.600	0.6	08/25/21	08/29/21		E83018
2040	Picloram	500	ug/L	0.100	U	EPA515.4	0.100	0.1	08/25/21	08/30/21		E83018
2041	Dinoseb	7	ug/L	0.200	U	EPA515.4	0.200	0.2	08/25/21	08/30/21		E83018
2042	Hexachlorocyclopentadiene	50	ug/L	0.100	U	EPA505	0.100	0.1	08/24/21	08/24/21		E83018
2046	Carbofuran	40	ug/L	0.900	U	EPA531.1	0.900	0.9		08/19/21		E83018
2050	Atrazine	3	ug/L	0.100	U	EPA525.2	0.100	0.1	08/25/21	08/29/21		E83018
2051	Alachlor	2	ug/L	0.200	U	EPA525.2	0.200	0.2	08/25/21	08/29/21		E83018
2065	Heptachlor	0.4	ug/L	0.0100	U	EPA505	0.0100	0.04	08/24/21	08/24/21		E83018
2067	Heptachlor epoxide	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	08/24/21	08/24/21		E83018
2105	2,4-D	70	ug/L	0.100	U	EPA515.4	0.100	0.1	08/25/21	08/30/21		E83018
2110	2,4,5-TP	50	ug/L	0.200	U	EPA515.4	0.200	0.2	08/25/21	08/30/21		E83018
2274	Hexachlorobenzene	1	ug/L	0.100	U	EPA505	0.100	0.1	08/24/21	08/24/21		E83018
2306	Benzo(a)pyrene	0.2	ug/L	0.0200	U	EPA525.2	0.0200	0.02	08/25/21	08/29/21		E83018
2326	Pentachlorophenol	1	ug/L	0.0400	U	EPA515.4	0.0400	0.04	08/25/21	08/30/21		E83018
2383	PolychlorinatedbiphenylsPCB	0.5	ug/L	0.100	U	EPA505	0.100	0.1	08/24/21	08/24/21		E83018
2931	Dibromochloropropane	0.2	ug/L	0.0200	U	EPA504.1	0.0200	0.02	08/24/21	08/24/21		E83018
2946	Ethylene Dibromide	0.02	ug/L	0.0100	U	EPA504.1	0.0100	0.01	08/24/21	08/24/21		E83018
2959	Chlordane	2	ug/L	0.0100	U	EPA505	0.0100	0.2	08/24/21	08/24/21		E83018

Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab – please type or print legibly)

Lab Name: KNL Environmental Testing Florida DOH Certification #: E84026 Certification Expiration Date: June Renewal

ATTACH CURRENT DOH ANALYTE SHEET*

Address: 3202 N. Florida Ave. Tampa, FL 33603 Phone #: 813-229-2879

Were any analyses subcontracted? Yes No If yes, please provide DOH certification number(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION (to be completed by lab) Date Sample(s) Received: 8-19-21

PWS ID (From Pg 1): 3480327 Sample # (From Pg 1): 480543DW1 Lab Assigned Report # or Job ID: 21-12529

Group(s) Analyzed & Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

Inorganics

- All Except Asbestos
- Partial
- Nitrate
- Nitrite
- Asbestos

Synthetic Organics

- All 30
- All Except Dioxin
- Partial
- Dioxin Only

Volatile Organics

- All 21
- Partial

Disinfection Byproducts

- Trihalomethanes
- Haloacetic Acids
- Chlorite
- Bromate

Radionuclides

- Single Sample
- Qtrly Composite**

Secondaries

- All 14
- Partial

LAB CERTIFICATION

I, Thomas J. Weeks, Laboratory Director, do HEREBY CERTIFY
(Print Name) (Print Title)

that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature: [Signature] Date: 9-2-21

* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.
 ** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION & NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE OR NITRITE MCL EXCEEDANCES
NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "c" are not acceptable.)

COMPLIANCE DETERMINATION (to be completed by DEP or DOH -- attach notes as necessary)

Sample Collection & Analysis Satisfactory: Yes No _____ Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____ Date Notified: _____ DEP/DOH Reviewing Official: _____

KNL Environmental Testing
 3202 N. Florida Ave.
 Tampa, FL 33603

Ph: (813) 229-2879 Fax: (813) 229-0002

**Florida Department of Environmental Protection
 Safe Drinking Water Program Laboratory Reporting Format**

ADIONUCLIDES
 62-550.310(6)

KNL Report Number/Job ID: 21.12529
 PWS ID(From Page 1):

Client ID: Flowers Chemical Laboratories, Inc. / 480543 DW1


Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier *	Analytical Method	Lab MDL	RDL	Analysis Error	Analysis Date	Analysis Time	DOH Lab Certification #
4002	Gross Alpha (incl Uranium)	15 ***	pCi/L	1.8	I	EPA 900.0	1.6	3	1.0	8-24-21	0756	E84025
4020	Radium-226	5	pCi/L	0.8	I	EPA 903.0 *****	0.3	1	0.3	8-25-21	1250	E84025
4030	Radium-228		pCi/L	0.7	I	EPA Ra-05	0.6	1	0.5	8-26-21	1146	E84025

Reporting Format 62-550.730
 Effective January 1995. Revised February 2010.

- * Qualifier Codes: U = indicates that the compound was analyzed for but not detected.
 I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.
- ** If the result exceeds 5 pCi/L, a measurement for radium-226 is required. Uranium is reported separately under Contam ID 4006.
- *** If the results exceed 5 pCi/L, a measurement for radium-226 is required. If the results exceed 15 pCi/L, a measurement for Combined Uranium must be reported separately. The DEP/DOH will subtract the U value from the Gross Alpha (ID 4002) to determine compliance with MCL for Gross Alpha (Excl.U) of 15 pCi/L. If the result for ID 4002 Gross Alpha (incl.Uranium) does not exceed 15 pCi/L, Combined Uranium need not be measured nor reported.
- **** If using Uranium testing methods ASTM D5174 or EPA 200.8 only, then Analysis Error need not be reported.
- ***** 86% carrier recovery

Page of

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
 Contact person: Thomas Weeks (813) 229-2879.

Approved by: 
 Thomas J. Weeks
 Laboratory Director



X Flowers Chemical Laboratories, Inc.
 107 West 22nd Ave
 Kissimmee Springs, FL 34707
 Bus: 407-398-9861
 Fax: 407-398-9110

Flowers Chemical Labs South
 West Park Industrial Plaza
 571 N.W. Mercantile Pl., Ste. 111
 Fort St. Lucie, FL 34986
 Bus: 772-343-8006
 Fax: 772-343-8089

Flowers Chemical Labs South
 812 S.W. Harvey Greene Dr
 Madison, FL 32340
 Bus: 850-973-6878
 Fax: 850-973-6878

Flowers Chemical Labs USA
 3980 Overseas Highway Ste. 103
 Marathon, FL 33050
 Bus: 305-743-8598
 Fax: 305-743-8598

DOWNLOAD REPORTS, INVOICES AND CHAINS OF CUSTODY www.flowerslabs.com

Client: **KNL Labs**
 Address: **3202 N Florida Avenue, Tampa, FL, 33603**
 Phone: **813-229-2879**

Project Name: _____ P.O. # _____
 Client Contact: **Thomas Weeks** FAX: _____
 FCL Project Manager: **June Flowers Ext212** E-MAIL: _____
 Requested Due Date: _____ OR _____ Rush Charges May Apply
 10 Day Standard

SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	PRESERVATIVES					ANALYSES REQUEST					COMMENTS	Total # Containers
					NONE	H ₂ SO ₄	HNO ₃	HCl	Na ₂ S ₂ O ₈	GA (High Solids)	GA	GB	Radium226	Radium226 (903.1)		
480495 DWI	08/17	1730	DW	21-12527						✓	✓	✓	✓			3
480494 DWI	08/17	1730	DW	21-12528						✓	✓	✓	✓			3
480543 DWI	08/18	1000	DW	21-12529						✓	✓	✓	✓			3

Requisitioned By: _____ Date: _____ Time: _____ Accepted By: _____ Affiliation: _____ Date: _____ Time: _____
 Requisitioned By: _____ Date: _____ Time: _____ Accepted By: _____ Affiliation: _____ Date: _____ Time: _____

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• WHITE - Lab Copy - To Be Scanned • YELLOW - Client Copy

Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

PUBLIC WATER SYSTEM INFORMATION (to be completed by sampler – please type or print legibly)

System Name: Town Of Eatonville PWS I.D. # 3 4 8 0 3 2 7

System Type (check one): Community Nontransient Noncommunity Transient Noncommunity

Address: 307 Kennedy Blvd.

City/State: Eatonville, FL Zip: 32751

Phone#: 386-623-8904 Fax#: _____ Email Address: _____

SAMPLE INFORMATION (to be completed by sampler)

Sample Number: E-1 Sample Date: 12/24/18 Sample Time: 1030 AM PM (Circle One)

Sample Location (be specific) Plant tap Location Code: _____

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): _____ mg/L Field pH: _____

Sample Type (Check Only One)

- Distribution
- Entry Point (to Distribution)
- Plant Tap (not for compliance with 62-550)
- Raw (at well or intake)
- Max Residence Time
- Ave Residence Time
- Near First Customer

Reason(s) for Sample (Check all that apply)

- Routine Compliance with 62-550
- Confirmation of MCL Exceedance*
- Composite of Multiple Sites**
- Other: _____
- Replacement (of Invalidated Sample)
- Special (not for compliance with 62-550)
- Clearance (permitting)

Sampling Procedure Used or Other Comments: _____

*See 62-550.500(6) for requirements and restrictions. And 62-550.512(3) for nitrate or nitrite exceedances.

**See 62-550.550(4) for requirements and attach a results page for each site.

SAMPLER CERTIFICATION

I, Mike Cavaletz, operator, do HEREBY CERTIFY
(Print Name) (Print Title)

that the above public water system and sample collection information is complete and correct.

Signature: Mike G Date: 12/24/18

Certified Operator #: CS642 Phone #: 386-278-5023 Sampler's Fax #: _____

REVIEWED
136

By useche_v at 4:55 pm, Feb 12, 2019

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab - please type or print legibly)

Lab Name: Flowers Chemical Laboratories, Inc.

Florida DOH Certification #: E83018

Certification Expiration Date: 6/30/2019

ATTACH CURRENT DOH ANALYTE SHEET*

Address: P. O. Box 150597, Altamonte Springs, FL 32715-0597

Phone #: 407-339-5984

Were any analyses subcontracted? [] Yes [X] No If yes, please provide DOH certification number(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION(to be completed by lab)

Date Sample(s) Received: 12/24/18

PWS ID (From Page 1): _____

Sample Number (From Page 1): 387451DW1

Lab Assigned Report # or Job ID: 387451

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

- Inorganics: [] All Except Asbestos, [] Partial, [] Nitrate, [] Nitrite, [] Asbestos
Synthetic Organics: [] All 30, [X] All Except Dioxin, [] Partial, [] Dioxin Only
Volatile Organics: [] All 21, [] Partial
Disinfection Byproducts: [] Trihalomethanes, [] Haloacetic Acids, [] Chlorite, [] Bromate
Radionuclides: [] Single Sample, [] Qtrly Composite**
Secondaries: [] All 14, [] Partial

LAB CERTIFICATION

I, Jefferson S. Flowers, Technical Director, do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature: [Handwritten Signature]

Date: 01/09/19

* Failure to provide a valid and current Florida DOH certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report and possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION AND NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE MCL EXCEEDANCES

NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "<" are not acceptable.)

Compliance Determination (to be completed by DEP or DOH - attach notes as necessary)

Sample Collection & Analysis Satisfactory [] Yes [] No _____ Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____ Date Notified: _____ DEP/DOH Reviewing Official: _____

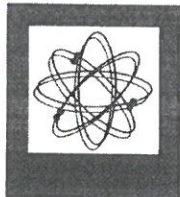
Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

Section III. Item #1.

SYNTHETIC ORGANICS
62-550.310(2)(c)

Report Number / Job ID: 387451DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Extraction Date	Analysis Date	Analysis Time	DOH Lat Cert #
2005	Endrin	2	ug/L	0.0100	U	EPA505	0.0100	0.01	12/26/18	12/26/18		E83018
2010	Lindane	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	12/26/18	12/26/18		E83018
2015	Methoxychlor	40	ug/L	0.0500	U	EPA505	0.0500	0.1	12/26/18	12/26/18		E83018
2020	Toxaphene	3	ug/L	0.500	U	EPA505	0.500	1	12/26/18	12/26/18		E83018
2031	Dalapon	200	ug/L	0.100	U	EPA515.4	0.100	1	01/03/18	01/07/19		E83018
2032	Diquat	20	ug/L	0.400	U	EPA549.2	0.400	0.4	12/24/18	01/02/19		E83018
2033	Endothall	100	ug/L	9.00	U	EPA548.1	9.00	9	12/28/18	01/07/19		E83018
2034	Glyphosate	700	ug/L	6.00	UJ	EPA547	6.00	6		01/07/19		E83018
2035	Di(2-ethylhexyl) adipate	400	ug/L	0.600	U	EPA525.2	0.600	0.6	12/31/18	01/08/19		E83018
2036	Oxamyl (Vydate)	200	ug/L	2.00	U	EPA531.1	2.00	2.0		01/02/19		E83018
2037	Simazine	4	ug/L	0.0700	U	EPA525.2	0.0700	0.07	12/31/18	01/08/19		E83018
2039	Di(2-ethylhexyl)phthalate	6	ug/L	0.600	U	EPA525.2	0.600	0.6	12/31/18	01/08/19		E83018
2040	Picloram	500	ug/L	0.100	U	EPA515.4	0.100	0.1	01/03/18	01/07/19		E83018
2041	Dinoseb	7	ug/L	0.200	U	EPA515.4	0.200	0.2	01/03/18	01/07/19		E83018
2042	Hexachlorocyclopentadiene	50	ug/L	0.100	U	EPA505	0.100	0.1	12/26/18	12/26/18		E83018
2046	Carbofuran	40	ug/L	0.900	U	EPA531.1	0.900	0.9		01/02/19		E83018
2050	Atrazine	3	ug/L	0.100	U	EPA525.2	0.100	0.1	12/31/18	01/08/19		E83018
2051	Alachlor	2	ug/L	0.200	U	EPA525.2	0.200	0.2	12/31/18	01/08/19		E83018
2065	Heptachlor	0.4	ug/L	0.0100	U	EPA505	0.0100	0.04	12/26/18	12/26/18		E83018
2067	Heptachlor epoxide	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	12/26/18	12/26/18		E83018
2105	2,4-D	70	ug/L	0.100	U	EPA515.4	0.100	0.1	01/03/18	01/07/19		E83018
2110	2,4,5-TP	50	ug/L	0.200	U	EPA515.4	0.200	0.2	01/03/18	01/07/19		E83018
2274	Hexachlorobenzene	1	ug/L	0.100	U	EPA505	0.100	0.1	12/26/18	12/26/18		E83018
2306	Benzo(a)pyrene	0.2	ug/L	0.0200	U	EPA525.2	0.0200	0.02	12/31/18	01/08/19		E83018
2326	Pentachlorophenol	1	ug/L	0.0400	U	EPA515.4	0.0400	0.04	01/03/18	01/07/19		E83018
2383	PolychlorinatedbiphenylsPCB	0.5	ug/L	0.100	U	EPA505	0.100	0.1	12/26/18	12/26/18		E83018
2931	Dibromochloropropane	0.2	ug/L	0.0200	U	EPA504.1	0.0200	0.02	12/26/18	12/27/18		E83018
2946	Ethylene Dibromide	0.02	ug/L	0.0100	U	EPA504.1	0.0100	0.01	12/26/18	12/27/18		E83018
2959	Chlordane	2	ug/L	0.0100	U	EPA505	0.0100	0.2	12/26/18	12/26/18		E83018



Flowers Chemical Laboratories, Inc.
 481 Newburyport Ave.
 Altamonte Springs, FL 32701
 Bus: 407-339-5984
 Fax: 407-260-6110

Flowers Chemical Labs South
 8253 South US Hwy. 1
 Port St. Lucie, FL 34952
 Bus: 772-343-8006
 Fax: 772-343-8089

Flowers Chemical Labs North
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 Madison, FL 32340
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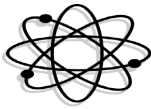
Client: Town of Eatonville
 Address: 307 E. Kennedy Blvd
Eatonville, Fla 32751
 Phone: 386 279-5023
 Public Water System Name: _____
 PWS ID#: 3480327
 P.O. #: _____
 FCL Lab Coordinator: _____
 Kit #: _____

Sampled By (PRINT): Mike Guvareta
 Sampler Signature: Mike G
 Date Sampled: 12/24/18
 Public Water System Type: Limited Use Commercial / Public
 Community Non-Community Non-transient / Non-Community
 COMMENTS: _____

DRINKING WATER - Chain of Custody F.A.C. 62 - 550					NUMBER	PRESERVATIVES					Primary Inorg.	Secondaries	VOCs	SOCs	NO ₂ / NO ₃	TTHM	THAA	Pb/Cu	GA / RA228 RA226	Asbestos	Field pH	Cl ₂ Res	
ITEM NO.	SAMPLE DESCRIPTION	DATE	TIME	LAB NO.		NONE	NaOH	HNO ₃	HCl	Na ₂ S ₂ O ₃													
E 1	Plant tap	12/24/18	1030		10																		
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time	Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time								
<u>Mike G</u>		<u>12/24/18</u>	<u>1057</u>									<u>C. Pa Rosa</u>		<u>12/24/18</u>	<u>11:01</u>								

• WHITE - Ship with Samples / To Be Returned with Results

• YELLOW - Field Copy / Retain For Your Records



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Phone: 305-743-8598 E35834 (Keys Lab)

Town of Eatonville
P.O. Box 2163
Eatonville, FL 32751

PO #: Revised 2/6/19
Client Project #: 3480327
Date Sampled: Dec 24, 2018
Jan 9, 2019; Invoice: 387451

Report Summary

Date Received: Dec 24, 2018

FCL Project Manager: Robert J. Carpenter

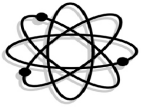
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
387451DW1	Plant Tap	EPA504.1	DLJ	Main Lab	Drinking Water
		EPA505	DLJ	Main Lab	
		EPA515.4	DLJ	Main Lab	
		EPA525.2	CLS	Main Lab	
		EPA531.1	YGS	Main Lab	
		EPA547	YGS	Main Lab	
		EPA548.1	CLS	Main Lab	
		EPA549.2	YGS	Main Lab	
		X504	DLJ	Main Lab	
		X505	DLJ	Main Lab	
		X515.4	TGL	Main Lab	
		X525	JAF	Main Lab	
		X548	TGL	Main Lab	
		X549.2	TGL	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAP Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director



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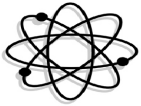
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Town of Eatonville
 P.O. Box 2163
 Eatonville, FL 32751

PO #: Revised 2/6/19
 Client Project #: 3480327
 Date Sampled: Dec 24, 2018
 Jan 9, 2019; Invoice: 387451

Analysis Report

Lab #:	Sampled:	Desc:	Plant Tap							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Brom_Insect_Extraction	35.0	ml	1.00			10391962	X504		12/26/18	
Chlor_Pest_Extraction	35.0	ml	1.00			10391963	X505		12/26/18	
Chlordane	0.0100 U	ug/L	1.00	0.0100	0.0200	10392034	EPA505	57-74-9	12/26/18	
Endrin	0.0100 U	ug/L	1.00	0.0100	0.0200	10392034	EPA505	72-20-8	12/26/18	
Heptachlor	0.0100 U	ug/L	1.00	0.0100	0.0200	10392034	EPA505	76-44-8	12/26/18	
Heptachlor epoxide	0.0100 U	ug/L	1.00	0.0100	0.0200	10392034	EPA505	1024-57-3	12/26/18	
Hexachlorobenzene	0.100 U	ug/L	1.00	0.100	0.200	10392034	EPA505	118-74-1	12/26/18	
Hexachlorocyclopentadiene	0.100 U	ug/L	1.00	0.100	0.200	10392034	EPA505	77-47-4	12/26/18	
Lindane (g-BHC)	0.0100 U	ug/L	1.00	0.0100	0.0200	10392034	EPA505	58-89-9	12/26/18	
Methoxychlor	0.0500 U	ug/L	1.00	0.0500	0.100	10392034	EPA505	72-43-5	12/26/18	
Total Arochlors	0.100 U	ug/L	1.00	0.100	0.200	10392034	EPA505	1336-36-3	12/26/18	
Toxaphene	0.500 U	ug/L	1.00	0.500	1.00	10392034	EPA505	8001-35-2	12/26/18	
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10392095	EPA504.1	106-93-4	12/27/18	
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10392095	EPA504.1	96-12-8	12/27/18	
Diquat_Extraction	100	ml	1.00			10392099	X549.2		12/24/18	
Endothall_Extraction	100	ml	1.00			10392255	X548		12/28/18	
Acid Base Extraction	1050	ml	1.00			10392393	X525		12/31/18	
Carbofuran	0.900 U	ug/L	1.00	0.900	4.00	10392458	EPA531.1	1563-66-2	01/02/19	
Oxamyl (Vydate)	2.00 U	ug/L	1.00	2.00	4.00	10392458	EPA531.1	23135-22-0	01/02/19	
Diquat	0.400 U	ug/L	1.00	0.400	0.800	10392466	EPA549.2	85-00-7	01/02/19	
Chlor_Herb_Extraction	40.0	ml	1.00			10392673	X515.4		01/03/18	
Endothall	9.00 U	ug/L	1.00	9.00	18.0	10392749	EPA548.1	145-73-3	01/07/19	
Glyphosate	6.00 UJ	ug/L	1.00	6.00	10.0	10392799	EPA547	1071-83-6	01/07/19	
2,4,5-TP (Silvex)	0.200 U	ug/L	1.00	0.200	0.500	10392820	EPA515.4	93-72-1	01/07/19	
2,4-D	0.100 U	ug/L	1.00	0.100	0.500	10392820	EPA515.4	94-75-7	01/07/19	
Dalapon	0.100 U	ug/L	1.00	0.100	0.500	10392820	EPA515.4	75-99-0	01/07/19	
Dinoseb	0.200 U	ug/L	1.00	0.200	0.500	10392820	EPA515.4	88-85-7	01/07/19	



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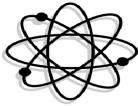
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Town of Eatonville
 P.O. Box 2163
 Eatonville, FL 32751

PO #: Revised 2/6/19
 Client Project #: 3480327
 Date Sampled: Dec 24, 2018
 Jan 9, 2019; Invoice: 387451

Lab #: 387451DW1 Sampled: 12/24/18 10:30 AM Desc: Plant Tap

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Pentachlorophenol	0.0400 U	ug/L	1.00	0.0400	0.100	10392820	EPA515.4	87-86-5	01/07/19
Picloram	0.100 U	ug/L	1.00	0.100	0.200	10392820	EPA515.4	1918-02-1	01/07/19
Alachlor (Lasso)	0.200 U	ug/L	1.00	0.200	0.400	10392869	EPA525.2	15972-60-8	01/08/19
Atrazine	0.100 U	ug/L	1.00	0.100	0.200	10392869	EPA525.2	1912-24-9	01/08/19
Benzo(a)pyrene	0.0200 U	ug/L	1.00	0.0200	0.100	10392869	EPA525.2	50-32-8	01/08/19
Bis(2-ethylhexyl)phthalate	0.600 U	ug/L	1.00	0.600	1.20	10392869	EPA525.2	117-81-7	01/08/19
Di(2-ethylhexyl) adipate	0.600 U	ug/L	1.00	0.600	1.20	10392869	EPA525.2	103-23-1	01/08/19
Simazine	0.0700 U	ug/L	1.00	0.0700	0.140	10392869	EPA525.2	122-34-9	01/08/19



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 Eatonville, FL 32751

PO #: Revised 2/6/19
 Client Project #: 3480327
 Date Sampled: Dec 24, 2018
 Jan 9, 2019; Invoice: 387451

Quality Report

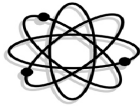
Quality Control Batch: 10392034

Analyst: DLJ

Blank	Result	Units
Chlordane	0.0100U	ug/L
Endrin	0.0100U	ug/L
Heptachlor	0.0100U	ug/L
Heptachlor epoxide	0.0100U	ug/L
Hexachlorobenzene	0.100U	ug/L
Hexachlorocyclopentadiene	0.100U	ug/L
Lindane (g-BHC)	0.0100U	ug/L
Methoxychlor	0.0500U	ug/L
Total Arochlors	0.100U	ug/L
Toxaphene	0.500U	ug/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Endrin	0.155	ug/L	0.200	77.30	50.00-170.00
Heptachlor	0.166	ug/L	0.200	83.10	50.00-170.00
Heptachlor epoxide	0.165	ug/L	0.200	82.50	50.00-170.00
Hexachlorobenzene	0.188	ug/L	0.200	94.20	50.00-170.00
Hexachlorocyclopentadiene	0.171	ug/L	0.200	85.45	20.00-160.00
Lindane (g-BHC)	0.146	ug/L	0.200	73.15	50.00-170.00
Methoxychlor	0.162	ug/L	0.200	81.20	50.00-170.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Endrin	0.177	ug/L	0.200	88.35	50.00-170.00	0.0100U	387302DW1
Heptachlor	0.186	ug/L	0.200	92.90	50.00-170.00	0.0100U	387302DW1
Heptachlor epoxide	0.184	ug/L	0.200	91.80	50.00-170.00	0.0100U	387302DW1
Hexachlorobenzene	0.208	ug/L	0.200	103.80	50.00-170.00	0.100U	387302DW1



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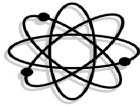
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 Eatonville, FL 32751

PO #: Revised 2/6/19
 Client Project #: 3480327
 Date Sampled: Dec 24, 2018
 Jan 9, 2019; Invoice: 387451

Quality Control Batch: 10392034		Analyst: DLJ						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Hexachlorocyclopentadiene	0.187	ug/L	0.200	93.25	20.00-160.00	0.100U	387302DW1	
Lindane (g-BHC)	0.179	ug/L	0.200	89.65	50.00-170.00	0.0100U	387302DW1	
Methoxychlor	0.185	ug/L	0.200	92.45	50.00-170.00	0.0500U	387302DW1	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Endrin	0.168	ug/L	0.200	84.15	50.00-170.00	0.0100U	4.87	30.00
Heptachlor	0.179	ug/L	0.200	89.50	50.00-170.00	0.0100U	3.73	30.00
Heptachlor epoxide	0.177	ug/L	0.200	88.40	50.00-170.00	0.0100U	3.77	30.00
Hexachlorobenzene	0.200	ug/L	0.200	100.20	50.00-170.00	0.100U	3.53	30.00
Hexachlorocyclopentadiene	0.184	ug/L	0.200	91.75	20.00-160.00	0.100U	1.62	30.00
Lindane (g-BHC)	0.169	ug/L	0.200	84.25	50.00-170.00	0.0100U	6.21	30.00
Methoxychlor	0.178	ug/L	0.200	88.75	50.00-170.00	0.0500U	4.08	30.00
Quality Control Batch: 10392095		Analyst: DLJ						
Blank	Result	Units						
1,2-Dibromoethane (EDB)	0.0100U	ug/L						
1,2-dibromo-3-chloropropane	0.0200U	ug/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
1,2-Dibromoethane (EDB)	0.266	ug/L	0.251	105.81	50.00-170.00			
1,2-dibromo-3-chloropropane	0.243	ug/L	0.251	96.70	50.00-170.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
1,2-Dibromoethane (EDB)	0.314	ug/L	0.251	124.86	50.00-170.00	0.0100U	387303DW1	
1,2-dibromo-3-chloropropane	0.235	ug/L	0.251	93.60	50.00-170.00	0.0200U	387303DW1	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
1,2-Dibromoethane (EDB)	0.304	ug/L	0.251	120.76	50.00-170.00	0.0100U	3.34	30.00
1,2-dibromo-3-chloropropane	0.231	ug/L	0.251	91.81	50.00-170.00	0.0200U	1.93	30.00



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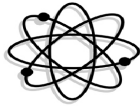
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PO #: Revised 2/6/19
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 Date Sampled: Dec 24, 2018
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Quality Control Batch: 10392458		Analyst: YGS							
Blank	Result	Units							
Carbofuran	0.900U	ug/L							
Oxamyl (Vydate)	2.00U	ug/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Carbofuran	26.3	ug/L	25.0	105.13	80.00-120.00				
Oxamyl (Vydate)	24.7	ug/L	25.0	98.96	80.00-120.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number		
Carbofuran	25.0	ug/L	25.0	99.97	80.00-120.00	0.900U	386801DW1		
Oxamyl (Vydate)	24.6	ug/L	25.0	98.25	80.00-120.00	2.00U	386801DW1		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Carbofuran	24.5	ug/L	25.0	97.87	80.00-120.00	0.900U	2.12	20.00	
Oxamyl (Vydate)	24.5	ug/L	25.0	98.18	80.00-120.00	2.00U	0.07	20.00	
Quality Control Batch: 10392466		Analyst: YGS							
Blank	Result	Units							
Diquat	0.400U	ug/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Diquat	5.37	ug/L	5.00	107.41	50.00-170.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number		
Diquat	4.53	ug/L	5.00	90.64	50.00-170.00	0.400U	387756DW1		



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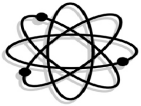
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 3980 Overseas Hwy, Suite 103, Marathon, FL 33050

Phone: 407-339-5984 E83018 (Main Lab)
 Phone: 772-343-8006 E86562 (South Lab)
 Phone: 850-973-6878 E82405 (North Lab)
 Phone: 305-743-8598 E35834 (Keys Lab)

Town of Eatonville
 P.O. Box 2163
 Eatonville, FL 32751

PO #: Revised 2/6/19
 Client Project #: 3480327
 Date Sampled: Dec 24, 2018
 Jan 9, 2019; Invoice: 387451

Quality Control Batch: 10392749		Analyst: CLS							
Blank	Result	Units							
Endothall	9.00U	ug/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Endothall	86.0	ug/L	100	86.00	50.00-170.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number		
Endothall	75.3	ug/L	100	75.32	50.00-170.00	9.00U	387357WW1		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Endothall	93.9	ug/L	100	93.93	50.00-170.00	9.00U	21.99	30.00	
Quality Control Batch: 10392799		Analyst: YGS							
Blank	Result	Units							
Glyphosate	6.00U	ug/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Glyphosate	45.8	ug/L	50.0	91.65	80.00-120.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number		
Glyphosate	37.0	ug/L	50.0	73.98	80.00-120.00	6.00U	387451DW1		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Glyphosate	34.4	ug/L	50.0	68.71	80.00-120.00	6.00U	7.40	20.00	
Quality Control Batch: 10392869		Analyst: CLS							
Blank	Result	Units							
Alachlor (Lasso)	0.200U	ug/L							
Atrazine	0.100U	ug/L							



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597
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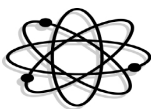
Town of Eatonville
 P.O. Box 2163
 Eatonville, FL 32751

PO #: Revised 2/6/19
 Client Project #: 3480327
 Date Sampled: Dec 24, 2018
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Quality Control Batch: 10392869

Analyst: CLS

Blank	Result	Units						
Benzo(a)pyrene	0.0200U	ug/L						
Bis(2-ethylhexyl)phthalate	0.600U	ug/L						
Di(2-ethylhexyl) adipate	0.600U	ug/L						
Simazine	0.0700U	ug/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Alachlor (Lasso)	1.97	ug/L	2.00	98.50	80.00-120.00			
Atrazine	1.89	ug/L	2.00	94.50	80.00-120.00			
Benzo(a)pyrene	0.650	ug/L	1.00	65.00	35.00-150.00			
Bis(2-ethylhexyl)phthalate	10.3	ug/L	10.0	103.10	80.00-120.00			
Di(2-ethylhexyl) adipate	8.97	ug/L	10.0	89.70	50.00-150.00			
Simazine	1.96	ug/L	2.00	98.00	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Alachlor (Lasso)	1.67	ug/L	2.00	83.50	70.00-130.00	0.200U	387302DW1	
Atrazine	1.04	ug/L	2.00	52.00	70.00-130.00	0.100U	387302DW1	
Benzo(a)pyrene	0.920	ug/L	1.00	92.00	35.00-150.00	0.0200U	387302DW1	
Bis(2-ethylhexyl)phthalate	9.75	ug/L	10.0	97.50	80.00-120.00	0.600U	387302DW1	
Di(2-ethylhexyl) adipate	10.2	ug/L	10.0	102.00	50.00-150.00	0.600U	387302DW1	
Simazine	1.11	ug/L	2.00	55.50	70.00-130.00	0.0700U	387302DW1	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Alachlor (Lasso)	1.96	ug/L	2.00	98.00	70.00-130.00	0.200U	15.98	20.00
Atrazine	1.24	ug/L	2.00	62.00	70.00-130.00	0.100U	17.54	20.00
Benzo(a)pyrene	0.900	ug/L	1.00	90.00	35.00-150.00	0.0200U	2.20	30.00
Bis(2-ethylhexyl)phthalate	9.86	ug/L	10.0	98.60	80.00-120.00	0.600U	1.12	20.00
Di(2-ethylhexyl) adipate	10.5	ug/L	10.0	104.80	50.00-150.00	0.600U	2.71	30.00
Simazine	1.35	ug/L	2.00	67.50	70.00-130.00	0.0700U	19.51	20.00



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Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

Section III. Item #1.

PUBLIC WATER SYSTEM INFORMATION (to be completed by sampler – please type or print legibly)

System Name: Town of Eatonville PWS I.D. # 3 4 8 0 3 2 7

System Type (check one): Community Non-transient Non-community Transient Non-community

Address: 307 E. Kennedy Blvd

City/State: Eatonville, FL Zip: 32751

Phone#: _____ Fax#: _____ Email Address: _____

SAMPLE INFORMATION (to be completed by sampler)

Sample Number: 1 Sample Date: 9/21/15 Sample Time: 1230 AM PM (Circle One)

Sample Location (be specific) Plant Tap Location Code: _____

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): _____ mg/L Field pH: _____

Sample Type (Check Only One)

- Distribution
- Entry Point (to Distribution)
- Plant Tap (not for compliance with 62-550)
- Raw (at well or intake)
- Max Residence Time
- Ave Residence Time
- Near First Customer

Reason(s) for Sample (Check all that apply)

- Routine Compliance with 62-550
- Confirmation of MCL Exceedance*
- Composite of Multiple Sites**
- Other: _____
- Replacement (of Invalidated Sample)
- Special (not for compliance with 62-550)
- Clearance (permitting)

Sampling Procedure Used or Other Comments: _____

*See 62-550.500(6) for requirements and restrictions. And 62-550.512(3) for nitrate or nitrite exceedances.

**See 62-550.550(4) for requirements and attach a results page for each site.

SAMPLER CERTIFICATION

I, Mike Gavaletz, operator, do HEREBY CERTIFY
(Print Name) (Print Title)

that the above public water system and sample collection information is complete and correct.

Signature: Mike Gavaletz Date: 9/21/15

Certified Operator #: C 5842 Phone #: 386-279-5023 Sampler's Fax #: _____

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab - please type or print legibly)

Lab Name: Flowers Chemical Laboratories, Inc.

Florida DOH Certification #: E83018

Certification Expiration Date: 6/30/2016

ATTACH CURRENT DOH ANALYTE SHEET*

Address: P. O. Box 150597, Altamonte Springs, FL 32715-0597

Phone #: 407-339-5984

Were any analyses subcontracted? Yes No If yes, please provide DOH certification number(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION (to be completed by lab)

Date Sample(s) Received: 09/21/15

PWS ID (From Page 1): 3480327

Sample Number (From Page 1): 277445DW1

Lab Assigned Report # or Job ID: 277445

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

Inorganics

Synthetic Organics

Volatile Organics

Disinfection Byproducts

Radionuclides

Secondaries

All Except Asbestos

All 30

All 21

Trihalomethanes

Single Sample

All 14

Partial

All Except Dioxin

Partial

Haloacetic Acids

Qtrly Composite**

Partial

Nitrate

Partial

Chlorite

Nitrite

Dioxin Only

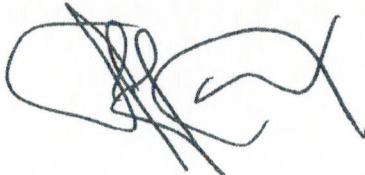
Bromate

Asbestos

LAB CERTIFICATION

I, Jefferson S. Flowers, Technical Director, do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature:



Date: 10/01/15

* Failure to provide a valid and current Florida DOH certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report and possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION AND NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE MCL EXCEEDANCES

NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "<" are not acceptable.)

Compliance Determination (to be completed by DEP or DOH - attach notes as necessary)

Sample Collection & Analysis Satisfactory Yes No _____ Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____ Date Notified: _____ DEP/DOH Reviewing Official: _____

**Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format**

INORGANIC CONTAMINANTS
62-550.310(1)

Report Number / Job ID: 277445DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert #
1040	Nitrate (as N)	10	mg/L	0.200	U	EPA300.0	0.200	09/22/15	12:30 PM	E83018
1041	Nitrite (as N)	1	mg/L	0.200	U	EPA300.0	0.200	09/22/15	12:30 PM	E83018
1005	Arsenic	0.010	mg/L	0.00100	U	EPA200.8	0.00100	09/23/15		E83018
1010	Barium	2	mg/L	0.00200	U	EPA200.8	0.00200	09/23/15		E83018
1015	Cadmium	0.005	mg/L	0.00100	U	EPA200.8	0.00100	09/23/15		E83018
1020	Chromium	0.1	mg/L	0.00100	U	EPA200.8	0.00100	09/23/15		E83018
1024	Cyanide	0.2	mg/L	0.00500	U	SM4500CN-E	0.00500	09/24/15		E83018
1025	Fluoride	4.0	mg/L	0.237		EPA300.0	0.200	09/22/15		E83018
1030	Lead	0.015	mg/L	0.00100	U	EPA200.8	0.00100	09/23/15		E83018
1035	Mercury	0.002	mg/L	0.0000200	U	EPA245.1	0.0000200	09/28/15		E83018
1036	Nickel	0.1	mg/L	0.00190		EPA200.8	0.00100	09/23/15		E83018
1045	Selenium	0.05	mg/L	0.00200	U	EPA200.8	0.00200	09/23/15		E83018
1052	Sodium	160	mg/L	20.2		EPA200.7	0.500	09/21/15		E83018
1074	Antimony	0.006	mg/L	0.00100	U	EPA200.8	0.00100	09/23/15		E83018
1075	Beryllium	0.004	mg/L	0.000500	U	EPA200.8	0.000500	09/23/15		E83018
1085	Thallium	0.002	mg/L	0.00100	U	EPA200.8	0.00100	09/23/15		E83018

**Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format**

SECONDARY CONTAMINANTS
62-550.320

Report Number / Job ID: 277445DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert #
1002	Aluminum	0.2	mg/L	0.0200	U	EPA200.8	0.0200	09/23/15		E83018
1017	Chloride	250	mg/L	32.7		EPA300.0	0.400	09/22/15		E83018
1022	Copper	1	mg/L	0.00100	U	EPA200.8	0.00100	09/23/15		E83018
1025	Fluoride	4.0	mg/L	0.237		EPA300.0	0.200	09/22/15		E83018
1028	Iron	0.3	mg/L	0.0100	U	EPA200.7	0.0100	09/21/15		E83018
1032	Manganese	0.05	mg/L	0.0100	U	EPA200.7	0.0100	09/21/15		E83018
1050	Silver	0.1	mg/L	0.000500	U	EPA200.8	0.000500	09/23/15		E83018
1055	Sulfate	250	mg/L	5.92		EPA300.0	1.00	09/22/15		E83018
1095	Zinc	5	mg/L	0.0100	U	EPA200.8	0.0100	09/23/15		E83018
1905	Color	15	CU	5.00		SM2120 B	5.00	09/22/15	08:00 AM	E83018
1920	Odor	3	TON@40C	1.00	U	SM2150 B	1.00	09/22/15	08:00 AM	E83018
1925	pH	6.5 -8.5	pH	8.39		SM4500-H B	0.0100	09/22/15	10:34 AM	E83018
1930	Total Dissolved Solids	500	mg/L	222		SM2540 C	2.50	09/22/15		E83018
2905	Foaming Agents	0.5	mg/L	0.200	U	SM5540 C	0.200	09/22/15	10:00 AM	E83018

**Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format**

VOLATILE ORGANICS
62-550.310(2)(b)

Report Number / Job ID: 277445DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Analysis Date	Analysis Time	DOH Lab Cert #
2378	1,2,4,-trichlorobenzene	70	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2380	cis-1,2-Dichloroethylene	70	ug/L	0.200	U	EPA524.2	0.200	0.5	09/24/15		E83018
2955	Xylenes	10000	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2964	Dichloromethane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2968	o-dichlorobenzene	600	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2969	Para-dichlorobenzene	75	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2976	Vinyl Chloride	1	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2977	1,1-Dichloroethylene	7	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2979	trans-1,2-Dichloroethylene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2980	1,2-Dichloroethane	3	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2981	1,1,1-trichloroethane	200	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2982	Carbon tetrachloride	3	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2983	1,2-dichloropropane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2984	Trichloroethylene	3	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2985	1,1,2-trichloroethane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2987	Tetrachloroethylene	3	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2989	Monochlorobenzene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2990	Benzene	1	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2991	Toluene	1000	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2992	Ethylbenzene	700	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018
2996	Styrene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	09/24/15		E83018

**Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format**

SYNTHETIC ORGANICS
62-550.310(2)(c)

Report Number / Job ID: 277445DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Extraction Date	Analysis Date	Analysis Time	DOH Lat Cert #
2005	Endrin	2	ug/L	0.0100	U	EPA505	0.0100	0.01	09/22/15	09/22/15		E83018
2010	Lindane	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	09/22/15	09/22/15		E83018
2015	Methoxychlor	40	ug/L	0.0500	U	EPA505	0.0500	0.1	09/22/15	09/22/15		E83018
2020	Toxaphene	3	ug/L	0.500	U	EPA505	0.500	1	09/22/15	09/22/15		E83018
2031	Dalapon	200	ug/L	0.100	U	EPA515.4	0.100	1	09/24/15	09/28/15		E83018
2032	Diquat	20	ug/L	0.400	U	EPA549.2	0.400	0.4	09/23/15	09/24/15		E83018
2033	Endothall	100	ug/L	9.00	U	EPA548.1	9.00	9	09/22/15	09/25/15		E83018
2034	Glyphosate	700	ug/L	6.00	U	EPA547	6.00	6		09/23/15		E83018
2035	Di(2-ethylhexyl) adipate	400	ug/L	0.600	U	EPA525.2	0.600	0.6	09/23/15	09/24/15		E83018
2036	Oxamyl (Vydate)	200	ug/L	2.00	U	EPA531.1	2.00	2.0		09/30/15		E83018
2037	Simazine	4	ug/L	0.0700	U	EPA507	0.0700	0.07	09/22/15	09/28/15		E83018
2039	Di(2-ethylhexyl)phthalate	6	ug/L	0.600	U	EPA525.2	0.600	0.6	09/23/15	09/24/15		E83018
2040	Picloram	500	ug/L	0.100	U	EPA515.4	0.100	0.1	09/24/15	09/28/15		E83018
2041	Dinoseb	7	ug/L	0.200	U	EPA515.4	0.200	0.2	09/24/15	09/28/15		E83018
2042	Hexachlorocyclopentadiene	50	ug/L	0.100	U	EPA505	0.100	0.1	09/22/15	09/22/15		E83018
2046	Carbofuran	40	ug/L	0.900	U	EPA531.1	0.900	0.9		09/30/15		E83018
2050	Atrazine	3	ug/L	0.100	U	EPA507	0.100	0.1	09/22/15	09/28/15		E83018
2051	Alachlor	2	ug/L	0.200	U	EPA507	0.200	0.2	09/22/15	09/28/15		E83018
2065	Heptachlor	0.4	ug/L	0.0100	U	EPA505	0.0100	0.04	09/22/15	09/22/15		E83018
2067	Heptachlor epoxide	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	09/22/15	09/22/15		E83018
2105	2,4-D	70	ug/L	0.100	U	EPA515.4	0.100	0.1	09/24/15	09/28/15		E83018
2110	2,4,5-TP	50	ug/L	0.200	U	EPA515.4	0.200	0.2	09/24/15	09/28/15		E83018
2274	Hexachlorobenzene	1	ug/L	0.100	U	EPA505	0.100	0.1	09/22/15	09/22/15		E83018
2306	Benzo(a)pyrene	0.2	ug/L	0.0200	U	EPA525.2	0.0200	0.02	09/23/15	09/24/15		E83018
2326	Pentachlorophenol	1	ug/L	0.0400	U	EPA515.4	0.0400	0.04	09/24/15	09/28/15		E83018
2383	PolychlorinatedbiphenylsPCB	0.5	ug/L	0.100	U	EPA505	0.100	0.1	09/22/15	09/22/15		E83018
2931	Dibromochloropropane	0.2	ug/L	0.0200	U	EPA504.1	0.0200	0.02	09/22/15	09/22/15		E83018
2946	Ethylene Dibromide	0.02	ug/L	0.0100	U	EPA504.1	0.0100	0.01	09/22/15	09/22/15		E83018
2959	Chlordane	2	ug/L	0.0100	U	EPA505	0.0100	0.2	09/22/15	09/22/15		E83018

ENTERED

Section III. Item #1.

Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

PUBLIC WATER SYSTEM INFORMATION (to be completed by sampler – please type or print legibly)

System Name: Town of Eatonville PWS I.D. # 3 4 8 0 3 2 7

System Type (check one): Community Non-transient Non-community Transient Non-community

Address: 307 E. Kennedy Blvd *2012 - Inorg sec
VOC SOC RAD5*

City/State: Eatonville, FL Zip: 32751

Phone#: _____ Fax#: _____ Email Address: _____

SAMPLE INFORMATION (to be completed by sampler)

Sample Number: 179363 DW1 Sample Date: 7/2/12 Sample Time: 1115 AM PM (Circle One)

Sample Location (be specific) Plant Tap / POE Location Code: _____

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): _____ mg/L Field pH: _____

Sample Type (Check Only One)

- Distribution
- Entry Point (to Distribution)
- Plant Tap (not for compliance with 62-550)
- Raw (at well or intake)
- Max Residence Time
- Ave Residence Time
- Near First Customer

Reason(s) for Sample (Check all that apply)

- Routine Compliance with 62-550
- Confirmation of MCL Exceedance*
- Composite of Multiple Sites**
- Other: _____
- Replacement (of Invalidated Sample)
- Special (not for compliance with 62-550)
- Clearance (permitting)

Sampling Procedure Used or Other Comments: _____

*See 62-550.500(6) for requirements and restrictions. And 62-550.512(3) for nitrate or nitrite exceedances.

**See 62-550.550(4) for requirements and attach a results page for each site.

SAMPLER CERTIFICATION

I, C. Tolano (Print Name), Operator (Print Title), do HEREBY CERTIFY that the above public water system and sample collection information is complete and correct.

Signature: [Signature] Date: 7/2/12

Certified Operator #: C13475 Phone #: 8045201 Sampler's Fax #: _____

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*500 Revision Rec'd
8-27-12*

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab - please type or print legibly)

Lab Name: Flowers Chemical Laboratories, Inc.

Florida DOH Certification #: E83018

Certification Expiration Date: 6/30/2013

ATTACH CURRENT DOH ANALYTE SHEET*

Address: P. O. Box 150597, Altamonte Springs, FL 32715-0597

Phone #: 407-339-5984

Were any analyses subcontracted? Yes No If yes, please provide DOH certification number(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION (to be completed by lab)

Date Sample(s) Received: 07/02/12

PWS ID (From Page 1): 3480322

Sample Number (From Page 1): 179363DW1

Lab Assigned Report # or Job ID: 179363

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

- | | | | | | |
|--|--|----------------------------------|---|--|----------------------------------|
| <u>Inorganics</u> | <u>Synthetic Organics</u> | <u>Volatile Organics</u> | <u>Disinfection Byproducts</u> | <u>Radionuclides</u> | <u>Secondaries</u> |
| <input type="checkbox"/> All Except Asbestos | <input type="checkbox"/> All 30 | <input type="checkbox"/> All 21 | <input type="checkbox"/> Trihalomethanes | <input type="checkbox"/> Single Sample | <input type="checkbox"/> All 14 |
| <input type="checkbox"/> Partial | <input type="checkbox"/> All Except Dioxin | <input type="checkbox"/> Partial | <input type="checkbox"/> Haloacetic Acids | <input type="checkbox"/> Qtrly Composite** | <input type="checkbox"/> Partial |
| <input type="checkbox"/> Nitrate | <input type="checkbox"/> Partial | | <input type="checkbox"/> Chlorite | | |
| <input type="checkbox"/> Nitrite | <input type="checkbox"/> Dioxin Only | | <input type="checkbox"/> Bromate | | |
| <input type="checkbox"/> Asbestos | | | | | |

LAB CERTIFICATION

I, Jefferson S. Flowers, Technical Director, do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature:

Date: 07/24/12

* Failure to provide a valid and current Florida DOH certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report and possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION AND NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE MCL EXCEEDANCES

NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "<" are not acceptable.)

Compliance Determination (to be completed by DEP or DOH - attach notes as necessary)

Sample Collection & Analysis Satisfactory Yes No _____ Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____ Date Notified: _____ DEP/DOH Reviewing Official: _____

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DEP Central Dist

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab - please type or print legibly)

Lab Name: Flowers Chemical Laboratories, Inc.

Florida DOH Certification #: E83018

Certification Expiration Date: 6/30/2013

ATTACH CURRENT DOH ANALYTE SHEET*

Address: P. O. Box 150597, Altamonte Springs, FL 32715-0597

Phone #: 407-339-5984

Were any analyses subcontracted? Yes No If yes, please provide DOH certification number(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION (to be completed by lab)

Date Sample(s) Received: 07/02/12

PWS ID (From Page 1): 3480322

Sample Number (From Page 1): 179363DW1

Lab Assigned Report # or Job ID: 179363

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

- | <u>Inorganics</u> | <u>Synthetic Organics</u> | <u>Volatile Organics</u> | <u>Disinfection Byproducts</u> | <u>Radionuclides</u> | <u>Secondaries</u> |
|--|--|----------------------------------|---|--|----------------------------------|
| <input type="checkbox"/> All Except Asbestos | <input type="checkbox"/> All 30 | <input type="checkbox"/> All 21 | <input type="checkbox"/> Trihalomethanes | <input type="checkbox"/> Single Sample | <input type="checkbox"/> All 14 |
| <input type="checkbox"/> Partial | <input type="checkbox"/> All Except Dioxin | <input type="checkbox"/> Partial | <input type="checkbox"/> Haloacetic Acids | <input type="checkbox"/> Qtrly Composite** | <input type="checkbox"/> Partial |
| <input type="checkbox"/> Nitrate | <input type="checkbox"/> Partial | | <input type="checkbox"/> Chlorite | | |
| <input type="checkbox"/> Nitrite | <input type="checkbox"/> Dioxin Only | | <input type="checkbox"/> Bromate | | |
| <input type="checkbox"/> Asbestos | | | | | |

LAB CERTIFICATION

I, Jefferson S. Flowers, Technical Director, do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature:



Date: 07/24/12

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* Failure to provide a valid and current Florida DOH certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report and possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION AND NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE MCL EXCEEDANCES

NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "<" are not acceptable.)

Compliance Determination (to be completed by DEP or DOH - attach notes as necessary)

Sample Collection & Analysis Satisfactory Yes No _____ Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____ Date Notified: _____ DEP/DOH Reviewing Official: _____

**Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format**

INORGANIC CONTAMINANTS
62-550.310(1)

Report Number / Job ID: 179363DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert #
1040	Nitrate (as N)	10	mg/L	0.0500	U	EPA300.0	0.0500	07/03/12	03:00 PM	E83018
1041	Nitrite (as N)	1	mg/L	0.0500	U	EPA300.0	0.0500	07/03/12	03:00 PM	E83018
1005	Arsenic	0.010	mg/L	0.00100	U	EPA200.8	0.00100	07/03/12		E83018
1010	Barium	2	mg/L	0.00381		EPA200.8	0.00200	07/03/12		E83018
1015	Cadmium	0.005	mg/L	0.00100	U	EPA200.8	0.00100	07/03/12		E83018
1020	Chromium	0.1	mg/L	0.00457		EPA200.8	0.00100	07/03/12		E83018
1024	Cyanide	0.2	mg/L	0.00500	U	SM4500CN-E	0.00500	07/06/12		E83018
1025	Fluoride	4.0	mg/L	0.262		EPA300.0	0.200	07/03/12		E83018
1030	Lead	0.015	mg/L	0.00100	U	EPA200.8	0.00100	07/03/12		E83018
1035	Mercury	0.002	mg/L	0.0000200	U	EPA245.1	0.0000200	07/03/12		E83018
1036	Nickel	0.1	mg/L	0.00239		EPA200.8	0.00100	07/03/12		E83018
1045	Selenium	0.05	mg/L	0.00200	U	EPA200.8	0.00200	07/03/12		E83018
1052	Sodium	160	mg/L	14.9		EPA200.7	0.500	07/05/12		E83018
1074	Antimony	0.006	mg/L	0.00100	U	EPA200.8	0.00100	07/03/12		E83018
1075	Beryllium	0.004	mg/L	0.000500	U	EPA200.8	0.000500	07/03/12		E83018
1085	Thallium	0.002	mg/L	0.00100	U	EPA200.8	0.00100	07/03/12		E83018

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**Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format**

SECONDARY CONTAMINANTS
62-550.320

Report Number / Job ID: 179363DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert #
1002	Aluminum	0.2	mg/L	0.0200	U	EPA200.8	0.0200	07/03/12		E83018
1017	Chloride	250	mg/L	34.2		EPA300.0	2.00	07/09/12		E83018
1022	Copper	1	mg/L	0.00243		EPA200.8	0.00100	07/03/12		E83018
1025	Fluoride	4.0	mg/L	0.262		EPA300.0	0.200	07/03/12		E83018
1028	Iron	0.3	mg/L	0.0100	U	EPA200.7	0.0100	07/05/12		E83018
1032	Manganese	0.05	mg/L	0.0100	U	EPA200.7	0.0100	07/05/12		E83018
1050	Silver	0.1	mg/L	0.000500	U	EPA200.8	0.000500	07/03/12		E83018
1055	Sulfate	250	mg/L	4.45		EPA300.0	1.00	07/02/12		E83018
1095	Zinc	5	mg/L	0.0100	U	EPA200.8	0.0100	07/03/12		E83018
1905	Color	15	CU	15.0		SM2120 B	5.00	07/02/12	02:35 PM	E83018
1920	Odor	3	TON	1.00	U	SM2150 B	1.00	07/02/12	02:30 PM	E83018
1925	pH	6.5 -8.5	pH	8.04		SM4500-H B	0.0100	07/02/12	03:05 PM	E83018
1930	Total Dissolved Solids	500	mg/L	216		SM2540 C	2.50	07/06/12		E83018
2905	Foaming Agents	0.5	mg/L	0.200	U	SM5540 C	0.200	07/03/12	08:00 AM	E83018

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Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

VOLATILE ORGANICS
62-550.310(2)(b)

Report Number / Job ID: 179363DW1
PWS ID (From Page 1): 3480327

20

Contarr ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Analysis Date	Analysis Time	DOH Lab Cert #
2378	1,2,4,-trichlorobenzene	70	ug/L	0.500	U /	EPA502.2	0.500 /	0.5	07/10/12		E83018
2380	cis-1,2-Dichloroethylene	70	ug/L	0.200	U /	EPA502.2	0.200 /	0.5	07/10/12		E83018
2955	Xylenes	10000	ug/L	0.500	U /	EPA502.2	0.500 /	0.5	07/10/12		E83018
2964	Dichloromethane	5	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2968	o-dichlorobenzene	600	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2969	Para-dichlorobenzene	75	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2976	Vinyl Chloride	1	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2977	1,1-Dichloroethylene	7	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2979	trans-1,2-Dichloroethylene	100	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2980	1,2-Dichloroethane	3	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2981	1,1,1-trichloroethane	200	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2982	Carbon tetrachloride	3	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2983	1,2-dichloropropane	5	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2984	Trichloroethylene	3	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2985	1,1,2-trichloroethane	5	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2987	Tetrachloroethylene	3	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2989	Monochlorobenzene	100	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2990	Benzene	1	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2991	Toluene	1000	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2992	Ethylbenzene	700	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018
2996	Styrene	100	ug/L	0.500	U /	EPA502.2	0.500	0.5	07/10/12		E83018

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Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

SYNTHETIC ORGANICS
62-550.310(2)(c)

Report Number / Job ID: 179363DW1
PWS ID (From Page 1): 3480327

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Extraction Date	Analysis Date	Analysis Time	DOH Lat Cert #
2005	Endrin	2	ug/L	0.0100	U	EPA505	0.0100	0.01	07/09/12	07/10/12		E83018
2010	Lindane	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	07/09/12	07/10/12		E83018
2015	Methoxychlor	40	ug/L	0.0500	U	EPA505	0.0500	0.1	07/09/12	07/10/12		E83018
2020	Toxaphene	3	ug/L	0.500	U	EPA505	0.500	1	07/09/12	07/10/12		E83018
2031	Dalapon	200	ug/L	0.100	U	EPA515.4	0.100	1	07/03/12	07/10/12		E83018
2032	Diquat	20	ug/L	0.400	U	EPA549.2	0.400	0.4	07/05/12	07/16/12		E83018
2033	Endothal	100	ug/L	9.00	U	EPA548.1	9.00	9	07/02/12	07/05/12		E83018
2034	Glyphosate	700	ug/L	6.00	U	EPA547	6.00	6		07/03/12		E83018
2035	Di(2-ethylhexyl) adipate	400	ug/L	0.600	U	EPA525.2	0.600	0.6	07/10/12	07/17/12		E83018
2036	Oxamyl (Vydate)	200	ug/L	2.00	U	EPA531.1	2.00	2.0		07/10/12		E83018
2037	Simazine	4	ug/L	0.0700	U	EPA507	0.0700	0.07	07/09/12	07/10/12		E83018
2039	Di(2-ethylhexyl)phthalate	6	ug/L	0.600	U	EPA525.2	0.600	0.6	07/10/12	07/17/12		E83018
2040	Picloram	500	ug/L	0.100	U	EPA515.4	0.100	0.1	07/03/12	07/10/12		E83018
2041	Dinoseb	7	ug/L	0.200	U	EPA515.4	0.200	0.2	07/03/12	07/10/12		E83018
2042	Hexachlorocyclopentadiene	50	ug/L	0.100	U	EPA505	0.100	0.1	07/09/12	07/10/12		E83018
2046	Carbofuran	40	ug/L	0.900	U	EPA531.1	0.900	0.9		07/10/12		E83018
2050	Atrazine	3	ug/L	0.100	U	EPA507	0.100	0.1	07/09/12	07/10/12		E83018
2051	Alachlor	2	ug/L	0.200	U	EPA507	0.200	0.2	07/09/12	07/10/12		E83018
2065	Heptachlor	0.4	ug/L	0.0100	U	EPA505	0.0100	0.04	07/09/12	07/10/12		E83018
2067	Heptachlor epoxide	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	07/09/12	07/10/12		E83018
2105	2,4-D	70	ug/L	0.100	U	EPA515.4	0.100	0.1	07/03/12	07/10/12		E83018
2110	2,4,5-TP	50	ug/L	0.200	U	EPA515.4	0.200	0.2	07/03/12	07/10/12		E83018
2274	Hexachlorobenzene	1	ug/L	0.100	U	EPA505	0.100	0.1	07/09/12	07/10/12		E83018
2306	Benzo(a)pyrene	0.2	ug/L	0.0200	U	EPA525.2	0.0200	0.02	07/10/12	07/17/12		E83018
2326	Pentachlorophenol	1	ug/L	0.0400	U	EPA515.4	0.0400	0.04	07/03/12	07/10/12		E83018
2383	PolychlorinatedbiphenylsPCB	0.5	ug/L	0.100	U	EPA505	0.100	0.1	07/09/12	07/10/12		E83018
2931	Dibromochloropropane	0.2	ug/L	0.0200	U	EPA504.1	0.0200	0.02	07/09/12	07/10/12		E83018
2946	Ethylene Dibromide	0.02	ug/L	0.0100	U	EPA504.1	0.0100	0.01	07/09/12	07/10/12		E83018
2959	Chlordane	2	ug/L	0.0100	U	EPA505	0.0100	0.2	07/09/12	07/10/12		E83018

Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab -- please type or print legibly)

 Lab Name: KNL Laboratory Services Florida DOH Certification #: E 84025 Certification Expiration Date: June Renewal

ATTACH CURRENT DOH ANALYTE SHEET*

 Address: P. O. Box 1833 Tampa, FL 33601 Phone #: 813-229-2879

 Were any analyses subcontracted? Yes No If yes, please provide DOH certification number(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION (to be completed by lab)

 Date Sample(s) Received: 07-12-12

 PWS ID (From Page 1): 3480327 Sample Number (From Page 1): 179363 DW1 Lab Assigned Report # or Job ID: 12.5881

Group(s) Analyzed & Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

Inorganics

-
- All Except Asbestos
-
-
- Partial
-
-
- Nitrate
-
-
- Nitrite
-
-
- Asbestos

Synthetic Organics

-
- All 30
-
-
- All Except Dioxin
-
-
- Partial
-
-
- Dioxin Only

Volatile Organics

-
- All 21
-
-
- Partial

Disinfection Byproducts

-
- Trihalomethanes
-
-
- Haloacetic Acids
-
-
- Chlorite
-
-
- Bromate

Radionuclides

-
- Single Sample
-
-
- Qtrly Composite**

Secondaries

-
- All 14
-
-
- Partial

LAB CERTIFICATION

 I, James Hayes, Laboratory Manager, do HEREBY CERTIFY
 (Print Name) (Print Title)

that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC):

 Signature: James W Hayes

 Date: 7-24-12

* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION & NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE OR NITRITE MCL EXCEEDANCES
 NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "<" are not acceptable.)

COMPLIANCE DETERMINATION (to be completed by DEP or DOH -- attach notes as necessary)

 Sample Collection & Analysis Satisfactory: Yes No Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____ Date Notified: _____ DEP/DOH Reviewing Official: _____

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 DEP Central Dist.

KNL Laboratory Services, Inc.
2742 N. Florida Ave.
P.O. Box 1833
Tampa, FL 33601

Ph: (813) 229-2879 Fax: (813) 229-0002

**Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format**

RADIONUCLIDES

62-550.310(6)

Client ID: Flowers-179363DW

KNL Report Number/Job ID: 12.5881

PWS ID(From Page 1): 3480322

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier *	Analytical Method	Lab MDL	RDL	Analysis Error	Analysis Date	Analysis Time	DOH Lab Certification #
4002	Gross Alpha (incl Uranium)	15 ***	pCi/L	2.0		EPA 900.0	1.1	3	0.9	07-18-12	0800	E84025
4020	Radium-226	5	pCi/L	0.6	U	EPA 903.0	0.6	1	0.4	07-17-12	1115	E84025
4030	Radium-228		pCi/L	1.0	U	EPA Ra-05	1.0	1	0.7	07-20-12	1105	E84025

Reporting Format 62-550.730
Effective January 1995, Revised February 2010.

- * Qualifier Codes: U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.
- ** If the result exceeds 5 pCi/L, a measurement for radium-226 is required. Uranium is reported separately under Contam ID 4006.
- *** If the results exceed 5 pCi/L, a measurement for radium-226 is required. If the results exceed 15 pCi/L, a measurement for Combined Uranium must be reported separately. The DEP/DOH will subtract the U value from the Gross Alpha (ID 4002) to determine compliance with MCL for Gross Alpha (Excl.U) of 15 pCi/L. If the result for ID 4002 Gross Alpha (incl.Uranium) does not exceed 15 pCi/L, Combined Uranium need not be measured nor reported.
- **** If using Uranium testing methods ASTM D5174 or EPA 200.8 only, then Analysis Error need not be reported.

Page 3 of 3

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DEP. Central Dist

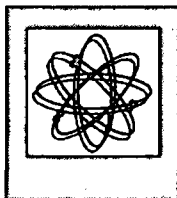
Test results meet all requirements of the NELAC standards. Contact person: Jim Hayes (813) 229-2879.

Approved by:

James W. Hayes
James W. Hayes
Laboratory Director

FLOWERS

**CHEMICAL
LABORATORIES
INCORPORATED**



Flowers Chemical Laboratories, Inc.
481 Newburyport Ave.
Altamonte Springs, FL 32701
Bus: 407-339-5984
Fax: 407-260-6110

Flowers Chemical Labs-South
West Park Industrial Plaza
571 N.W. Mercantile Pl., Ste. 111
Port St. Lucie, FL 34986
Bus: 772-343-8006
Fax: 772-343-8089

Flowers Chemical Labs-North
812 S.W. Harvey Greene Dr.
Madison, FL 32340
Bus: 850-973-6878
Fax: 850-973-6878

Flowers Chemical Labs-Keys
3980 Overseas Highway
Ste. 103
Marathon, FL 33050
Bus: 305-743-8598
Fax: 305-743-8598

Section III. Item #1.

www.flowerslabs.com

Client Town of Eatonville		Public Water System Name Town of Eatonville	
Address 307 E. Kennedy Ave Eatonville, FL 32751		PWS ID# 3480627	P.O. #
Phone 386 8015201		FCL Lab Coordinator	Kil #
Sampled By (PRINT): CTolman C13475		Public Water System Type: <input type="checkbox"/> Limited Use Commercial / Public <input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Community <input type="checkbox"/> Non-transient / Non-Community	
Sampler Signature <i>CTolman</i>		Date Sampled 7/2/12	

DRINKING WATER - Chain of Custody F.A.C. 62 - 550

ITEM NO.	SAMPLE DESCRIPTION	DATE	TIME	LAB NO.	NUMBER	PRESERVATIVES						ANALYTES										Field pH	Cl ₂ Res				
						NONE	NaOH	HNO ₃	HCl	Na ₂ S ₂ O ₃	Primary Inorg.	Secondaries	VOCs	SOCs	NO ₂ /NO ₃	TTHM	THAA	Pb/Cu	GA / RA228 RA228	Asbestos							
1	Plant Tap POE	7/2/12	1115	19360DWS1							X	X	X	X													
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											

RECEIVED
AUG 09 2012
DEP. Central Dist.

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
<i>CTolman</i>	7/2/12	12:05							<i>P. J. Fu</i>	7/2/12	12:05

• WHITE - Ship with Samples / To Be Returned with Results

• YELLOW - Field Copy / Retain For Your Records

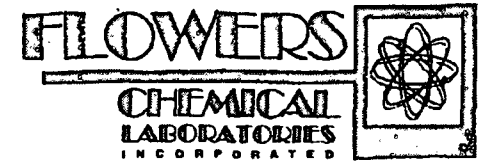
PDW 02-0

Rec'd 7/24/12 via email

Section III, Item #1.

Check Box That Applies To Your Location

- Flowers Chemical Laboratories, Inc.**
481 Newburyport Ave.
Altamonte Springs, FL 32701
Bus: 407-339-5984
Fax: 407-260-6110
- Flowers Chemical Labs-South**
West Park Industrial Plaza
571 N.W. Mercantile Pl., Ste. 111
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Fax: 772-343-8089
- Flowers Chemical Labs-North**
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Bus: 850-973-6878
Fax: 850-973-6878
- Flowers Chemical Labs-Keys**
3980 Overseas Highway, Ste. 103
Marathon, FL 33050
Bus: 305-743-8598
Fax: 305-743-8598



DOWNLOAD REPORTS, INVOICES AND CHAINS OF CUSTODY www.flowerslabs.com

Client KNL Labs	Project Name	P.O. #
Address	Client Contact	FAX
Phone	FCL Project Manager	E-MAIL
Requested Due Date 10 Day Standard OR [] [] []	Rush Charges May Apply	

RECEIVED
AUG 09 2012
DEP Central Dist.

Sampled By (PRINT): _____
 Pick-Up Fee \$ _____ Vehicle Surcharge \$ _____ Sampling Fee \$ _____

Sampler Signature _____ Date Sampled _____

GW - ground water DW - drinking water WW - wastewater
 SW - surface water SO - soil/solid SL - sludge HW - waste

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	PRESERVATIVES					ANALYSES REQUEST				COMMENTS	Total # Containers
						NONE	H ₂ SO ₄	HNO ₃	HCl	Na ₂ SO ₃	GA	Low 22.6	Rad 22.8	Vanadium		
1	179903 DW	7/2/12	1115	DW				✓			✓	✓			1 bottle spilled	2
2	179473 DW1	7/2	0835	DW				✓			✓	✓				2
3	178147 DW1	7/2/12	10:54	DW				✓			✓	✓				1
4	179904 DW1	7/10	1340	DW				✓			✓	✓				2
5	179944 DW1	7/10	0815	DW				✓			✓	✓			12.5881-89	2
6	179945 DW1	7/10	0645	DW				✓			✓	✓				2
7	179946 DW1	7/10	0908	DW				✓			✓	✓			1 bottle spilled	2
8	179947 DW1	7/10	1030	DW				✓			✓	✓				2
9	179969 DW1	7/11	0800	DW				✓			✓	✓			1 bottle spilled	2
10																

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• WHITE - Lab Copy - To Be Scanned • YELLOW - Client Copy Rev 04-08

APPENDIX C: 2017 Sanitary Survey – PWS No. 3480327



Florida Department of Environmental Protection

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Section III. Item #1.

RICK SCOTT
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

August 23, 2017

Katrina Gibson, Finance Director
Town of Eatonville
307 E. Kennedy BLVD
Eatonville, FL 32751
KGIBSON@TOWNOFEATONVILLE.ORG

Re: Compliance Assistance Offer
Town of Eatonville
PW 3480327
Orange County

Dear Ms. Gibson:

An inspection was conducted at your facility on June 20, 2017, under the authority of Section 403.091, Florida Statutes (F.S.). During this inspection, potential non-compliance with the requirements under Chapter 403, F.S., Chapter 62-555.350(2), Florida Administrative Code (F.A.C.), Chapter 62-555.360(2), F.A.C., and Chapter 62-555.320(14)(f), F.A.C. were observed. The purpose of this letter is to offer you compliance assistance as a means of resolving this/these matter(s).

Please see the attached inspection report for a full account of Department observations and recommendations. We request you review the item(s) of concern noted in the attached inspection report and respond in writing within **7 days** of receipt of this Compliance Assistance Offer. Your written response should either:

1. Describe what you have done or provide a time schedule to address the items of concern noted in the attached report (see "Deficiencies" section of the report)
2. Provide information that either mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for one of our inspectors to visit your facility to discuss the item(s) of concern.

It is the Department's desire that you are able to adequately address the items of concern so that this matter can be closed. Your failure to respond appropriately may result in the initiation of formal enforcement proceedings.

Town of Eatonville
Compliance Assistance Offer
Page 2 of 2
August 23, 2017

Section III. Item #1.

Please address your response and any questions to Dan Shideler of the Central District Office at 407-897-4133 or via e-mail at Daniel.Shideler@dep.state.fl.us. We look forward to your cooperation with this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'NH' followed by a stylized flourish.

Nathan Hess, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report (with attachments)
Cc: Damaris Persaud, Town of Eatonville (dpersaud@townofeatonville.org)
Abu Canady, Town of Eatonville (acanady@townofeatonville.org)

State of Florida
Department of Environmental Protection
Central District
SANITARY SURVEY REPORT

Plant Name TOWN OF EATONVILLE County Orange PWS ID # 3480327
Plant Location 332 East Kennedy Boulevard, Eatonville, FL 32751 Phone 407-623-8900
Owner Name Town of Eatonville Phone 407-623-8900
Owner Address 307 East Kennedy Boulevard, Eatonville, FL 32751
Contact Person Damaris Persaud Title Administrative Assistant Phone 407-623-8904
This Survey Date 06/20/17 Last Survey Date 12/23/14 Last Compliance Inspection Date 12/29/98

PWS TYPE: Community

PLANT CATEGORY & CLASS: 4C

MAX-DAY DESIGN CAPACITY: 1,440,000 gpd

PWS STATUS: Approved

RAW WATER SOURCE

GROUND; Number of Wells 2
 PURCHASED from PWS ID # _____
 Emergency Water Source _____
Emergency Water Capacity _____

STANDBY POWER SOURCE: Yes

Source Diesel generator
Capacity of Standby (kW) 150
Switchover: Automatic Manual
Hrs Operated Under Load 1 hr/wk.

What equipment does it operate?

Well Pumps N/A
 High Service Pumps _____
 Treatment Equipment _____

Satisfy avg. daily demand? Yes No Unknown

Audio-visual alarm? Yes No

Comments Unable to locate Audio-Visual Alarm.

TREATMENT PROCESSES IN USE

Aeration
Hypochlorination

SERVICE AREA CHARACTERISTICS

Municipality/city
Food Service: Yes No N/A

Number of Service Connections 779
Population Served 2,727 Basis X 3.5

OPERATION & MAINTENANCE LOG: Yes

Location Water Treatment Plant
Comments _____

CERTIFIED OPERATOR: Yes

Operator(s) & Certification Class-Number:
Carlos A. Tola A-3758
Carlos A. Tola Jr. C-13475

Hrs/day: Required 1 Actual 1

Days/wk: Required 5+2 Actual 5+2

Non-consecutive Days? Yes No N/A

Comments _____

MONTHLY OPERATION REPORTS (MORs)

MORs submitted regularly? Yes No N/A

Data missing from MORs? No Yes N/A

Average Day (from MORs) 344,448 gpd

Maximum Day (from MORs) 1,261,000 gpd 3/17

Comments _____

Flow Measuring Device Flow Meter

Meter Size & Type 10" Water Specialties

Date Last Calibrated 3/11

PLANS AND MAPS

Coliform Sampling Plan Yes No N/A
D/DBP Monitoring Plan Yes No N/A
Lead and Copper Plan Yes No N/A
Distribution System Map Yes No N/A
Emergency Response Plan Yes No N/A
Comments _____

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual Yes No
Preventive Maintenance Program Yes No
Flushing Program Yes No N/A
Records Yes No N/A
Isolation Valve Exercise Yes No N/A
Records Yes No N/A

Comments No blow-offs or auto flushers. Isolation valves are only checked at the time of a main break.

CROSS CONNECTION CONTROL

BFPAs Unknown # Tested Unknown
WWTP RPZ N/A Date Tested N/A
Written Plan No Date Unknown
Comments No Plan available for review.

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)	Well #2-West (AAI5809)	Well #1-East (AAI5812)	
Year Drilled	2005	2005	
Depth Drilled	601'	601'	
Drilling Method	Rotary	Rotary	
Type of Grout	Unknown	Unknown	
Static Water Level	45.3'	43.2'	
Pumping Water Level	Unknown	Unknown	
Design Well Yield	Unknown	Unknown	
Test Yield	1,650 gpm	1,650 gpm	
Actual Yield (if different than rated capacity)	990	Unknown	
Strainer	Unknown	Unknown	
Length (outside casing)	80'	62'	
Diameter (outside casing)	18"	18"	
Material (outside casing)	Black steel	Black steel	
Well Contamination History	None	None	
Is inundation of well possible?	No	No	
6' X 6' X 4" Concrete Pad	Yes	Yes	
SET BACKS	Septic Tank	N/A	N/A
	Reuse Water	N/A	N/A
	WW Plumbing	>100'	>100'
	Other Sanitary Hazard	None noted	None noted
PUMP	Type	Vertical turbine	Vertical turbine
	Manufacturer Name	Deming	Deming
	Model Number	XH10	XH10
	Rated Capacity (gpm)	500	500
	Motor Horsepower	40	40
Well casing 12" above grade?	Yes	Yes	
Well Casing Sanitary Seal	*Yes	*Yes	
Raw Water Sampling Tap	Yes	Yes	
Above Ground Check Valve	Yes	Yes	
Security	Yes	Yes	
Well Vent Protection	Yes	Yes	

COMMENTS Well # 1 has a power supply (Generac) generator.

* The piping associated with the eastern and western well is corroded.

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Stenner (2) Capacity 17 gpd
 Chlorine Feed Rate Both at 90% stroke
 Avg. Amount of Cl₂ gas used N/A
 Chlorine Residuals: Plant 2.2+ Remote 1.7
 Remote tap location Life Center Church
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points Aerator basin
 Booster Pump Info N/A
 Comments _____

FLUORIDATION

Chemical Used _____
 Strength _____
 Corrosion Noted _____ Plugging Noted _____
 Feeder Make/Model _____
 High Level Ventilation (acid) _____
 Acid carboys/day tank vented outside _____
 Designated Electrical Outlet (acid) _____
 Analytical Testing Equipment _____
 Anti-siphon Valves _____
 Residual Range _____
 Point of Application _____
 Emergency Eyewash _____
 Comments Currently offline

AERATION (Gases, Fe, & Mn Removal)

Type Cascade Capacity 1,000 gpm
 Aerator Condition Satisfactory
 Visible Algae Growth Unknown
 Protective Screen Condition Ok
 Frequency of Cleaning Annually
 Date Last Inspected/Cleaned 2010
 Comments Influent is chlorinated.
Observations were made at ground level.

STORAGE FACILITIES

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic / flow-through

Tank Type/Number	G	E
Capacity (gal)	200,000	200,000
Material	Concrete	Steel
Gravity Drain	Yes	Yes
By-Pass Piping	No	No
Protected Openings	Yes	Yes
Sight Glass or Level Indicator	Yes	Yes
PRV/ARV	N/A	N/A
Pressure Gauge	N/A	No
On/Off Pressure	18.5'/22'	17.5'/24'
Access Secured	Yes	Yes
Access Manhole	Yes	Yes
Tank Sample Tap Location	On tank	Standpipe
Date of Inspection	4/15	3/11
Date of Cleaning	4/15	3/11

Comments Personnel are notified via text in the event of a high/low water level alarm. Not verified during inspection.

HIGH SERVICE PUMPS

Pump Number	1-East	2-West	3-South
Type	Centrifugal	Centrifugal	Centrifugal
Make	Goulds	Goulds	Unknown
Model	3756	3656	Unknown
Capacity (gpm)	500	500	800
Motor HP	40	40	50
Date Installed	1981	1981	2000

Comments _____

DEFICIENCIES:

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
Finished drinking water tank(s) has been inspected by a licensed engineer but not within the required 5-year time period.	62.555.350(2)	Have future tank inspections completed at least once every 5 years.		No
No cross-connection control program. No Cross-Connection Control Plan (CCCP) on file.	62-555.360(2)	Establish and implement a cross-connection control program. Submit a CCCP.		Yes
No audio-visual alarm for power failure at site where standby power is required.	62-555.320(14)(f)	Provide an audio-visual alarm system that will activate in the event of any power failure.		No
Chlorine pump was not properly working	62.555.350(2)	Repair chlorinator	Operator repaired chlorine line during inspection	No
Well piping on eastern and western well is corroded. The piping associated with the 3 high service pumps is corroded.	62.555.350(2)	Sand and paint.		No

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2017 results have not been received.

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net**, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.
Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]

PWS ID # 3480327

Date 6/20/17

COMMENTS CONTINUED:

- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
 - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
 - The failure of a public water system to comply with applicable disinfection requirements; or
 - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature

Daniel Shideler

Printed Name

Environmental Specialist

Title

8/22/17

Date

Reviewer Signature

Nathan Hess

Printed Name

Environmental Manager

Title

8/23/17

Date

APPENDIX D: Storage Tank Condition Assessment

- Off-Site EST Inspection – February 18, 2018
- GST Inspection – April 18th, 2015



Inn Depth CO.
800 Belle Terre Pkwy, Unit 200 #122
Palm Coast, FL 32164
(386) 202-2771

In-Depth Inspection Report for

Town of Eatonville

Eatonville, FL



Elevated

Tower

200kg

Steel Welded On-Grade

Constructed Year: 1979

Inspection Date: 2/18/18

Person Completing Report: Z.R.

Supervisor: Z.R.

Team: Alpha

Engineer: M.A.



Scope of Work:

Our Dive team has performed and completed a full in water clean/sediment removal to the previously referenced tank. Sediment depths, ranging from 1/2" - 2", were removed from the tanks floor and/or walls. Upon the completion of the cleaning services, our surveying crew and inspection team has taken this structure under full evaluation (internally & externally) to prepared an "In Depth" visual inspection (NDT) of this referenced tank and its fixtures. The evaluation taken on the construction of this tank, complies with all related ANSI/AWWA codes. All NDT (non-destructive testing) have been performed up to code, in order to identify the structural integrity as well as the coating condition of this structure. All operable plumbing components have been inspected and evaluated within this report. All evaluations done, where performed in according to American Water Works Association (AWWA), NACE, SSPC, ASNT, ACI and AWS standards under the guidance of OSHA, DEP, and EPA regulations. Utilizing the necessary and proper procedures, the tank has been left internal in sanitary condition. Elements found prior to clean as well as details of the inspection and its findings have been included within the report below.

Summary of the Inspection:

Exterior Inspection

- 1. Unsecured perimeter (broken / obstructed gate)
- 2. Noticeable signs of possible leaking below bowl near wet riser
- 3. Heavy corrosive damaged noted on opened access hatch (remains unsecured)
- 4. Excessive infestation of wasps noted near cat walk (eliminated)
- 5. Heavily d-alloyed areas of the cat walk noted (unsafe)
- 6. Noticeable signs of coating failure noted throughout entirety of coating
- 7. Heavy signs of d-alloying noted on and around center vent

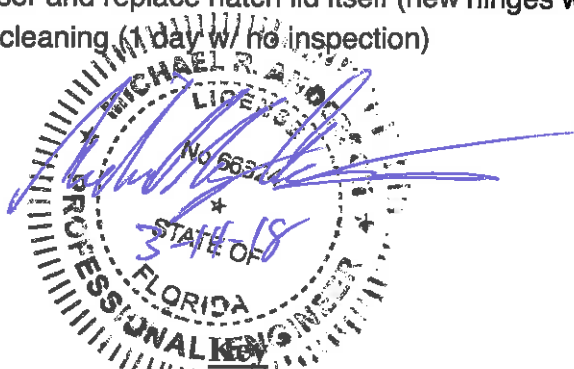
Interior Inspection

- 1. 1/2" - 2" sediment collectively noted on bowl / floor areas of tank (multi-type sediment)
- 2. 1/2" bio-film sediment remains on walls
- 3. Over coating w/ heavy sags noted throughout floor and walls
- 4. Loosely placed trash rack over center floor common Inlet / Outlet

Recommendations:

- 1. Routine Clean & Inspect every 3-5 years per AWWA recommendations
- 2. Exterior Blast & Re-coat
- 3. Replace top half of center vent due to severity of corrosion
- 4. Repair access hatch riser and replace hatch lid itself (new hinges will be needed)
- 5. Schedule internal wall cleaning (1 day w/ no inspection)

Engineer Seal:



- Excellent – Like new, no repairs needed
- Good – Cosmetic problems, repair if client wants
- Fair – Minor problems, repairs needed
- Poor – Major problems, fix now



Tank Evaluation

Tank Security

- Is the tank in a secured, gated area? Y N
- Are the access gates locked? Y N
- Is the tank equipped with a vandal guard on the access ladder(s)? Y N N/A
- Is the vandal guard locked? Y N N/A
- Are all of the access hatches locked? Y N
- Are all of the vents/discharge openings properly covered? Y N
- Does the tank exterior show any signs of trespass? Y N
- Is the area surrounding the tank well lit? Y N
- Are there any additional security features? Y N

Description: N/A

Additional Notes: Access hatch found to be offset & opened (NOW closed but remains unsecured)

Tank Condition

- Does the tank appear to be structurally sound? Y N
- Are there any unprotected openings in the tank (breaches, leaks, daylight, etc.) Y N
- When viewed from inside the tank, is there visible daylight around the hatches, vents, joints or other fixtures? Y N

Description: hatch riser & center vent

Tank Cleaning

Sediment depth before cleaning: 1/2" - 2" Sediment type: Bio-film / Iron / Manganeses
 List any objects found inside the tank during cleaning that may have introduced contamination:

None noted



In Depth CO. Exterior Inspection Report

Wall Panel Condition

Wall / Coating Condition:

- Dents? Y N
- Holes? Y N
- Signs of Leaking Y N
- Oxidation: Approx. 17%
- D-lamination: Approx. 33%
- Staining: Heavy
- Blistering: N/A
- Cracking: Moderate
- Chalking: Heavy
- Checking: Heavy
- Pinholes: N/A
- Saggs and Runs: Minor

Type: Corrosive
Type: None
Type: Coatings

Seams/Welds Condition: Good to Fair

Corrosion:

- None/NA
- Uniform Surface Corrosion: Approx. 17%
- Concentrated Cell Corrosion: To Extent of 10%
- Rust Noduling/Pitting: N/A
- Galvanic: N/A
- De-alloying: Extensive: < 1%
- Intergranular: To Extent of 3%
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Fair

Additional Notes: - failed coating
- heavy chalking & staining noted throughout
- areas of cat walk around tank showing heavy signs of d-alloying (unsafe)
- series of active radio antennas attached



Access Ladder Condition

Ladder Type: Steel Welded

- OSHA Adherence? Y N
- Vandal Guard Present? Y N
- Locked? Y N N/A
- Safety Climb Type: None
- OSHA Adherence? Y N

Coating Condition:

- Oxidation: To Extent of 10%
- D-lamination: Approx. 50%
- Staining: Heavy
- Blistering: N/A
- Cracking: Moderate
- Chalking: Heavy
- Checking: Heavy
- Pinholes: N/A
- Saggs and Runs: Moderate

Type: Corrosive
Type: None
Type: Coating

Seams/Welds Condition: Good to Fair

Corrosion:

- None/NA
- Uniform Surface Corrosion: Approx. 17%
- Concentrated Cell Corrosion: To Extent of 10%
- Rust Noduling/Pitting: N/A
- Galvanic: N/A
- De-alloying: Few Isolated: < 0.1%
- Intergranular: To Extent of 3%
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Depth: N/A

Standoff Supports Condition: Good to Fair

Overall Condition: Good to Fair

Additional Notes: - no existing safety climb noted
- 2 ladders noted (equal ratings)
- lower fixed ladder to support leg
- upper swivel ladder connected to vent



Riser Pipe Condition

Insulation present? Y N
 Dents? Y N
 Holes? Y N
 Signs of Leaking? Y N

Coating Condition:

- Oxidation: Approx. 33%
- D-lamination: Approx. 50%
- Staining: Heavy
- Blistering: N/A
- Cracking: Moderate
- Chalking: Heavy
- Checking: Heavy
- Pinholes: N/A
- Sags and Runs: N/A

Type: Corrosive
 Type: None
 Type: Coating

Seams/Welds Condition: Good to Fair

Corrosion:

- None/NA
- Uniform Surface Corrosion: Approx. 33%
- Concentrated Cell Corrosion: To Extent of 3% Depth: N/A
- Rust Noduling/Pitting: N/A
- Galvanic: N/A
- De-alloying: Extensive: < 1%
- Intergranular: To Extent of 10%
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Overall Condition: Good to Fair

Additional Notes:
 - possible signs of leaking below bowl on riser
 - heavy plant life over grown on lower portion
 - housing internal overflow



Support Structure Condition

Type Of Support Structure: 5 legs w/ turnbuckles
 Rod And Turnbuckle Present? Y N

Rod And Turnbuckle Tension: Good

Coating Condition:

- Oxidation: Approx. 33%
- D-lamination: Approx. 33%
- Staining: Heavy
- Blistering: N/A
- Cracking: Minor
- Chalking: Heavy
- Checking: Heavy
- Pinholes: N/A
- Sags and Runs: N/A

Type: Corrosive
 Type: None
 Type: Coating

Seams/Welds Condition: Good

Corrosion:

- None/NA
- Uniform Surface Corrosion: Approx. 33%
- Concentrated Cell Corrosion: Approx. 17% Depth: N/A
- Rust Noduling/Pitting: N/A
- Galvanic: N/A
- De-alloying: Extensive: < 1%
- Intergranular: To Extent of 10%
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Overall Condition: Good to Fair

Additional Notes:
 - all legs share equal ratings
 - existing antenna cables and brackets
 - support structure overall secure
 - heavy signs of coating failure



Foundation Condition

Foundation Exposed? Y N
 Foundation Coated? Y N

Concrete Condition:

- De-lamination: N/A
- Deterioration: Minor
- Pop-outs: Moderate
- Voids: N/A
- Unevenness: N/A
- Cracking: Minor
- Growth: Heavy
- Staining: Moderate
- Exposed Aggregate: Moderate
- Exposed Reinforcement: N/A
- Spalling: Minor

Type: Hairline
 Type: Plant
 Type: Bio

Seams/Welds Condition: Good

Anchor Bolts Present? Y N

Anchor Bolts Loose? Y N N/A

Corrosion on Anchor Bolts:

- None/NA
- Uniform Surface Corrosion: To Extent of 10%
- Concentrated Cell Corrosion: To Extent of 10%
- Rust Noduling/Pitting: N/A
- Galvanic: N/A
- De-alloying: Extensive: < 1%
- Intergranular: To Extent of 3%
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Good

Additional Notes:
 - over grown w/ plant life
 - all leg foundations share equal ratings
 - 6 foundations all together (including wet riser)



Float Level Indicator Condition

Pulley Condition: N/A
 Attached Properly? Y N

Cable Condition: N/A
 Attached Properly? Y N

Overall Hardware Condition: N/A

Hardware Corrosion:

- None/NA
- Uniform Surface Corrosion: N/A
- Concentrated Cell Corrosion: N/A
- Rust Noduling/Pitting: N/A
- Galvanic: N/A
- De-alloying: N/A
- Intergranular: N/A
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Depth: N/A

Overall Marker Condition: N/A
 Attached & Accurate? Y N

Marker Corrosion:

- None/NA
- Uniform Surface Corrosion: N/A
- Concentrated Cell Corrosion: N/A
- Rust Noduling/Pitting: N/A
- Galvanic: N/A
- De-alloying: N/A
- Intergranular: N/A
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Depth: N/A

Overall Condition: N/A

Additional Notes: * None noted *
 - no longer existing (old parts remain)

N/A



Roof Condition

Roof Type: Domed
 Dents/Low Spots? Y N
 Holes? Y N
 Signs of Day Light? Y N

Coating Condition:

- Oxidation: Approx. 33%
- D-lamination: Approx. 33%
- Staining: Heavy
- Blistering: N/A
- Cracking: Moderate
- Chalking: Heavy
- Checking: Heavy
- Pinholes: N/A
- Saggs and Runs: N/A

Type: Corrosive
 Type: None
 Type: Coating

Seams/Welds Condition: Fair

Corrosion:

- None/NA
- Uniform Surface Corrosion: Approx. 33%
- Concentrated Cell Corrosion: To Extent of 10%
- Rust Noduling/Pitting: N/A Depth: N/A
- Galvanic: N/A
- De-alloying: To Extent of 3%
- Intergranular: To Extent of 3%
- Stress Corrosion Cracking: Extensive: < 1%
- Erosion Corrosion: N/A

Cathodic Protection Plates Present? Y N N/A

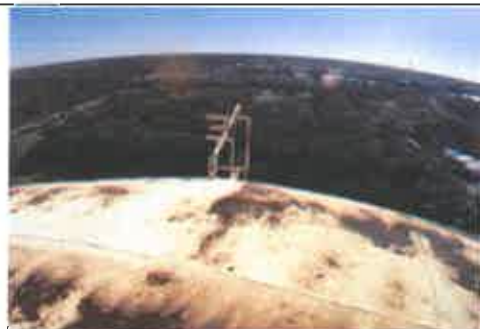
Sealed Edges: Y N N/A

Loose Plates? Y N N/A

Missing Plates? Y N N/A

Overall Condition: Poor

Additional Notes: - 100% coating failure
 - continuous d-lam & staining



Vent Condition

Vent Type:

Downturn: Y N N/A

Vent cap condition: Poor

Is the vent covered with screening? Y N

Type: Medium mesh

Vent screen condition: Fair

Are all openings sealed? Y N N/A

Coating Condition:

- Oxidation: Approx. 50%
- D-lamination: To Extent of 10%
- Staining: Heavy
- Blistering: N/A
- Cracking: Moderate
- Chalking: Heavy
- Checking: Heavy
- Pinholes: N/A
- Saggs and Runs: N/A

Type: Corrosive
 Type: None
 Type: Metal loss

Corrosion:

- None/NA
- Uniform Surface Corrosion: Approx. 17%
- Concentrated Cell Corrosion: Approx. 50%
- Rust Noduling/Pitting: N/A Depth: N/A
- Galvanic: N/A
- De-alloying: Approx. 33%
- Intergranular: Approx. 17%
- Stress Corrosion Cracking: To Extent of 10%
- Erosion Corrosion: N/A

Seams/Welds Condition: Poor

Overall Condition: Poor

Additional Notes: - 8" riser noted
 - hatch equipped with hinge to open (no lock)
 - exposed areas around seams and center cap
 - swivel ladder attach to lower penetration of vent



Access Hatch Condition

Hatch Type: Square
 Hatch Size: 32" x 32" approx.
 Riser Height: 3" approx.
 Hatch Locked? Y N
 Hinge Condition: Poor
 Gasket Present & Intact? Y N
 Does hatch have shoe box lid? Y N
 Dents/Low Spots/ Holes? Y N
 Signs of Day Light? Y N
Coating Condition:
 Oxidation: Approx. 33%
 D-lamination: Approx. 17%
 Staining: Moderate
 Blistering: N/A
 Cracking: Moderate
 Chalking: Moderate
 Checking: Moderate
 Pinholes: N/A
 Saggs and Runs: N/A

Type: Corrosive
 Type: None
 Type: Metal loss

Corrosion:
 None/NA
 Uniform Surface Corrosion: Approx. 17%
 Concentrated Cell Corrosion: Approx. 33%
 Rust Noduling/Pitting: N/A
 Galvanic: N/A
 De-alloying: To Extent of 10%
 Intergranular: To Extent of 3%
 Stress Corrosion Cracking: Extensive: < 1%
 Erosion Corrosion: N/A
Seams/Welds Condition: Select the Seams/Weld Condition
 Insects, Dirt or Debris Present Under Hatch? Y N
 Any irregularities or structural deficiencies? Y N
 Description: Excessive d-alloying and missing hinges
Overall Condition: Poor
Additional Notes:
 - hinges completely rusted away
 - hatch lid set back in-place & secured / single bolt
 - no gasket present
 - failed coating

Depth: N/A



Manway Condition

Coating Condition:
 Oxidation: To Extent of 3%
 D-lamination: N/A
 Staining: Moderate
 Blistering: N/A
 Cracking: N/A
 Chalking: Moderate
 Checking: Moderate
 Pinholes: N/A
 Saggs and Runs: N/A
 Davit Arm Condition: N/A
 Gasket Condition: Good to Fair
 Seam/Welds Condition: Good

Type: Corrosive
 Type: None
 Type: None

Corrosion:
 None/NA
 Uniform Surface Corrosion: To Extent of 3%
 Concentrated Cell Corrosion: To Extent of 3%
 Rust Noduling/Pitting: N/A
 Galvanic: N/A
 De-alloying: N/A
 Intergranular: Extensive: < 1%
 Stress Corrosion Cracking: N/A
 Erosion Corrosion: N/A
Overall Condition: Good
Additional Notes:
 - minor signs of deteriorating gaskets
 - bio plant growth noted over lower manway
 - 2 manways (upper & lower)

Depth: N/A



Overflow Structure Condition	
<p>Coating Condition:</p> <ul style="list-style-type: none"><input type="checkbox"/> Oxidation: N/A<input type="checkbox"/> D-lamination: N/A<input type="checkbox"/> Staining: N/A<input type="checkbox"/> Blistering: N/A<input type="checkbox"/> Cracking: N/A<input type="checkbox"/> Chalking: N/A<input type="checkbox"/> Checking: N/A<input type="checkbox"/> Pinholes: N/A<input type="checkbox"/> Sags and Runs: N/A <p>Corrosion:</p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> None/NA<input type="checkbox"/> Uniform Surface Corrosion: N/A<input type="checkbox"/> Concentrated Cell Corrosion: N/A<input type="checkbox"/> Rust Noduling/Pitting: N/A<input type="checkbox"/> Galvanic: N/A<input type="checkbox"/> De-alloying: N/A<input type="checkbox"/> Intergranular: N/A<input type="checkbox"/> Stress Corrosion Cracking: N/A<input type="checkbox"/> Erosion Corrosion: N/A	<p>Seams/Welds Condition: N/A</p> <p>Stand Off Supports Condition: N/A</p> <p>Discharge Opening:</p> <ul style="list-style-type: none">End Cap Sealed Properly? Y <input type="radio"/> N <input type="radio"/> N/A <input type="radio"/>Duckbill Valve Sealed Properly? Y <input type="radio"/> N <input type="radio"/> N/A <input type="radio"/>Flapper Valve Sealed Properly? Y <input type="radio"/> N <input type="radio"/> N/A <input type="radio"/>Screen 24 Mesh? Y <input type="radio"/> N <input type="radio"/> If no, size: N/ADirectly Connected to Sewer or Storm Drain? Y <input type="radio"/> N <input type="radio"/>Any Obstructions of Water Flow? Y <input type="radio"/> N <input type="radio"/>Height Above Ground for Discharge: N/AIs Discharge Spot Adequate? Y <input type="radio"/> N <input type="radio"/> <p>Overall Condition: N/A</p> <p>Additional Notes: * Internal only * - see internal ratings</p>
<h1>N/A</h1>	



In Depth CO. Interior Inspection Report

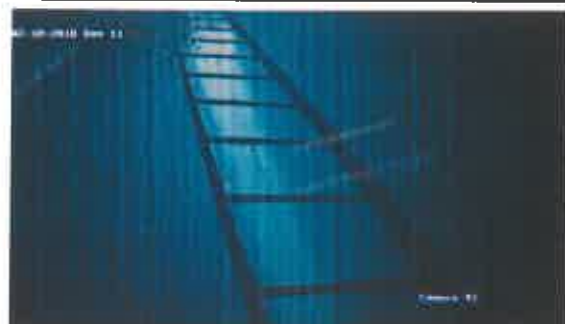
Roof Condition

<p>Coating Condition:</p> <p><input type="checkbox"/> Oxidation: N/A</p> <p><input type="checkbox"/> D-lamination: N/A</p> <p><input checked="" type="checkbox"/> Staining: Minor Type: Corrosive</p> <p><input type="checkbox"/> Blistering: N/A Type: None</p> <p><input type="checkbox"/> Cracking: N/A Type: None</p> <p><input type="checkbox"/> Chalking: N/A</p> <p><input type="checkbox"/> Checking: N/A</p> <p><input checked="" type="checkbox"/> Pinholes: Minor</p> <p><input checked="" type="checkbox"/> Saggs and Runs: Moderate</p> <p>Seams/Welds Condition: Excellent to Good</p> <p>Any irregularities or structural deficiencies? Y <input type="radio"/> N <input checked="" type="radio"/></p> <p>Description: None</p>	<p>Corrosion:</p> <p><input type="checkbox"/> None/NA</p> <p><input checked="" type="checkbox"/> Uniform Surface Corrosion: Extensive: < 1%</p> <p><input checked="" type="checkbox"/> Concentrated Cell Corrosion: Few Isolated: < 0.3%</p> <p><input type="checkbox"/> Rust Noduling/Pitting: N/A Depth: N/A</p> <p><input type="checkbox"/> Galvanic: N/A</p> <p><input type="checkbox"/> De-alloying: N/A</p> <p><input type="checkbox"/> Intergranular: N/A</p> <p><input type="checkbox"/> Stress Corrosion Cracking: N/A</p> <p><input type="checkbox"/> Erosion Corrosion: N/A</p> <p>Overall Condition: Excellent to Good</p> <p>Additional Notes:</p> <ul style="list-style-type: none"> - pr-existing pitting noted throughout - spatter & over spray noted throughout - corrosion localized near vent & seams
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Ladder Condition

<p>Ladder Location: 12:00</p> <p>Safety Climb Type: None</p> <p>Coating Condition:</p> <p><input checked="" type="checkbox"/> Oxidation: Extensive: < 1%</p> <p><input checked="" type="checkbox"/> D-lamination: Extensive: < 1%</p> <p><input checked="" type="checkbox"/> Staining: Moderate Type: Sediment</p> <p><input type="checkbox"/> Blistering: N/A Type: None</p> <p><input type="checkbox"/> Cracking: N/A Type: None</p> <p><input checked="" type="checkbox"/> Chalking: Minor</p> <p><input type="checkbox"/> Checking: N/A</p> <p><input checked="" type="checkbox"/> Pinholes: Minor</p> <p><input checked="" type="checkbox"/> Saggs and Runs: Moderate</p> <p>Seams/Welds Condition: Good</p>	<p>Corrosion:</p> <p><input type="checkbox"/> None/NA</p> <p><input checked="" type="checkbox"/> Uniform Surface Corrosion: Extensive: < 1%</p> <p><input checked="" type="checkbox"/> Concentrated Cell Corrosion: Extensive: < 1%</p> <p><input type="checkbox"/> Rust Noduling/Pitting: N/A Depth: N/A</p> <p><input type="checkbox"/> Galvanic: N/A</p> <p><input checked="" type="checkbox"/> De-alloying: None, or < 0.01%</p> <p><input type="checkbox"/> Intergranular: N/A</p> <p><input type="checkbox"/> Stress Corrosion Cracking: N/A</p> <p><input type="checkbox"/> Erosion Corrosion: N/A</p> <p>Overall Condition: Good</p> <p>Additional Notes:</p> <ul style="list-style-type: none"> - preexisting pitting noted throughout - 2 internal ladders noted (equal ratings) - access hatch & manway
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Floor Condition

Coating Condition:
 Oxidation: N/A
 D-lamination: To Extent of 3%
 Staining: Heavy Type: Sediment
 Blistering: Minor Type: Micro
 Cracking: N/A Type: None
 Chalking: N/A
 Checking: N/A
 Pinholes: Moderate
 Saggs and Runs: Heavy
 Any identified signs of leaking? Y N
Seams/Welds Condition: Good
 Sediment depth: 1/2" - 2"
 Any irregularities or structural deficiencies? Y N
 Description: None

Corrosion:
 None/NA
 Uniform Surface Corrosion: Few Isolated: < 0.1%
 Concentrated Cell Corrosion: N/A Depth: N/A
 Rust Noduling/Pitting: N/A
 Galvanic: N/A
 De-alloying: N/A
 Intergranular: N/A
 Stress Corrosion Cracking: N/A
 Erosion Corrosion: N/A
Overall Condition: Good
Additional Notes: - heavy signs of coating over pour noted throughout
 - pr-existing pitting noted throughout
 - deeper sediment founded around wet riser



Drain Condition

Drain Location: 9:00
 Drain Obstructed Y N
Coating Condition:
 Oxidation: N/A
 D-lamination: N/A
 Staining: Heavy Type: Sediment
 Blistering: N/A Type: None
 Cracking: N/A Type: None
 Chalking: N/A
 Checking: N/A
 Pinholes: Minor
 Saggs and Runs: Heavy
Seams/Welds Condition: Good

Corrosion:
 None/NA
 Uniform Surface Corrosion: N/A
 Concentrated Cell Corrosion: Extensive: < 1% Depth: N/A
 Rust Noduling/Pitting: N/A
 Galvanic: N/A
 De-alloying: N/A
 Intergranular: N/A
 Stress Corrosion Cracking: N/A
 Erosion Corrosion: N/A
Overall Condition: Excellent to Good
Additional Notes: - internally plugged
 - penetrate through lower floor
 - no signs of leaking



Wall Panel Condition

Coating Condition:

- Oxidation: N/A
- D-lamination: N/A
- Staining: Heavy Type: Sediment
- Blistering: Minor Type: Micro
- Cracking: N/A Type: None
- Chalking: N/A
- Checking: N/A
- Pinholes: Minor
- Saggs and Runs: Moderate

Seams/Welds Condition: Excellent to Good

Is biofilm present? Y N

Any irregularities or structural deficiencies? Y N

Description: None

Corrosion:

- None/NA
- Uniform Surface Corrosion: N/A
- Concentrated Cell Corrosion: N/A
- Rust Noduling/Pitting: N/A Depth: N/A
- Galvanic: N/A
- De-alloying: N/A
- Intergranular: N/A
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Overall Condition: Good

Additional Notes:

- spatter & over spray noted throughout
- pr-existing pitting noted
- heavy staining noted on upper walls
- bio-film / sediment noted on lower walls



Float Level Indicator Condition

Float Location: N/A

Float Condition: N/A

Float Sealed? Y N

Guidelines Condition: N/A

Attached Properly? Y N

Cable Condition: N/A

Attached Properly? Y N

Hardware Condition: N/A

Coating Condition: N/A

Corrosion:

- None/NA
- Uniform Surface Corrosion: N/A
- Concentrated Cell Corrosion: N/A
- Rust Noduling/Pitting: N/A Depth: N/A
- Galvanic: N/A
- De-alloying: N/A
- Intergranular: N/A
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Overall Condition: N/A

Additional Notes: * None noted*

N/A



Inlet Condition

Common Inlet/Outlet? Y N
 Location: Center floor
 Trash Rack Present? Y N
Coating Condition:
 Oxidation: Extensive: < 1%
 D-lamination: N/A
 Staining: Minor Type: Sediment
 Blistering: Minor Type: Micro
 Cracking: N/A Type: None
 Chalking: N/A
 Checking: N/A
 Pinholes: Minor
 Saggs and Runs: Heavy
Seams/Welds Condition: Good

Corrosion:
 None/NA
 Uniform Surface Corrosion: Extensive: < 1%
 Concentrated Cell Corrosion: Few Isolated: < 0.1%
 Rust Noduling/Pitting: N/A Depth: N/A
 Galvanic: N/A
 De-alloying: N/A
 Intergranular: N/A
 Stress Corrosion Cracking: N/A
 Erosion Corrosion: N/A
Overall Condition: Good
Additional Notes:
 - trash rack loosely in place
 - 6" riser penetrating through floor
 - heavy coating over pour
 - pr-existing coating noted



Outlet Condition

Location: Center floor
 Trash Rack Present? Y N
Coating Condition:
 Oxidation: N/A
 D-lamination: N/A
 Staining: N/A Type: None
 Blistering: N/A Type: None
 Cracking: N/A Type: None
 Chalking: N/A
 Checking: N/A
 Pinholes: N/A
 Saggs and Runs: N/A
Seams/Welds Condition: N/A

Corrosion:
 None/NA
 Uniform Surface Corrosion: N/A
 Concentrated Cell Corrosion: N/A
 Rust Noduling/Pitting: N/A Depth: N/A
 Galvanic: N/A
 De-alloying: N/A
 Intergranular: N/A
 Stress Corrosion Cracking: N/A
 Erosion Corrosion: N/A
Overall Condition: N/A
Additional Notes: * common Inlet / Outlet *

N/A



Dry Riser Condition

Stand-Off / Supports Present? **Y** **N**

Coating Condition:
 Oxidation: N/A
 D-lamination: N/A
 Staining: N/A
 Blistering: N/A
 Cracking: N/A
 Chalking: N/A
 Checking: N/A
 Pinholes: N/A
 Saggs and Runs: N/A

Seams/Welds Condition: N/A
 Any irregularities or structural deficiencies? **Y** **N**
 Description: N/A

Corrosion:
 None/NA
 Uniform Surface Corrosion: N/A
 Concentrated Cell Corrosion: N/A
 Rust Noduling/Pitting: N/A
 Galvanic: N/A
 De-alloying: N/A
 Intergranular: N/A
 Stress Corrosion Cracking: N/A
 Erosion Corrosion: N/A

Overall Condition: N/A
 Additional Notes: * none noted *

Depth: N/A

N/A

Overflow Condition

Overflow Location: Center

Coating Condition:
 Oxidation: Extensive: < 1%
 D-lamination: To Extent of 3%
 Staining: Heavy
 Blistering: Minor
 Cracking: N/A
 Chalking: N/A
 Checking: N/A
 Pinholes: Minor
 Saggs and Runs: Heavy

Seams/Welds Condition: Good
 Is anything blocking the flow? **Y** **N**
 Description: N/A

Corrosion:
 None/NA
 Uniform Surface Corrosion: Extensive: < 1%
 Concentrated Cell Corrosion: Extensive: < 1%
 Rust Noduling/Pitting: Extensive: < 1%
 Galvanic: N/A
 De-alloying: Few Isolated: < 0.3%
 Intergranular: N/A
 Stress Corrosion Cracking: N/A
 Erosion Corrosion: Extensive: < 1%

Overall Condition: Good
 Additional Notes: - 3 upper stand off supports into roof
 - pr-existing pitting noted
 - penetrates down center floor into wet riser
 - mid water corrosion noted
 - d-alloying noted around opening

Depth: 1/16"



Manway Condition

Manway Location: 6:00

Coating Condition:

- Oxidation: N/A
- D-lamination: N/A
- Staining: Minor Type: Sediment
- Blistering: Minor Type: Micro
- Cracking: N/A Type: None
- Chalking: Minor
- Checking: N/A
- Pinholes: Minor
- Saggs and Runs: Minor

Seal: Bolted Pressurized N/A

Gasket Condition: Good

Seam/Welds Condition: Good

Corrosion:

- None/NA
- Uniform Surface Corrosion: Few Isolated: < 0.1%
- Concentrated Cell Corrosion: N/A
- Rust Noduling/Pitting: N/A Depth: N/A
- Galvanic: N/A
- De-alloying: N/A
- Intergranular: N/A
- Stress Corrosion Cracking: N/A
- Erosion Corrosion: N/A

Overall Condition: Good

Additional Notes: - manway equipped with ladder
 - minor signs of deterioration noted on gasket
 - spatter noted on welds



Additional Pictures



Roof



Plaque

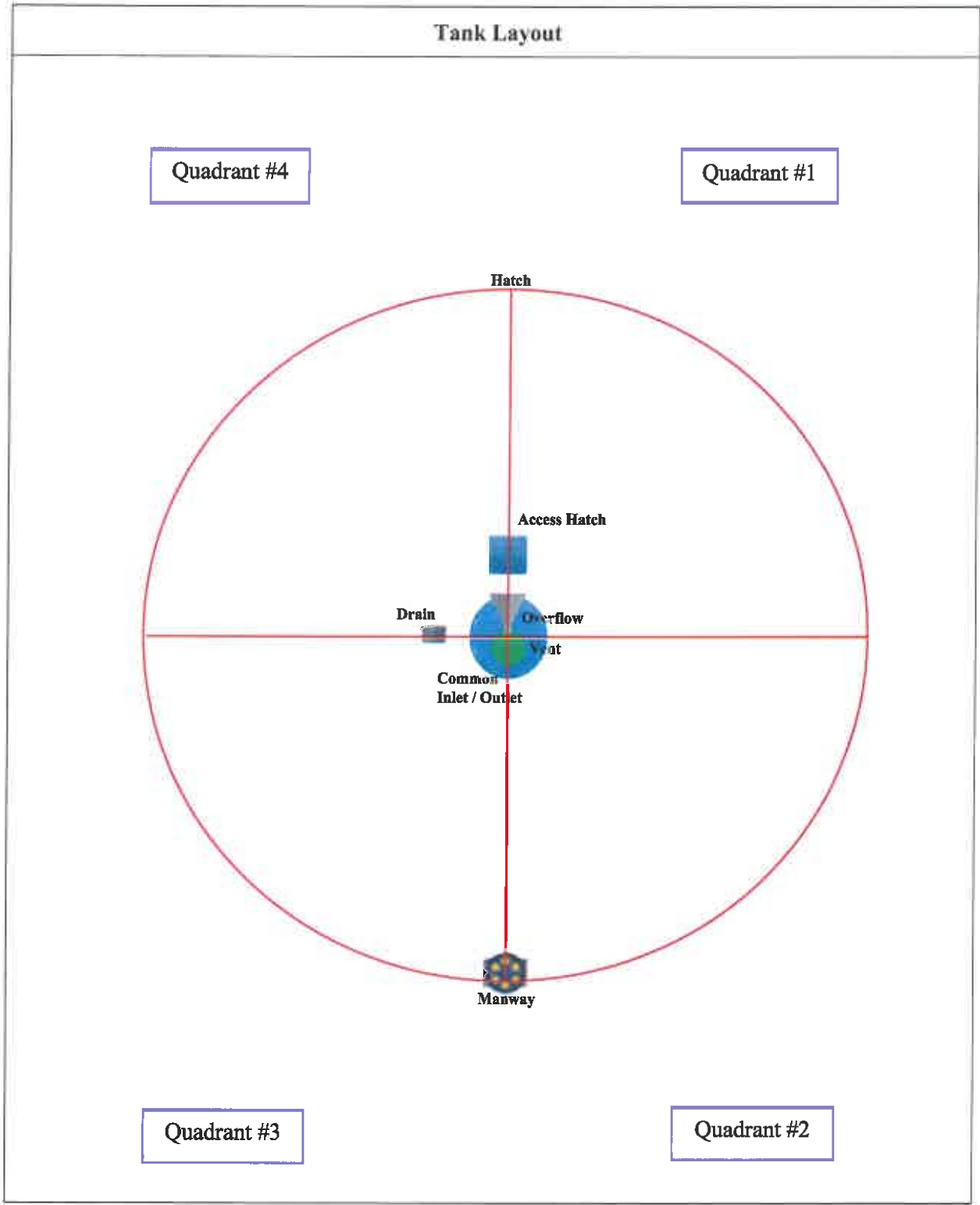


Overflow



Bowl







Tank Inspection Report

Town of Eatonville
Tank No. 1
Liquid Engineering Corporation 48491

Tank Name:	Tank No. 1	Tank Type:	On-grade
City:	Eatonville	Tank Capacity:	200KG
State:	FL	Type of Construction:	Concrete
Built By:	Crom Corporation	Year Built:	Unknown
Cleaned and Inspected By: LEC Maintenance Team 12 – Team Leader Robert Heaton			
Project Date: April 18 th , 2015			

GENERAL

This report is a supplement to the visual and video inspection undertaken for the Town of Eatonville by Liquid Engineering Corporation of Billings, MT. Tank No. 1 is an on-grade concrete storage tank. The tank has a 200,000-gallon capacity, an overall height of 32' and is approximately 32' in diameter.



STANDARDS

The inspection of this tank was performed by a dive maintenance technician using surface supplied air, totally encapsulated in a sealed dry suit mated to a sealed dry divers hard hat and conducted in accordance with all applicable OSHA, EPA, AWWA, NACE, SSPC and ADC requirements and/or recommendations.

The inspection consisted of a visual observation of the tank's interior and exterior components and coating system. The tank was not drained for the inspection and all interior assessment data was recorded using real time video with live voice narration. Exterior assessment data was documented using digital still photographs.

CONDITION OBSERVATIONS

Conditions noted during the field inspection are documented in the following pages and are supplemented with color photographs at the end of the report. Condition ratings used to describe the inspection findings are annotated as follows:

Excellent:	No deficiencies noted.
Good:	Minor deficiencies noted. Item is functioning as designed.
Fair:	Major deficiencies noted. Item is in need of repairs to continue functioning as designed.
Poor:	Repair or replacement required immediately. Item may no longer function as designed.

CONTAMINATION, HEALTH & SAFETY REPORT

Contamination and Health

- **Air Vents and Screens** – The tank is equipped with an aeration unit and three integrated vents that also act as overflows. Each appears to be in good condition, but the screen on at least one of the integrated vents has failed and none of the vents are equipped with vent security shrouds. Absence of a Vent Security Shroud can allow the intentional introduction of hazardous chemical or biological contaminants. (See *Summary for Recommendations*)
- **Hatches** – The square access hatch is properly sealed and secured.
- **Overflow** – As noted above, the integrated vent / overflow structures are in good condition.
- **Manway** – The manway is appears to be properly sealed and in good condition.
- **Roof to Wall Joint** – This joint is properly sealed and in good condition.
- **Roof / Wall Integrity** – No holes or standing water are present on the roof or walls, but minor cracking is noted in both locations.
- **Water Clarity** – The water is slightly cloudy, but no odor or surface debris is noted.

Facility Safety Compliance

- **External Ladder** – The exterior ladder measures 30' high and is in good condition overall. There are no missing or damaged rungs, but it is not equipped with a locking vandal guard.
- **Rail & Rungs** – The rungs are spaced at 12" and have a 9" toe depth. The rails are 2" in width and thickness, and the rail to rail span is 20".
- **Safety Climb** – The tank is equipped with a rail style fall protection system. All components are securely attached and it appears to be safe for use.
- **Hatch** – The primary access way measures approximately 33" square. The hatch lip is 6" and the overlap is 2".
- **Manway** – The manway measures 30" x 18". It has a bolted support and appears to be in good condition.

INTERIOR RESERVOIR INSPECTION REPORT

Interior Reservoir Roof

- **Vents** – The interior portion of each of the vent / overflow structures appears to be in good condition.
- **Roof Slabs** – Staining, cracking and spotty corrosion are noted in each quadrant.
- **Hatch** – The interior portion of the access hatch is in also good condition.
- **Coating** – The coating on the roof exhibits staining and corrosion bleed, as well as isolated delamination in Quadrant 2, but is in satisfactory condition overall.

Interior Reservoir Walls

- **Wall to Roof Joint** – The roof to wall joint is properly sealed and in good condition. Cosmetic staining and cracking with efflorescence are present in each Quadrant. Efflorescence is simply mineral material leaching through the concrete; it will not affect the quality of the water within the reservoir.
- **Wall Structure** – The wall structure is also in good condition overall. As is the case with the joint, staining and cracking with efflorescence are reported.
- **Baffle Wall** – The tank is equipped with a single cinder block baffle wall. In addition to staining, there are several areas below the injector line ports that exhibit erosion of up to 3".
- **Ladder Structure** – The interior ladder is also in fair condition. The uppermost anchor points are no longer attached and the fall protection rail is broken above the water line and heavily corroded below. It should not be used to access the tank when drained.
- **Leaking** – No indications of leaking are present from the wall areas.

Interior Reservoir Floor

- **Perimeter Joint** – The curved joint shows staining from the mineral content in the water, but is otherwise in very good condition.
- **Floor Slabs** – Prior to beginning the inspection, the accumulated sediment was removed from the floor allowing for a full evaluation of the slabs. The sediment varied in depth from ¼" around the perimeter to nearly 4 ½" at the center of the tank. Aside from moderate to heavy staining, no irregularities are present. The inspector also removed several pieces of concrete that spalled away from one of the integrated vents.
- **Leaking** – No signs of leaking are noted from the floor areas.

Interior Reservoir Plumbing Components

- **Inlet Structure** – The inlet structure is located in Quadrant 1. It consists of a 14" floor penetration that rises through the roof and into the aeration unit. The water is returned to the water column through two roof penetrations. Heavy corrosion is present, mainly below the water line, but the inlet actively filled the reservoir during the inspection and appears to be operating as designed. The inspector also notes coating delamination on the upper portion of the structure.
- **Outlet Structure** – The outlet is also positioned in Quadrant 1. The 16" component penetrates the floor of the tank and has a rise of 12". Moderate staining and minor corrosion are noted, but it appears to be in good working order.
- **Manway** – The manway penetrates the lower wall of the reservoir in Quadrant 1 and is in fair condition. Moderate corrosion is present and the gasket material, while intact, exhibits signs of deterioration.
- **Overflow** – The integrated overflow / vent structures are positioned near the roof to wall joint in Quadrants 1, 3 and 4. They measure 22" wide and are 16" high. Each appears to be in good condition, but as previously noted, at least one of the screens has failed.
- **Drain** – There is a single 8" floor drain located near the 7 o'clock position. Light staining is present, but it is otherwise in good condition.
- **Injector** – There is a chemical injector line that penetrates the lower wall. The 3" penetration reduces to a 2" PVC which is attached to the baffle wall. Aside from moderate staining, it appears to be in good condition.
- **Leaking** – No leaking is detected from any of the plumbing components.

EXTERIOR RESERVOIR INSPECTION REPORT**Exterior Reservoir Roof**

- **Roof** – In addition to staining, which is present in each quadrant, cracking and exposed reinforcement are noted in Quadrant 2, 3 and 4.
- **Vents** – As noted above, the vent structures and aeration unit appear to be in good condition.
- **Roof Hatch** – Aside from minor cracking of the concrete, the primary access hatch, lock and hasp and hinges are in good condition. It is equipped with a gasket which is intact and remains pliable.
- **Coating** – The exterior coating appears to be in good condition overall with organic staining noted throughout.

Exterior Reservoir Walls

- **Roof to Wall Joint** – The joint also shows staining, cracking with efflorescence and growth, but is otherwise in good condition.
- **Wall Structure** – The wall structure is in similar condition. Cracking with efflorescence, staining and growth are noted in each quadrant.
- **Access Ladder** – The primary access ladder and hardware appear to be securely attached and safe for use.
- **Coating** – The exterior paint on the walls also exhibits minor staining.

Foundation

- **General appearance** – The footing / foundation is buried and could not be evaluated, but no indications of leaking or ground subsidence are present.

GENERAL TANK SECURITY**Security**

- **Perimeter** – The area surrounding the tank is well lit to deter vandalism.
- **Fencing** – The tank is surrounded by a security fence which was locked upon the crew's arrival.
- **Ladder** – The access ladder is not equipped with a proper vandal guard.
- **Vent** - The vents are not equipped with vent security shrouds to prevent the intentional introduction of chemical or biological contaminants. This presents significant water tank security vulnerability and should be addressed as a priority. To the best of LEC's knowledge the only known practical and cost-effective security solution is the Omega Vent Security Shroud, evaluated by the EPA and found on its website. Unless you request otherwise, LEC will have ARC's Omega Vent Security Shroud manufacturer contact you in order to provide detailed information to assist you in addressing this security vulnerability.
- **Hatch** – The hatch location is equipped with a lock and an electronic monitoring device.

SUMMARY

The **INTERIOR** of the tank appears to be in good condition overall. Recommendations include:

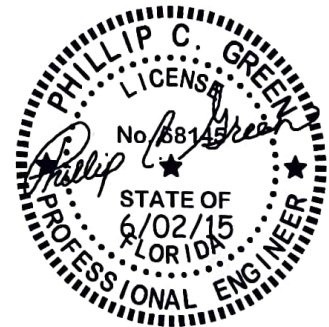
- Monitor the levels of corrosion on the interior roof slabs.
- When the reservoir is next taken out of service, the manway and gasket should be replaced, and the interior ladder should be repaired.
- Monitor the areas of erosion on the baffle wall below the injector line ports.

The tank **EXTERIOR** of the reservoir also appears to be in good condition. Recommendations follow:

- **The compromised vent screen(s) should be immediately replaced to prevent the areas from becoming a point of ingress for insects, birds or other contaminants.**
- Installation of a vent security shroud is recommended for the vents. See "Security" section above for details.
- The areas of exposed reinforcement with corrosion on the exterior roof should be prepped and repaired appropriately. In addition, the tank should be power-washed to improve aesthetics and extend the life of the coating.
- In an effort to limit access to the roof and hatch areas, a locking vandal guard should be installed on the exterior ladder.

At a minimum, the utility should continue to clean and inspect this tank every three years. Preventive maintenance of this nature will ensure that the identified discrepancies in this tank are closely monitored and will provide a record of care in the future.

(As a disinterested third-party inspector, LEC does not engage in the construction or rehabilitation of potable water storage facilities. LEC will, in its commitment to our clients and upon request, identify to the client relevant entities that are professionally reliable and best capable of completing the recommended work, or assist the client in research tips that will enable them to make a decision that best serves the utility.)



APPENDIX A

Photographs

Primary Access Ladder (note lack of vandal guard)



Primary Access Hatch (note cracking)



Failed Vent Screen



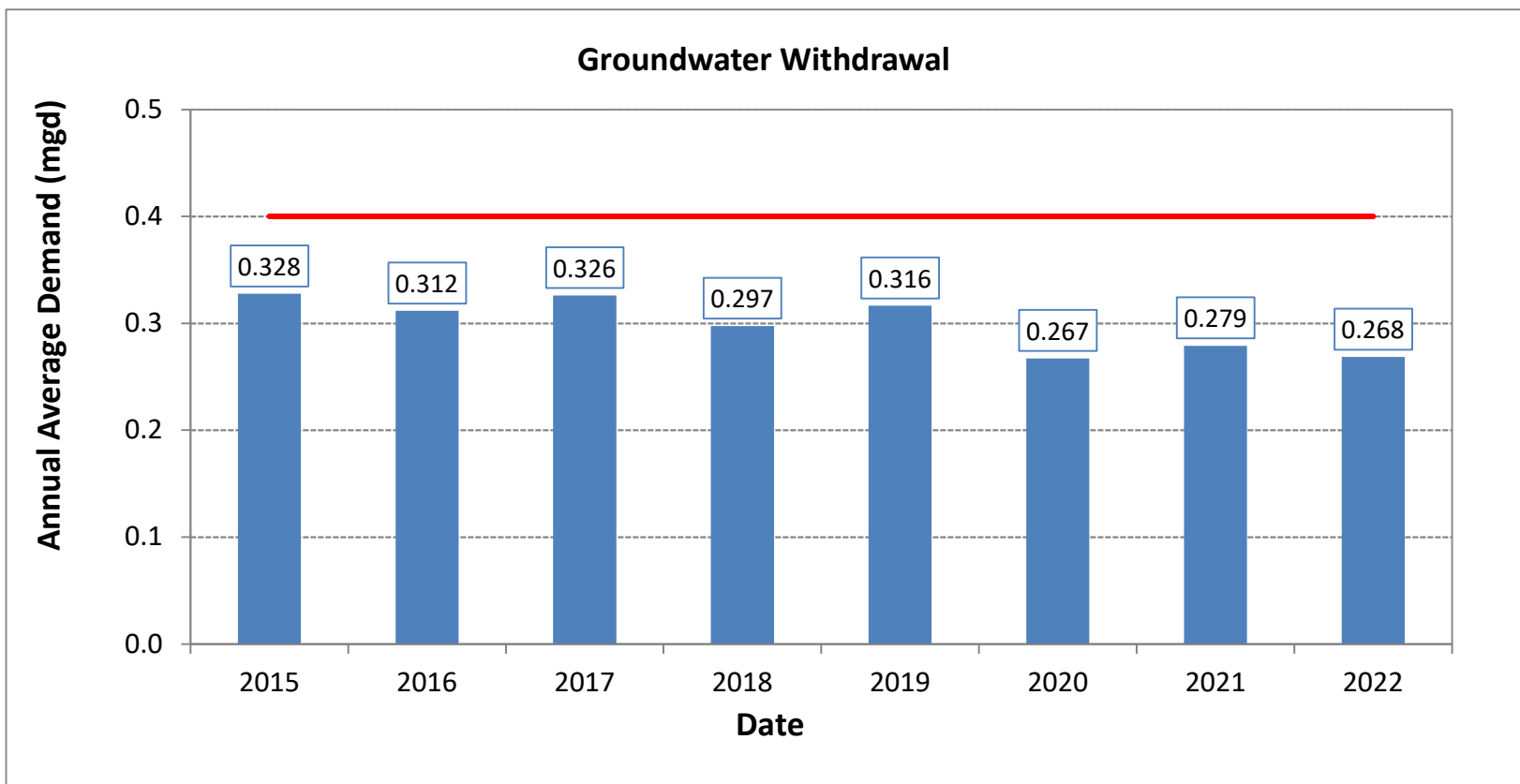
Staining and Cracking with Efflorescence on Exterior Wall



APPENDIX E: Growth Projections

	A	B	C	D	E	F	G	H
1	EN-50 Verified Values		WTP No. 1					
2			Well No. 3	Well No. 4	Total	Average Day Demand	CUP Limit	% CUP Capacity
3			38634	38635	(gallons)	(MGD)	(MGD)	(%)
4		Date						
5	2015	Jan-15	4,774,500	4,774,500	9,549,000	0.308	0.4	77%
6		Feb-15	4,134,500	4,134,500	8,269,000	0.295	0.4	74%
7		Mar-15	4,863,000	4,863,000	9,726,000	0.314	0.4	78%
8		Apr-15	4,610,500	4,610,500	9,221,000	0.307	0.4	77%
9		May-15	5,357,500	5,357,500	10,715,000	0.346	0.4	86%
10		Jun-15	5,462,500	5,462,500	10,925,000	0.364	0.4	91%
11		Jul-15	6,181,450	6,181,450	12,362,900	0.399	0.4	100%
12		Aug-15	5,432,000	5,432,000	10,864,000	0.350	0.4	88%
13		Sep-15	4,747,500	4,747,500	9,495,000	0.317	0.4	79%
14		Oct-15	4,919,000	4,919,000	9,838,000	0.317	0.4	79%
15		Nov-15	4,641,000	4,641,000	9,282,000	0.309	0.4	77%
16		Dec-15	4,649,000	4,649,000	9,298,000	0.300	0.4	75%
17	2016	Jan-16	4,382,050	4,382,050	8,764,100	0.283	0.4	71%
18		Feb-16	5,461,750	5,461,750	10,923,500	0.377	0.4	94%
19		Mar-16	5,293,795	5,293,795	10,587,590	0.342	0.4	85%
20		Apr-16	4,708,500	4,708,500	9,417,000	0.314	0.4	78%
21		May-16	4,580,450	4,580,450	9,160,900	0.296	0.4	74%
22		Jun-16	4,274,000	4,274,000	8,548,000	0.285	0.4	71%
23		Jul-16	4,965,000	4,965,000	9,930,000	0.320	0.4	80%
24		Aug-16	4,571,000	4,571,000	9,142,000	0.295	0.4	74%
25		Sep-16	4,869,500	4,869,500	9,739,000	0.325	0.4	81%
26		Oct-16	4,767,500	4,767,500	9,535,000	0.308	0.4	77%
27		Nov-16	4,210,000	4,210,000	8,420,000	0.281	0.4	70%
28		Dec-16	4,929,000	4,929,000	9,858,000	0.318	0.4	80%
29	2017	Jan-17	4,573,000	4,573,000	9,146,000	0.295	0.4	74%
30		Feb-17	6,888,000	6,888,000	13,776,000	0.492	0.4	123%
31		Mar-17	5,276,000	5,276,000	10,552,000	0.340	0.4	85%
32		Apr-17	5,358,500	5,358,500	10,717,000	0.357	0.4	89%
33		May-17	6,011,000	6,011,000	12,022,000	0.388	0.4	97%
34		Jun-17	5,254,500	5,254,500	10,509,000	0.350	0.4	88%
35		Jul-17	5,197,000	5,197,000	10,394,000	0.335	0.4	84%
36		Aug-17	4,548,300	4,548,300	9,096,600	0.293	0.4	73%
37		Sep-17	4,181,500	4,181,500	8,363,000	0.279	0.4	70%
38		Oct-17	4,131,500	4,131,500	8,263,000	0.267	0.4	67%
39		Nov-17	4,205,000	4,204,000	8,409,000	0.280	0.4	70%
40		Dec-17	3,862,850	3,862,850	7,725,700	0.249	0.4	62%
41	2018	Jan-18	4,170,000	4,170,000	8,340,000	0.269	0.4	67%
42		Feb-18	3,739,000	3,739,000	7,478,000	0.267	0.4	67%
43		Mar-18	4,283,500	4,283,500	8,567,000	0.276	0.4	69%
44		Apr-18	4,468,000	4,468,000	8,936,000	0.298	0.4	74%
45		May-18	4,786,500	4,786,500	9,573,000	0.309	0.4	77%
46		Jun-18	4,591,000	4,591,000	9,182,000	0.306	0.4	77%
47		Jul-18	5,135,500	5,135,500	10,271,000	0.331	0.4	83%
48		Aug-18	5,021,000	5,021,000	10,042,000	0.324	0.4	81%
49		Sep-18	2,776,300	2,776,300	5,552,600	0.185	0.4	46%
50		Oct-18	4,908,500	4,908,500	9,817,000	0.317	0.4	79%
51		Nov-18	4,816,000	4,816,000	9,632,000	0.321	0.4	80%
52		Dec-18	5,575,000	5,575,000	11,150,000	0.360	0.4	90%
53	2019	Jan-19	4,955,000	4,955,000	9,910,000	0.320	0.4	80%
54		Feb-19	4,043,850	4,043,850	8,087,700	0.289	0.4	72%
55		Mar-19	4,252,500	4,252,500	8,505,000	0.274	0.4	69%
56		Apr-19	4,289,000	4,289,000	8,578,000	0.286	0.4	71%
57		May-19	5,960,800	5,960,800	11,921,600	0.385	0.4	96%
58		Jun-19	5,830,000	5,830,000	11,660,000	0.389	0.4	97%
59		Jul-19	6,040,500	6,040,500	12,081,000	0.390	0.4	97%
60		Aug-19	5,274,432	5,274,432	10,548,864	0.340	0.4	85%
61		Sep-19	4,482,000	4,482,000	8,964,000	0.299	0.4	75%
62		Oct-19	5,231,000	5,231,000	10,462,000	0.337	0.4	84%
63		Nov-19	4,975,000	4,975,000	9,950,000	0.332	0.4	83%
64		Dec-19	2,403,150	2,403,150	4,806,300	0.155	0.4	39%
65	2020	Jan-20	2,769,500	2,769,500	5,539,000	0.179	0.4	45%
66		Feb-20	3,673,550	3,673,550	7,347,100	0.253	0.4	63%
67		Mar-20	4,436,500	4,436,500	8,873,000	0.286	0.4	72%
68		Apr-20	4,367,500	4,367,500	8,735,000	0.291	0.4	73%
69		May-20	4,470,000	4,470,000	8,940,000	0.288	0.4	72%
70		Jun-20	3,685,500	3,685,500	7,371,000	0.246	0.4	61%
71		Jul-20	4,589,500	4,589,500	9,179,000	0.296	0.4	74%
72		Aug-20	4,730,750	4,730,750	9,461,500	0.305	0.4	76%
73		Sep-20	3,704,000	3,704,000	7,408,000	0.247	0.4	62%
74		Oct-20	4,958,700	4,958,700	9,917,400	0.320	0.4	80%
75		Nov-20	3,652,500	3,652,500	7,305,000	0.244	0.4	61%
76		Dec-20	3,850,000	3,850,000	7,700,000	0.248	0.4	62%
77	2021	Jan-21	4,325,250	4,325,250	8,650,500	0.279	0.4	70%
78		Feb-21	3,480,750	3,480,750	6,961,500	0.249	0.4	62%
79		Mar-21	4,021,500	4,021,500	8,043,000	0.259	0.4	65%
80		Apr-21	3,840,500	3,840,500	7,681,000	0.256	0.4	64%
81		May-21	4,646,350	4,646,350	9,292,700	0.300	0.4	75%
82		Jun-21	4,439,000	4,439,000	8,878,000	0.296	0.4	74%
83		Jul-21	4,247,000	4,247,000	8,494,000	0.274	0.4	69%
84		Aug-21	6,783,500	6,783,500	13,567,000	0.438	0.4	109%
85		Sep-21	3,572,500	3,572,500	7,145,000	0.238	0.4	60%
86		Oct-21	3,985,500	3,985,500	7,971,000	0.257	0.4	64%
87		Nov-21	3,548,000	3,548,000	7,096,000	0.237	0.4	59%
88		Dec-21	4,011,500	4,011,500	8,023,000	0.259	0.4	65%
89	2022	Jan-22	3,427,500	3,427,500	6,855,000	0.221	0.4	55%
90		Feb-22	3,306,000	3,306,000	6,612,000	0.236	0.4	59%
91		Mar-22	3,700,000	3,700,000	7,400,000	0.239	0.4	60%
92		Apr-22	3,718,000	3,718,000	7,436,000	0.248	0.4	62%
93		May-22	4,299,000	4,299,000	8,598,000	0.277	0.4	69%
94		Jun-22	4,201,500	4,201,500	8,403,000	0.280	0.4	70%
95		Jul-22	5,210,250	5,210,250	10,420,500	0.336	0.4	84%
96		Aug-22	4,329,500	4,329,500	8,659,000	0.279	0.4	70%
97		Sep-22	4,512,000	4,512,000	9,024,000	0.301	0.4	75%
98		Oct-22	4,243,500	4,243,500	8,487,000	0.274	0.4	68%
99		Nov-22	4,035,043	4,035,043	8,070,086	0.269	0.4	67%
100		Dec-22	4,012,500	4,012,500	8,025,000	0.259	0.4	65%
101		Jan-23						
102								
103		Source:	SJRWMD Reports					

	A	B	C	D	E	F	G	H
1		Parameter	WTP No. 1		TOTAL		CUP Allocations	
2			Well No. 3	Well No. 4	Annual Average Daily Demand	Peak Month	Annual Average Daily Limit	Annual Average Daily Limit
3	Year		(mgd)	(mgd)	(mgd)	(mgd)	(mgd)	(%)
4		Average (5-yr) 2018-2022	0.143	0.143	0.286	0.381	0.400	71%
5		Percent	50%	50%	100%			
6		2015	0.164	0.164	0.328	0.412	0.400	82%
7		2016	0.156	0.156	0.312	0.364	0.400	78%
8		2017	0.163	0.163	0.326	0.459	0.400	81%
9		2018	0.149	0.149	0.297	0.372	0.400	74%
10		2019	0.158	0.158	0.316	0.403	0.400	79%
11		2020	0.134	0.134	0.267	0.331	0.400	67%
12		2021	0.139	0.139	0.279	0.452	0.400	70%
13		2022	0.134	0.134	0.268	0.347	0.400	67%



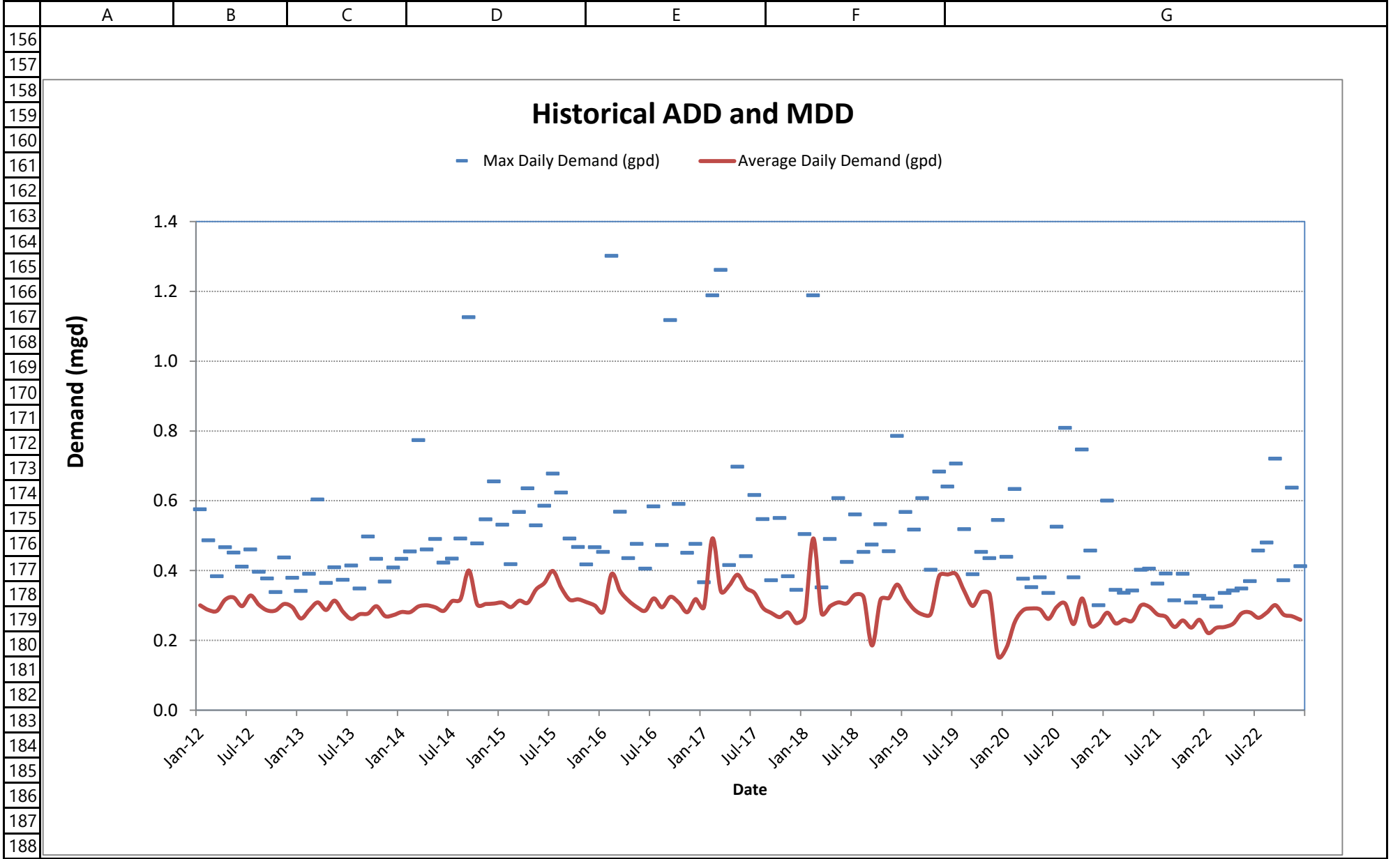
Town of Eatonville
Water Supply Facilities Work Plan
MORs

	A	B	C	D	E	F	G
1	PARAMETER	WTP No. 1					
2	Date						
3	(Month-Year)	Average Daily Demand (gpd)	Max Daily Demand (gpd)	MDD/ADD Peaking Factor	Rated Max Day Design Capacity	% Max Day Design Capacity	Comments
4	Column1	Column2	Column3	Column4	Column5	Column6	Column7
5	Jan-12	300,161	575,000	1.92	1,440,000	40%	
6	Feb-12	287,207	486,000	1.69	1,440,000	34%	
7	Mar-12	284,419	383,000	1.35	1,440,000	27%	
8	Apr-12	317,333	466,000	1.47	1,440,000	32%	
9	May-12	322,548	451,000	1.40	1,440,000	31%	
10	Jun-12	298,133	411,000	1.38	1,440,000	29%	
11	Jul-12	328,710	460,000	1.40	1,440,000	32%	
12	Aug-12	301,677	396,000	1.31	1,440,000	28%	
13	Sep-12	285,567	377,000	1.32	1,440,000	26%	
14	Oct-12	285,774	338,000	1.18	1,440,000	23%	
15	Nov-12	304,067	437,000	1.44	1,440,000	30%	
16	Dec-12	294,675	379,000	1.29	1,440,000	26%	
17	Jan-13	262,387	341,000	1.30	1,440,000	24%	
18	Feb-13	287,143	390,000	1.36	1,440,000	27%	
19	Mar-13	308,871	603,000	1.95	1,440,000	42%	
20	Apr-13	287,033	364,000	1.27	1,440,000	25%	
21	May-13	314,000	409,000	1.30	1,440,000	28%	
22	Jun-13	282,567	373,000	1.32	1,440,000	26%	
23	Jul-13	261,581	414,000	1.58	1,440,000	29%	
24	Aug-13	274,935	348,000	1.27	1,440,000	24%	
25	Sep-13	276,900	497,000	1.79	1,440,000	35%	
26	Oct-13	297,871	433,000	1.45	1,440,000	30%	
27	Nov-13	269,667	368,000	1.36	1,440,000	26%	
28	Dec-13	272,323	408,000	1.50	1,440,000	28%	
29	Jan-14	281,194	433,000	1.54	1,440,000	30%	
30	Feb-14	280,571	454,000	1.62	1,440,000	32%	
31	Mar-14	297,226	773,000	2.60	1,440,000	54%	
32	Apr-14	300,100	460,000	1.53	1,440,000	32%	
33	May-14	294,645	490,000	1.66	1,440,000	34%	
34	Jun-14	284,700	422,000	1.48	1,440,000	29%	
35	Jul-14	312,484	434,000	1.39	1,440,000	30%	
36	Aug-14	317,571	491,000	1.55	1,440,000	34%	
37	Sep-14	399,933	1,125,000	2.81	1,440,000	78%	
38	Oct-14	302,745	477,000	1.58	1,440,000	33%	
39	Nov-14	303,933	546,000	1.80	1,440,000	38%	
40	Dec-14	305,484	655,000	2.14	1,440,000	45%	
41	Jan-15	308,032	531,000	1.72	1,440,000	37%	
42	Feb-15	295,321	418,000	1.42	1,440,000	29%	
43	Mar-15	313,742	567,000	1.81	1,440,000	39%	
44	Apr-15	307,367	635,000	2.07	1,440,000	44%	
45	May-15	345,645	529,000	1.53	1,440,000	37%	
46	Jun-15	364,167	585,000	1.61	1,440,000	41%	
47	Jul-15	398,803	677,000	1.70	1,440,000	47%	
48	Aug-15	350,452	623,000	1.78	1,440,000	43%	
49	Sep-15	316,500	491,000	1.55	1,440,000	34%	
50	Oct-15	317,355	467,000	1.47	1,440,000	32%	
51	Nov-15	309,400	417,000	1.35	1,440,000	29%	
52	Dec-15	299,935	466,000	1.55	1,440,000	32%	
53	Jan-16	282,713	453,000	1.60	1,440,000	31%	
54	Feb-16	390,125	1,301,000	3.33	1,440,000	90%	WM Break
55	Mar-16	341,535	568,000	1.66	1,440,000	39%	
56	Apr-16	313,900	435,000	1.39	1,440,000	30%	
57	May-16	295,513	476,000	1.61	1,440,000	33%	
58	Jun-16	284,933	405,000	1.42	1,440,000	28%	
59	Jul-16	320,323	583,000	1.82	1,440,000	40%	
60	Aug-16	294,903	473,000	1.60	1,440,000	33%	
61	Sep-16	324,633	1,117,000	3.44	1,440,000	78%	
62	Oct-16	307,581	590,000	1.92	1,440,000	41%	
63	Nov-16	280,667	450,000	1.60	1,440,000	31%	
64	Dec-16	318,000	476,000	1.50	1,440,000	33%	
65	Jan-17	295,032	366,000	1.24	1,440,000	25%	
66	Feb-17	492,000	1,188,000	2.41	1,440,000	83%	
67	Mar-17	340,387	1,261,000	3.70	1,440,000	88%	
68	Apr-17	357,233	415,000	1.16	1,440,000	29%	
69	May-17	387,806	697,000	1.80	1,440,000	48%	
70	Jun-17	350,300	441,000	1.26	1,440,000	31%	
71	Jul-17	335,290	616,000	1.84	1,440,000	43%	
72	Aug-17	293,439	547,000	1.86	1,440,000	38%	
73	Sep-17	278,767	372,000	1.33	1,440,000	26%	
74	Oct-17	266,548	550,000	2.06	1,440,000	38%	
75	Nov-17	280,267	383,000	1.37	1,440,000	27%	
76	Dec-17	249,216	344,000	1.38	1,440,000	24%	

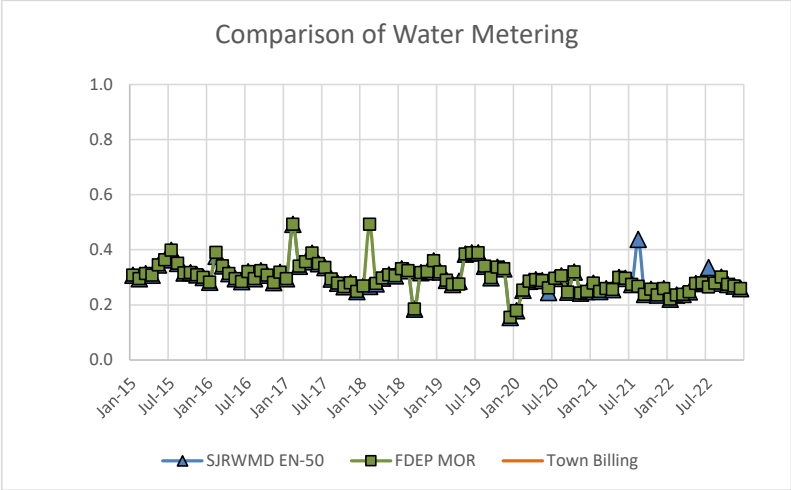
Town of Eatonville
Water Supply Facilities Work Plan
MORs

	A	B	C	D	E	F	G
77	Jan-18	269,032	504,000	1.87	1,440,000	35%	
78	Feb-18	492,000	1,188,000	2.41	1,440,000	83%	
79	Mar-18	277,533	351,000	1.26	1,440,000	24%	
80	Apr-18	297,867	490,000	1.65	1,440,000	34%	
81	May-18	308,806	607,000	1.97	1,440,000	42%	
82	Jun-18	306,067	424,000	1.39	1,440,000	29%	
83	Jul-18	331,323	560,000	1.69	1,440,000	39%	
84	Aug-18	323,935	453,000	1.40	1,440,000	31%	
85	Sep-18	185,087	474,000	2.56	1,440,000	33%	
86	Oct-18	316,680	532,000	1.68	1,440,000	37%	added 0 at end
87	Nov-18	321,070	455,000	1.42	1,440,000	32%	added 0 at end
88	Dec-18	359,680	785,000	2.18	1,440,000	55%	added 0 at end
89	Jan-19	319,680	567,000	1.77	1,440,000	39%	added 0 at end
90	Feb-19	288,821	517,000	1.79	1,440,000	36%	
91	Mar-19	274,355	607,000	2.21	1,440,000	42%	
92	Apr-19	275,933	402,000	1.46	1,440,000	28%	
93	May-19	384,568	683,000	1.78	1,440,000	47%	
94	Jun-19	388,667	640,000	1.65	1,440,000	44%	
95	Jul-19	389,710	706,000	1.81	1,440,000	49%	
96	Aug-19	340,286	518,000	1.52	1,440,000	36%	
97	Sep-19	298,813	389,000	1.30	1,440,000	27%	
98	Oct-19	337,484	453,000	1.34	1,440,000	31%	
99	Nov-19	331,667	435,000	1.31	1,440,000	30%	
100	Dec-19	155,042	544,000	3.51	1,440,000	38%	
101	Jan-20	178,677	439,000	2.46	1,440,000	30%	
102	Feb-20	253,348	633,000	2.50	1,440,000	44%	
103	Mar-20	286,226	376,000	1.31	1,440,000	26%	
104	Apr-20	291,167	352,000	1.21	1,440,000	24%	
105	May-20	288,387	380,000	1.32	1,440,000	26%	
106	Jun-20	261,321	335,000	1.28	1,440,000	23%	
107	Jul-20	296,097	525,000	1.77	1,440,000	36%	
108	Aug-20	305,210	808,500	2.65	1,440,000	56%	
109	Sep-20	246,933	380,000	1.54	1,440,000	26%	
110	Oct-20	319,916	746,000	2.33	1,440,000	52%	
111	Nov-20	243,500	457,000	1.88	1,440,000	32%	
112	Dec-20	248,387	300,000	1.21	1,440,000	21%	
113	Jan-21	279,048	600,000	2.15	1,440,000	42%	
114	Feb-21	248,625	344,000	1.38	1,440,000	24%	
115	Mar-21	259,452	336,000	1.30	1,440,000	23%	
116	Apr-21	256,033	342,000	1.34	1,440,000	24%	
117	May-21	299,765	402,000	1.34	1,440,000	28%	
118	Jun-21	295,933	405,000	1.37	1,440,000	28%	
119	Jul-21	274,000	362,000	1.32	1,440,000	25%	
120	Aug-21	267,355	391,000	1.46	1,440,000	27%	adjusted average and max to not include outlier
121	Sep-21	238,167	314,000	1.32	1,440,000	22%	
122	Oct-21	257,129	390,000	1.52	1,440,000	27%	
123	Nov-21	236,533	308,000	1.30	1,440,000	21%	
124	Dec-21	258,806	327,000	1.26	1,440,000	23%	
125	Jan-22	221,129	319,000	1.44	1,440,000	22%	
126	Feb-22	236,143	296,000	1.25	1,440,000	21%	
127	Mar-22	238,710	335,000	1.40	1,440,000	23%	
128	Apr-22	247,867	342,000	1.38	1,440,000	24%	
129	May-22	277,355	348,000	1.25	1,440,000	24%	
130	Jun-22	280,100	369,000	1.32	1,440,000	26%	
131	Jul-22	264,677	457,000	1.73	1,440,000	32%	adjusted average and max to not include outlier
132	Aug-22	279,323	480,000	1.72	1,440,000	33%	
133	Sep-22	300,800	720,000	2.39	1,440,000	50%	
134	Oct-22	273,774	372,000	1.36	1,440,000	26%	
135	Nov-22	269,003	637,000	2.37	1,440,000	44%	
136	Dec-22	258,871	412,000	1.59	1,440,000	29%	

138	PARAMETER	WTP No. 1				
139	Date	Town of Eatonville				
140	(Year)	ADD (MGD)	MDD (MGD)	MDD/ADD	Rated Max Day Design Capacity	% Max Day Design Capacity
141	2012	0.301	0.575	1.91	1.44	30%
142	2013	0.283	0.603	2.13	1.44	29%
143	2014	0.307	1.125	3.67	1.44	28%
144	2015	0.327	0.677	2.07	1.44	29%
145	2016	0.313	1.301	4.16	1.44	29%
146	2017	0.327	1.261	3.85	1.44	28%
147	2018	0.316	1.188	3.76	1.44	28%
148	2019	0.315	0.706	2.24	1.44	28%
149	2020	0.268	0.809	3.01	1.44	28%
150	2021	0.264	0.600	2.27	1.44	28%
151	2022	0.262	0.720	2.74	1.44	29%
152	Average (5-yr)	0.285	0.805	2.81	1.44	28%
153						
154						
155						

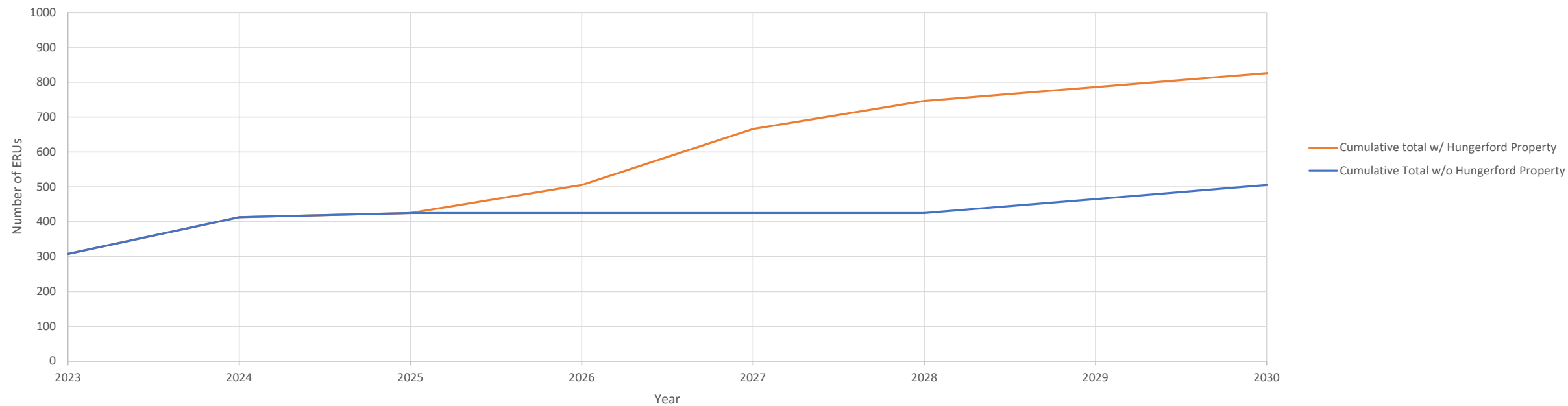


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	PARAMETER	Date	SJRWMD EN-50	FDEP MOR	WTP Use	Town Billing	Loss								
2	2015	Jan-15	0.308	0.308	0.000		0.308								
3		Feb-15	0.295	0.295	0.000		0.295								
4		Mar-15	0.314	0.314	(0.000)		0.314								
5		Apr-15	0.307	0.307	(0.000)		0.307								
6		May-15	0.346	0.346	0.000		0.346								
7		Jun-15	0.364	0.364	(0.000)		0.364								
8		Jul-15	0.399	0.399	0.000		0.399								
9		Aug-15	0.350	0.350	(0.000)		0.350								
10		Sep-15	0.317	0.317	-		0.317								
11		Oct-15	0.317	0.317	(0.000)		0.317								
12		Nov-15	0.309	0.309	-		0.309								
13		Dec-15	0.300	0.300	0.000		0.300								
14	2016	Jan-16	0.283	0.283	(0.000)		0.283								
15		Feb-16	0.377	0.390	(0.013)		0.390								
16		Mar-16	0.342	0.342	0.000		0.342								
17		Apr-16	0.314	0.314	-		0.314								
18		May-16	0.296	0.296	(0.000)		0.296								
19		Jun-16	0.285	0.285	0.000		0.285								
20		Jul-16	0.320	0.320	(0.000)		0.320								
21		Aug-16	0.295	0.295	0.000		0.295								
22		Sep-16	0.325	0.325	0.000		0.325								
23		Oct-16	0.308	0.308	(0.000)		0.308								
24		Nov-16	0.281	0.281	(0.000)		0.281								
25		Dec-16	0.318	0.318	-		0.318								
26	2017	Jan-17	0.295	0.295	0.000		0.295								
27		Feb-17	0.492	0.492	-		0.492								
28		Mar-17	0.340	0.340	0.000		0.340								
29		Apr-17	0.357	0.357	0.000		0.357								
30		May-17	0.388	0.388	0.000		0.388								
31		Jun-17	0.350	0.350	-		0.350								
32		Jul-17	0.335	0.335	0.000		0.335								
33		Aug-17	0.293	0.293	(0.000)		0.293								
34		Sep-17	0.279	0.279	(0.000)		0.279								
35		Oct-17	0.267	0.267	0.000		0.267								
36		Nov-17	0.280	0.280	0.000		0.280								
37		Dec-17	0.249	0.249	0.000		0.249								
38	2018	Jan-18	0.269	0.269	0.000		0.269								
39		Feb-18	0.267	0.492	(0.225)		0.492								
40		Mar-18	0.276	0.278	(0.001)		0.278								
41		Apr-18	0.298	0.298	(0.000)		0.298								
42		May-18	0.309	0.309	0.000		0.309								
43		Jun-18	0.306	0.306	(0.000)		0.306								
44		Jul-18	0.331	0.331	(0.000)		0.331								
45		Aug-18	0.324	0.324	0.000		0.324								
46		Sep-18	0.185	0.185	(0.000)		0.185								
47		Oct-18	0.317	0.317	(0.000)		0.317								
48		Nov-18	0.321	0.321	(0.000)		0.321								
49		Dec-18	0.360	0.360	(0.000)		0.360								
50	2019	Jan-19	0.320	0.320	(0.000)		0.320								
51		Feb-19	0.289	0.289	0.000		0.289								
52		Mar-19	0.274	0.274	(0.000)		0.274								
53		Apr-19	0.286	0.276	0.010		0.276								
54		May-19	0.385	0.385	(0.000)		0.385								
55		Jun-19	0.389	0.389	(0.000)		0.389								
56		Jul-19	0.390	0.390	(0.000)		0.390								
57		Aug-19	0.340	0.340	(0.000)		0.340								
58		Sep-19	0.299	0.299	(0.000)		0.299								
59		Oct-19	0.337	0.337	(0.000)		0.337								
60		Nov-19	0.332	0.332	(0.000)		0.332								
61		Dec-19	0.155	0.155	(0.000)		0.155								
62	2020	Jan-20	0.179	0.179	0.000		0.179								
63		Feb-20	0.253	0.253	0.000		0.253								
64		Mar-20	0.286	0.286	(0.000)		0.286								
65		Apr-20	0.291	0.291	(0.000)		0.291								
66		May-20	0.288	0.288	0.000		0.288								
67		Jun-20	0.246	0.261	(0.016)		0.261								
68		Jul-20	0.296	0.296	(0.000)		0.296								
69		Aug-20	0.305	0.305	(0.000)		0.305								
70		Sep-20	0.247	0.247	0.000		0.247								
71		Oct-20	0.320	0.320	0.000		0.320								
72		Nov-20	0.244	0.244	-		0.244								
73		Dec-20	0.248	0.248	0.000		0.248								
74	2021	Jan-21	0.279	0.279	0.000		0.279								
75		Feb-21	0.249	0.249	-		0.249								
76		Mar-21	0.259	0.259	(0.000)		0.259								
77		Apr-21	0.256	0.256	0.000		0.256								
78		May-21	0.300	0.300	(0.000)		0.300								
79		Jun-21	0.296	0.296	0.000		0.296								
80		Jul-21	0.274	0.274	-		0.274								
81		Aug-21	0.438	0.267	0.170		0.267								
82		Sep-21	0.238	0.238	(0.000)		0.238								
83		Oct-21	0.257	0.257	0.000		0.257								
84		Nov-21	0.237	0.237	0.000		0.237								
85		Dec-21	0.259	0.259	0.000		0.259								
86	2022	Jan-22	0.221	0.221	0.000		0.221								
87		Feb-22	0.236	0.236	(0.000)		0.236								
88		Mar-22	0.239	0.239	(0.000)		0.239								
89		Apr-22	0.248	0.248	(0.000)		0.248								
90		May-22	0.277	0.277	(0.000)		0.277								
91		Jun-22	0.280	0.280	-		0.280								
92		Jul-22	0.336	0.265	0.071		0.265								
93		Aug-22	0.279	0.279	(0.000)		0.279								
94		Sep-22	0.301	0.301	-		0.301								
95		Oct-22	0.274	0.274	0.000		0.274								
96		Nov-22	0.269	0.269	(0.000)		0.269								
97		Dec-22	0.259	0.259	(0.000)		0.259								



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Project ID	Name	Type	Status	Acres	# Lots/ ERU	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Comments
2	1	Lake Weston Apartments	Multi Family	In Construction	49.5	308	308											107,552 AADF
3	2	Enclave Apartments	Multi Family	In Construction	14.99	72		72										72 ERU
4	3	Host Dime	Commercial	In Construction	5	33		33										11,235 AADF
5	4	Commercial Property	Commercial	Concept Plan		12			12									Assumed 12 based on nearby property plans
6	5	Hungerford Property	Mixed Use	Concept Plan	67.3	321				80	161	80						Assumed 321 connections from 2018 Master Plan
7	6	Bing Property	C-1, C-3, R-2	Vacant	6.36	51							40	11				R-2 = 8 DU/acre
8	7	Interstate Property	C-3, I-1	Vacant	3.7	16								16				*acres*1500 gpd/acre/350 gpd per ERU
9	8	Orra Ventures LLC	I-1	Vacant	1.63	7								7				*acres*1500 gpd/acre/350 gpd per ERU
10	9	339 Clark St	R-2	Vacant	1.6	13								6	7			R-2 = 8 DU/acre
11	10	690 W Kennedy Blvd	C-3	Vacant	0.95	4									4			*acres*1500 gpd/acre/350 gpd per ERU
12	11	W Kennedy	R-1	Vacant	1	5									5			R-1 = 5 du/acre
13	12	BOCPS	C-3	Vacant - County Parks & Rec	17.61	75									24	40	11	*acres*1500 gpd/acre/350 gpd per ERU
14	13	DOT	C-2/M-U	Vacant - State Forest Parks & Rec	5.71	24											24	*acres*1500 gpd/acre/350 gpd per ERU
15																		
16																		
17	TOTAL per Year	-			175	942	308	105	12	80	161	80	40	40	40	40	35	
18	w/o Hungerford				108	621	308	105	12	0	0	0	40	40	40	40	35	
19	Cumulative Total						308	413	425	505	666	746	786	826	866	906	941	
20	w/o Hungerford						308	413	425	425	425	425	465	505	545	585	620	
21	Difference					321	0	0	0	80	241	321	321	321	321	321	321	

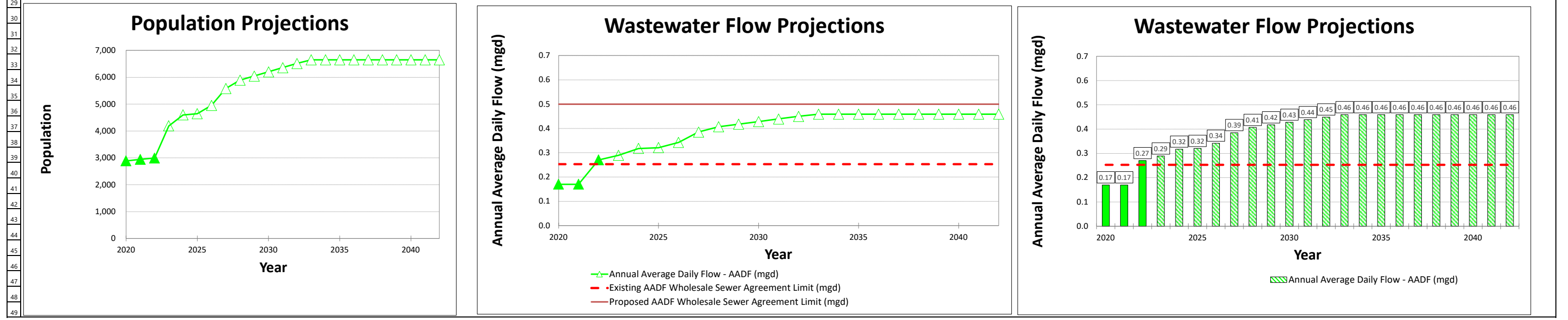
Eatonville Equivalent Residential Units (ERUs) per Year (2023-2040)



Section III. Item #1.

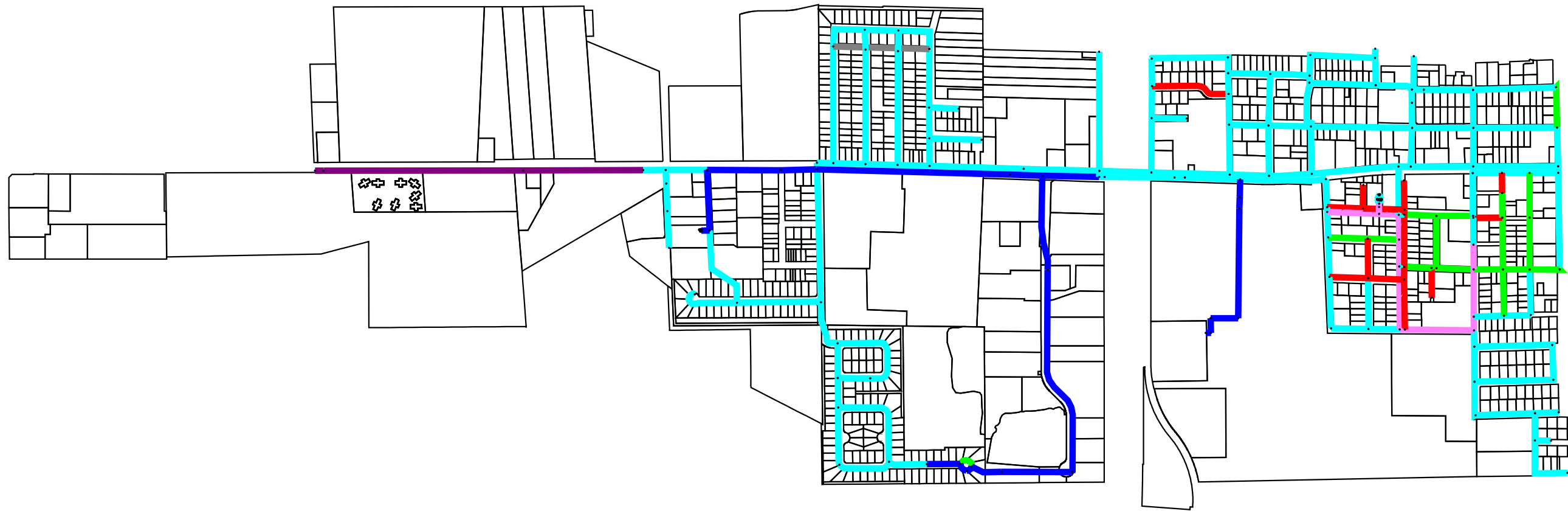
PARAMETER	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	COMMENTS
	Potable Water Use																												
Total # of Active Service Water Connections	686	693	700	714	728	742	756	768	1,076	1,181	1,193	1,273	1,434	1,514	1,554	1,594	1,634	1,674	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	
Service Connections per Year	---	---	7	14	14	14	14	12	308	413	425	505	666	746	786	826	866	906	941	941	941	941	941	941	941	941	941	941	Plans for New Developments
Future Cumulative Dwelling Units									308	413	425	505	666	746	786	826	866	906	941	941	941	941	941	941	941	941	941	941	2020 US Census = 3.89 persons per household
Persons per Household (pphh) - Connection	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	Town of Eatonville LOS 350 gpd per ERU
Per Capita Usage (gpcd)	123	116	120	114	111	93	90	88	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
Population Served (3.89 pphh)	2,669	2,696	2,723	2,777	2,832	2,886	2,941	2,988	4,186	4,594	4,641	4,952	5,578	5,889	6,045	6,201	6,356	6,512	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	
Annual Average Daily Demand - ADD (mgd)	0.33	0.31	0.33	0.32	0.32	0.27	0.26	0.26	0.41	0.46	0.46	0.49	0.55	0.58	0.60	0.61	0.63	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.659	
Max Day Demand - MDD (mgd)	0.68	1.30	1.26	1.19	0.71	0.81	0.60	0.72	1.16	1.28	1.29	1.38	1.55	1.64	1.68	1.72	1.77	1.81	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	
MDD/ADD Peaking Factor	2.07	4.16	3.85	3.76	2.24	3.01	2.27	2.74	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	Average 2018 to 2022
PHD/ADD Peaking Factor	4.14	8.32	7.71	7.52	4.48	6.03	4.54	5.49	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	* MDD/ADD peaking factor
PHD (gpm)	940	1,806	1,750	1,649	980	1,122	833	999	1,616	1,774	1,792	1,912	2,154	2,274	2,334	2,394	2,454	2,514	2,567	2,567	2,567	2,567	2,567	2,567	2,567	2,567	2,567		
2020 CFWI Population Projections	2,324					2,501						2,658				2,701					2,702					2,702			
2020 CFWI Demand Projections	0.33					0.33						0.35				0.35					0.35					0.35			
CFWI 2025 Limit	0.35					0.35						0.35				0.35					0.35					0.35			
2025 UFA Adjusted AADD	0.33	0.31	0.33	0.32	0.32	0.27	0.26	0.26	0.41	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46		
AWS Need Beyond 2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.12	0.14	0.15	0.17	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20		
Proposed Adjusted CUP Limit to 2025 Demands	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	Based on CWFI UFA Withdrawal Limits	
Permitted Groundwater Withdrawal Allocation																													
Annual Average Permitted WUP Limit (mgd)	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
ADD (mgd)	0.33	0.31	0.33	0.32	0.32	0.27	0.26	0.26	0.41	0.46	0.46	0.49	0.55	0.58	0.60	0.61	0.63	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	
ADD WUP Surplus/Deficit (mgd)	0.07	0.09	0.07	0.08	0.08	0.13	0.14	0.14	(0.01)	(0.06)	(0.06)	(0.09)	(0.15)	(0.18)	(0.20)	(0.21)	(0.23)	(0.25)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	(0.26)	
Percent WUP Allocation (%)	82%	78%	82%	79%	79%	67%	66%	66%	104%	114%	115%	123%	138%	146%	150%	154%	158%	161%	165%	165%	165%	165%	165%	165%	165%	165%	165%	165%	Begin Planning @ 90%
Rated Maximum-Day Design Capacity																													
Max Day Design Capacity (mgd)	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	FDEP PWS No. 6530431	
MDD (mgd)	0.68	1.30	1.26	1.19	0.71	0.81	0.60	0.72	1.16	1.28	1.29	1.38	1.55	1.64	1.68	1.72	1.77	1.81	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85		
Design Surplus/Deficit (mgd)	0.76	0.14	0.18	0.25	0.73	0.63	0.84	0.72	0.28	0.16	0.15	0.06	(0.11)	(0.20)	(0.24)	(0.28)	(0.33)	(0.37)	(0.41)	(0.41)	(0.41)	(0.41)	(0.41)	(0.41)	(0.41)	(0.41)	(0.41)		
Percent Design Capacity (%)	47%	90%	88%	83%	49%	56%	42%	50%	81%	89%	90%	96%	108%	114%	117%	120%	123%	126%	128%	128%	128%	128%	128%	128%	128%	128%	128%	128%	Begin Planning @ 75% Capacity
Well Production Capacity (TOTAL)																													
Total Well Capacity (gpm)	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	1,344	FGUA Meter Calibration 6/6/2023	
MDD + FF (gpm)	1,470	1,903	1,875	1,824	1,490	1,561	1,416	1,500	1,808	1,887	1,896	1,956	2,137	2,167	2,197	2,227	2,257	2,283	2,283	2,283	2,283	2,283	2,283	2,283	2,283	2,283	2,283	FDEP 62-555-315(3) => Total > MDD + FF	
Total Well Surplus/Deficit (gpm)	(126)	(559)	(531)	(480)	(146)	(217)	(72)	(156)	(464)	(543)	(552)	(612)	(733)	(793)	(823)	(853)	(883)	(913)	(939)	(939)	(939)	(939)	(939)	(939)	(939)	(939)	(939)		
Percent Total Well Capacity (%)	109%	142%	140%	136%	111%	116%	105%	112%	135%	140%	141%	146%	155%	159%	161%	163%	166%	168%	170%	170%	170%	170%	170%	170%	170%	170%	170%	170%	Begin Planning @ 75% Capacity
Well Production Capacity (FIRM - Largest Well Off-Line)																													
Firm Well Capacity (gpm)	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	Largest Well Off-line - FGUA Meter Calibration 6/6/2023	
MDD (gpm)	470	903	875	824	490	561	416	500	808	887	896	956	1,077	1,137	1,167	1,197	1,227	1,257	1,283	1,283	1,283	1,283	1,283	1,283	1,283	1,283	1,283	FDEP 62-555-315(3) => Firm > ADD (preferably MDD)	
Firm Well Surplus/Deficit (mgd)	197	(236)	(208)	(157)	177	106	251	167	(141)	(220)	(229)	(289)	(410)	(470)	(500)	(560)	(590)	(616)	(616)	(616)	(616)	(616)	(616)	(616)	(616)	(616)	(616)		
Percent Firm Well Capacity (%)	70%	135%	131%	124%	73%	84%	62%	75%	121%	133%	134%	143%	161%	170%	175%	179%	184%	188%	192%	192%	192%	192%	192%	192%	192%	192%	192%	192%	Begin Planning @ 75% Capacity
Storage																													
On-Site GST (MG)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	2021 Sanitary Survey	
On-Site EST (MG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Off-Line (200,000 gal)	
Off-Site EST (MG)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20		
Total Storage Available (MG)	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	FDEP 62-555-320(a) => MG = 25MDD (mgd)	
Equivalent MDD Available Storage (mgd)	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60		
Required 25% MDD Storage (MG)	0.17	0.33	0.32	0.30	0.18	0.20	0.15	0.18	0.29	0.32	0.32	0.34	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46		
Required Fire Flow Storage (MG)	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	FF = 1,000 gpm for 2 hours	
Required 4-Log CT Storage (MG)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5 mg/L @ CT = 4 mg/L-min	
Total Storage Required (MG)	0.30	0.46	0.45	0.43	0.31	0.34	0.28	0.31	0.43	0.45	0.46	0.48	0.52	0.54	0.55	0.57	0.58	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60		
Storage Capacity Surplus/Deficit (MG)	0.10	(0.06)	(0.05)	(0.03)	0.09	0.06	0.12	0.09	(0.03)	(0.05)	(0.06)	(0.08)	(0.12)	(0.14)	(0.15)	(0.17)	(0.18)	(0.19)	(0.20)	(0.20)	(0.20)	(0.20)	(0.20)	(0.20)	(0.20)	(0.20)	(0.20)		
Percent Storage Capacity (%)	76%	115%	112%	108%	78%	84%	71%	79%	106%	113%	114%	120%	131%	136%	139%	141%	144%	147%	149%	149%	149%	149%	149%	149%	149%	149%	149%	Begin Planning @ 75% Capacity	
High Service Pumping (TOTAL)																													
Installed HSP Capacity (gpm)	1,800																												

PARAMETER	Year																							COMMENTS
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	
Wastewater Use																								
Total # of Active Service Water Connections	742	756	768	1,076	1,181	1,193	1,273	1,434	1,514	1,554	1,594	1,634	1,674	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	
Service Connections per Year	0	14	12	308	105	12	80	161	80	40	40	40	40	35	0	0	0	0	0	0	0	0	0	
Future Cumulative Dwelling Units			12	320	425	437	517	678	758	798	838	878	918	953	953	953	953	953	953	953	953	953	953	Plans for New Developments
Persons per Household (pphh) - Connection	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	2020 US Census = 3.89 persons per household
Per Capita Usage (gpcd)	59	58	90	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	
Flow per Connection	229	225	352	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	Town of Eatonville LOS 300 gpd per ERU
Population Served (3.89 pphh)	2,886	2,941	2,988	4,186	4,594	4,641	4,952	5,578	5,889	6,045	6,201	6,356	6,512	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	
Annual Average Daily Flow - AADF (mgd)	0.17	0.17	0.27	0.29	0.32	0.32	0.34	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	Based on meter at Master Lift Station (2022 skewed due to Hurricane Ian)
Max Day Flow - MDF (mgd)	0.34	0.34	0.54	0.58	0.63	0.64	0.68	0.77	0.81	0.83	0.86	0.88	0.90	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	MDF/ADF Peaking Factor = 2
Peak Hour Flow - PHF (gpm)	0.68	0.68	1.08	1.16	1.27	1.28	1.37	1.54	1.63	1.67	1.71	1.76	1.80	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	PHF/ADF Peaking Factor = 4
Existing Service Agreement to Altamonte																								
Existing AADF Wholesale Sewer Agreement Limit (mgd)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	Existing Wholesale Agreement = 252,893 mgd AADF
AADF (mgd)	0.17	0.17	0.27	0.29	0.32	0.32	0.34	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	
AADF Agreement Surplus/Deficit (mgd)	0.08	0.08	(0.02)	(0.04)	(0.06)	(0.07)	(0.09)	(0.13)	(0.15)	(0.16)	(0.18)	(0.19)	(0.20)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	
Percent Agreement Allocation (%)	67%	67%	107%	114%	125%	127%	135%	152%	161%	165%	169%	173%	178%	181%	181%	181%	181%	181%	181%	181%	181%	181%	181%	
Proposed Service Agreement to Altamonte																								
Proposed AADF Wholesale Sewer Agreement Limit (mgd)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	Proposed Wholesale Agreement = 500,000 mgd AADF
AADF (mgd)	0.17	0.17	0.27	0.29	0.32	0.32	0.34	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	
AADF Agreement Surplus/Deficit (mgd)	0.33	0.33	0.23	0.21	0.18	0.18	0.16	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
Percent Agreement Allocation (%)	34%	34%	54%	58%	63%	64%	68%	77%	81%	83%	86%	88%	90%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	
Rated Capacity of Master Lift Station																								
Design Capacity (gpm)	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	Per Park Master Lift Station Plans
MDF (gpm)	236	236	375	401	440	445	475	535	565	580	594	609	624	637	637	637	637	637	637	637	637	637	637	
Design Surplus/Deficit (mgd)	504	504	365	339	300	295	265	205	175	160	146	131	116	103	103	103	103	103	103	103	103	103	103	
Percent Design Capacity (%)	32%	32%	51%	54%	60%	60%	64%	72%	76%	78%	80%	82%	84%	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%	Begin Planning at 75% Capacity











APPENDIX F: Potable Water System Hydraulic Model

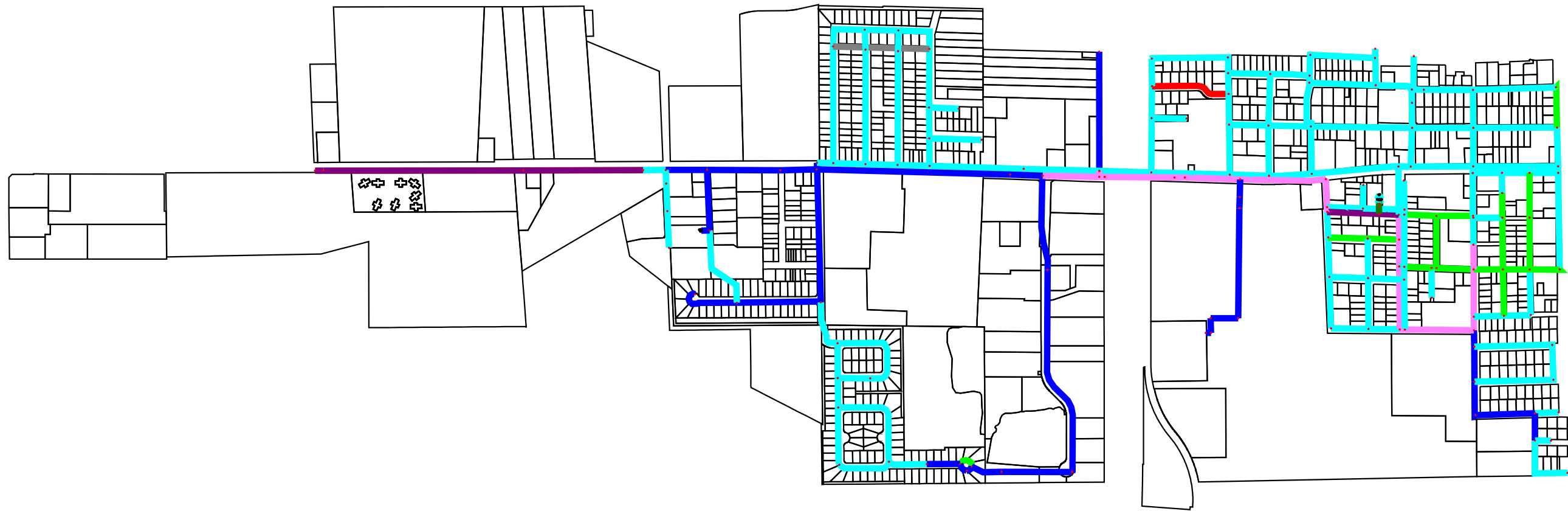
Scenario: Base











Color Coding Legend
Pipe: Diameter (in)

	<= 2.0
	<= 4.0
	<= 6.0
	<= 8.0
	<= 10.0
	<= 12.0
	<= 16.0
	Other

Scenario: Base w/ Upsized Pipes



Color Coding Legend
Pipe: Diameter (in)

	<= 2.0
	<= 4.0
	<= 6.0
	<= 8.0
	<= 10.0
	<= 12.0
	<= 16.0
	Other

APPENDIX G: Town of Eatonville Budget FY 2022/23

TOWN OF EATONVILLE CAPITAL PROJECT BUDGET FISCAL YEAR 2022 - 2023 APPROVED CAPITAL BUDGET		
DEPARTMENT ACCOUNT NAME	ACCOUNT NUMBER	FY 22 - 23 APPROVED BUDGET
<i>REVENUES</i>	<i>FUND - 300</i>	
CLEAN WATER - SRF	300-337.9000	665,000
AARP	300-331.0100	500,000
FDOT - ARTS ENDOWMENT	300-331.0200	180,000
TOTAL GRANTS		1,345,000
TOTAL OPERATING REVENUE		1,345,000
VEREEN LIFT STATION/QUAD REHAB.		
OPERATING EXPENSES		
Professional Services	300-0536-536.3100	
Contractual Services	300-0536-536.3400	65,000
CAPITAL OUTLAYS		
Construction in Progress	300-0536-536.6500	600,000
TOTAL CAPITAL OUTLAY		665,000
TOTAL CLEAN WATER SRF EXPEND		665,000

FDOT - ARTS		
OPERATING EXPENSES		
Professional Services	300-0541.541.3100	
Contractual Services	300-0541-541.3400	50,000
TOTAL OPERATING EXPENSES		50,000
CAPITAL OUTLAYS		
ARTS	300-0541-541.6500	130,000
TOTAL CAPITAL OUTLAY		130,000
TOTAL FDOT GRANT EXPENDITURES		180,000
AARP		
OPERATING EXPENSES		
Administrative Costs	300-0533-533.3411	
Contractual Services	300-0533-533.3400	0
TOTAL OPERATING EXPENSES		0
CAPITAL OUTLAYS		
Infrastructure	300-0533-533.6500	500,000
TOTAL CAPITAL OUTLAY		500,000
TOTAL AARP GRANT EXPEND.		500,000
TOTAL CAPITAL PROJECT EXPEND.		1,345,000

	A	B	F	G	I
1					
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED ENTERPRISE FUND BUDGET				
5	WATER & SEWER FUND				
6					
7	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10					
11					
12					
13	WATER & SEWER REVENUE	FUND-400			
14					
15	Beginning Enterprise Fund Balance				
16			\$100,000.00	\$100,000.00	\$100,000.00
17	CHARGES FOR SERVICES				
18	Water	400-343.3000	300,000	300,000	300,000
19	Sewer	400-343.5000	400,000	400,000	400,000
20	Cut on/off Fees	400-343.6310	8,946	8,946	8,946
21	Connection Fees	400-343.6510	23,100	50,000	300,000
22	Late Penalty	400-343.6900	20,000	20,000	20,000
23	Return Check Fees/SERVICE CHARGE FE	400-343.6910	1,000	1,000	1,000
24	Miscellaneous-Other	400-343.6930	7,000	7,000	7,000
25	Interest Income	400-361.1000	565	565	565
26		400-343.9000			
27	SERVICE CHARGES	400-343.9005	2,000	2,000	2,000
28		400-343.9006			
29		400-343.9010			
30		400-343.9020			
31		400-343.9040			
32		400-369-0000			
33					
34	STATE & FEDERAL GRANTS REVENUE				
35					
36	(ARPA)Coronavirus Local Fiscal Recv Funds			570,000	503,747
37					
38					
39	TOTAL WATER & SEWER REVENUE		\$862,611.00	\$1,459,511.00	\$1,643,258.00
40					
41					

	A	B	F	G	I
42	TOWN OF EATONVILLE				
43	FISCAL YEAR 2022 - 2023				
44	APPROVED ENTERPRISE FUND BUDGET				
45					
46					
47	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 21-22	FY 22-23
48	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
49			BUDGET	BUDGET	BUDGET
50					
51					
52	WATER & SEWER -536				
53	EXPENDITURES				
54					
55	PERSONAL SERVICES				
56	Salaries & Wages - Regular	400-0536-536.1200	183,999	193,597	173,146
57					
58	Wages Overtime	400-0536-536.1400	10,000	10,000	6,000
59	Stand By Pay	400-0536-536.1700	7,200	7,000	5,000
60					
61					
62	TOTAL SALARIES & WAGES		201,199	210,597	184,146
63					
64	FRINGE BENEFITS				
65	FICA Taxes - 7.65%	400-0536-536.2100	15,376	16,111	14,087
66	Retirement 5%	400-0536-536.2200	4,818	4,818	4,533
67	Health & Life Insurance	400-0536-536.2300	38,537	38,537	40,441
68	Workers' Compensation	400-0536-536.2400	9,230	9,230	10,000
69	Unemployment Compensation	400-0536-536.2500	-	-	-
70					
71	TOTAL FRINGE BENEFITS		67,961	68,696	69,061
72					
73	TOTAL PERSONAL SERVICES		269,160	279,293	253,207
74					
75	OPERATING EXPENSES				
76	Professional Services	400-0536-536.3100	10,000	10,000	15,000
77	Contractual Services	400-0536-536.3400	30,000	30,000	50,000
78	Contractual Services-Altamonte Springs	400-0536-536.3410	260,000	300,000	300,000
79	Administrative Expense	400-0536-536.3500	55,000	15,000	20,000
80	Travel & Per Diem	400-0536-536.4000	2,000	2,000	2,000
81	Communication Services	400-0536-536.4100	3,500	3,500	3,500
82	Mail & Freight	400-0536-536.4200	5,000	5,000	5,000
83	Utility Services	400-0536-536.4300	25,000	20,000	20,000
84	Rentals & Leases	400-0536-536.4400	10,000	3,000	5,000
85	Repair & Maintenance - Auto	400-0536-536.4610	5,000	5,000	5,000
86	REPAIR & MAINTENANCE - OTHER	400-0536-536.4620	3,500	3,500	25,000
87	Repair - Lift Station	400-0536-536.4630	10,000	5,000	25,000
88	Repair & maintenance - WATER LINES	400-0536-536.4650	5,000	5,000	25,000
89	Repair & maintenance - Sewer Lines	400-0536-536.4660	10,000	5,000	25,000
90	Printing & Binding	400-0536-536.4700	2,200	2,200	2,000
91	Legal AD	400-0536-536.4900	1,000	1,000	1,000
92	Office Supplies	400-0536-536.5100	1,500	1,500	1,000
93	Operating Supplies	400-0536-536.5210	10,000	5,000	25,000
94	Uniforms & Shoes	400-0536-536.5220	750	750	1,100
95	Chemicals	400-0536-536.5280	20,000	20,000	30,000
96	Gas & Oil	400-0536-536.5290	8,600	8,600	10,000
97	Books, Publications, Subscriptions	400-0536-536.5400	200	200	200
98		400-0536-536.5500			
99	Depreciation	400-0536-536.5900			
100	Contingency	400-0536-536.5800	10,201	24,103	199,314
101	TOTAL OPERATING EXPENSES		488,451	475,353	795,114
102					
103					

	A	B	F	G	I
104					
105	TOWN OF EATONVILLE				
106	FISCAL YEAR 2021 - 2022				
107	APPROVED ENTERPRISE FUND BUDGET				
108					
109					
110	DEPARTMENT	ACCOUNT	FISCAL 20-21	FY 21-22	FY 22-23
111	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
112			BUDGET	BUDGET	BUDGET
113					
114					
115	CAPITAL OUTLAYS				
116					
117	West Water Tower Repairs/Renovations			300,000	300,000
118	Meter Replacement Program			200,000	133,747
119	Valve Repair/Replacement Program			50,000	50,000
120				20,000	20,000
121					
122	Lift Stations Improvement	400-0536-536.6320			
123	Utility Truck	400-0536-536.6420		20,000	20,000
124	Equipment & Machinery	400-0536-536.6420			
125	Vehicle - F150	400-0536-536.6420	20,000	20,000	20,000
126	TOTAL CAPITAL OUTLAY		\$20,000.00	\$610,000.00	\$543,747.00
127					
128					
129	DEBT SERVICE-SRF Loan				
130	SRF	400-0536-536.7100	85,000	85,000	41,325
131	USDA	400-0536-536.7100	-	9,865	9,865
132	Bond Cost	400-0536-536.7101			
133	Interest Expense	400-0536-536.7102			
134	TOTAL DEBT SERVICE		85,000	94,865	\$51,190.33
135					
136					
137			-	-	-
138					
139			-	-	-
140					
141	TOTAL WATER/SEWER EXPENDITURES		862,611	1,459,511	1,643,258
142					
143	(OVER/UNDER BUDGET)				(0)
144					

	A	B	F	G	I
145					
146	TOWN OF EATONVILLE				
147	FISCAL YEAR 2019-2020				
148	APPROVED ENTERPRISE FUND BUDGET				
149					
150					
151	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 2022	FISCAL 2023
152	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
153			BUDGET	BUDGET	BUDGET
154					
155	SOLID WASTE	FUND 401			
156	ESTIMATED REVENUES				
157					
158	CHARGES FOR SERVICES				
159					
160	Residential/Commercial Refuse/Recyc	401-343.4000	360,000	360,000	360,000
161					
162					
163	TOTAL REVENUES		360,000	360,000	360,000
164					
165	SOLID WASTE - 401				
166	EXPENDITURES				
167					
168	CONTRACTUAL SERVICES	401-0534-534.3400	293,550	293,550	293,550
169					
170	Fund Balance		66,450	66,450	66,450
171	TOTAL SOLID WASTE EXPEND.		360,000	360,000	360,000
172					
173	(OVER/UNDER BUDGET)		-	-	-
174					

	A	B	F	G	I
175					
176	TOWN OF EATONVILLE				
177	FISCAL YEAR 2022 -2023				
178	APPROVED ENTERPRISE FUND BUDGET				
179					
180					
181	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 2022	FISCAL 2023
182	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
183			BUDGET	BUDGET	BUDGET
184					
185	STORMWATER REVENUES				
186					
187					
188					
189	CHARGES FOR SERVICES				
190	Stormwater Revenue	402-343.0000	219,336	219,336	219,336
191	Interest Earnings - Stormwater	402-361.0000			
192	Residential				
193	Commercial				
194	SUB-TOTAL REVENUES		219,336	219,336	219,336
195					
196					
197	STORMWATER FUND - 402 EXPENDITURES				
198					
199					
200	PERSONAL SERVICES				
201	Salaries & Wages - Regular	402-0538-538.1200	87,266	72,324	100,404
202	Standby Pay	402-0538-538.1700	-	-	
203	Wages Overtime	402-0538-538.1400	6,000	6,000	3,000
204					
205					
206	TOTAL SALARIES & WAGES		93,266	78,324	103,404
207					
208	FRINGE BENEFITS				
209	FICA Taxes - 7.65%	402-0538-538.2100	7,135	5,992	7,910
210	Retirement 5%	402-0538-538.2200	3,308	3,425	3,029
211	Health & Life Insurance	402-0538-538.2300	12,000	12,000	15,555
212	Workers' Compensation	402-0538-538.2400	5,998	5,998	6,300
213	Unemployment Compensation	402-0538-538.2500	-	-	-
214					
215	TOTAL FRINGE BENEFITS		28,441	27,415	32,794
216					
217	TOTAL PERSONAL SERVICES		121,707	105,739	136,198
218					

	A	B	F	G	I
219					
220					
221	TOWN OF EATONVILLE				
222	FISCAL YEAR 2022 - 2023				
223	APPROVED ENTERPRISE FUND BUDGET				
224					
225					
226	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 2022	FISCAL 2023
227	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
228			BUDGET	BUDGET	BUDGET
229					
230					
231	OPERATING EXPENSES				
232	Professional Services	402-0538-538.3100	10,000	10,000	10,000
233	Contractual Services	402-0538-538.3400	19,500	19,500	15,000
234	Travel & Per Diem	402-0538-538.4000	500	500	500
235	Communication Services	402-0538-538.4100	500	500	500
236	Mail & Freight	402-0538-538.4200	91	91	100
237	Rentals & Leases	402-0538-538.4400	6,500	6,500	15,000
238	Repair & Maintenance - Auto	402-0538-538.4610	5,000	5,000	1,000
239	Repair & Maintenance - Storm System	402-0538-538.4630	11,500	11,500	10,000
240	Printing & Binding	402-0538-538.4700	-	-	-
241	Office Supplies	402-0538-538.5100	485	485	500
242	Operating Supplies	402-0538-538.5210	6,000	6,000	4,041
243	Uniforms & Shoes	402-0538-538.5220	1,500	1,500	1,500
244	Gas & Oil	402-0538-538.5290	4,000	4,000	5,000
245	Contingency	402-0538-538.5800	8,669	23,021	4,997
246	Depreciation Stormwater	402-0538-538.5900			
247	Bad Debt Expense	402-0538-538.5500			
248					
249	TOTAL OPERATING EXPENSES		74,245	88,597	68,138
250					
251	CAPITAL OUTLAYS -				
252					
253					
254	Vehicle	402-0538-538.6420	23,384	25,000	15,000
255					
256					
257	TOTAL CAPITAL OUTLAY		23,384	25,000	15,000
258					
259	TOTAL STORMWATER EXPENDITURES		219,336	219,336	219,336
260	FUND BALANCE				
261	(OVER/UNDER BUDGET)				
262			-	-	0

Section III. Item #1.

**TOWN OF EATONVILLE
FISCAL YEAR (FY) 2022 - 2023
APPROVED GENERAL FUND BUDGET**

	A	B	K	N
1				
2	TOWN OF EATONVILLE			
3	FISCAL YEAR (FY) 2022 - 2023			
4	APPROVED GENERAL FUND BUDGET			
5				
6				
7		ACCOUNT	FY 20-21	FY 21-22
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED
9			BUDGET	BUDGET
10			7.2938	7.2938
11				
12				
13				
14				
15				
16				
17	ESTIMATED REVENUES			
18				
19	GENERAL FUND	FUND -001		
20	REVENUES			
21				
22	AD VALOREM TAXES			
23	Ad Valorem Taxes-Current	001-311.1000	\$1,727,356	\$1,765,817
24				
25	TOTAL AD VALOREM TAXES		\$1,727,356	\$1,765,817
26				
27	SALES AND USES TAXES			
28	Local Option Gas Tax	001-312.4100	\$66,780	\$68,595
29				
30	TOTAL SALES AND USES TAXES		\$66,780	\$68,595
31				
32	FRANCHISE FEES:			
33	Electric	001-323.4000	\$392,688	\$392,688
34	Solid Waste	001-323.7000	\$2,500	\$2,500
35				
36	TOTAL FRANCHISE FEES		\$395,188	\$395,188
37				
38	UTILITY SERVICE TAXES			
39	Electric	001-314.1000	\$410,000	\$410,000
40	Other Telecommunications	001-314.2000	\$86,611	\$86,611
41	Water Utility Tax	001-314.3000	\$60,000	\$60,000
42	Gas	001-314.4000	\$4,000	\$4,000
43				
44	TOTAL UTILITY SERVICE TAXES		\$560,611	\$560,611
45				
46	LICENSES AND PERMITS (CITY)			
47	Business Tax Licenses	001-316.0000	\$16,000	\$16,000
48	Building Permits	001-322.0000	\$40,000	\$180,000
49	Other Permits and Fees	001-329.0000	\$9,000	\$9,000
50	Fire Safety Inspection	001-342.5000	\$7,500	\$7,500
51	Linkage Fees			\$100,000
52				
53	TOTAL LICENSES AND PERMITS		\$72,500	\$312,500
54				
55	STATE SHARED REVENUES			
56	State Revenue Sharing	001-335.1200	\$103,717	\$99,360
57	Alcoholic Beverage Licenses	001-335.1500	\$500	\$500
58	Half Cent Sales Tax	001-335.1800	\$269,640	\$237,244
59	TOTAL STATE SHARED REVENUES		\$373,857	\$337,104

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
60					
61	COUNTY SHARED REVENUES				
62	Occupational Licenses	001-316.2000	\$500	\$500	\$500
63					
64	TOTAL COUNTY SHARED REVENUES		\$500	\$500	\$500
65					
66	CHARGES FOR SERVICES				
67	Eatonville Post Office	001-345.9001	\$17,440	\$17,440	\$17,440
68	Recreation Program Fees	001-347.2100			
69	Other Gov't Charges & W/S Administrative Fees	001-341.9000	\$55,000	\$15,000	\$20,000
70	TOTAL CHARGES FOR SERVICES		\$72,440	\$32,440	\$37,440
71					
72	FINES AND FORFEITURES				
73	Court Fines	001-351.1000	\$8,000	\$8,000	\$8,000
76	Code Violation Penalties	001-354.1000	\$5,000	\$5,000	\$5,000
77	Parking Tickets	001-351.1100	\$200	\$200	\$200
78	Seized Tags	001-342.9000	\$200	\$300	\$300
79	Towing	001-342.9001	\$2,000	\$2,000	\$2,000
80	TOTAL FINES AND FORFEITURES		\$15,400	\$15,500	\$15,500
81					
82	MISCELLANEOUS REVENUES				
83	Summer Food Program	001-331.6200	\$50,000	\$50,000	\$45,000
84	Federal Grants	001-331.9000	\$10,000	\$10,000	\$30,000
85	Interest Earnings on Investment	001-361.0000	\$200	\$200	\$200
87	Rental Income/DJC	001-362.0000	\$2,000	\$2,000	\$10,000
88	Rental Income/Tower	001-362.1000	\$27,469	\$27,469	\$27,469
91	Other Miscellaneous Revenue	001-369.0000	\$3,000	\$3,000	\$3,000
93	Election Qualifying Fees	001-369.1000		\$3,000	
94	Police - Off Duty Detail	001-369.0003	\$10,000	\$8,000	\$8,000
95	Police Liaison-Orange County School	001-337.2001	\$61,250	\$61,250	\$70,000
96	Library Rental	001-366.0000	\$60,654	\$60,654	\$60,654
97	Martin Luther King Jr. -Event	001-361.1000			\$26,648
98	Robert Woods Johnson Foundation	001-361.2000			\$25,000
99	TOTAL MISCELLANEOUS REVENUE		\$224,573	\$225,573	\$305,971
100					
101	OTHER FINANCING SOURCES & USES				
102	Forward Balance/Transfer		\$342,406	\$342,406	\$446,929
103					
104	TOTAL OTHER FINANCING SOURCES		\$342,406	\$342,406	\$446,929
105					
106	TOTAL OPERATING REVENUE		\$342,406	\$342,406	\$446,929
107					
108					
109					
110	TOTAL REVENUES		\$3,851,611	\$4,056,234	\$4,732,497

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
172					
173	TOTAL LEGISLATIVE EXPENDITURES		\$521,010	\$620,403	\$901,983

Section III. Item #1.

	A	B	K	N
1				
2	TOWN OF EATONVILLE			
3	FISCAL YEAR (FY) 2022 - 2023			
4	APPROVED GENERAL FUND BUDGET			
5				
6				
7		ACCOUNT	FY 20-21	FY 21-22
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED
9			BUDGET	BUDGET
10			7.2938	7.2938
174				
175				
219				
220	EXECUTIVE/ADMIN.-512			
221	EXPENDITURES			
222				
223	PERSONAL SERVICES			
224	Salaries	001-0512-512.1200	\$115,368	\$45,006
225	Wages - Part Time	001-0512-512.1300		
226	Overtime	001-0512-512.1400		
227	TOTAL SALARIES AND WAGES		\$115,368	\$45,006
228				
229	FRINGE BENEFITS			
230	FICA Taxes - 7.65%	001-0512-512.2100	\$8,858	\$3,443
231	Retirement 5%	001-0512-512.2200	\$4,923	\$5,147
232	Health & Life Insurance	001-0512-512.2300	\$21,696	\$14,464
233	Workers' Compensation	001-0512-512.2400	\$1,200	\$1,200
234	Unemployment Compensation	001-0512-512.2500	\$2,000	\$2,000
235				
236	TOTAL FRINGE BENEFITS		\$38,677	\$26,254
237				
238	TOTAL PERSONAL SERVICES		\$154,045	\$71,260
239				
240	OPERATING EXPENSES			
241	Professional Services	001-0512-512.3100	\$3,000	\$4,000
242	Contractual Services	001-0512-512.3400	\$3,000	\$3,000
243	Travel & Per Diem	001-0512-512.4000	\$1,500	\$1,500
244	Communication Services	001-0512-512.4100	\$3,000	\$3,000
245	Mail & Freight	001-0512-512.4200	\$1,200	\$1,000
246	Utility Services	001-0512-512.4300	\$16,000	\$14,000
247	Rentals & Leases	001-0512-512.4400	\$5,000	\$4,000
248	Insurance	001-0512-512.4500	\$150,000	\$150,000
251	Printing & Binding	001-0512-512.4700	\$1,200	\$1,000
252	Promotional Activities	001-0512-512.4800	\$1,000	\$1,000
253	Legal Ads.	001-0512-512.4900	\$13,000	\$15,000
254	Other Charges-ex. Election	001-0512-512.4915		\$8,000
255	Office Supplies	001-0512-512.5100	\$2,000	\$3,000
256	Operating Supplies	001-0512-512.5210	\$2,000	\$5,000
257	Gas & Oil	001-0512-512.5290	\$1,200	\$1,200
258	Books, Publications, Subscriptions	001-0512-512.5400	\$1,000	\$1,500
259				
260	TOTAL OPERATING EXPENSES		\$204,100	\$216,200
261				
262	CAPITAL OUTLAYS			
263				
267	TOTAL CAPITAL OUTLAYS			
268				
269	TOTAL ADMINISTRATION EXPENDITURES		\$358,145	\$287,460

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
270					
271					
272	FINANCE-513				
273	EXPENDITURES				
274	PERSONAL SERVICES				
275	Salaries & Wages - Regular	001-0513-513.1200	\$163,804	\$198,165	\$212,470
276					
277					
278	TOTAL SALARIES AND WAGES		\$163,804	\$198,165	\$212,470
279					
280	FRINGE BENEFITS				
281	FICA Taxes- 7.65%	001-0513-513.2100	\$12,531	\$15,160	\$16,254
282	Retirement -5%	001-0513-513.2200	\$6,590	\$6,920	\$9,724
283	Health and Life Insurance	001-0513-513.2300	\$30,629	\$30,629	\$37,331
284	Workers' Compensation	001-0513-513.2400	\$865	\$865	\$1,200
285	Unemployment Compensation	001-0513-513.2500	\$2,000	\$2,000	\$2,000
286	TOTAL FRINGE BENEFITS		\$52,615	\$55,574	\$66,508
287					
288	TOTAL PERSONAL SERVICES		\$216,419	\$253,739	\$278,978
289					
290	OPERATING EXPENSES				
291	Professional Services	001-0513-513.3100	\$500	\$500	\$3,500
292	Accounting and Auditing	001-0513-513.3200	\$35,000	\$51,000	\$65,000
293	Contractual Service	001-0513-513.3400	\$30,000	\$30,000	\$45,000
294	Contractual Services-Payroll Services	001-0513-513.3411	\$9,560	\$10,000	\$10,000
295	Travel & Per Diem	001-0513-513.4000	\$1,000	\$1,000	\$3,000
296	Communication Services	001-0513-513.4100	\$2,600	\$2,600	\$2,600
297	Mail & Freight	001-0513-513.4200	\$1,500	\$1,500	\$1,500
298	Rentals & Leases	001-0513-513.4400	\$1,500	\$2,000	\$2,000
300	Printing & Binding	001-0513-513.4700	\$500	\$500	\$700
302	Bad Debt Expense	001-0513-513.4700			
303	Office Supplies	001-0513-513.5100	\$1,500	\$2,500	\$2,500
304	Operating Supplies	001-0513-513.5210	\$2,500	\$2,500	\$2,500
305	Books, Publications, Subscriptions, Regist.	001-0513-513.5400	\$1,000	\$1,000	\$2,500
306	Equipment	001-0513-513.6450			
307					
308	TOTAL OPERATING EXPENSES		\$87,160	\$105,100	\$140,800
309					
310	CAPITAL OUTLAYS				
311	New Technical (Wi-Fi, Computers/Conf. Systems)				\$10,000
312					
313	TOTAL CAPITAL OUTLAYS				\$10,000
314					
315	TOTAL FINANCE EXPENDITURES		\$303,579	\$358,839	\$429,778

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
316					
317	LEGAL COUNSEL-514				
318	EXPENDITURES				
319					
320	OPERATING EXPENSES				
321	Professional Services	001-0514-514.3100	\$40,000	\$50,000	\$100,000
322	Other Legal Services	001-0514-514.3400	\$14,000	\$14,000	\$20,000
323	Town Council - Other Legal service	001-0514-514.4000	\$8,000	\$6,000	
324	Books, Publications, Subscriptions				
325					
326	TOTAL LEGAL EXPENDITURES		\$62,000	\$70,000	\$120,000

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
327					
328	PLANNING AND COMMUNITY DEVELOPMENT - 515				
329	EXPENDITURES				
330	PERSONAL SERVICES				
331	Salaries & Wages-Regular	001-0515-515.1200	\$18,946	\$5,868	\$127,663
332					
333	TOTAL SALARIES & WAGES		\$18,946	\$5,868	\$127,663
334					
335	FRINGE BENEFITS				
336	FICA Taxes - 7.65%	001-0515-515.2100	\$1,449	\$449	\$9,766
337	Retirement 5%	001-0515-515.2200	\$947	\$352	
338	Health & Life Insurance	001-0515-515.2300	\$15,315	\$3,252	\$18,665
339	Workers' Compensation	001-0515-515.2400	\$2,000	\$2,000	\$2,000
340	Unemployment Compensation	001-0515-515.2500			
341					
342	TOTAL FRINGE BENEFITS		\$19,711	\$6,053	\$30,431
343					
344	TOTAL PERSONAL SERVICES		\$38,657	\$11,921	\$158,094
345					
346	OPERATING EXPENSES				
347	Professional Services	001-0515-515.3100	\$8,000	\$8,000	\$40,000
348	Contractual Services	001-0515-515.3400	\$30,000	\$90,000	\$75,000
349	Florida Main Street - Contract	001-0515-515.3401	\$25,000	\$25,000	
350	Contractual Svcs - Code Compliance	001-0515-515.3402	\$40,800	\$40,800	
351	Contractual Svcs - Planner	001-0515-515.3403		\$55,692	
352	Travel & Per Diem	001-0515-515.4000	\$2,000	\$2,000	\$3,000
353	Communication Services	001-0515-515.4100	\$2,300	\$2,300	\$2,500
354	Mail & Freight	001-0515-515.4200	\$1,000	\$1,000	\$3,500
355	Rentals & Leases	001-0515-515.4400	\$4,000	\$4,000	\$4,000
356	Repair & Maintenance Auto	001-0515-515.4610	\$2,000	\$2,000	\$2,000
357	Printing & Binding	001-0515-515.4700	\$1,000	\$1,000	\$1,000
358	Legal Advertising	001-0515-515.4900	\$8,000	\$8,000	\$20,000
359	Office Supplies	001-0515-515.5100	\$500	\$500	\$2,500
360	Operating Supplies	001-0515-515.5210	\$880	\$880	\$2,000
361	Uniforms	001-0515-515.5220	\$500	\$500	\$2,000
362	Gas & Oil	001-0515-515.5290	\$1,500	\$1,500	\$5,000
363	Books, Publications, Subscriptions	001-0515-515.5400	\$1,150	\$1,150	\$2,300
364					
365	TOTAL OPERATING EXPENSES		\$128,630	\$244,322	\$164,800
366					
367					
368	TOTAL COMM. DEVELOP. EXPEND.		\$167,287	\$256,243	\$322,894

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1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
369					
370	DEBT SERVICES EXPENDITURE - 517				
371					
372	DEBT SERVICE-2000 Bond Issue				
373	Principal	001-0517-517.7100	\$55,000	\$50,000	\$55,000
374	Interest	001-0517-517.7200	\$25,000	\$30,750	\$32,000
375	Other Charges	001-0517-517.4915	\$3,000	\$5,000	\$5,000
376	TOTAL DEBT SERVICE EXPENDITURE		\$83,000	\$85,750	\$92,000

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5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
377					
378					
379					
380	POLICE DEPARTMENT-521				
381	EXPENDITURES				
382					
383	PERSONAL SERVICES				
384	Salaries & Wages - Regular	001-0521-521.1200	\$664,258	\$636,209	\$704,707
385	Wages Part-time	001-0521-521.1300	\$29,503	\$30,028	\$51,200
386	Wages Overtime	001-0521-521.1400	\$35,000	\$35,000	\$35,000
387	001-0521-521.1401	001-0521-521.1401			
388	Incentive Pay	001-0521-521.1500	\$7,800	\$7,800	\$7,800
389	Merit Incentive Pay	001-0521-521.1501			\$10,000
390					
391	TOTAL SALARIES & WAGES		\$736,561	\$709,037	\$808,707
392					
393	FRINGE BENEFITS				
394	FICA Taxes - 7.65%	001-0521-521.2100	\$56,347	\$61,905	\$61,866
395	Retirement - Office Staff	001-0521-521.2200	\$2,880	\$4,002	\$4,365
396	Police Officers Retirement	001-0521-521.2201	\$20,000	\$20,000	\$20,000
397	Health & Life Insurance	001-0521-521.2300	\$115,616	\$115,616	\$139,990
398	Workers' Compensation	001-0521-521.2400	\$26,000	\$26,000	\$30,000
399	Unemployment Compensation	001-0521-521.2500	\$2,000	\$2,000	\$2,000
400	TOTAL FRINGE BENEFITS		\$222,843	\$229,523	\$258,221
401					
402	TOTAL PERSONAL SERVICES		\$959,404	\$938,560	\$1,066,928
403					
404	OPERATING EXPENSES				
405	Professional Services	001-0521-521.3100	\$10,000	\$10,000	\$10,000
406	Contractual Services	001-0521-521.3400	\$85,000	\$78,000	\$80,000
407	Travel & Per Diem	001-0521-521.4000	\$3,000	\$2,000	\$2,000
408	Communication	001-0521-521.4100	\$10,000	\$10,000	\$10,000
409	Mail & Freight	001-0521-521.4200	\$500	\$500	\$500
410	Utility Services	001-0521-521.4300	\$16,000	\$16,000	\$12,000
411	Rental & Leases	001-0521-521.4400	\$10,000	\$20,000	\$32,500
412	Repair & Maintenance-Auto	001-0521-521.4610	\$18,000	\$25,000	
413	Printing & Binding	001-0521-521.4700	\$600	\$600	\$600
415	Legal Ads	001-0521-521.4900	\$700	\$700	\$700
416	Alarm System Monitoring	001-0521-521.4910	\$700	\$700	\$700
417	Office Supplies	001-0521-521.5100	\$2,500	\$2,500	\$2,500
418	Operating Supplies	001-0521-521.5210	\$15,200	\$15,200	\$15,200
419	Uniforms & Shoes	001-0521-521.5220	\$5,300	\$5,300	\$5,300
420	Gas & Oil	001-0521-521.5290	\$25,000	\$30,500	\$40,000
421	Books, Publications, Subscriptions	001-0521-521.5400	\$1,000	\$1,000	\$1,000
422	Training	001-0521-521.5410	\$4,000	\$5,000	\$10,000
423	TOTAL OPERATING EXPENSES		\$207,500	\$223,000	\$223,000
424	CAPITAL OUTLAY				
426					
427	Improvements Other	001-0521-521.6300			
428	Vehicle	001-0521-521.6410			\$50,000
429	Equipment (Grant)	001-0521-521.6420	\$10,000	\$10,000	\$20,000
430	TOTAL CAPITAL OUTLAYS		\$10,000	\$10,000	\$20,000
431					
432	TOTAL POLICE EXPENDITURES		\$1,176,904	\$1,171,560	\$1,309,928

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5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
433					
434					
466					
467	FIRE RESCUE-522				
468	EXPENDITURES				
469					
470					
471	OPERATING EXPENSES				
472	Contractual Services	001-0522-522.3400	\$312,538	\$342,035	\$390,945
473	TOTAL OPERATING EXPENSES		\$312,538	\$342,035	\$390,945
474					
475					
476	TOTAL FIRE EXPENDITURES		\$312,538	\$342,035	\$390,945

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5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
477					
478					
479	PUBLIC WORKS-541				
480	EXPENDITURES				
481	PERSONAL SERVICES				
482	Salaries & Wages- Regular	001-0541-541.1200	\$26,696	\$30,368	\$36,236
483	Wages Part-time	001-0541-541.1300			
484	Wages Overtime	001-0541-541.1400			
485	Bonus			\$3,000	
486					
487	TOTAL SALARIES & WAGES		\$26,696	\$33,368	\$36,236
488					
489	FRINGE BENEFITS				
490	FICA Taxes -7.65%	001-0541-541-2100	\$2,042	\$2,323	\$2,772
491	Retirement 5%	001-0541-541.2200	\$279	\$345	\$1,812
492	Health & Life Insurance	001-0541-541.2300	\$2,552	\$2,552	\$6,222
493	Workers' Compensation	001-0541-541.2400	\$822	\$822	\$1,000
494	Unemployment Compensation	001-0541-541.2500			
495					
496	TOTAL FRINGE BENEFITS		\$5,695	\$6,042	\$11,806
497					
498	TOTAL PERSONAL SERVICES		\$32,391	\$39,410	\$48,042
499					
500	OPERATING EXPENSES				
501	Professional Services	001-0541-541.3100	\$15,000	\$15,000	\$15,000
502	Contractual Services	001-0541-541.3400	\$20,000	\$20,000	\$20,000
503	Contractual Svcs Building Maintenance	001-0541-541.3402			\$25,000
504	Contractual Svc - (Town's ROW, Parks,Street)	001-0541-541.3403			\$35,000
505	Contractual Svcs (Maint. All town Vehicles)				\$38,000
506	Travel & Per Diem	001-0541-541.4000	\$500	\$500	\$500
507	Communication Services	001-0541-541.4100	\$2,200	\$2,200	\$2,200
508	Mail & Freight	001-0541-541.4200	\$1,000	\$1,000	\$1,000
509	Utility Services	001-0541-541.4300	\$105,000	\$105,000	\$105,000
510	Rental & Leases	001-0541-541.4400	\$7,500	\$7,500	\$7,500
511	Repair & Maintenance	001-0541-541.4610	\$3,000	\$3,000	\$3,000
512	Building repairs and Maintenance	001-0541-541.4611	\$11,000	\$11,000	\$11,000
513	Repair & Maintenance - Other	001-0541-541.4620			
514	Printing & Binding	001-0541-541.4700	\$500	\$500	\$500
515	Office Supplies	001-0541-541.5100	\$1,400	\$1,400	\$1,400
516	Operating Supplies	001-0541-541.5210	\$16,000	\$16,000	\$16,000
517	Uniforms & Shoes	001-0541-541.5220	\$750	\$750	\$1,000
518	Gas & Oil	001-0541-541.5290	\$1,500	\$1,500	\$1,500
519	Road Materials & Supplies	001-0541-541.5300	\$30,000	\$30,000	\$50,000
520	Books, Publications, Subscriptions	001-0541-541.5400	\$200	\$200	\$200
521	TOTAL OPERATING SUPPLIES		\$215,550	\$215,550	\$333,800
522					
523	CAPITAL OUTLAYS				
524	Building Improvements	001-0541-541.6200			
525	Improvements Other	001-0541-541.6300			
526	Vehicle	001-0541-541.6410	\$20,000		
527	Locate machine			\$20,000	\$20,000
528	Building Renovations			\$300,000	
529	Lawn Equipment(s)		\$15,000	\$15,000	\$15,000
530	TOTAL CAPITAL OUTLAYS		\$35,000	\$335,000	\$35,000
531					
532	TOTAL PUB. WORKS EXPENDITURES		\$282,941	\$589,960	\$416,842

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2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
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5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
533					
534	POST OFFICE - 550				
535	EXPENDITURES				
536	PERSONAL SERVICES				
537	Wages Full - time	001-0550-550.1200	\$18,398	\$19,318	\$23,400
538	Wages Part-time	001-0550-550.1300			
539	Overtime	001-0550.550.1400			
540	TOTAL SALARIES AND WAGES		\$18,398	\$19,318	\$23,400
541	FRINGE BENEFITS				
542	FICA Taxes - 7.65%	001-0550-550.2100	\$1,407	\$1,478	\$1,790
543	Retirement 5%	001-0550-550.2200			\$1,170
544	Health & Life Insurance	001-0550-550.2300			\$9,333
545	Workers' Compensation	001-0550-550.2400	\$84	\$84	\$100
546	Unemployment Compensation	001-0550-550.2500			
547					
548					
549	TOTAL FRINGE BENEFITS		\$1,491	\$1,562	\$12,393
550					
551	TOTAL PERSONAL SERVICES		\$19,889	\$20,880	\$35,793
552	OPERATING EXPENSES				
553	Contractual Services	001-0550-550.3400	\$2,000	\$2,000	\$2,500
554	Communication	001-0550-550.4100	\$800	\$800	\$800
555	Utility Services	001-0550-550.4300	\$2,800	\$2,800	\$3,100
556	Rentals & Leases	001-0550-550.4400			
557	Repairs & Maintenance	001-0550-550.4600			
558	Office Supplies	001-0550-550.5100			
559	Promotional Activities	001-0550-550.4800			
560	Operating Supplies	001-0550-550.5210	\$1,500	\$2,000	
561	TOTAL OPERATING EXPENSES		\$7,100	\$7,600	\$6,400
562					
563					
564	TOTAL POST OFFICE EXPENDITURES		\$26,989	\$28,480	\$42,193

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1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
565					
566					
567					
568	SUMMER FOOD - 560				
569	EXPENDITURES				
570	PERSONAL SERVICES				
571	Wages Part-time	001-0560-560.1300	\$16,860	\$16,860	\$16,860
572					
573	TOTAL SALARIES AND WAGES		\$16,860	\$16,860	\$16,860
574					
575	FRINGE BENEFITS				
576	FICA Taxes - 7.65%	001-0560-560.2100	\$1,319	\$1,319	\$1,319
577	Workers' Compensation	001-0560-560.2400	\$500	\$500	\$500
578					
579	TOTAL FRINGE BENEFITS		\$1,819	\$1,819	\$1,819
580					
581	TOTAL PERSONAL SERVICES		\$18,679	\$18,679	\$18,679
582					
583	OPERATING EXPENSES				
584	Operating Supplies	001-0560-560.5210	\$27,115	\$27,115	\$27,115
585	TOTAL OPERATING EXPENSES		\$27,115	\$27,115	\$27,115
586					
587	TOTAL SUMMER FOOD EXPENDITURES		\$45,794	\$45,794	\$45,794
588					

Section III. Item #1.

**TOWN OF EATONVILLE
FISCAL YEAR (FY) 2022 - 2023
APPROVED GENERAL FUND BUDGET**

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1				
2	TOWN OF EATONVILLE			
3	FISCAL YEAR (FY) 2022 - 2023			
4	APPROVED GENERAL FUND BUDGET			
5				
6				
7		ACCOUNT	FY 20-21	FY 21-22
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED
9			BUDGET	BUDGET
10			7.2938	7.2938
589	COMMUNITY & YOUTH SVCS. DEPT. - 572			
590	EXPENDITURES			
592	PERSONAL SERVICES			
593	Salaries & Wages - Regular	001-0572-572.1200	\$28,500	\$31,500
594	Wages Part-time	001-0572-572.1300	\$16,389	\$20,000
595				
596	TOTAL SALARIES & WAGES		\$44,889	\$51,500
597				
598	FRINGE BENEFITS			
599	FICA Taxes - 7.65%	001-0572-572.2100	\$3,434	\$3,940
600	Retirement 5%	001-0572-572.2200	\$1,425	\$1,768
601	Health & Life Insurance	001-0572-572.2300	\$7,657	\$7,657
602	Workers' Compensation	001-0572-572.2400	\$5,374	\$5,374
603	Unemployment Compensation	001-0572-572.2500	\$1,000	\$1,000
604				
605	TOTAL FRINGE BENEFITS		\$18,890	\$17,971
606				
607	TOTAL PERSONAL SERVICES		\$63,779	\$69,471
608				
609				
610	OPERATING SERVICES			
611	Professional Services	001-0572-572.3100	\$2,100	\$2,100
612	Contractual Services	001-0572-572.3400	\$35,000	\$25,000
613	Contractual Services	001-0572-572.3402		
614	Travel & Per Diem	001-0572-572.4000	\$440	\$440
615	Communication Services	001-0572-572.4100	\$3,500	\$3,500
616	Mail & Freight	001-0572-572.4200	\$1,500	\$1,500
617	Utility Services	001-0572-572.4300	\$25,000	\$25,000
618	Rentals & Leases	001-0572-572.4400	\$7,000	\$7,000
619	Maintenance - Building	001-0572-572.4600	\$6,000	\$6,000
620	Repair & Maintenance -AUTO/OTHERS	001-0572-572.4610	\$2,000	\$2,000
621	Printing & Binding	001-0572-572.4700	\$1,000	\$1,000
622	Promotional Activities	001-0572-572.4800	\$5,000	\$5,000
623	Office Supplies	001-0572-572.5100	\$2,000	\$2,000
624	Operating Supplies	001-0572-572.5210	\$5,000	\$5,000
625	Uniforms	001-0572-572.5220	\$500	\$500
626	Gas & Oil	001-0572-572.5290	\$3,500	\$3,500
627	Books, Publications, Subscriptions	001-0572-572.5400	\$200	\$200
628	Senior Activities	001-0572-572.5600	\$5,500	\$5,500
629	Training	001-0572-572.5410		\$5,000
630	Youth Activities	001-0572-572.5601		\$10,000
631	Building Improvements	001-0572-572.6200		\$15,000
632	TOTAL OPERATING EXPENSES		\$105,240	\$105,240
633				
634	CAPITAL OUTLAYS			
635	Improvements Other	001-0572-572.6300		
636	Playground	001-0572-572.6450		
637				
638	TOTAL CAPITAL OUTLAYS			
639				
640	TOTAL COMMUNITY & YOUTH EXPEND.		\$169,019	\$174,711
				\$303,943

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6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
641					
642	SPECIAL EVENTS - 574 EXPENDITURES				
643					
644	OPERATING EXPENSES				
645					
646	Other Miscellaneous expense - MLK	001-0574-574.4900			\$23,665
647	Other Miscellaneous expense - RWJF	001-0574-574.4901			\$25,000
648					
649	TOTAL OPERATING EXPENSES				
					\$48,665
650					
651					
652					
653					
654					
655					

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6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
656					
657	GENERAL FUND REVENUES	FYI ONLY	\$3,851,611	\$4,056,234	\$4,732,497
658	FUND BALANCE				
659	TOTAL GEN. FUND EXPENDITURES		\$3,509,205	\$4,031,234	\$4,732,497
660					
661	OVER/UNDER BUDGET GENERAL FUND		\$342,406	\$25,000	\$0



Town of Eatonville Wastewater Utility Master Plan (FY 2023/24 to FY 2043/44)

Prepared For:

Town of Eatonville

Chief Administrative Officer Demetris Pressley

Public Works Director Valerie Mundy, P.E.

Prepared By:

CPH, LLC

Project Manager Roberto M. Gonzalez, P.E.

Project Engineers Marisha Innis, E.I.

Gabriela Caron, E.I.

QA/QC Reviewer Scott A. Breitenstein, P.E.

CPH Job No. E6614

February 2024



Roberto M. Gonzalez

Roberto M. Gonzalez, P.E.
FL 56875



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Abbreviations

Abbreviation	Term
AADF	Annual Average Daily Flow
AC	Asbestos Cement Pipe
ARV	Air Release Valve
AWWA	America Water Works Association
CAR	Capacity Analysis Report
CCI	Construction Cost Index
CFR	Code of Federal Regulations
CFWI	Central Florida Water Initiative
Chapter 62-296	Chapter 296: Stationary Sources – Emissions Standards
CIP	Capital Improvements Plan
CO	Consent Order
CRA	Community Redevelopment Area
CWS	Community Water System
DIP	Ductile Iron Pipe
EPS	Extended Period Simulation
ERP	Emergency Response Plan
ERU	Equivalent Residential Unit
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOH	Florida Department of Health
FEMA	Federal Emergency Management Agency
FPS	Feet per second
ft	Feet
GIS	Geographic Information Systems
GPCD	Gallons per capita day
GPD	Gallons per day
GPM	Gallons per minute
HDPE	High Density Polyethylene
HGL	Hydraulic grade line
HP	Horsepower
I&I	Inflow & Infiltration
LF	Linear feet

Abbreviations

Abbreviation	Term
LOS	Level of Service
LRAA	Locational Running Annual Average
MG	Million gallons
mg/L	Milligrams per liter
MGD	Million Gallons Per Day
MGY	Million Gallons Per Year
MSL	Mean Sea Level
OH&P	overhead and profit
PHF	Peak hour flow
POE	Point of Entry
PRV	Pressure reducing valve
psi	Pounds per square inch
PVC	Poly vinyl chloride
RPM	Revolutions Per Minute
R/R	Repair and Replace
SCADA	Supervisory Control and Data Acquisition
SF	Square feet
SJRWMD	St. Johns River Water Management District
SRF	State Revolving Fund
SS	Steady-state
TAC	Technical Advisory Committee
TDH	Total Dynamic Head
Town	Town of Eatonville
USDA	US Department of Agriculture
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VFD	Variable frequency drive
µg/L	Micrograms per liter

Executive Summary

The Master Plan is intended to provide a guide for orderly expansion, operation, and maintenance of the Town of Eatonville (Town) wastewater system. The Town will use this master plan to prepare annual budgets for capital improvements. This Master Plan should be regularly updated to reflect conditions that have changed within the Town's service area. This master plan will update previous wastewater service area projections and assess the need for recommended improvements.

The Town collects wastewater and transmit flow to the City of Altamonte Springs (Altamonte Springs) for treatment and disposal per the conditions of the Wholesale Sewer Services Agreement between the City of Altamonte Springs and the Town of Eatonville. The current agreed monthly fixed volume of billing is 252,893 gallons per day (gpd) which has been the basis for billing since 2000. Currently, the Town and Altamonte Springs are redrafting the Wholesale Sewer Service Agreement for up to 500,000 gpd (**Appendix A**).

The Town owns and operates four (4) lift stations.

1. Park Place Master LS - located at 235 Park Place
2. Campus View LS - located at 201 Campus View Drive
3. Vereen LS - located at 614 Vereen Drive
4. Eaton LS - located at 504 Eaton Street

Additionally, there are seven (7) private lift stations (four (4) are metered and three (3) unmetered)

1. Reserve at Maitland/Bright House PLS - located at 65 Keller Road - Unmetered
2. Reserve at Maitland PLS – located at 70 Keller Road - Unmetered
3. Kennedy Commerce Center PLS – located at 995 W. Kennedy Boulevard - Unmetered
4. West Kennedy Apartments PLS – located at 920 W. Kennedy Boulevard - Metered
5. Enclave Apartments PLS – located at 1010 Shadow Lake Circle - Metered
6. Lake Weston Apartments PLS – located at 110 Zora Place - Metered
7. Host Dime PLS – located at 1 Innovative Place - Metered

Collected wastewater flows are metered and pumped from the Park Place Master LS through a force main owned and operated by the Town, which terminates at a manhole at the corner of McNorton Road and Keller at which point wastewater flow enters the Altamonte Springs collection system. The private lift stations pump directly into the force main, however, the private lift stations are not metered.

Site visits were conducted to assess the current condition of the wastewater system. Sanitary sewer collection and wastewater lift station transmission facility components were evaluated with regard to recommended design and capacity requirements per Florida Department of Environmental Protection (FDEP) and recommendations presented in the 2020 Sanitary Sewer Evaluation Study (SSES) (**Appendix B**).

Currently, the Town is experiencing significant population growth and development in the sanitary sewer collection system service area. The Town collects wastewater from approximately 800 service connections and is projected to increase to approximately 1,700 service connections by 2043. The population increase is projected to double wastewater flow from 0.27 million gallons per day (MGD) to 0.46 MGD by 2043. The growth has resulted in necessary revisions to the population and domestic wastewater flow projections (**Appendix C**). **Updates to the Master Plan should be scheduled every 5 years.**

The Town’s wastewater system maps were updated with new planned developments within the wastewater service area that have developer agreements and are currently being designed or constructed.

1. Lake Weston Apartments (Under Construction)
2. Enclave Apartments (Under Construction)
3. Host Dime (Under Construction)
4. Hungerford Property (Planning)

In addition, development of available vacant land infill was considered for parcels greater than one acre. Future lift stations are likely to be required depending on the locations of planned developments. Specific capital improvements will have to be identified and prioritized by the Town as more planned developments become reality. Planned development sanitary sewer wastewater collection gravity mains and lift station forced mains were incorporated into the Town’s Geographical Information System (GIS).

An engineer’s opinion of probable project costs for improvements were compiled and prioritized. The total probable project cost for the recommended facilities to serve the Town’s wastewater system is approximately **\$36,400,000 Mill** resulting in an estimated cost per residential connection of approximately **\$21,398 per connection** assuming 1,700 total connections (800 existing + 900 planned). Based on prioritization of current and projected wastewater system revenues, a **5-year Capital Improvement Plan (CIP)** program was prepared for budgeting approximately **\$316,000 Thousand to \$6,668,000 Mill per year**.

The Town should continue with current CIP projects as identified in the current budget (**Appendix D**). The recommended five-year CIP program projects for the Wastewater System are based on Class 4 feasibility cost estimates. The Town’s wastewater system has the following major challenges:

- A. **Compliance with Wholesale Sewer Service Agreement** – The Town is in the process of revising the Wholesale Sewer Service Agreement with Altamonte Springs.
- B. **Addressing Infiltration/Inflow (I/I) Issues** - The Lake Lovely Service Area and Eastern Service Area are experiencing significant I/I challenges. Both areas are old and consist of vitrified clay pipes (VCP) which are reaching the end of useful life. VCP is subject to cracks and breaks which allows the surrounding soils and roots to enter the sewer system causing potential sewer blockage; as wells as inflow of groundwater. Blockage results in periodic sewer backups into manholes and into homes on the system. Whereas inflow of groundwater impacts the pumping and treatment capacity of the wastewater system.
- C. **Project Funding Sources** – Currently, the Town does not have impact fees established to fund expansion of wastewater system facility components to meet future development. As a result, the Town uses monthly water rates and secures grant money to fund projects. The Town should conduct a rate study and impact fee analysis to identify capital improvement funding sources.

The following recommendations are provided for the Town to consider updating the current CIP:

1. Replace Vereen Lift Station and install new generator.
2. Clean/Repair/Replace/Line gravity sewer lines and manholes in Lake Lovely project area.
3. Clean/Repair/Replace/Line gravity sewer lines and manholes in Eastern project area.
4. Permit/Design/Construct new wastewater treatment facility for public access reuse.

1.0 Introduction

The Town of Eatonville (Town) authorized CPH, LLC (CPH) to prepare a wastewater utility master plan. This document serves as the Wastewater Utility Master Plan (Master Plan) for the Town from Fiscal Year 2023/24 to Fiscal Year 2043/44.

The wastewater service area includes both planned development plus infill of available vacant land. Currently, the Town collects wastewater from approximately 768 service connections. Future development and infill are projected to increase service connections to approximately 1,697 by 2043.

As a result of development, the wastewater annual average daily flow (AADF) is projected to increase from approximately 0.27 MGD in 2023 to 0.46 MGD in 2043. The projected maximum day (max-day) flows (MDF) are expected to reach 0.91 MGD by 2043, assuming a typical 2 times MDF/AADF peaking factor.

The Town owns, operates and maintains four (4) lift stations (LS), which collect domestic wastewater flows and transmits to the Altamonte Springs Regional Water Reclamation Facility (RWRF) (Permit No. FL0033251) for treatment and disposal of solids and wastewater effluent. In addition, seven (7) private lift stations (PLS) transmit wastewater flows into the Town's wastewater system, of which three (3) are unmetered. **The Altamonte Springs RWRF has proposed to a reserved capacity of 500,000 gpd for Eatonville.**

1.1 Purpose

The purpose of the Master Plan is as follows:

- Evaluate the capacity and condition of the existing wastewater system;
- Compare existing wastewater system capacity to current and future wastewater flows; and
- Develop and prioritize wastewater system CIP projects for the Town to consider implementing over the next 20-year planning horizon.

1.0 Introduction

The Master Plan is intended to provide a guide for the orderly expansion of the Town's wastewater system. The Master Plan includes the following:

- Identification of repair and replacement of gravity sewer system associated with I/I.
- Development of preliminary locations for additional facilities; and
- Description of operational and maintenance standard operation procedures (SOPs) that may be appropriate to implement.

Contained within this Master Plan is a detailed description and analysis of the Town sanitary sewer gravity collection and pump station force main transmission system. Included are recommendations for improvements to the wastewater system to meet the current and future projected population increase within the service area. The population projections contained in this report for the wastewater system were developed from historical planned development.

1.2 Goals

Goals of Eatonville's wastewater system are as follows:

- ❑ Maintain wastewater services that are highly reliable
- ❑ Meet or exceed regulatory requirements
- ❑ Serve existing and future development
- ❑ Construct and maintain adequate infrastructure
- ❑ Serve customers in an environmentally sound manner
- ❑ Serve and operate in a cost-efficient manner
- ❑ Optimize the Wastewater Wholesale Agreement with Altamonte Springs

1.3 Tasks

Formal master planning efforts are a prudent and necessary means of laying the groundwork for the orderly and economical expansion of utility services to meet the needs of growing communities, such as Eatonville. This Master Plan is intended to provide Eatonville with an orderly program for wastewater system expansion over a planned 20-year horizon within the existing and future Service Area.

This Master Plan was prepared using the best available data from existing facilities, customer base and projected wastewater flow from planned development to the wastewater system. The recommended improvements are accompanied by a suggested CIP implementation schedule and construction cost opinions to aid the Town in planning for the future. This report presents planning level recommendations for the wastewater system. The following tasks were developed for this Master Plan:

- 1) **Evaluated Wastewater Collection and Transmission Water System Capacity and Condition**
- Evaluate the capacity of the sanitary sewer system to collect and transmit domestic wastewater flow from current and planned future population within Eatonville’s wastewater service area to the Altamonte Springs RWRf. Future wastewater flows were projected based on serving existing customers and planned new developments plus infill of available vacant land.
- 2) **Recommended a CIP Program** – Recommend immediate, near-term (5-year) and long-term (20-year) improvements to develop CIP projects for the sanitary sewer collection and transmission system.

1.4 Need for the Master Plan

The Town has experienced a steady population growth of 2% per year for the past five years. Currently, the Town is seeing some interest in the development of local properties, which requires an evaluation of the existing wastewater system to meet current and future wastewater flows.

Considering the projected population growth, an evaluation is required to determine if additional lift stations will be required, along with extension and modifications of the existing wastewater force main transmission system. Questions considered are as follows:

- How and where the new improvements are built?
- What size should the improvements be?
- To what design standards should improvements be?
- Who should build the improvements?
- How should the improvements be financed?

In addition, the existing facilities will be evaluated to determine the adequacy of the current service. An evaluation of wastewater flows is required to properly plan and budget for future improvements. Consideration is also given to redevelopment and annexation.

The existing facility evaluations highlight the necessity of developing a “Master Plan”. The Master Plan describes the current and long-term needs and develops a system of phasing capable of meeting existing and long term needs with minimum duplication or waste.

1.5 Scope of the Study and Limitations

This Master Plan generally refers to and presents a long-range plan to meet the expected wastewater flows and transmission. The Master Plan includes information pertaining to phasing and flexibility that will provide general information and guidance for the Town as the wastewater system improvements are developed.

The opinions of probable cost presented in this Master Plan are only at planning level accuracy. Costs of future sanitary sewer gravity collection and lift station force main improvements are projected at an average unit cost without regard to specific details, such as: land purchase; differing site conditions; soils; necessary valves and appurtenances; auxiliary power; etc. The estimated project costs for items such as surveying, soils testing, engineering, legal, and administrative, are included in the cost estimates.

Timing of the improvements in the undeveloped areas, such as the Hungerford Property, is dependent upon the actual construction implementation schedules of the developers. Therefore, the Town has limited control over the timing of wastewater improvements in undeveloped areas.

Due to the unpredictability of the timing and exact nature of future development and based on the available funds for improvements, the locations and/or timing of replacement of gravity and force mains may be altered. The sanitary sewer gravity main collection system and lift station force main transmission system described by this Master Plan indicate the general need for an equivalent wastewater conveyance capacity, which can likely be achieved in several ways.

The final sizes and detailed routing between general connecting points can and should be modified when designed. Additionally, wastewater system improvements should be installed based on an in-depth cost evaluation of various routes. Existing gravity and force main should be kept in place wherever possible and supplemented with new mains. The size of force mains will be determined based on pressure losses

1.0 Introduction

as wastewater flows through a length of the pipeline. SewerCAD hydraulic modeling can be used to simulate the operational characteristics for the force mains; as well as, for various alternatives for addressing lift station surges throughout the wastewater transmission system.

Further, current regulatory requirements; as well as future regulatory requirements currently under consideration for implementation, will be evaluated. The treatment techniques should be reevaluated as major changes and regulatory development occur.

1.6 Plan Maintenance

Eatonville should use this Master Plan as a tool to prepare annual budgets for capital improvements. This Master Plan should be regularly updated to reflect conditions that have changed within Eatonville's service area. **Updates to the Master Plan should be scheduled every 5 years.**

The Plan should be reviewed and evaluated based on regulatory changes, actual population growth, and developing properties. The network of sanitary sewer gravity main collection and lift station force main transmission is a major and critical part of the system.

If prepared, a SewerCAD hydraulic model of the wastewater system should be maintained in the Town's files. In addition, the hydraulic model should be available on the Engineer's computer for subsequent computer analysis as directed by the Town. Future adjustments of the recommended wastewater system improvements could be made and be based on the wastewater flows as allocated in the model.

2.0 Service Area Description

2.1 Geographic Location

Figure 2-1 present a map of the State of Florida showing the location of the Town of Eatonville. Eatonville is in northern Orange County, in Central Florida (Latitude 28.618727, Longitude 81.383440). Eatonville is approximately 7 miles north of the City of Orlando (Orlando).

Figure 2-2 presents a map of the Town of Eatonville’s wastewater service area. The Town is bordered by the City of Winter Park (Winter Park) to the south; the City of Maitland (Maitland) to the north and east; and unincorporated areas of Orange County to the west. Total area of Eatonville, as reported by the United States Census Bureau, is 1.1 square miles (2.8 km²). Approximately 9% of Eatonville is comprised of water, leaving 1.0 square miles of land. Out of the 1.0 square miles, approximately 0.4 square miles are developed.

2.1.1 Wastewater Service Area Land Use and Facilities Location

The Town provides domestic wastewater collection and transmission from within the incorporated Town limits to the Altamonte Springs RWRf. Eatonville’s wastewater service area consists of a mix of industrial, commercial, conservation, unincorporated, and residential areas.

The service area for Eatonville is divided by Interstate 4 (I-4) with most of the residential connections on the east side of I-4 and a majority of the commercial/industrial connections on the west side of I-4. The conservation areas consist of portions of six (6) surrounding lakes.

2.2 Climate

The Town’s climate is considered sub-tropical with long humid summers and mild winters. According to National Climatic Data Center (NCDC) records; there is an average of 238 sunny days per year in the Town with an average high temperature of 92° F and an average low temperature of 53° F. The heaviest rainfalls are in the summer from June to September with an annual average rainfall of 53 inches.

FIGURE 2-1: Town of Eatonville Location Map

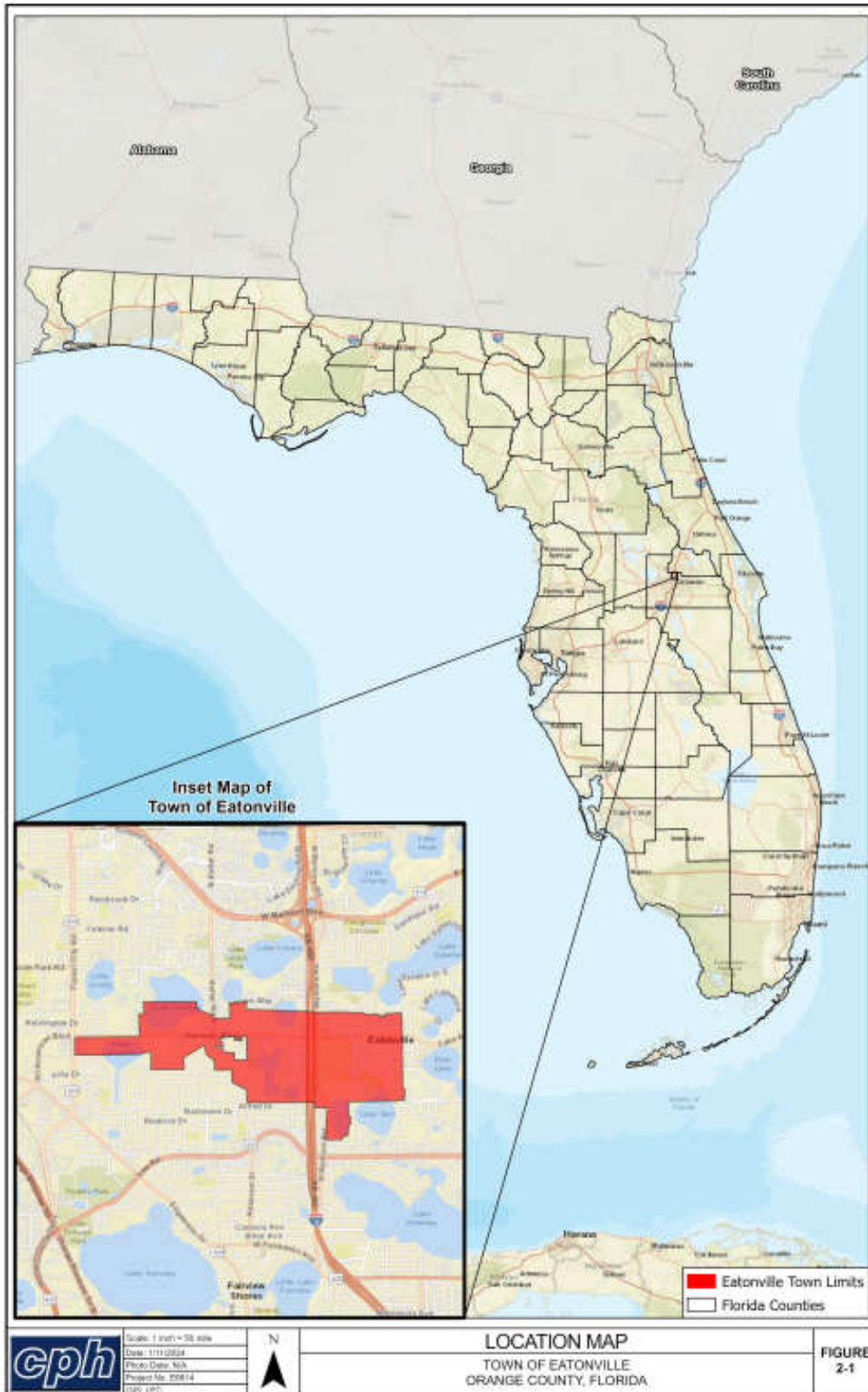
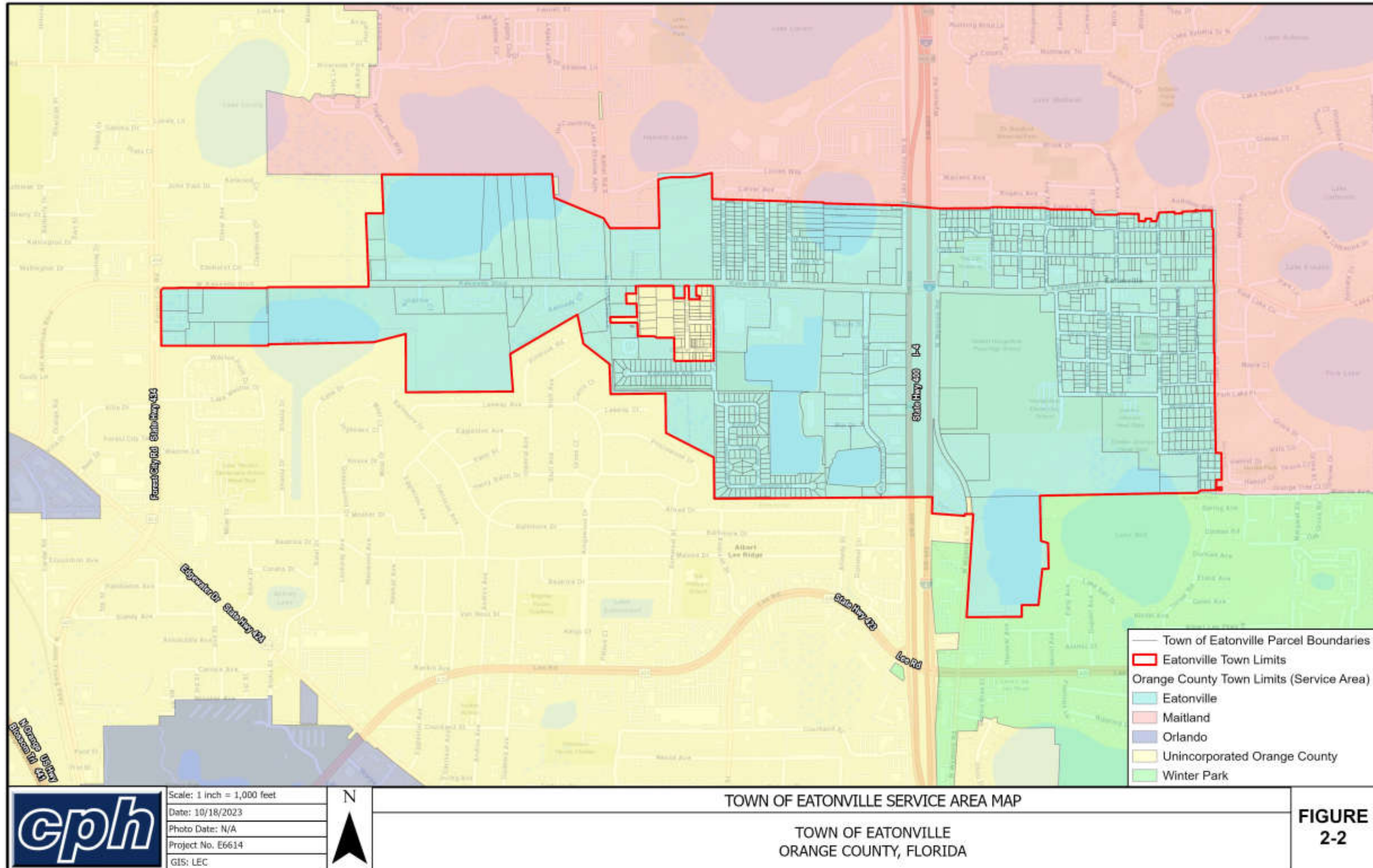


FIGURE 2-2: Town of Eatonville Wastewater Service Area



2.3 Topography and Drainage

The Town has no distinctive hills and has a general elevation of approximately 95 feet above sea level. Drainage is considered generally good with many lakes around the area and sandy soil conditions. The Town is located within the Middle St. John’s River Basin.

2.4 Surface Waters

There are several small lakes bordering the Town, the largest of which are Lake Shadow and Lake Bell. The lakes that fall within town limits are Lake Shadow, Lake Bell, Lake Weston, Hungerford Lake, Lake Wilderness and Lake King. All water resources located in Orange County are designated as Class III, meaning the water can be used for recreational use, including fishing and swimming.

2.5 Soils

Soils have been mapped by the Soil Conservation Service of the U.S. Department of Agriculture. **Figure 2-3** depicts the soils within the Town of Eatonville. Fine sand makes up most of the soil within the Town’s limit, specifically Zolfo-Urban Land complex and Smyrna-Urban Land Complex.

2.6 Ecology

Wetlands border the surface water bodies in and around the Town. No encroachment on existing wetlands is proposed or anticipated. There is a possible longleaf pine ecosystem in the south. There are no prime or unique farmlands, or plant and animal communities.

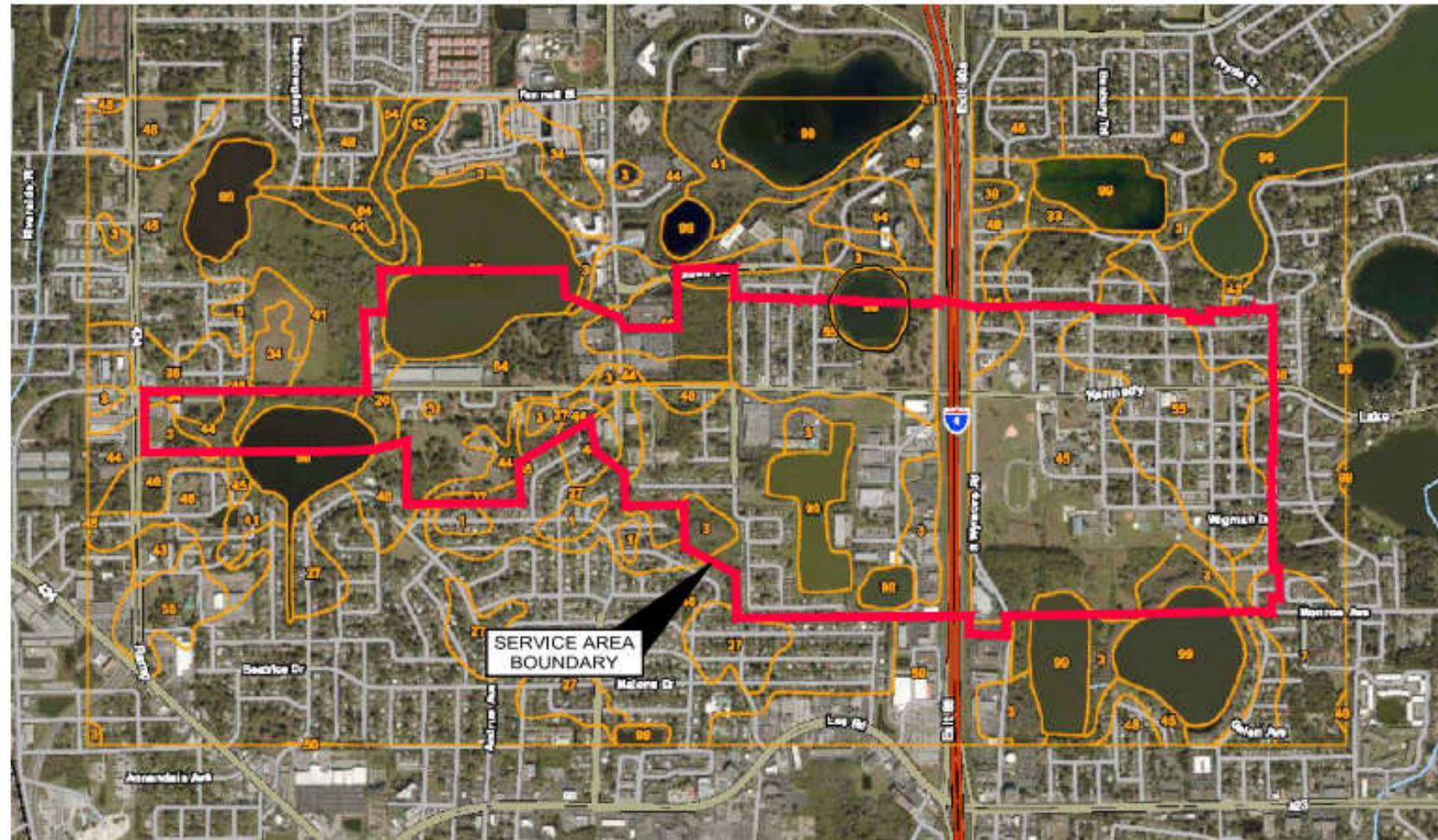
2.7 Air Quality

Overall, the Town’s Air Quality Index has been good (0 to 50) to moderate (51 to 100) since 2009. Currently, the air quality for the Town adheres to the Federal Ambient Air Quality Standards.

2.8 Archeological and Historical Sites

The Eatonville Historic District, just east of Interstate 4, is registered in the National Register for Historic Places. The Historic District encompasses roughly 48 buildings and is bounded by East Avenue, Eaton Street, Clark Street, Fords Avenue, Wymore Road, and Ruffel Street. There are no known archeological sites in the Town.

FIGURE 2-3: Town of Eatonville Soils Map



MAP UNIT/SOILS LEGEND	
Map Unit Symbol	Map Unit Name
1	Arents, nearly level
3	Basinger fine sand, depressional, 0 to 1 percent slopes
7	Candler-Urban land complex, 0 to 5 percent slopes
20	Immokalee fine sand
27	Ona-Urban land complex
33	Pits
34	Pomello fine sand, 0 to 5 percent slopes
35	Pomello-Urban land complex, 0 to 5 percent slopes
37	St. Johns fine sand
39	St. Lucie-Urban land complex, 0 to 5 percent slopes
41	Samsula-Hontoon-Basinger association, depressional
42	Sanibel muck
43	Seffner fine sand, 0 to 2 percent slopes
44	Smyrna-Smyrna, wet, fine sand, 0 to 2 percent slopes
45	Smyrna-Urban land complex
46	Tavares fine sand, 0 to 5 percent slopes
48	Tavares-Urban land complex, 0 to 5 percent slopes
50	Urban land
54	Zolfo fine sand, 0 to 2 percent slopes
55	Zolfo-Urban land complex
99	Water

Designed by:	RMG	Date: 1/17/24
Drawn by:	GCM	Job No. E6614
Checked by:	RMG	File: Soils Map
Approved by:	RMG	
Scale:	N.T.S.	© 2024



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SOILS MAP
TOWN OF EATONVILLE
MASTER WATER UTILITIES PLAN

Figure
2-3

2.9 Flood Plain

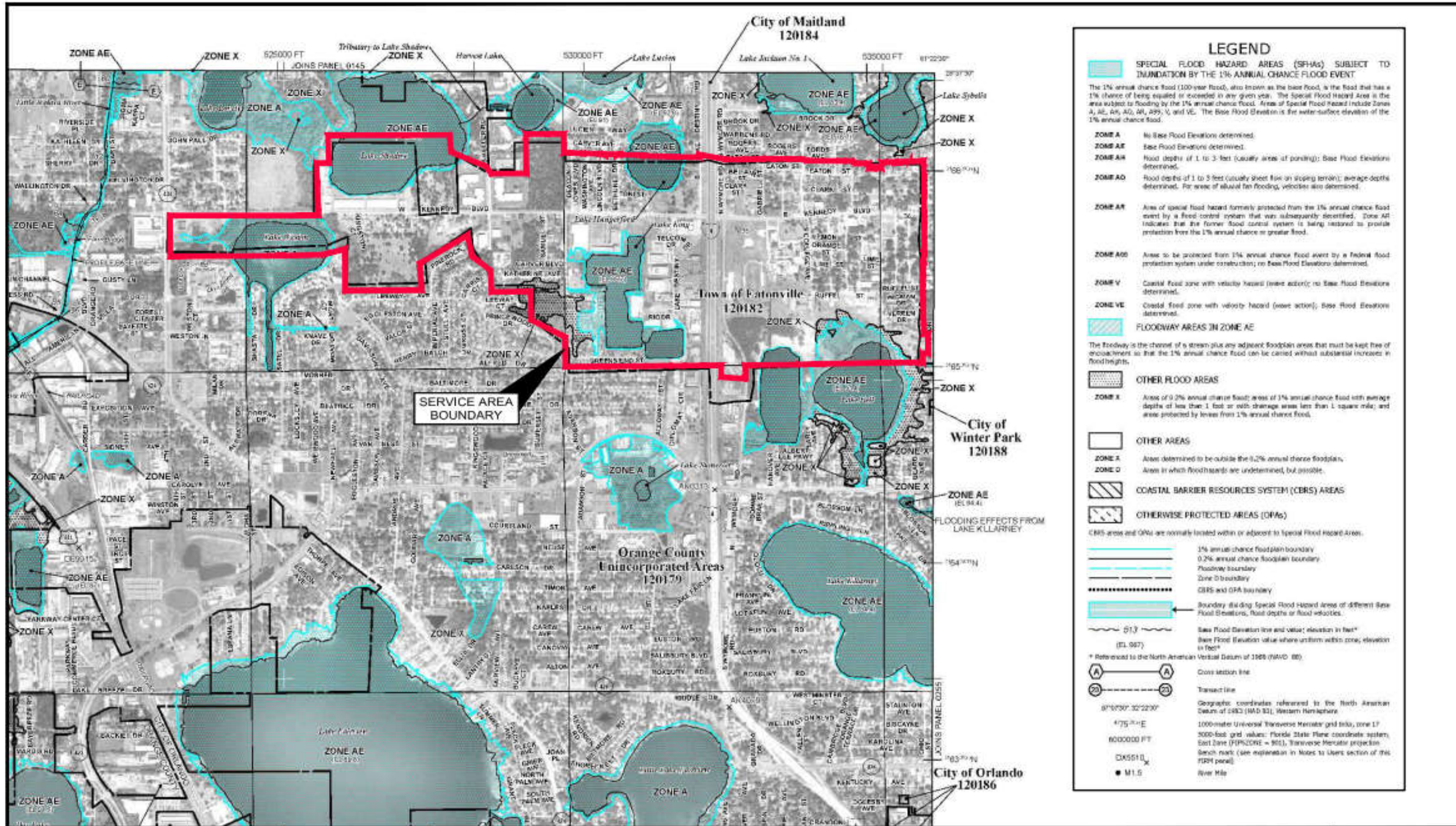
Most of the Town lies in areas of minimal flood hazard, but still there are several areas within the Town identified by the Federal Emergency Management Agency (FEMA) to have potential for flooding in a 100-year storm event (Campus View Area). The potential areas are subject to rising waters due to proximity to a nearby lake.

Figure 2-4 presents the FEMA Flood Map for the Town of Eatonville, which present areas potentially subject to flooding. Flood Zone A and AE represent the 100-year storm event flood levels. There are three (3) areas in the AE Zone or 100-year floodplain, all of which are bordering the lakes surrounding or within Town Limits. Surrounding Lake King and Lake Bell are flood hazard areas. The majority of Town is within Zone X floodplain, which is known as areas outside of the 500-year floodplain or will have minimal flooding.

Areas below the 100-year flood requirements are subject to development standards and restrictions set forth in the Land Development Code. Development or redevelopment of lands throughout the Town are subject to various requirements of the Land Development Code. Regulations for development or redevelopment also require design of stormwater systems to not only meet the Town's requirements, but also the criteria of FDEP and SJRWMD.

The Town is required by SJRWMD to restrict runoff to pre-development conditions. The combination of the flood requirements governs limitations of intensity and density for development or redevelopment in flood prone lands.

FIGURE 2-4: Town of Eatonville FEMA Flood Map



Designed by:	RMG	Date:	1/17/24
Drawn by:	GCM	Job No.:	E6614
Checked by:	RMG	File:	FEMA MAP
Approved by:	RMG		
Scale:	N.T.S.	©	2024

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FEMA MAP
TOWN OF EATONVILLE
MASTER WATER UTILITIES PLAN

Figure
2-4

2.10 Socio-Economic Conditions

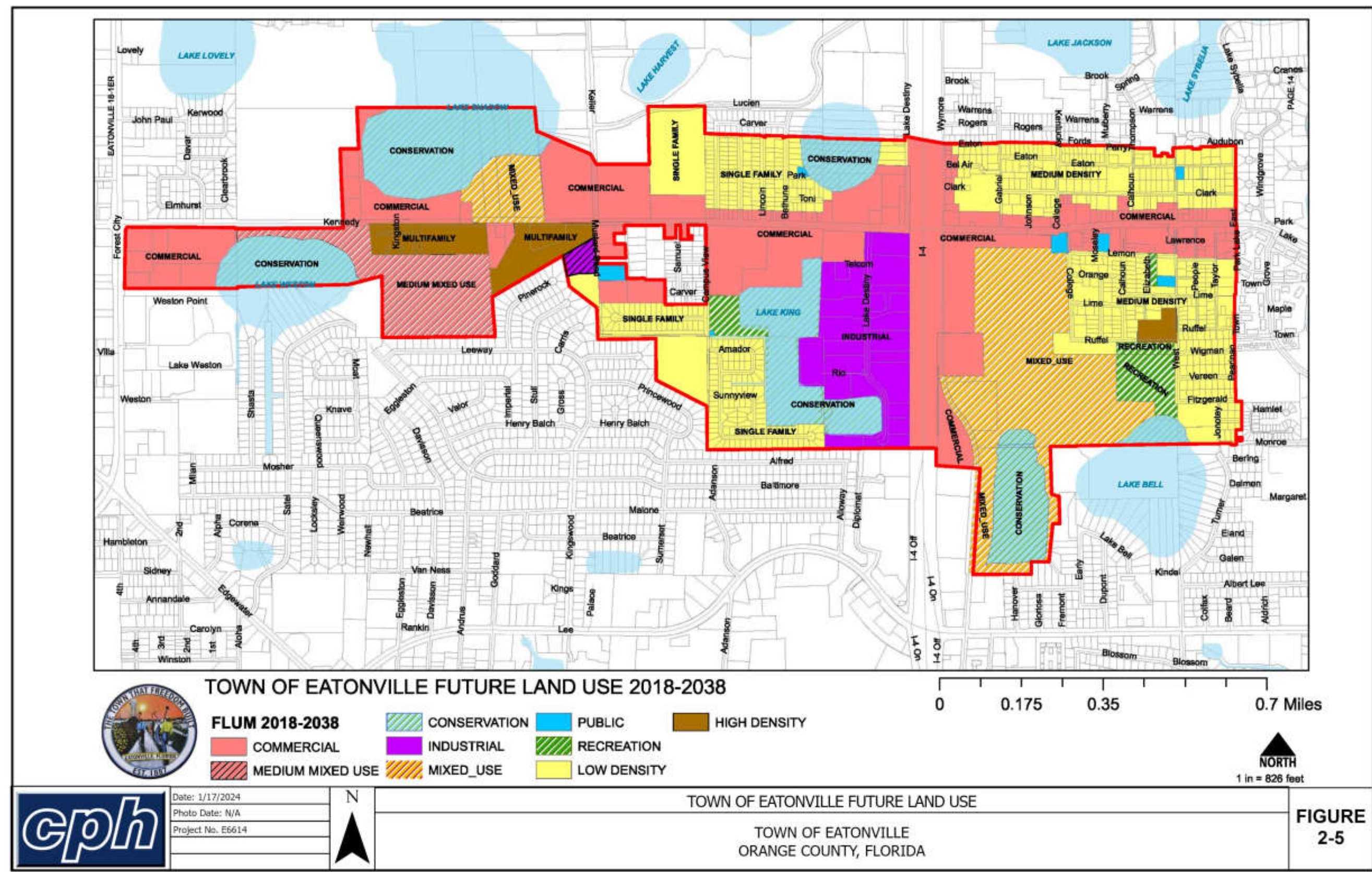
2.10.1 Service Population

The current estimated service population is 2,988 based on 2020 US Census 3.89 persons per household for 768 active connections.

2.10.2 Land Use and Development

The service area is primarily commercial and residential with some industrial and conservation areas located around the lakes. There is one (1) Orange County public school within Town limits, Hungerford Elementary. The former High School has been closed for several years. The Town is currently working with a developer to develop the Hungerford property. **Figure 2-5** presents the Town of Eatonville Future Land Use Zoning map.

FIGURE 2-5: Town of Eatonville Future Land Use Map



3.0 Historic and Projected Wastewater Flows

3.1 Historic Wastewater Flows

The historic population was estimated based on number of service connections. The historic populations were compared to the historic wastewater flows from the Towns master flow meter at the Park Place Master LS to develop a historical per connection wastewater flow. The analysis of the historical flows is necessary to project anticipated future wastewater flows.

The wastewater generation rates were calculated by dividing the wastewater flow by the population. **Table 3-1** presents the annual summary of historical metered wastewater flow rates for the Town of Eatonville from January 2020 to December 2023 compiled from monthly metered recordings reported by Altamonte Springs. The adopted LOS standard for wastewater is typically used as the basis for determining availability of facility capacity for new development.

The Town's Comprehensive Plan adopted level of service (LOS) for wastewater flow is 300 gpd per equivalent residential unit (ERU) connection. The average metered wastewater flow over the last 3 years results in 289 gpd per ERU. As a result, the 3-year average daily capita rate is 10% lower, which results in lower future flow projections of new development being based on the lower historical ERU flow rate. *Also note: the potable water demand is 386 gpd per ERU. Therefore, approximately 97 gpd per ERU is used for irrigation.*

3.2 Future Wastewater Flow Projections

Wastewater flow in the Town is predominately domestic residential with minimal commercial/industrial type flows. In 2023, the Town served approximately 871 wastewater service connections (3,388 persons). Although the Town boundaries are unlikely to expand over the next twenty years, infill and densification is occurring within Town Limits. The Town identified several development areas that are expected to increase the service area population density and result in additional water demand.

Figure 3-1 presents a map of development being planned for construction within Town limits including developable vacant parcels greater than 1 acre. **Table 3-2** presents the status of planned development.

3.0 Historic and Projected Wastewater Flows

TABLE 3-1: Historic Populations and Wastewater Flows

Year	Sewer Connections	Wastewater Service Population (a)	Annual Average Daily Flow (MGD) (b)	Flow Rate per Capita (gpd/person) (c)	Flow Rate per ERU (gpd/ERU) (d)
2020	742	2,886	0.270	94	363
2021	756	2,941	0.173	59	229
2022	768	2,988	0.264	88	348
2023	871	3,388	0.188	55	215
	Average			74	289

- a) Wastewater service population was calculated using the total residential connections times 2020 US Census 3.89 people per household.
- b) Annual Average Day Flow (AADF) was obtained from the Park Place Master LF Flow Meter.
- c) Flow rate per capita was calculated by dividing the AADF with the wastewater service population.
- d) Flow Rate per Equivalent Residential Unit (ERU) was calculated by dividing the AADF with the total sewer connections.

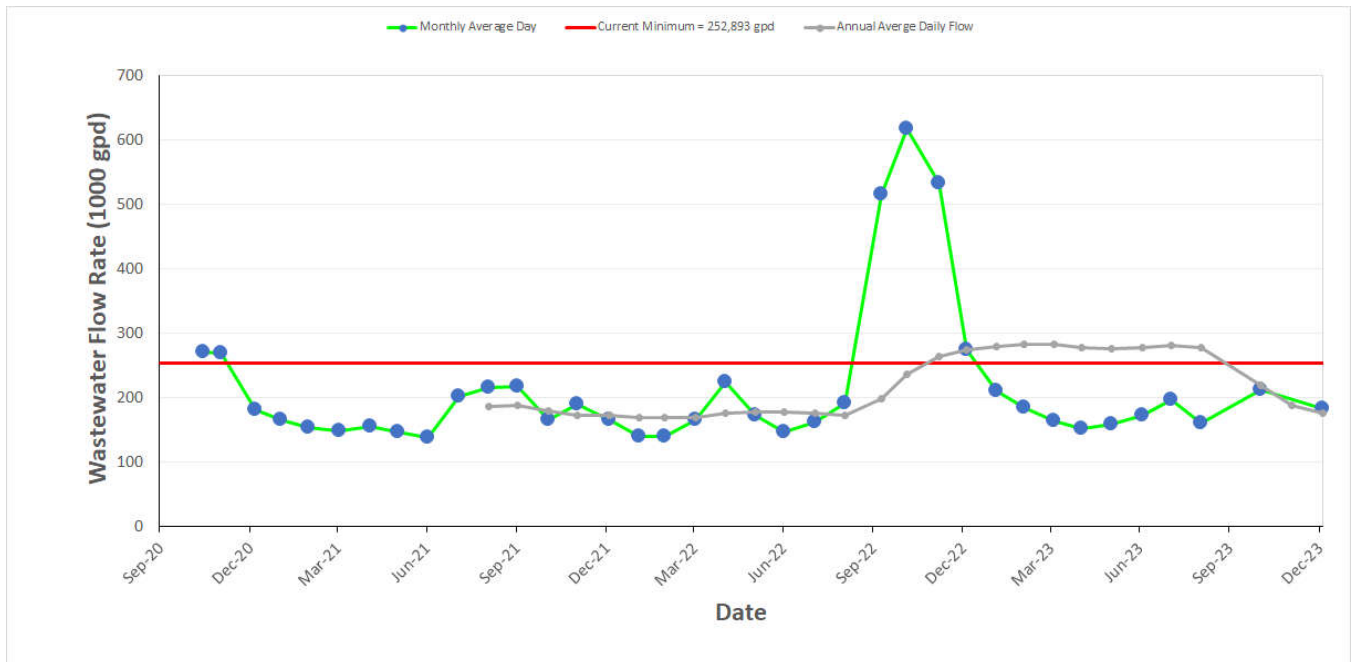
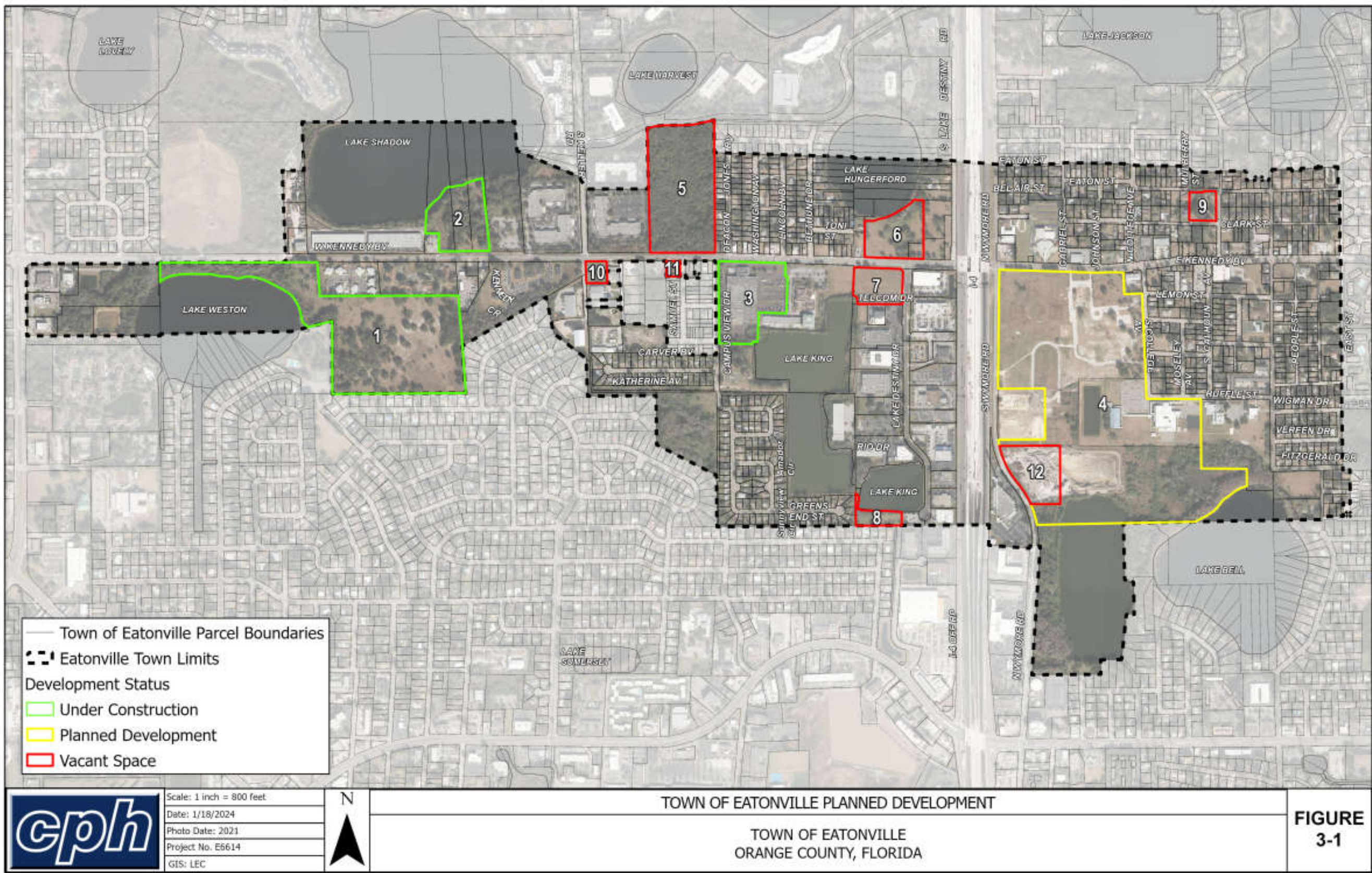


FIGURE 3-1: Town of Eatonville Proposed Development



TOWN OF EATONVILLE PLANNED DEVELOPMENT
 TOWN OF EATONVILLE
 ORANGE COUNTY, FLORIDA

FIGURE 3-1

TABLE 3-2: Town of Eatonville Planned Development

Project ID	Name	Type	Status	Equivalent Residential Units (ERU)	Acres
1	Lake Weston Apartments	Multi Family	In Construction	437	49.5
2	Enclave Apartments	Multi Family	In Construction	97	14.99
3	Host Dime	Commercial	In Construction	33	5
4	Hungerford Property	Mixed Use	Concept Plan	321	67.3
5	BOCPS	C-3	Vacant - County Parks & Rec	75	17.61
6	Bing Property	C-1, C-3, R-2	Vacant	51	6.36
7	Interstate Property	C-3, I-1	Vacant	16	3.7
8	Orra Ventures LLC	I-1	Vacant	7	1.63
9	339 Clark St	R-2	Vacant	13	1.6
10	690 W Kennedy Blvd	C-3	Vacant	4	0.95
11	W Kennedy	R-1	Vacant	5	1.0
12	DOT	C-2/M-U	Vacant - State Forest Parks & Rec	24	5.71
			TOTAL	1,083	175

3.0 Historic and Projected Wastewater Flows

Currently, the Town has three (3) development projects in the wastewater service area that currently under construction, plus the Hungerford Project, which is currently in the conceptual planning stage. Growth is based on planned or anticipated developments throughout the service area. Future service connections were assumed to be provided with both water and wastewater service.

Table 3-2 presents wastewater flow projections for the Town of Eatonville based on average historical flow rates per ERU over the last 3 years. Wastewater flows were projected based on total service area residential population growth. **Appendix D** presents population growth projections used to project wastewater flows, based on the following assumptions:

- Average historical LOS flow per connection of 269 gpd used for flow projection purposes.
- Average persons per household is 3.89, based on the 2020 U.S. Census estimates.
- Projected “sanitary sewer” population growth rate will be the same as the “water” population growth rate.
- Population projections were created using new development plus infill of vacant lots greater than 1 acre.

Population changes should be monitored over the next 3 to 5 years, and the master plan should be re-evaluated based on the actual growth and flow trends observed. The population projections can be a vital tool to determining when future capacity increases are required. If not planned correctly, the Town could experience major issues within the collection/transmission system, as well as the Wholesale Sewer Service Agreement with Altamonte Springs.

Current metered wastewater flow recordings of 270,000 gpd are approximately 7% greater than the monthly fixed volume billing of 252,893 gpd identified in the Wholesale Sewer Service Agreement with Altamonte Springs. The new developments plus infill are projected to increase wastewater flow to 90% of the proposed DRAFT Wholesale Sewer Service Agreement (500,000 gpd AADF). **At this time, Eatonville is still negotiating the Agreement based on population projections and flow rates associated with the current and proposed development projects.**

Future wastewater flows were projected using historical per capita flow rate and assumed peaking factors applied to projected population growth in the total service area. For projecting maximum daily flow (MDF), a typical MDF/AADF peaking factor of 2 was used for the total service area. Similarly, peak hour flow (PHF) for the wastewater system was based on a typical PHF/AADF peaking factor of 4.

3.0 Historic and Projected Wastewater Flows

TABLE 3-3: Projected Service Populations and Wastewater Flows

Year	Sewer Connections	Wastewater Service Population (a)	Projected Annual Average Daily Flow (MGD) (b)	Projected Maximum Daily Flow (MGD) (c)	Projected Peak Hour Flow (gpm) (d)
2023	1,076	4,186	0.29	0.58	805
2024	1,181	4,594	0.32	0.63	888
2025	1,205	4,687	0.32	0.65	888
2026	1,325	5,154	0.36	0.71	999
2027	1,497	5,823	0.40	0.80	1,110
2028	1,577	6,135	0.42	0.85	1,166
2029	1,617	6,290	0.43	0.87	1,194
2030	1,657	6,446	0.44	0.89	1,221
2031	1,673	6,508	0.45	0.90	1,249
2032	1,685	6,555	0.45	0.90	1,249
2033	1,697	6,601	0.46	0.91	1,277
2034	1,697	6,601	0.46	0.91	1,277
2035	1,697	6,601	0.46	0.91	1,277
2036	1,697	6,601	0.46	0.91	1,277
2037	1,697	6,601	0.46	0.91	1,277
2038	1,697	6,601	0.46	0.91	1,277
2039	1,697	6,601	0.46	0.91	1,277
2040	1,697	6,601	0.46	0.91	1,277
2041	1,697	6,601	0.46	0.91	1,277
2042	1,697	6,601	0.46	0.91	1,277
2043	1,697	6,601	0.46	0.91	1,277

- a) Wastewater service population was calculated using the total residential connections times 2020 US Census 3.89 people per household.
- b) Annual Average Daily Flow (AADF) was calculated using 269 gpd per connection.
- c) Maximum Daily Flow (MDF) was calculated by using an assumed 2 times MDF/AADF average peaking factor.
- d) Peak Hour Flow (PHF) was calculated by using an assumed 4 times PHD/AADF peaking factor.

3.0 Historic and Projected Wastewater Flows

Figure 3-2 graphically presents the wastewater service population growth projections adjusted for the new development identified by the Town’s Planning Department plus infill of vacant properties greater than 1 acre. **Figure 3-3** graphically presents the wastewater flow projections for the total service area over a 20-year horizon. Projected wastewater flows to the Altamonte Springs RWRf are projected to increase from 0.27-MGD to 0.46-MGD (100% increase) to the 2043 horizon.

Based on the wastewater flow projections, the permitted and rated design capacities of the Park Place Master LS should be evaluated to the 2043 horizon once Host Dime comes on-line, and the Hungerford Property is Developed.

FIGURE 3-2: Town of Eatonville Wastewater System Population Growth Projection

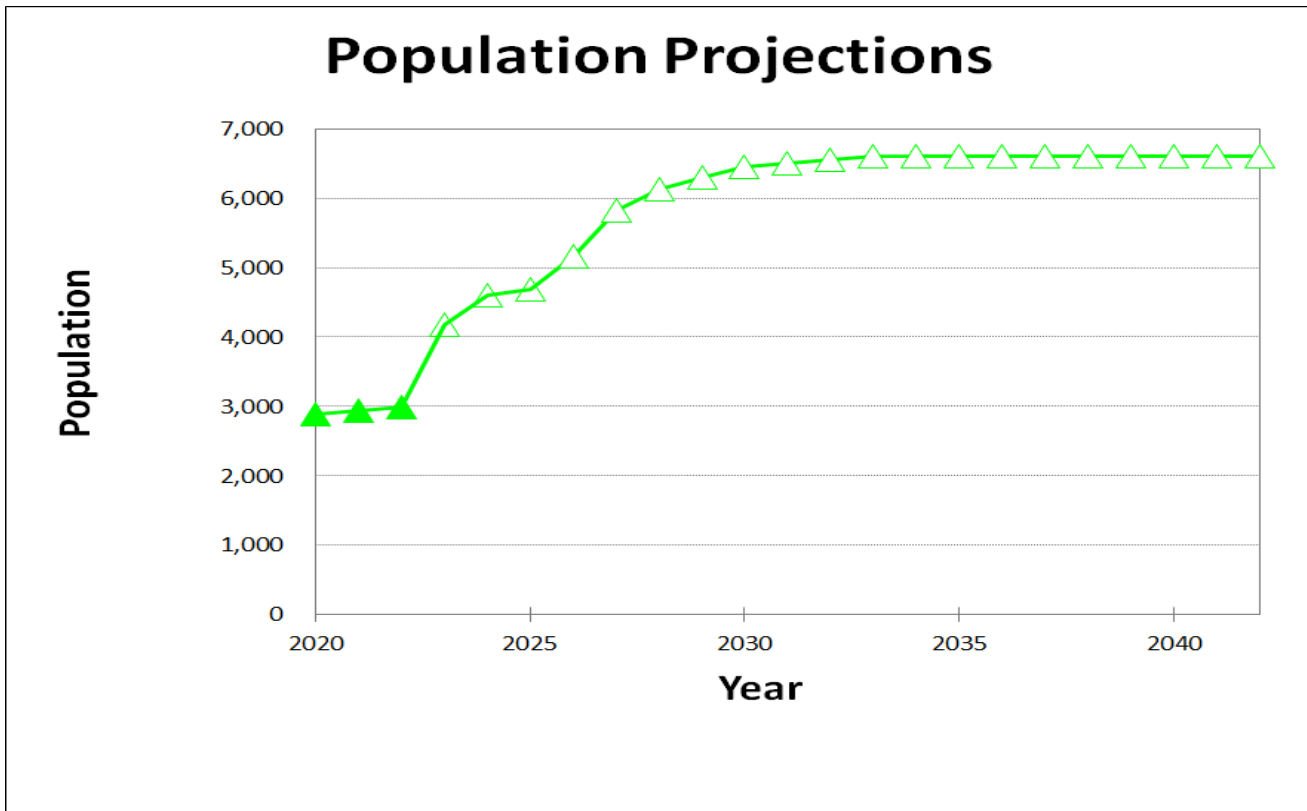
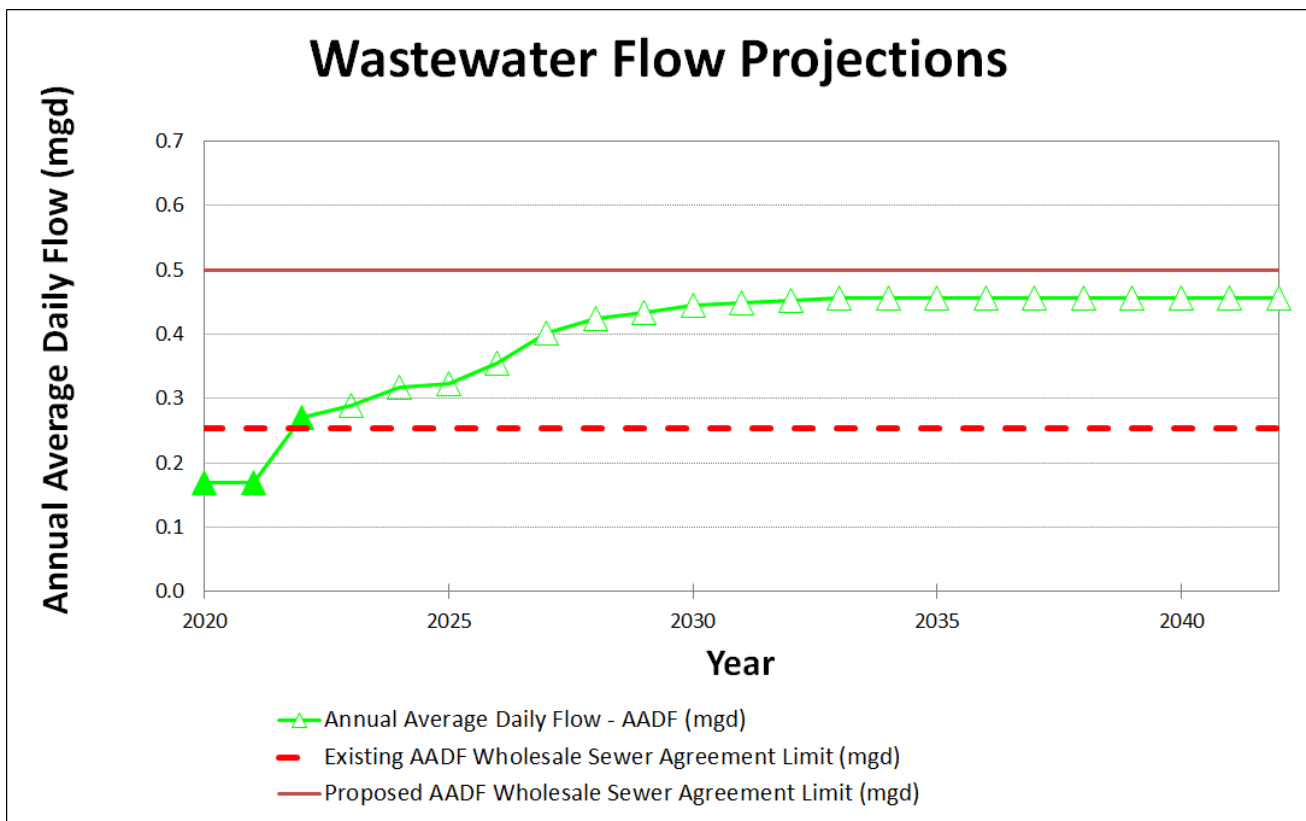


FIGURE 3-3: Town of Eatonville Wastewater Flow Projections



4.0 Existing Wastewater System Overview

The Town owns and operates most of the sanitary sewer wastewater collection and transmission systems that serve the wastewater service area. The Town collects and transmits wastewater to the Altamonte Springs RWRf for treatment and disposal. **Figure 4-1** presents map of the Town of Eatonville wastewater system facilities.

4.1 Eatonville Wastewater System

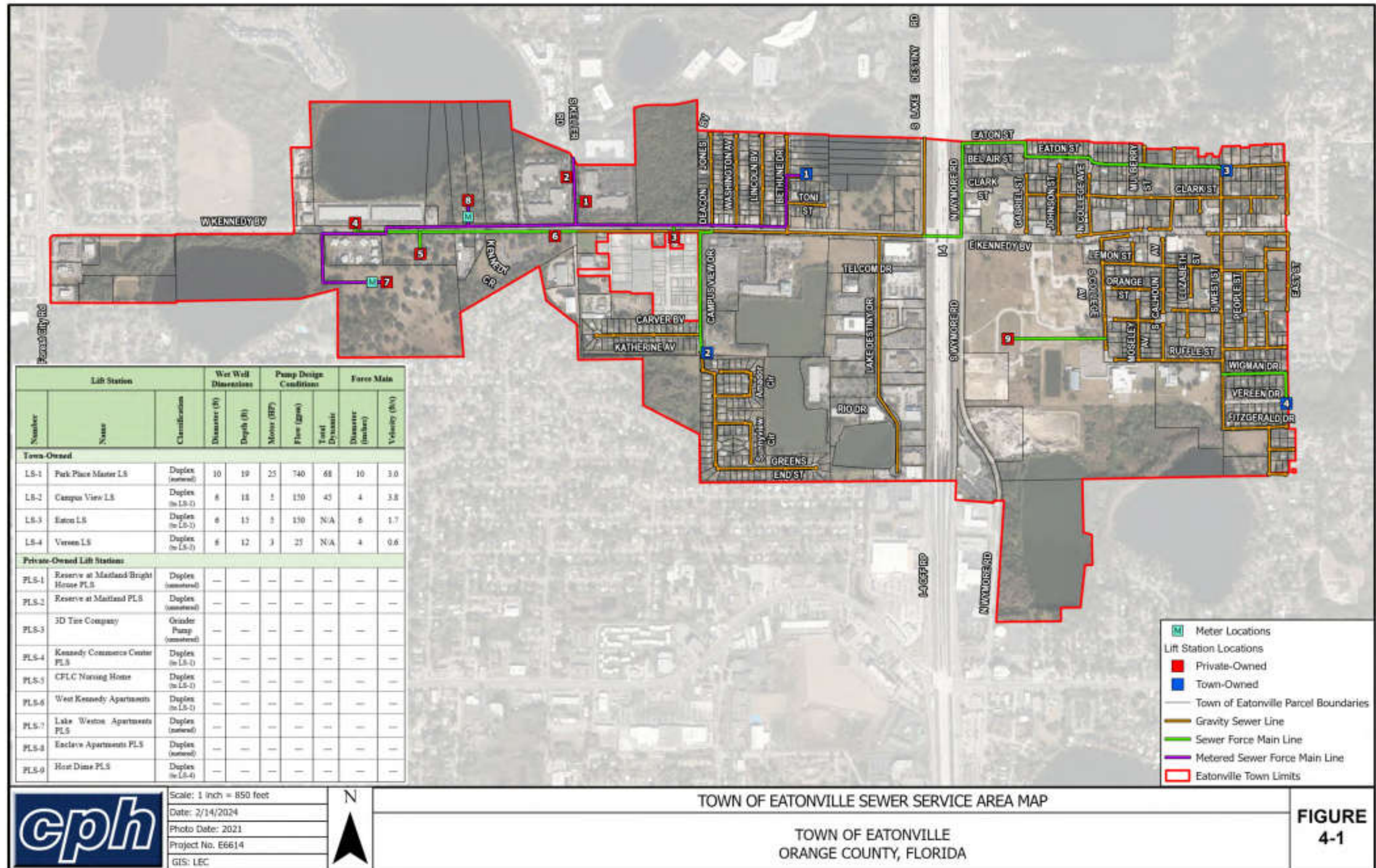
The Town owns and operates four (4) lift stations.

1. Park Place Master LS - located at 235 Park Place
2. Campus View LS - located at 201 Campus View Drive
3. Eaton LS - located at 504 Eaton Street
4. Vereen LS - located at 614 Vereen Drive

Additionally, there are seven (7) private lift stations (four (4) are metered and three (3) unmetered)

1. Reserve at Maitland/Bright House PLS - located at 65 Keller Road - Unmetered
2. Reserve at Maitland PLS – located at 70 Keller Road - Unmetered
3. Kennedy Commerce Center PLS – located at 995 W. Kennedy Boulevard - Unmetered
4. West Kennedy Apartments PLS – located at 920 W. Kennedy Boulevard - Metered
5. Enclave Apartments PLS – located at 1010 Shadow Lake Circle - Metered
6. Lake Weston Apartments PLS – located at 110 Zora Place - Metered
7. Host Dime PLS – located at 1 Innovative Place - Metered

FIGURE 4-1: Sanitary Sewer Collection/Transmission System



4.2 Existing Wastewater Collection System

The Town wastewater collection system collects domestic wastewater and delivers flows to various pumping transmission systems, with the final outfall to the Altamonte Springs RWRf. The wastewater collection system within the Town’s Wastewater Service Area consists of approximately 110,000 lineal feet of gravity sewer, ranging in diameter from 6-inch through 18-inch and over 155 manholes. Manholes within the collection system range from 4 feet to 10 feet deep and are typically spaced 400 feet apart.

The gravity sewer pipe consists of a combination of polyvinyl chloride (PVC), concrete pipe, cast iron, and vitrified clay pipe (VCP). Most of the gravity sewers are VCP pipe, which could be attributing to line failures and infiltration/inflow issues. VCP is a relatively brittle material with lower strength than iron pipe and less flexibility than PVC pipe. VCP has a tendency over time of developing cracks that grow and break the pipe into pieces that fall into the sewer. The pieces can impede flow as well as allow roots to enter and clog the sewers. The openings also allow groundwater to enter the sewers, increasing the hydraulic loading on the treatment facility.

4.3 Existing Wastewater Transmission System

The wastewater transmission system consists of the wastewater pumping stations (lift stations) which collect flow from the gravity sewer system and pump wastewater through force mains, either to another gravity system or directly into a force main and route to the Altamonte Springs RWRf.

Figure 4-2 presents a schematic of the Town of Eatonville transmission system. **Table 4-1** presents the design characteristics of the lift stations. The Town currently owns four (4) lift stations (LS) plus there are seven (7) privately-owned lift stations (PLS) which all convey wastewater to the Altamonte Springs RWRf. Three (3) of the PLSs are unmetered. The lift stations have "submersible" pumps in which the pumps are mounted at the bottom of the wet well and are operated typically by level-controlled floats.

The duplex lift stations contain two (2) pumps labeled usually as “lead” and “lag”. When the raw wastewater reaches a specific elevation in the wet well, the float activates the “lead” pump to come on. As flows continue to rise within the wet well, the “lag” or secondary pump operates to handle the increased flows.

FIGURE 4-2: Schematic Diagram of Sewer Transmission System for Town of Eatonville

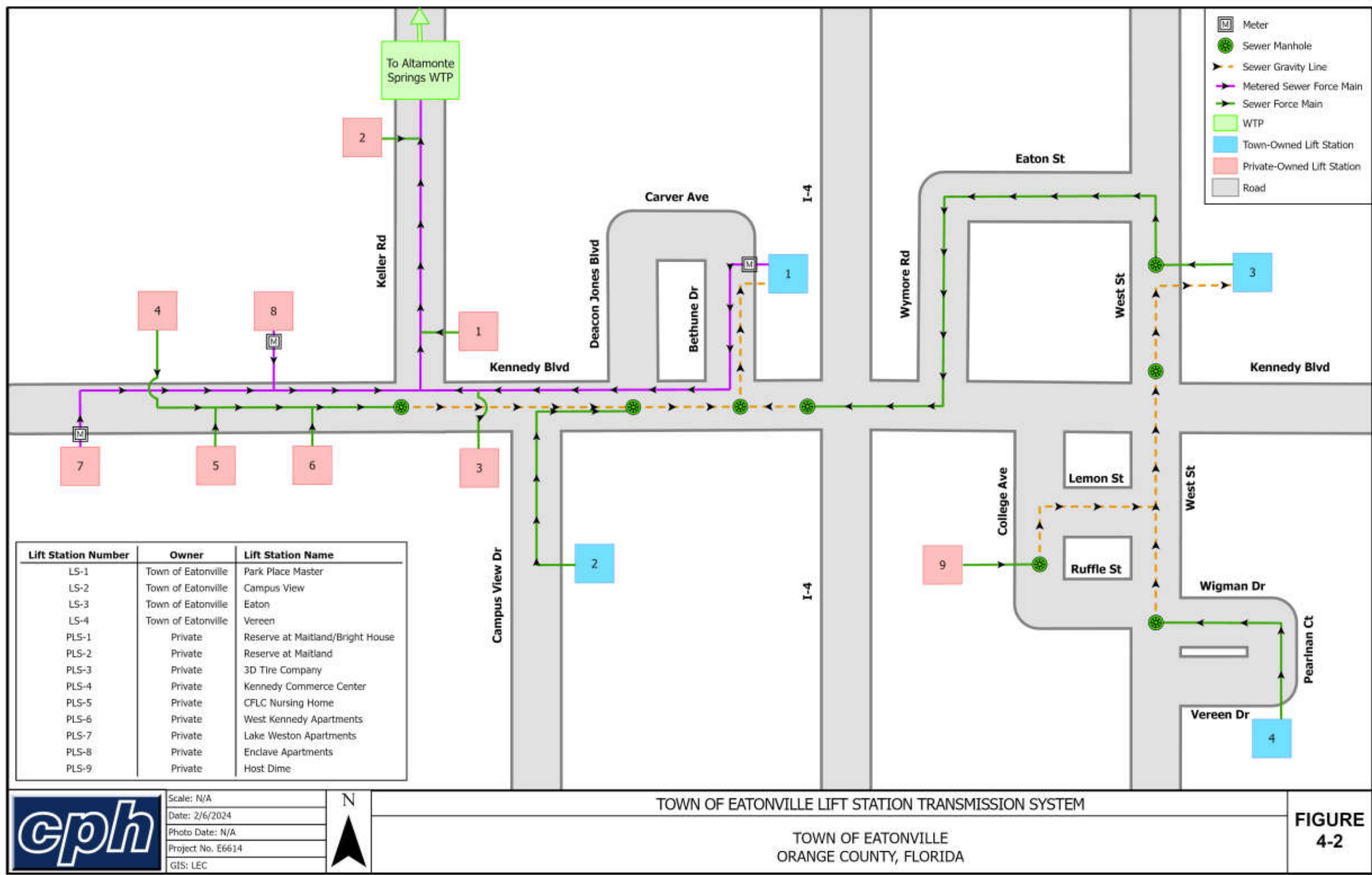


TABLE 4-1: Lift Station Characteristics

Lift Station			Wet Well Dimensions		Pump Design Conditions			Force Main	
Number	Name	Classification	Diameter (ft)	Depth (ft)	Motor (HP)	Flow (gpm)	Total Dynamic Head (ft)	Diameter (inches)	Velocity (ft/s)
Town-Owned									
LS-1	Park Place Master LS	Duplex (metered)	10	19	25	740	68	10	3.0
LS-2	Campus View LS	Duplex (to LS-1)	6	18	5	150	45	4	3.8
LS-3	Eaton LS	Duplex (to LS-1)	6	15	5	150	N/A	6	1.7
LS-4	Vereen LS	Duplex (to LS-3)	6	12	3	25	N/A	4	0.6
Private-Owned Lift Stations									
PLS-1	Reserve at Maitland/Bright House PLS	Duplex (unmetered)	---	---	---	---	---	---	---
PLS-2	Reserve at Maitland PLS	Duplex (unmetered)	---	---	---	---	---	---	---
PLS-3	Kennedy Commerce Center PLS	Duplex (to LS-1)	---	---	---	---	---	---	---
PLS-4	CFLC Nursing Home	Duplex (to LS-1)	---	---	---	---	---	---	---
PLS-5	West Kennedy Apartments	Duplex (to LS-1)	---	---	---	---	---	---	---
PLS-6	Lake Weston Apartments PLS	Duplex (metered)	---	---	---	---	---	---	---
PLS-7	Enclave Apartments PLS	Duplex (metered)	---	---	---	---	---	---	---
PLS-8	Host Dime PLS	Duplex (to LS-4)	---	---	---	---	---	---	---

A normal pump cycle is the time taken for the raw wastewater to fill up and activate the float level control system to turn on the “lead” pump and “lag” pump in the pump stations, and then pump down the wastewater to deactivate the pumps and turn the station off, which completes one cycle. After the cycle is complete, the process will start over again with a different pump operating as the “lead” pump. The cycle helps sustain the life of the pumps and motors.

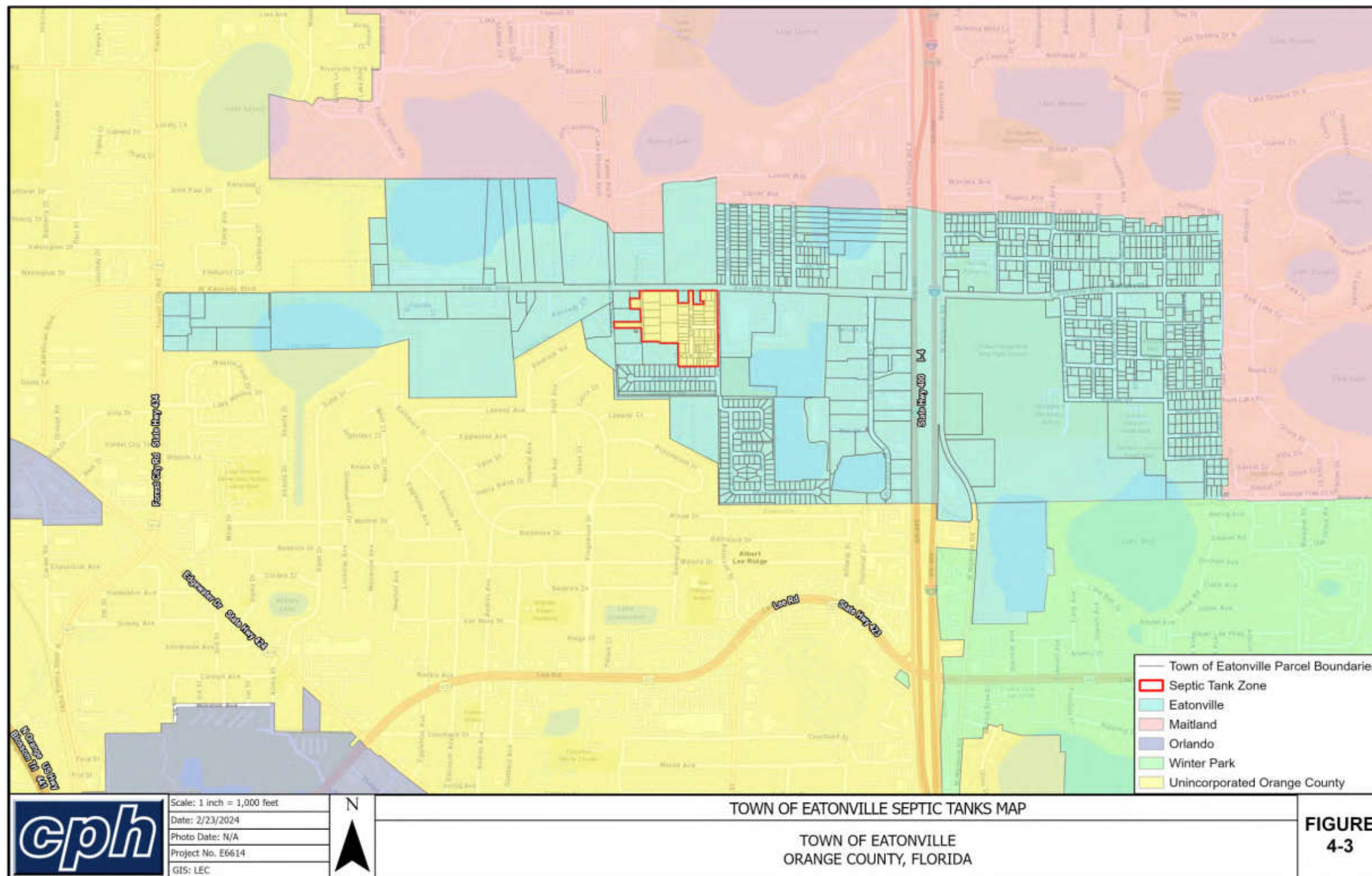
The transmission system is comprised of approximately 17,600 linear feet (10,650 LF of Town Owned 4-inch to 10-inch force mains + 6,950 LF Private). Most force mains are constructed of PVC. Ultimately the raw wastewater is pumped to the Altamonte Springs RWRf.

4.4 On-site Wastewater Treatment and Disposal Systems – Septic Tanks

There are no known areas within the Town’s wastewater service area that are currently being served by on-site wastewater treatment and disposal systems, commonly referred to as “septic tank systems”. **However, the Campus View unincorporated Orange County area has septic tanks.** Figure 4-3 provides the general areas currently on septic tank systems.

If the Town intends to incorporate the Campus View area into Town limits, the Town should budget to develop a septic tank elimination program. The Town is investigating ways to allow for septic tank systems to connect to the Town’s sanitary sewer collection system, with the intent of minimizing the economic hardship on the resident. The primary focus of the septic tank phase-out program should be in areas with private drinking water wells and areas adjacent to water bodies.

FIGURE 4-3 Town of Eatonville Septic Tanks Area



4.5 Collection System Evaluation

The overall collection system appears to be operating as intended; however, there are known areas of concern. As detailed in the 2021 Sanitary Sewer Evaluation the following two (2) areas of the collection system are severely deteriorated (**Appendix B**).

1. **Lake Lovely Project Area** (**Figure 4-4**) – The primary issue in the Lake Lovely Project Area is significant root growth into the pipes and lateral lines, which causes blockage and significant I/I. Manhole 437 (MH-437) near the intersection of W. Kennedy Blvd. and Deacon Jones Blvd. collapsed and the Town did not replace the manhole. The repair work to MH-437 is temporary and could cause public safety issues and concerns.
2. **Eastern Project Area** (**Figure 4-5**) – The primary issue in the Eastern Project Area is aging vitrified clay pipes partially broken or extensive cracks and fractures. The area is also experiencing blockage and I/I from root growth within the pipe joints and service laterals. Additionally, sags along the gravity sewer system are disrupting proper flow and causing slopes less than the minimum design standard slope.

The Town has recently repaired and replaced the Campus View sanitary sewer system which is in a flood prone area as identified in the FEMA Flood map (**Figure 2-4**, presented previously).

4.5.1 Infiltration/Inflow Study/Plan and Implementation Program

The Town has experience some “Infiltration/Inflow” (I/I) during periods of heavy rain. I/I is common in collection/transmissions systems that contain older gravity sewer systems, comprised of vitrified clay pipe (VCP). Periods of heavy flow can cause operational difficulties.

Specifically, *infiltration* occurs when groundwater enters the existing sewer lines because of material and/or joint degradation and deterioration, as well as when sewer lines are poorly designed, constructed and/or maintained. *Inflow* occurs when rainfall enters the sewer system through direct connections such as roof drains, yard drains, open cleanouts, pick holes in manhole covers and frame seals or indirect connections with storm sewers.

FIGURE 4-4: Suggested Lake Lovely Service Area Repair and Replacement

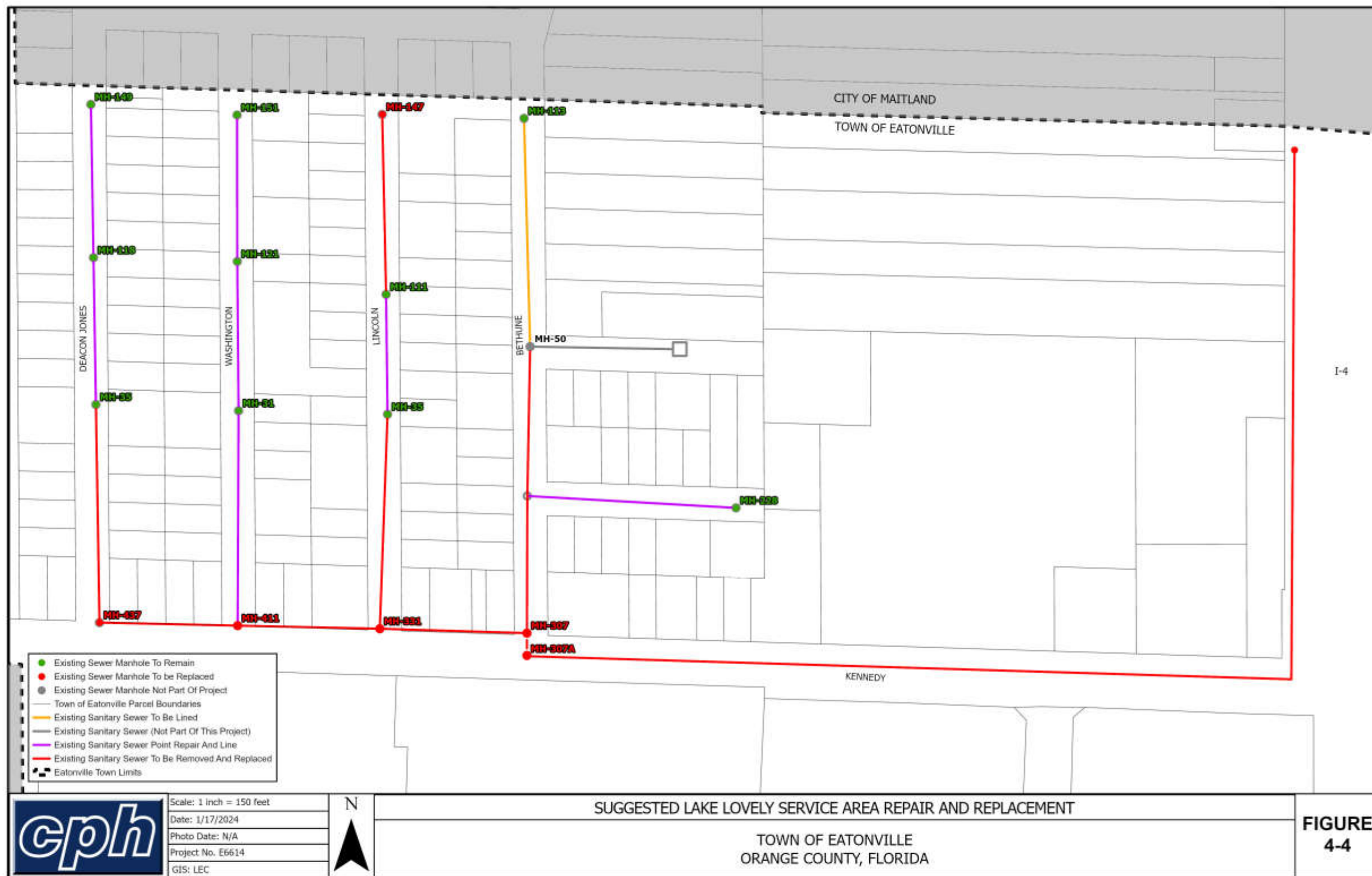
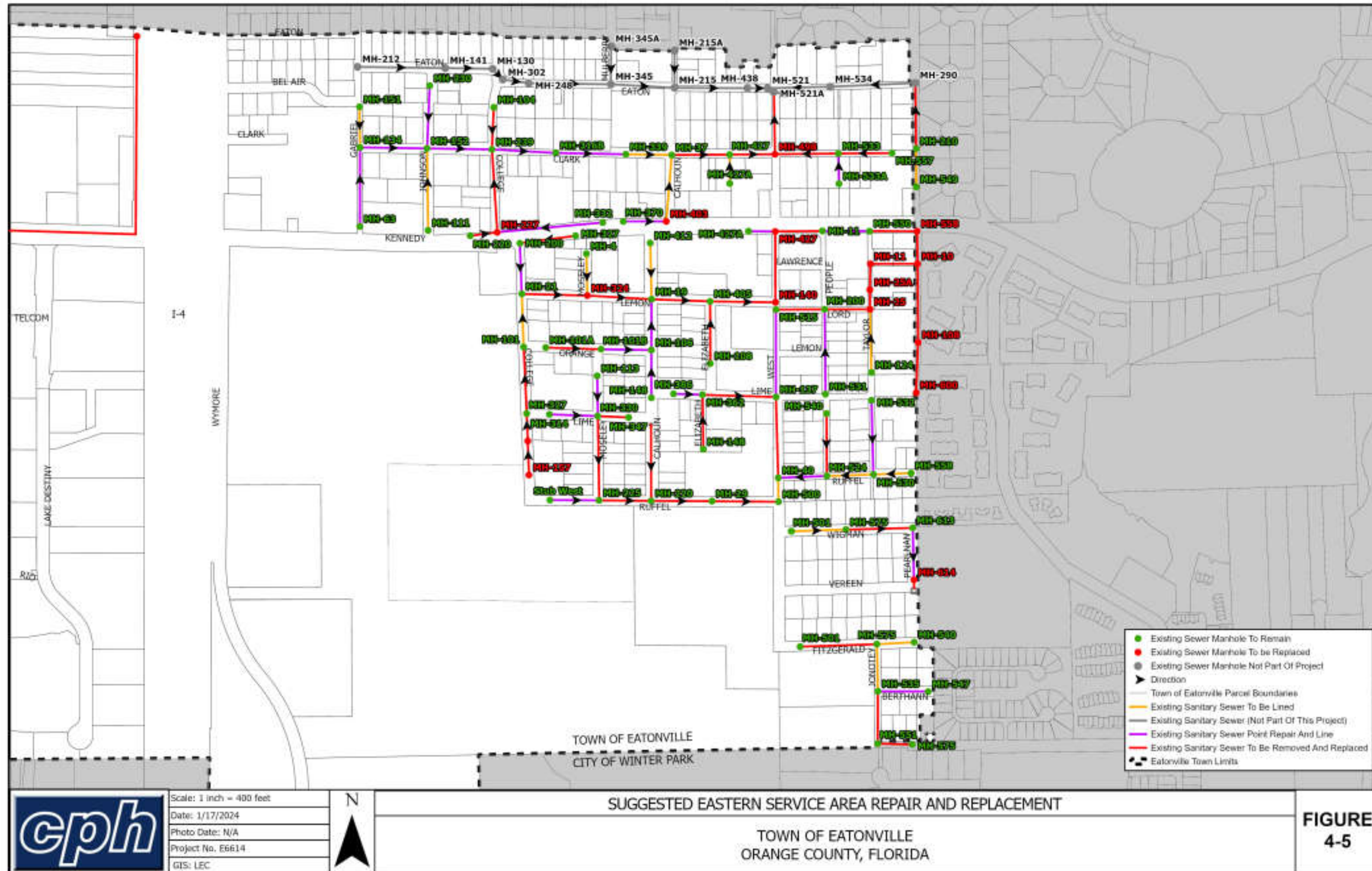


FIGURE 4-5: Suggested Eastern Service Area Repair and Replacement



Extraneous water from I/I sources reduces capacity and capability of sewer systems and treatment facilities to transport and treat domestic wastewaters. During periods of high groundwater and large or sudden storm events, I/I entering the system may cause sewer surcharging, with potential of wastewater backups into homes and businesses.

Localized overflows of untreated sewage and inadequate treatment at treatment facilities cause an increase in the cost of operating the collection and treatment systems, and adversely impact public health, welfare and the environment.

The control of I/I by sewer system rehabilitation and an on-going operations and maintenance program to identify areas of concern is essential to protect the Town's investment in the sewer collection/transmission systems and the Wholesale Sewer Agreement with Altamonte Springs.

The Town's collection sub-systems are designed to handle a quantified volume of flow. Significant damage can occur if collection systems are forced to transport larger volumes than the systems are designed to handle. I/I can contribute considerably to increased volumes, placing an unnecessary burden on collection system and lift station facilities.

Without monitoring, systems with I/I challenges may encounter problems such as sewer backups, flooding, collapsed streets, and contamination of nearby water resources. Problems can lead to fines by the State and Federal government, increased facility operating costs due to the need for additional run time for pumps and pump stations, as well as increased costs for energy, maintenance, and repair.

Additionally, sanitary sewer overflows (SSOs) can occur when wastewater flow volumes exceed the design capacity of the collection/transmission systems. Monitoring and correcting SSOs can be very costly. Therefore, periodic I/I evaluations are highly recommended as a preventative measure to identify potential and probable problem areas.

The Town has made repairs to parts of the system and has replaced the Campus View Sewer Service Area that have known to have I&I issues. However, the Town should continue to evaluate the collection system and develop an I/I Study to initiate a "repair and replacement" (R&R) program to solve issues in the areas of concern. An I/I study is intended to supplement and strengthen what the Town currently performs related to I/I issues. The I/I study should include at a minimum the following:

1. **Televising Lines** - The Town can determine where groundwater and stormwater is entering the sanitary sewer system by televising lines during rainfall events or when high groundwater conditions exist. Also, evidence of infiltration, such as mineral deposits and staining is commonly evident on the video inspections. Televising lines is also an effective method of locating illegal connections.
2. **Manhole Inspections** - The Town should visually inspect manholes for signs of infiltration from the cover, walls, joints, and pipe connections. Manhole inspections should be conducted on a routine basis.
3. **Smoke Testing** - Smoke testing is an effective method for locating I/I areas of concern. Smoke is blown into the system and escapes through openings in the system. The escaping smoke will identify leaks in pipes and illegal connections to the system. **Notify residents when conducting smoke testing, because of the potential for smoke to enter residences.**
4. **Dye Testing** - Dye testing is an effective method for testing for inflow problems. Dye is poured into storm water locations such as drain tiles and sump pumps. If the dye ends up in the sanitary sewer system, there is an improper connection to the system. **Because of privacy concerns, the Town should consult the Town attorney before conducting dye testing.**
5. **Home Inspections** - Home inspections are a good way to determine whether residents are illegally connected to the sanitary sewer system. In order to establish such an inspection program, the Town sewer ordinance should contain a provision requiring residents to submit to an inspection by (1) a qualified Town representative; or (2) a licensed plumber of the resident's choosing when applying for building permits. The Town could assess a service fee to residents refusing to allow the inspection and/or neglecting to fix the illegal connection. **Because of privacy concerns, the Town should consult the Town attorney prior to conducting home-to-home inspections.**
6. **Repair and Replace (R&R) Infrastructure** – Develop a schedule for repairing and replacing sewer lines and manholes that have infiltration problems. Repair of infrastructure may be accomplished through slip lining, spot repairs or replacement. The Town's R&R schedule should prioritize repair and replacement activities, considering the Town's budget, areas of concern, and equipment and manpower limitations.

7. **Notify and Educate the Public** - Notify and educate the public about I/I issues and the steps the Town is taking to address the issues. Residents can be educated about I/I reduction efforts through mailings included with utility bills, newspaper announcements, and on the Town's web site. Informed residents will understand the nature and impact of I/I challenges and therefore be more likely to voluntarily correct illegal connections and consent to Town inspections.
8. **Reporting** – Develop a summary report of the work done to identify problems; as well as the actual work performed to eliminate I/I challenges should be prepared and kept on file at Town Hall, in case inspections are done by the regulatory agencies, or questions are asked by the media. The summary report should include:
 - a. A map that identifies the areas of investigation for the year; as well as the corrective actions taken to rectify deficiencies.
 - b. A map to show the anticipated areas for upcoming investigations.
 - c. A calculation of the estimated I/I volumes corrected and compared to billed and treated flows.
 - d. A summary of the expenditures for I/I related investigations and corrective measures taken for the year.
 - e. A summary of identified illegal or identified unauthorized connections to the Town's systems.
 - f. A summary of known overflows and the determined cause for the overflow.

Town staff should implement an I/I study by first cleaning and then conducting video inspections in older parts of the collection system to determine the areas that are compromised by roots growing through the sewer mains and/or pipe settlement causing cracks or joint separation. The inspections should include providing an inventory of brick laid manholes, because brick laid manholes contribute significantly to I/I conditions.

Once the information has been gathered on the areas of the collection system that need repair or replacement, then the R&R program should be developed and budgeted. The R&R program should have a 5-year completion period, or less, depending on the length of gravity pipe needing work, the number of manholes needing improvement, and the Town's finances to budget such work. The areas

where problems are located, type of pipe failure, and the associated cost would dictate the repair method selected. There are several in-situ methods available in repairing/replacing defective gravity mains, such as the pipe bursting method, and pipe lining.

4.5.2 Manholes

Older manholes, especially manholes made of brick, can develop cracks leading to infiltration. Additionally, manholes receiving force main discharge can deteriorate by erosion from hydrogen sulfide (H₂S) gas. Review of existing system maps indicate there are three (3) manholes that receive force main discharges. The manholes should be checked to assess condition and be quickly repaired, if needed.

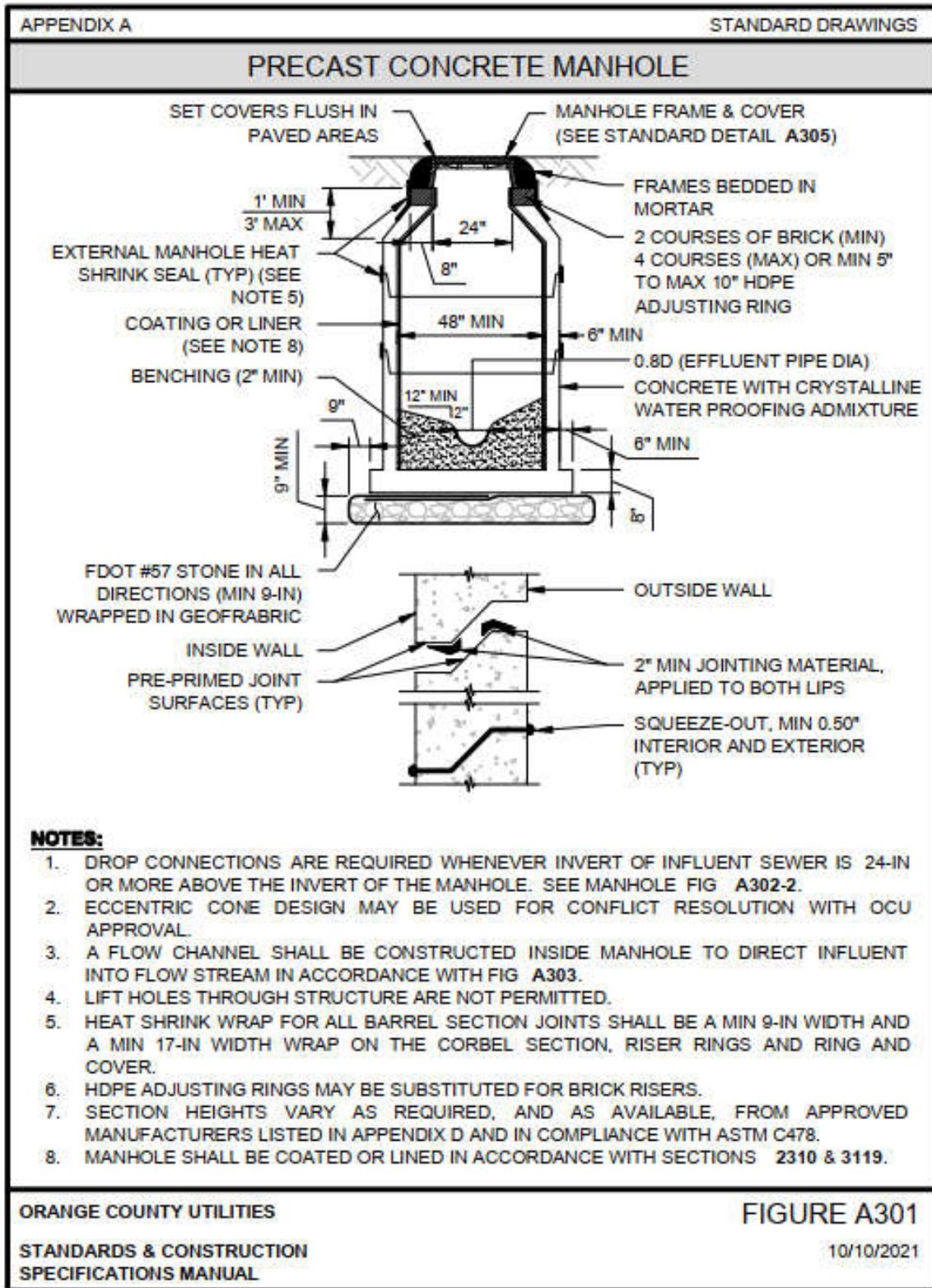
To repair compromised manholes, either fiberglass inserts or a “spray on” lining can be used, with both methods having a 50-year life expectancy. **Figure 4-6** presents an Orange County standard manhole detail. The standard manhole detail should include a note stating that manholes receiving force main discharge shall be lined with a fiberglass or high-density polyethylene (HDPE) liner, coated with a corrosion-resistant coating or provided with a waterproofing concrete admix.

4.5.3 Gravity Sewer Main and Manhole Design Factors

Design criteria for gravity sewer main and manholes are based on requirements of the FDEP Chapter 62-604, Florida Administrative Code (F.A.C.) as reference in “*Ten-States Standards – Recommended Standards for Wastewater Facilities*”. Key design factors are as follows:

- a. Gravity Sewer Material = Polyvinylchloride (PVC) meeting ASTM D3034 – Type PSM PVC Sewer Pipe and Fittings.
- b. Minimum Pipe Diameter = 8 inches
- c. Minimum Slope = 0.40%, for a velocity of 2.0 feet per second (FPS).
- d. Maximum Velocity = 15 fps.
- e. Manholes will be precast concrete meeting ASTM C478 with a minimum diameter of 48 inches with minimum access diameter if 22 inches.
- f. Maximum Manhole Spacing = 400 feet.

FIGURE 4-6: Standard Manhole Detail



4.6 Transmission System Evaluation

The intent of this section is to evaluate the compliance of the existing lift stations and the associated force mains, which make up the transmission system.

4.6.1 Lift Station Evaluations

According to motor manufacturers, generally a motor should not start more than 10 times in a one-hour period, depending on size. Lift stations are not typically designed for all pumps to operate at the same time. Typically, when all pumps must operate together regularly in one cycle, the wet well and/or pumps are undersized, or the float control system is malfunctioning, and corrective measures need to be made. Generally, if pumps run for more than 8 hours per day, the pumps are likely undersized or I/I have compromised the system.

Appendix C contains a table showing the average pump run times in hours per day for each pump in each lift station. In general, the pumps appear to be alternating properly, with similar run times for each pump.

Each pump should be designed to pump peak flow of the lift station. Typically, peak hour flow is determined by the AADF times a peaking factor of 4.0. The AADF into the lift station is estimated based on the type of units contributing to the total flows, i.e., residential, commercial, institutional.

4.6.2 Force Main Evaluations

In accordance with Chapter 62-604, F.A.C, force mains shall be designed so that the minimum velocity through the pipe is not less than 2.0 feet per second (fps) to prevent solids from settling. In addition, industry standards suggest that the maximum velocity in a force main should not exceed 5.0 fps to prevent internal pipe erosion.

4.6.3 Auxiliary Power

The four (4) Town-owned lift stations each have generators for auxiliary power. Whereas the private lift stations do not have generators.

5.0 Capital Improvements Program Recommendations & Costs

This section of the Master Plan report will summarize the estimated capital costs for the recommended improvements to the wastewater collection and transmission system. The estimated costs should be considered a budgetary planning guide. As Eatonville considers moving forward with a project, the costs should be updated to reflect changes that may have occurred and to account for inflationary effects.

The construction costs presented in this section include cost allocations for the contractor's general conditions, overhead & profit (OH&P) engineering and Class 4 contingency as follows:

- General conditions include the contractor's costs for mobilization and demobilization, bonds and insurance, salaries for the project manager and project superintendent and temporary facilities. General conditions were estimated at 10% of the construction value before OH&P.
- Contractor's OH&P was estimated at 15% of the construction value plus a contingency of 15% for a total OH&P of 30%.
- Engineering (Design, Permitting, Bidding and Construction Administration Services) were estimated at 15% for the Master Plan level.
- Class 4 Cost Estimate Contingency +/- 40%
- All costs presented are referenced to 2022 dollars.

The total probable project cost for the recommended improvements to the wastewater system is **\$36,400,000 million**. The projects would be partially funded by a mixture of grants, impact fees, developer contributions, etc. resulting in an estimated cost per residential connection of approximately **\$21,398 per connection** assuming 1,700 total connections (800 existing + 900 planned). **Table 5-1** presents the total project costs for the suggest 5-year CIP program, as well as a tentative schedule. **Appendix F** presents the Eatonville's Current Capital Improvements Program projects.

**Town of Eatonville
Water Supply Plan
TABLE 5-1 Wastewater 5-yr CIP**

CIP #	PARAMETER Description	Priority	Length	Upgrade/ Size	LOS Impact	Funded (Yes/No)	Funding Source	Status	Original Funding Request	Project Costs	FY2023/24	FY2024/25	FY2025/26	FY2026/27	FY2027/28	FY2028 to 2033
											Requested	Proposed	Proposed	Proposed	Proposed	Proposed
WASTEWATER																
WW-01	Upgrade Vereen Lift Station	1			Improve System Reliability	No	Stag Grant	Pending NEPA	\$ 665,000	\$ 759,000	\$ 94,000	\$ 332,500	\$ 332,500			
WW-02	Survey/Design/Construct Lining/Point Repair/Partial Replacement - Lake Lovely Service Area	2			Reduce I&I	No	SRF Grant 90% Forgiveness	Pending FDEP Revised WW Facilities Plan	N/A	\$ 3,560,000	\$ 222,000	\$ 1,669,000	\$ 1,669,000			
WW-03	Survey/Design/Construct Lining/Point Repair/Partial Replacement - Eastern Service Area	3			Reduce I&I	No	SRF Grant 90% Forgiveness	Pending FDEP Revised WW Facilities Plan	N/A	\$ 13,658,000	\$ 854,000	\$ 4,268,000	\$ 4,268,000	\$ 4,268,000	\$ 4,268,000	
WW-04	Permit/Design/Construct New Wastewater Treatment Facility for Public Access Reuse	3		0.4-MGD	Improve System Reliability	No	Impact Fees		N/A	\$ 18,400,000				\$ 2,400,000	\$ 16,000,000	
										\$ -						
SUBTOTAL - Wastewater									\$ 665,000	\$ 36,377,000	\$ 316,000	\$ 2,855,500	\$ 6,269,500	\$ 4,268,000	\$ 6,668,000	\$ 16,000,000
<p>Priority</p> <p>0 In Progress 0 - 1 yrs.</p> <p>1 Immediate 1 - 3 yrs.</p> <p>2 Near-Term 3 - 5 yrs.</p> <p>3 Long-Term Beyond 5 yrs.</p>																

5.1 Wastewater System Recommendations

The following are recommendations for Eatonville’s wastewater collection and transmission system over the next 5 years not in order of priority:

1. Replace Vereen Lift Station and install new generator.
2. Clean/Repair/Replace/Line gravity sewer lines and manholes in Lake Lovely project area.
3. Clean/Repair/Replace/Line gravity sewer lines and manholes in Eastern project area.
4. Permit/Design/Construct new wastewater treatment facility for public access reuse.

5.2 Other Costs

Other costs Eatonville should factor into financial planning include land, legal, survey, geotechnical and costs associated with financing, lobbying and other non-engineering professional fees.

5.3 Cost Updates

The probable construction costs included in the Master Plan are expressed in 2022 dollars. The Engineering News Record Construction Cost Index (CCI) may be used for updating costs in the future. The 2022 CCI = 13175.00 (based on 1913).

5.4 Discussion of Financing Alternatives

The following sections discuss funding alternatives and other available options for capital projects.

5.4.1 Current Revenues

This funding alternative uses revenues from the customer usage rates for wastewater flow. Current revenues include the monthly base charge plus a charge per 1000 gallons based on water use. The revenues are used for operation and maintenance costs, capital projects and renewal and replacement of equipment.

5.4.2 Sewer Impact Fees/Funds

Capital Improvement Funds can also be available from a Sewer Impact Fee Fund. Impact fees are collected from new construction within the system to cover the cost of expansion of the wastewater system improvement required for growth. **Currently, Eatonville does not have utility impact fees.**

5.4.3 Revenue Bonds

A revenue bond is a type of municipal bond whose guarantee of repayment is solely from revenues generated by a specified revenue-generating entity associated with the purpose of the bonds, rather than from a tax. Revenue bonds are unlike general obligation bonds because only the revenues specified in the legal contract between the bond holder and bond issuer are required to be used for repayment of the principal and interest of the revenue bonds.

5.4.4 Grants

Grants for municipal capital improvement projects are available from agencies such as the following:

- U.S. Department of Agriculture (USDA),
- Community Redevelopment Agency (CRA Block Grants),
- Florida Department of Environmental Protection (FDEP) State Revolving Fund (SRF) and
- Local Water Management District (WMD).

5.4.5 Developer Contributions

Developer contributions are generally obtained from the developer of a project where a utility extension is required. Developer contributions may also be used if an upgrade or upsizing of an existing utility is required to adequately serve that project. Often the developer contribution is used to, at least partially, offset the required impact fee.

5.4.6 Renewal and Replacement Funds

Renewal and Replacement (R&R) Funds are used to replace worn or failing equipment or to improve efficiency of systems. R&R Funds are also used to rehabilitate/recondition equipment or structures. R&R Funds are used to make sure facilities are being well maintained and are in good working condition.

5.4.7 FDEP State Revolving Funds (SRF)

A loan from the FDEP SRF is a viable option for funding future major projects at a low interest rate. SRF funding is also available for wastewater projects. **Currently, the FDEP Clean Water SRF loan rate is 0.54% (Jan 1, 2024 to Mar 31, 2024).**

5.4.8 Future Projects (undetermined funding)

There are projects that are beyond the normal planning window in terms of funding. Projects that are over 10 years in the future are not funded nor are there plans for funding. The future projects are growth related projects and would probably be funded by Impact Fees or by the developer of the project. As growth occurs, the future projects become more focused. At that time, the Town would place the project in a 5-year CIP program for funding with a clear picture as when the project needs to be constructed.

APPENDIX A: DRAFT Wholesale Sewer Service Agreement between the City of Altamonte Springs and the Town of Eatonville

**WHOLESALE SEWER SERVICE AGREEMENT BETWEEN
THE CITY OF ALTAMONTE SPRINGS AND THE TOWN OF EATONVILLE**

THIS WHOLESALE SEWER SERVICE AGREEMENT (the “**Agreement**”), is made this _____ day of _____, 2023, by and between the **CITY OF ALTAMONTE SPRINGS**, a municipal corporation organized and existing under the laws of the State of Florida, hereinafter referred to as "**Altamonte**" and the **TOWN OF EATONVILLE**, a municipal corporation organized and existing under the laws of the State of Florida, hereinafter referred to as "**Eatonville**". Altamonte and Eatonville may sometimes be referred to in this Agreement individually as a “**Party**” or collectively as the “**Parties.**”

RECITALS

WHEREAS, Altamonte operates and maintains the “Altamonte System,” as defined herein, comprised of wastewater collection, transmission, treatment, and disposal facilities which include, but are not limited to pipes, lift stations, pumps, force mains, and all other appurtenant equipment and facilities used by Altamonte to transmit wastewater to the headworks of the Altamonte Springs Regional Water Reclamation Facility and to treat and dispose of wastewater through the treatment processes at the Altamonte Springs Regional Water Reclamation Facility, located in Seminole County, Florida; and

WHEREAS, Eatonville operates and maintains the “Eatonville System,” as defined herein, comprised of wastewater collection and transmission facilities which include, but are not limited to, pipes, lift stations, pumps, force mains, meters, and all other appurtenant equipment and facilities used by Eatonville to collect and transmit wastewater from certain users of the Eatonville System to the Altamonte System under existing agreements between the Parties; and

WHEREAS, the Parties have previously entered into an agreement for wholesale sewer treatment and disposal services, which agreements include, without limitation, the January 7, 1982 and the February 24, 1999 Amendment (collectively, the Prior Agreements).

WHEREAS, the existing aforesaid agreements for wholesale sewer treatment and disposal service rely on a monthly payment formula for Altamonte’s treatment and disposal of wastewater based upon metered potable water consumption for individual Eatonville customers that may not accurately reflect the volume of wastewater transmitted by Eatonville to the Altamonte Springs Regional Water Reclamation Facility for treatment and disposal services; and

WHEREAS, the parties previously agreed to a monthly fixed volume of billing of 252,893 gallons per day (gpd) which has been the basis for billing since approximately the year 2000; and

WHEREAS, Eatonville completed in September 2020 improvements to the master wastewater lift station on Park Place that included metering of actual wastewater flows from that lift station; and

WHEREAS, Eatonville represents that all existing wastewater flows transmitted to Altamonte Springs system are pumped or repumped from the Park Place master lift station, a private lift station at the northeast corner of Keller Road and Kennedy Boulevard, and other known (and unknown) private lift stations which contribute flow to the Altamonte System; and

WHEREAS, Eatonville conveys their wastewater flows through a force main owned and operated by Eatonville that terminates at a manhole at the corner of McNorton Road and Keller at which point the flow enters the Altamonte Springs system; and

WHEREAS, Altamonte Springs desires to rely on metered wastewater flows for billing purposes wherever and whenever possible to more accurately reflect wastewater flows transmitted to Altamonte Springs system. Metered and unmetered private lift station per Exhibit C; and

WHEREAS, Eatonville has approved for construction new development that will send

additional wastewater flows to the Altamonte Springs system that may exceed the current baseline billing flow of 252,893 gpd and Altamonte Springs desires to be compensated for the extra flows; and

WHEREAS, Eatonville agrees not to exceed the a total wastewater flow to the Altamonte System of 500,000 gpd, and in the event flows do exceed 600,000 gpd, Altamonte Springs will be compensated an additional fifty percent (25%) surcharge for the extra flows; and

WHEREAS, it is the desire and intent of the Parties to void the aforesaid agreements in their entirety and to: (i) consolidate, supersede, and replace all previous agreements to include, without limitation, the Prior Agreements dated January 7, 1982 and February 24, 1999, with this Agreement; (ii) harmonize wholesale sewer treatment and disposal service business practices under a unified agreement (iii) provide for expanded sewer service to Eatonville through the Altamonte System to accommodate new development and redevelopment of Eatonville projects; (iv) more accurately measure Eatonville’s wastewater flows transmitted for treatment and disposal services to Altamonte; and (vi) accomplish the mutual goals and needs of the Parties for continued wastewater treatment and disposal services through the Altamonte System; and

WHEREAS, Eatonville desires to use the Altamonte System on a wholesale basis for the treatment and disposal of the wastewater collected by Eatonville to serve its existing and future customers within specific areas, said specific areas being a portion of Eatonville’s wastewater utility service area, which are depicted in **Exhibit “A”** attached hereto and incorporated herein by reference (the “**Eatonville Wholesale Sewer Service Area**”); and

WHEREAS, Altamonte agrees to treat and dispose of the wastewater flows from the Eatonville Wholesale Sewer Service Area for Eatonville’s present and future needs, for the consideration hereafter set forth and according to the terms and conditions hereafter set forth;

NOW THEREFORE, in consideration of the premises and the mutual covenants, agreements, and promises herein contained, the receipt and sufficiency of which are hereby acknowledged, the Parties hereto agree as follows:

1.0 INCORPORATION OF RECITALS. The foregoing recitals are true and correct and form a material part of this Agreement upon which the Parties have relied.

2.0 DEFINITIONS. The Parties agree that in constructing this Agreement, the following words, phrases, and terms shall have the following meaning unless the context clearly indicates otherwise:

2.1 “Agreement” – This Wholesale Sewer Service Agreement between Altamonte and Eatonville for wastewater treatment and disposal as it may from time to time be modified by written amendment executed by the Parties.

2.2 “Altamonte Springs Regional Water Reclamation Facility” - Treatment and disposal facilities used by Altamonte to treat wastewater and detain, transmit, and dispose of said treated wastewater in accordance with applicable regulatory requirements.

2.3 “Altamonte System” - The wastewater collection, transmission, treatment, and disposal facilities owned, operated and maintained by Altamonte to accept, treat, and transmit Eatonville’s wastewater flows from the Connection Point in accordance with the terms and conditions of this Agreement.

2.4 “Annual Average Daily Flow (AADF)” – Shall be calculated as the total wastewater flow delivered by Eatonville at the Connection Point for treatment and disposal during the Annual Payment Period divided by 365 days.

2.5 “Annual Payment Period” – The Annual Payment Period shall begin on October 1 of each calendar year and end on September 30 of the next following calendar year.

2.6 “Change or Expanded Use” - Any substantial modification to any user’s building from the approved Development Plan that increases the building square footage or results in a change in the ERU classification as defined by the Altamonte Code of Ordinances (e.g., from retail to restaurant use; from commercial to a school facility use; from single family

residence to commercial use; etc.). In the case of an increase of a commercial building square footage or change in the ERU classification, Altamonte shall evaluate the proposed change to determine whether additional Connection Fees shall be due as a result of such Change or Expanded Use.

2.7 “Connection Fees” – Impact fees and charges established by the Altamonte Code of Ordinance and collected by Altamonte as described by this Agreement to purchase wastewater service capacity for new utility connections or expanded utility services as a result of a Change or Expanded Use.

2.8 “Connection Point” – The location where the Eatonville Transmission Facilities connect to the Altamonte System. The Connection Point is shown on **Exhibit “C”** - **Transmission Facilities Plan.**

2.9 “Development Plans” – The engineering and/or architectural drawings, engineering reports, and other supporting documents prepared by a developer’s consultant for the purposes of site/building development.

2.10 “Effective Date” - The Effective Date of this Agreement shall be the last date that this Agreement is executed by either of the Parties hereto.

2.11 “Emergency Condition” means a condition that necessitates an expeditious delivery of wastewater to prevent or combat imminent peril to the public health, safety, or welfare and may include a natural disaster or other “Force Majeure” event.

2.12 “ERU” – An equivalent residential unit as established by the terms and definitions of the Altamonte Code of Ordinances.

2.13 “Existing Customer Base” - Those existing users presently connected to the Eatonville System within the Eatonville Wholesale Sewer Service Area and transmitting flows to the Altamonte System as of the date of this Agreement, and those existing users

presently connected to Eatonville’s existing central sewer system within the Eatonville Wholesale Sewer Service Area as identified on **Exhibit “A”**.

2.14 “Eatonville System” – The wastewater collection and transmission facilities which include, but are not limited to pipes, lift stations, pumps, force mains, meters, and all other appurtenant equipment and facilities used by Eatonville to collect and transmit wastewater from certain users of Eatonville’s wastewater system to the Altamonte System in accordance with the terms and conditions of this Agreement.

2.15 “Eatonville Transmission Facilities” – The wastewater transmission pipes, and other facilities and appurtenances, constructed by Eatonville individually or in partnership with others, used to transmit wastewater flows to the Altamonte System at the specified Connection Point. The Eatonville Transmission Facilities currently include, but are not limited to, the force main on Keller Road. Collectively, these key wastewater transmission pipe conveyances transmit wastewater flows to the Altamonte System. It is understood that Eatonville shall own, operate, and maintain the Eatonville Transmission Facilities to its Connection Point at the Altamonte System in accordance with the terms and conditions of Agreement. The Eatonville Transmission Facilities shall be shown on **Exhibit “C” - Transmission Facilities Plan**.

2.16 “Estimated Flows” – Eatonville has (at least) two private lift stations connected to their system for which there is no meter. This is in accordance with Exhibit C. Eatonville will review the potable water consumption history for these properties and will determine the estimated flow based on monthly water use. Periodically, or upon request from Altamonte Springs, Eatonville will redetermine the estimated flows based on the formula above. If either Altamonte or Eatonville discovers additional private lift stations contributing unmetered flow to the Eatonville transmission system, the same methodology will be used to incorporate that flow into the estimated flow calculations.

2.17 “Meter Locations” – The locations of the master metering devices and equipment used for measuring Eatonville wastewater flows to the Altamonte System. The Meter Locations shall be shown on **Exhibit “C” - Transmission Facilities Plan** and shall

collectively be used for the purpose of monitoring wastewater flows delivered to the Altamonte System for treatment and disposal, calculating the Monthly Minimum based on an Annual Average Daily Flow (AADF), and the payment of monthly Treatment Charges.

2.18 “Metered Flows” – The metered flows for Eatonville are the sum of the Park Place Master Lift Station and the new development lift station meters (currently identified as Lake Weston Apartments and Enclave at Lake Shadow Apartments). Eatonville will require any new development that requires a lift station to install a mag meter which will then be added to the metered flows listed above.

2.19 “Monthly Minimum” – No monthly minimums will be used for compensation. Meter readings will be used as the basis of flow.

2.20 New User Connections. Any connection by a new user not presently connected to the Eatonville System within the Eatonville Wholesale Sewer Service Area or not presently transmitting flows to the Altamonte System as of the date of this Agreement. However, New User Connections shall not include Eatonville’s existing users presently connected to Eatonville’s existing central sewer.

2.21 “Transmission Facilities Plan” - The plan used to depict the established Connection Point, master metering devices and equipment locations, odor control equipment and location (if required), and other such appurtenances as necessary to transmit wastewater flows from the Eatonville System to the Altamonte System and as required under this Agreement, and as identified on **Exhibit “C”** attached hereto and incorporated herein by reference (the “**Transmission Facilities Plan**”). In the event that the Eatonville Transmission Facilities are altered to include or remove additional metering devices, odor control equipment and other such appurtenances necessary to transmit wastewater flows to the Altamonte System, Eatonville shall amend the Transmission Facilities Plan to depict such changes and shall submit the amended Transmission Facilities Plan to Altamonte for review and approval. Any subsequent revisions thereto, as approved by said Parties, shall be evidenced and implemented by an amendment to **Exhibit “C”** – **Transmission Facilities Plan**, signed by the City Managers of the Parties.

2.22 “Treatment Charges” – Rates and charges for similar wholesale sewer bulk users established by Altamonte Code of Ordinances for the payment of treatment and disposal of wastewater flows transmitted from the Eatonville System to the Altamonte System. In no event shall the Treatment Charges to Eatonville be higher than the lowest rates and charges Altamonte charges to any similar wholesale sewer bulk user.

2.23 “Eatonville Wholesale Sewer Service Area” – The land area served by the Altamonte System on a wholesale basis for the treatment and disposal of the wastewater collected by Eatonville to serve its existing and future customers and referenced herein as **Exhibit “A”** – Eatonville Wholesale Sewer Service Area.

3.0 PURPOSE. Subject to the terms and conditions hereinafter set forth, Altamonte shall provide to Eatonville, and Eatonville shall purchase and receive from Altamonte, wastewater treatment and disposal services for wastewater flows from Existing Customer Base within the Eatonville Wholesale Sewer Service Area as set forth herein. In addition, it is mutually acknowledged by both Parties that the intent of this Agreement is for Altamonte to provide wholesale sewer service to Eatonville in order to serve Eatonville’s future users and accommodate redevelopment within the Eatonville Wholesale Sewer Service Area.

4.0 CAPACITY.

4.1 Existing Customer Base Wastewater Capacity. Upon execution of this Agreement by both Parties, Altamonte agrees to continue to accept and treat wastewater flows generated by the Existing Customer Base within the Eatonville Wholesale Sewer Service Area.

4.2 Capacity Reservation Restrictions. Altamonte shall not permit or, to the extent legally possible, allow capacity reservations or connections in excess of the total capacity of the Altamonte System, as from time to time may be authorized and permitted by those regulatory agencies having jurisdiction thereof. Notwithstanding, Altamonte agrees to accept wastewater flows from the Eatonville Wholesale Sewer Service Area up to

600,000 Gallons per Day as capacity is available in the Altamonte System. Except as otherwise provided below, Altamonte reserves the absolute right to reserve capacity in the Altamonte System so as to be able at all times to provide wastewater treatment service to property within Altamonte. The amount of presently unreserved capacity as Altamonte might elect to reserve for itself or others shall be at the sole discretion of Altamonte. However, Altamonte's reservation of capacity for itself or others shall not be taken from capacity allocated to Eatonville users identified by Parties as: (i) an existing customer within its Existing Customer Base having made connection to the Eatonville System in accordance with this Agreement; (ii) a subsequent approved New User Connection; or, (iii) subsequent approved Change or Expanded Use.

4.3 Wholesale Sewer Service Area Expansion. Eatonville requests and Altamonte agrees to treat and dispose of wastewater collected by Eatonville which is generated in the Eatonville Wholesale Sewer Service Area over and above the Existing Customer Base for New User Connections or Change or Expanded Use, as capacity is available. The Eatonville Wholesale Sewer Service Area may be adjusted from time to time as mutually agreed upon by the Parties as evidenced and implemented by an amendment to **Exhibit "A"** – Eatonville Wholesale Sewer Service Area, signed by the City Managers of the Parties. In the event Altamonte's capacity is exhausted and Altamonte cannot accept additional wastewater flows above the Existing Customer Base for New User Connections or Change or Expanded Use, Eatonville may obtain other wastewater disposal services from another provider or may take appropriate action to supply itself with additional wastewater treatment and disposal services for the capacity above what is being sent to the Altamonte System for treatment and disposal. If mutually beneficial and agreed to by the Parties, Eatonville may participate in the expansion of the Altamonte System for additional permitted capacity.

4.4 Transfer of Capacity. Eatonville's capacity, and any additional capacity granted hereunder shall not be sold, sublet, transferred, assigned or hypothecated by Eatonville, in whole or in part, except in accordance with this Agreement. However, this does not prevent Eatonville from providing wastewater services to Eatonville's retail utility customers using said allocated capacity. In all events and under all circumstances,

Altamonte shall have the right to approve or deny approval of any sale, assignment, subletting, transference, or hypothecation of Eatonville's capacity notwithstanding any language, either previous or subsequent hereto (contained within this Agreement).

5.0 EATONVILLE SYSTEM.

5.1 Operation and Maintenance. Eatonville shall, at its cost and expense, operate and maintain the Eatonville System as necessary to properly transmit and measure its wastewater flows from the Eatonville Wholesale Sewer Service Area to the designated Connection Point in accordance herewith and with the rules and regulations of the governmental agencies having jurisdictional authority thereof. Eatonville shall pay all costs associated with any required modifications to the Eatonville Transmission Facilities to implement continuous flow measuring required under this Agreement. Eatonville will operate and maintain the Eatonville Transmission Facilities so as to provide proper design and operation in conjunction with the operation of the Altamonte System. Except where otherwise provided herein, Altamonte shall have the right to inspect all of the Eatonville Transmission Facilities, and any related appurtenances and connections thereto, at all reasonable times and at any time in the event of an emergency.

5.2 Transmission Facilities Modifications for Flow Measuring Plan Approval. Eatonville has initiated and will continue to implement changes to the Eatonville System for the transmission of wastewater flows to the Altamonte System for treatment and disposal in accordance with this Agreement. The flow measuring devices and equipment required by this Agreement shall be installed at the locations depicted on the Transmission Facilities Plan. The flow measuring devices, all appurtenant items and any modifications thereto shall be submitted to Altamonte for review, and Altamonte's written approval shall be required as a condition precedent to said modifications being constructed and implemented. Such approval by Altamonte may be taken by Eatonville as assurance that the modifications to Eatonville's Transmission Facilities shown on the Transmission Facilities Plan meet Altamonte's requirements.

5.3 Eatonville System Upgrades. Alterations, additions to transmission

equipment, or transmission system upgrades (e.g., air release valves, pump upgrades, force mains) to the Eatonville System, which enable or facilitate subsequent New User Connections, a Change or Expanded Use, and wastewater flows to the Altamonte System, may be required. Eatonville shall monitor the Eatonville System, including flows through the Eatonville Transmission Facilities, to determine the cumulative effect of capacity above the Existing Customer Base, and any subsequent additional capacity approved by Altamonte under this Agreement. This monitoring shall enable Eatonville to plan for and provide alterations, additions to equipment, or system upgrades required to the Eatonville System in order to accommodate any additional future capacity not already approved by Altamonte.

6.0 EXISTING EATONVILLE USERS AND WASTEWATER FLOWS.

6.1 Existing Customer Base. Altamonte agrees to accept for treatment and disposal the wastewater flows generated by those properties as currently developed and presently connected to Eatonville’s existing central sewer system as of the date of this Agreement and as identified on **Exhibit “B”** - Existing Customer Base. With the exception of a Change or Expanded Use in accordance with Section 7 – CONNECTION FEES, below, Eatonville’s existing users within the Existing Customer Base shall not be subject to Connection Fees imposed by Altamonte as a result of this Agreement. However, Eatonville shall be responsible for all Treatment Charges for such existing user’s wastewater flows transmitted to the Altamonte System.

6.2 Monthly Billing. Altamonte Springs will invoice Eatonville monthly based on the sum of the Metered.

7.0 CONNECTION FEES. Eatonville shall pay to Altamonte a Connection Fee for any and all new user connections not presently connected to Eatonville’s System and identified in the Existing Customer Base regardless of Eatonville’s metered wastewater flows, if such new users’ wastewater flows are serviced by Altamonte. Existing users within the Existing Customer Base shall also be subject to the payment of Connection Fees for a Change or Expanded Use in accordance with this Agreement. Connection Fees for any New User Connections, and any existing user connections subject to a Change or Expanded Use, shall be calculated on an ERU basis for the user “classification” as may be applicable, at the wholesale rate for wastewater connections. The wholesale rate for wastewater connections is currently based on the “wastewater treatment facility

connection” charge for customers outside Altamonte’s city limits. The user “classification” and “wastewater treatment facility connection” charge shall be as defined by Chapter 26 of the Altamonte Code of Ordinances and as in effect at the time service is provided by Altamonte. Notice of any rate, charge, or fee for services under this Agreement shall be provided by Altamonte in accordance with Florida Statute 180.136, as amended and revised. Connection Fee calculations, approvals, payment processing, and the tracking of the new user connections are provided in Sections 7.1-7.4 below.

7.1 New User Connections. The request for service for New User Connections shall be initiated by Eatonville’s completion and submittal of a new service request application from Eatonville requesting that wastewater capacity be provided for the new connection. An example of the new service request form is depicted by **Exhibit D** attached hereto and referenced herein (the “**New Service Request Application**”); however, the New Service Request Application form may be updated from time to time by Altamonte without an amendment to this Agreement. The New Service Request Application must be accompanied by all appropriate materials (e.g., Development Plans, FDEP permit applications, etc.) as applicable, and as requested by Altamonte, for processing by Altamonte.

7.2 Change or Expanded Use. When a user classification changes or an expanded use occurs so as to increase the number of ERUs due, in accordance with Chapter 26 of the Altamonte Code of Ordinances, over the number of ERUs connected for an existing user, the user shall be allowed a credit against the “wastewater treatment facility connection” charges. The request for a Change or Expanded Use shall be initiated by Eatonville’s completion and submittal of a Change or Expanded Use application from Eatonville requesting that additional wastewater capacity be provided for Change or Expanded Use. An example of the Change or Expanded Use application is depicted by **Exhibit “E”** attached hereto and incorporated herein (the “**Change or Expanded Use Application**”); however, the Change or Expanded Use Application form may be updated from time to time by Altamonte without an amendment to this Agreement. The additional Connection Fee resulting from the Change or Expanded Use shall be due and payable prior to Altamonte’s execution of the FDEP permit applications and prior to Eatonville’s issuance of any building

permits or approvals effecting the Change or Expanded Use.

7.3 Additional Capacity Tracking. Additional capacity for new users or for existing users under a Change or Expanded Use shall be tracked by Altamonte on an ERU basis. Eatonville’s payment of the applicable Connection Fees, and Altamonte’s acceptance of said Connection Fees, shall serve as Altamonte’s approval and reservation of capacity sufficient to meet the proposed use per the established ERU basis.

8.0 TREATMENT CHARGES. The service to be performed by Altamonte under this Agreement consists of Altamonte’s readiness to provide wastewater capacity in accordance with the conditions, limitations, and provisions of this Agreement. In return for such service, Eatonville agrees to compensate Altamonte by payment of certain minimum annual sums of money (defined as the “Monthly Minimum” or the total of the Estimated Flows plus the Metered Flows, whichever is greater), for each of which said sums Altamonte agrees to treat and dispose of all, or so much thereof as Eatonville may desire, of a certain corresponding volume of capacity, as follows:

(a) For all wastewater flows delivered to the Altamonte System for treatment and disposal, Eatonville shall pay the Treatment Charges in accordance with the rates and rate structures provided for in Altamonte Code of Ordinances as it may be amended from time to time, at the discretion of the City Commission of Altamonte. Treatment Charges shall always be set in accordance with applicable law, be just and equitable, and be uniformly applied to users of the same class, and Eatonville shall be charged similarly with all other customers of the same class. All Treatment Charges must be paid monthly within thirty (30) days after the amount thereof has been calculated pursuant to Section 11.0 - WASTEWATER FLOW MEASURING, below, but shall not be less than the Monthly Minimum for the established Annual Payment Period except where otherwise provided by this Agreement.

(b) Eatonville shall compensate Altamonte the rate described in Section 8.0 (a) above, plus a 25% surcharge, for flows in excess of 600,000 gallons per day of wastewater.

9.0 PAYMENT COVENANTS.

9.1 Connection Fees. Eatonville shall be solely responsible for the collection of the connection and impact fees it charges each residential unit or business being served by the Eatonville System.

9.2 Treatment Charges. Eatonville shall be solely responsible for the maintenance and operation of the Eatonville System and the collection of fees, rates, rentals and other charges for the use of the products, services, and facilities of Eatonville System.

9.3 Payment Required. Payment to Altamonte for monthly Treatment Charges shall be submitted and paid by Eatonville monthly in accordance with Section 11.0 - WASTEWATER FLOW MEASURING, below. If any monthly payment for wastewater treatment remains unpaid on and after twenty-eight (28) days from the date for such wastewater payment is due, a penalty of ten percent (10%) of the total amount due shall be imposed and be added to the amount due. If the payment due remains unpaid for a period of thirty-five (35) days from the date of the payment due date, Altamonte shall have the ability to seek remedies under Section 19.0 – REMEDIES UPON DEFAULT, below.

10.0 LIMITATION OF SOURCE AND QUALITY.

10.1 Limitation of Source by Wholesale Sewer Service Area. Eatonville acknowledges and agrees that this Agreement pertains only to wastewater generated and originating entirely within the Eatonville Wholesale Sewer Service Area. Eatonville expressly agrees that it will not deliver to the Altamonte System, either directly or indirectly, any wastewater other than that generated by and originating from users or developers which are retail customers of Eatonville from sources located within the Eatonville Wholesale Sewer Service Area unless expressly authorized by a written amendment hereto. In the event Eatonville desires to provide wastewater disposal service to any area lying outside the

Eatonville Wholesale Sewer Service Area, Eatonville agrees to apply to the appropriate governmental authorities for permission to serve such additional area, if required, and to make written request to Altamonte to permit Eatonville to transmit wastewater from said additional area to Altamonte under the terms and conditions of this Agreement. Eatonville shall not transmit wastewater from such additional area to the Altamonte System unless and until Altamonte, by an amendment hereto, agrees thereto; provided, however, that in no event shall Altamonte be required to accept wastewater, directly or indirectly, from any additional areas nor shall Altamonte be required to accept wastewater, directly or indirectly, from any utility company or wholesaler other than Eatonville. Nothing herein shall require Eatonville to utilize Altamonte to treat and dispose of wastewater collected by Eatonville for properties and customers outside of the Eatonville Wholesale Sewer Service Area or prevent Eatonville from providing through its own facilities and forces or third parties wastewater services to properties and customers outside of the Eatonville Wholesale Sewer Service Area. The definition of Eatonville Wholesale Sewer Service Area used in this Agreement shall not redefine or restrict Eatonville’s wastewater service territory or boundaries or adjustments thereto.

10.2 Wastewater Quality. The FDEP currently categorizes wastewater facilities as either domestic or industrial based on the type of wastewater the facility handles. The wastewater to be delivered to the Altamonte System shall meet the qualitative parameters of domestic wastewater as set forth by the permitting standards of the FDEP, as modified by Section 10.2 (ii) – Industrial Wastewater, below, and the Parties shall adopt and, as shall be necessary from time to time, revise, and enforce, appropriate rules and regulations governing discharges into the Altamonte System.

i. Domestic Wastewater. Domestic wastewater shall be as categorized by the FDEP for permitting, as amended from time to time. Domestic wastewater is wastewater from dwellings, businesses, buildings, institutions, and the like. All wastewater that is not defined as domestic wastewater is considered industrial wastewater.

ii. Industrial Wastewater. The FDEP categorizes all non-domestic wastewater as industrial wastewater. Sources of industrial wastewater include large

and small facilities and activities such as manufacturing, commercial businesses, mining, agricultural production and processing, and wastewater discharge from cleanup of petroleum and chemical contaminates sites. The effect of industrial wastewater upon sewers, and upon the Altamonte System and its wastewater treatment process, is such that careful and special consideration be made of each connection discharging industrial waste. This is a matter of importance to both Parties. It is understood and agreed that Eatonville shall be responsible for pursuing enforcement of rules regarding industrial wastewater in the Eatonville System. Eatonville agrees that it will authorize discharge of industrial wastewater into the Eatonville System only with specific approval of Altamonte of each individual source. Such approvals shall not be unreasonably withheld, and shall be upon the terms and conditions as Altamonte may prescribe from time to time, which terms and conditions shall be no more restrictive than the terms and conditions placed upon industrial users discharged within the City of Altamonte. Altamonte shall not be required to approve any discharge of industrial wastewater prior to the filing by the applicant industry or commercial enterprise of an FDEP application, a copy of which shall be forwarded to Altamonte for review and approval. The application shall contain the following information:

- (a) Name and address of applicant;
- (b) Type of industry, business activity or other waste creative process;
- (c) Quantity of wastewater to be discharged;
- (d) Typical analysis of wastewater;
- (e) Type of pretreatment proposed; and
- (f) Such other information as Altamonte may from time to time request by written notice.

The Altamonte Director of Public Works, or designee, shall act on such request to allow industrial wastewater from a Eatonville user within twenty (20) days after receipt of all information required by this Agreement.

iii. **Monitoring Wastewater Strength** - Eatonville shall provide to Altamonte access to a sampling manhole or location at or near the point of discharge to the Altamonte System for the purpose of conducting wastewater sampling. Altamonte will sample Eatonville’s wastewater and use the results to determine the strength of the wastewater.

iv. **Testing for Prohibited Wastes** - Eatonville shall provide to Altamonte on a yearly basis, an analysis of its wastewater being discharged to the Altamonte System. This analysis shall identify the concentrations of discharges of prohibited wastes and shall be performed by a qualified laboratory approved in writing in advance by Altamonte. At Altamonte’s discretion, if Eatonville exceeds the maximum contamination levels of prohibited wastes, or if so required by other regulatory authority, the frequency of these analyses may be increased.

v. **Odor Control** - Eatonville shall be responsible for reasonably controlling, at Eatonville’s expense, the emission of odors and/or deterioration of manholes and gravity sewer pipes caused by the wastewater flows transmitted from the Eatonville System. Should excessive deterioration of manholes and gravity sewer pipes result from the wastewater discharged from the Eatonville System, subsequent reasonable repair costs, mutually agreed upon, will be the responsibility of Eatonville.

10.3 Ordinances. The Altamonte wastewater system use ordinance, as defined by Chapter 26 of the Altamonte Code of Ordinances, and as may be modified by Altamonte from time to time, shall be applicable to all users of the Eatonville System for setting standards for the strength of wastes and prohibited wastes and shall be binding upon Eatonville for wastewater flows delivered to the Altamonte System. All provisions of such ordinances shall apply equally to each existing and new user within Altamonte and within

the Eatonville Wholesale Sewer Service Area. Eatonville shall adopt or otherwise impose such restrictions upon Eatonville's users so as to enforce the provisions hereof in the Eatonville Wholesale Sewer Service Area.

11.0 WASTEWATER FLOW MEASURING.

11.1 Metering. Eatonville shall maintain all Eatonville meters as necessary including periodic calibration as noted below. Eatonville will transport and deliver the wastewater to be received by Altamonte in conformity with this Agreement, the law, the rules of all applicable regulatory authorities and such other agencies as may have jurisdictional control. Altamonte will receive said wastewater flows at the Connection Point, and will treat and dispose of the wastewater pursuant to and in conformity with the terms and conditions of this Agreement.

11.2 Meter Reading. Eatonville will provide access to Altamonte Springs of any Eatonville owned meters for reading purposes. Eatonville will also assist as needed for Altamonte Springs to access any private wastewater meters that contribute flow to the Eatonville system. Altamonte Springs will read the flow meters or other devices to provide the data necessary for the determination of the wastewater flows to the Altamonte System for the calculation of monthly payment. Altamonte Springs will compute the amount due for wastewater treatment and disposal based on the greater of the minimum monthly flow or the cumulative flow of the estimated flow and metered flow reported at Eatonville's master meter or flow measuring locations. Altamonte Springs will submit an invoice to Eatonville with the figures for the preceding month along with the monthly payment total. The monthly payment for the treatment and disposal of wastewater shall be due within 15 days of receipt of the invoice by Eatonville.

11.3 Meter Calibration and Reporting. Eatonville will implement an annual meter confirmation and calibration program for the Eatonville master meters. The confirmation and calibration program, to be approved by both Parties, shall include a schedule for inspection and reporting regarding the condition and accuracy of the respective master meter, as deemed appropriate for the meter type and location. A copy of the report

shall be furnished to Altamonte. Any necessary repairs to the connection must be made within forty-five (45) days unless otherwise approved by both Parties. Eatonville shall provide immediate (within 24 hours) notice to Altamonte of any single master meter failure and no single master meter shall be out of service for more than thirty (30) days. In the event of a master meter failure, billing of flows for wastewater treatment and disposal will be calculated by Altamonte based upon the highest three consecutive months ("three month period") within the prior period of 12 consecutive months ("twelve month period") until meter repairs have been completed.

11.4 Rights of Inspection. Altamonte shall have the right, but not the obligation, to make its own inspection of Eatonville's master meter at any location, or to have an independent company inspect the metering equipment at any time; provided, however, no such inspection shall be made until Altamonte has first given five (5) business days' written notice of the time and date of its intent to have the inspection made. Upon notice, Eatonville shall have Eatonville personnel available to assist and facilitate the inspection. All costs and expenses of interim inspection by Altamonte shall be borne by Altamonte. However, if the testing reveals that the master meter is inaccurate by more than ten percent (10%), Eatonville shall reimburse the cost incurred as a result of the interim inspection and also the cost and expense of repairing or replacing the master meter. If the master meter is in error by more than fifteen percent (15%), then charges paid on the basis of that master meter's readings back to the date of the most recent recalibration shall be adjusted to correct the erroneous billings due to the master meter error.

11.5 Wastewater Flow Monitoring. Eatonville shall have an active program to resolve inflow and infiltration typically attributable to aging infrastructure, broken or missing manholes or cleanouts, and pipes damaged by others. If increased flow trends are found to be due to unauthorized user connections, Eatonville shall immediately resolve all matters pertaining to unauthorized users by disconnecting the unauthorized user or by seeking Altamonte's approval for New User Connections or Expanded or Change or Expanded Use, including the payment of any/all Connection Fees, in accordance with Section 7.0 – CONNECTION FEES, above.

12.0 SATELLITE SYSTEM – Pursuant to recent changes to FDEP rule 62-600.705, Altamonte Springs is required to develop and submit a Collections Systems Management Plan to FDEP. Annually thereafter, Altamonte Springs is required to submit information regarding sanitary sewer satellite systems that send wastewater flow to Altamonte Springs. Eatonville is considered a satellite system to the Altamonte Springs system and therefore there are certain reporting requirements associated with being a satellite system. Altamonte Springs will request in writing the pertinent sanitary sewer information from Eatonville by April 1st of each year. Eatonville will provide the FDEP required information to Altamonte Springs annually by May 1st of each year. This reporting information may include but not be limited to; population served, maintenance efforts, maintenance budget and any work/projects to reduce infiltration/inflow into the Eatonville system. Altamonte Springs will provide a copy of the report submitted to FDEP within 30 days of submittal.

13.0 RECORDS INSPECTION.

13.1 Engineering Drawings. Eatonville shall, during the term of this Agreement, maintain the Transmission Facilities Plan, the Development Plans, and any other engineering drawings, plans, and specifications showing Eatonville's existing or proposed collection facilities, and other facilities to be connected directly or indirectly to the designated Connection Point. Transmission Facilities Plans for Eatonville System wastewater flows to the Connection Point shall be shared with Altamonte, as needed and requested by Altamonte, to confirm network system piping for the Eatonville Wholesale Sewer Service Area. Development Plans approved by Eatonville shall be shared with Altamonte for all New User Connections and when a Change or Expanded Use is proposed.

13.2 Mutual Records Access and Cooperation. The Parties shall reasonably cooperate to facilitate the provision of wholesale sewer service by Altamonte so that Eatonville may serve its existing and future customers located within the Eatonville Wholesale Sewer Service Area. Under the spirit of mutual cooperation, Altamonte is given the right to inspect, at reasonable times, all of Eatonville's books, records, and other

information of whatsoever nature relating to the wastewater flows (including infiltration/inflow) from the Eatonville System connected to the designated Connection Point for transmission to the Altamonte System. Eatonville shall also be given the right to inspect at all reasonable times, the Altamonte System, and all books, records and other information of Altamonte of whatsoever nature relating to the Eatonville System.

14.0 TERM. The initial term of this Agreement shall be 30 years beginning with the Effective Date. Thereafter, this Agreement shall be automatically renewed thereafter for successive ten (10) year renewal terms unless either Party gives written notice to the other Party not less than two (2) years prior to the expiration of the then-current term that it is terminating the Agreement at the end of the then-current term.

15.0 NOTICE. Any notice to be given to Eatonville or Altamonte by the other shall be sent either by hand delivery, registered or certified mail to the respective addresses shown below. Either Party may change its notice address by giving proper written notice to the other as provided herein:

If to Altamonte, to:

City of Altamonte Springs
City Hall, 225 Newburyport Ave.
Altamonte Springs, FL 32701
Attention: City Manager

City of Altamonte Springs
950 Calabria Drive
Altamonte Springs, FL 32714
Attention: Director of Public Works and Utilities

If to Eatonville, to:

Town of Eatonville
307 East Kennedy Blvd.
Eatonville, FL 32751
Attention: Mayor

Town of Eatonville
307 East Kennedy Blvd.
Eatonville, FL 32751
Attention: Director of Public Works

16.0 TEMPORARY CESSATION OF SERVICE. Any temporary cessation of treatment or disposal of wastewater through the Altamonte System caused by an act of God, fire, strike, civil or military authority, State, County or Federal regulatory authority, insurrection or riot, civil unrest, or other action not the result of gross negligence or willful misconduct of Altamonte or its agents or employees, shall constitute a breach of this Agreement on the part of Altamonte, and Altamonte shall be liable to Eatonville or its users for any loss or damage resulting from such cessation of treatment or disposal, nor shall such temporary cessation relieve Eatonville of any of its obligations hereunder.

17.0 EFFECT OF SEWER RESTRICTIONS. If during the term of this Agreement Altamonte shall come under any order of any cognizant county, State or Federal agency which requires Altamonte to limit or restrict construction or wastewater connections because of conditions or operations in the Altamonte System or elsewhere, or to restrict or terminate acceptance of certain types of wastewater, or to require pretreatment as a condition of acceptance for treatment and disposal, or otherwise to modify or alter operations, or which otherwise affect the system, Eatonville agrees to enforce and abide by such limitations or restrictions within the Eatonville Wholesale Sewer Service Area, as long as the same shall be binding upon Altamonte. Altamonte agrees to take all steps reasonable, in Altamonte’s determination, to cure any defect resulting in the limitation or restriction.

18.0 ALTAMONTE SYSTEM – NO OWNERSHIP INTEREST. It is expressly understood and agreed that Eatonville will have no ownership interest in the Altamonte System or any part thereof whatsoever, including any financial contributions from Eatonville for alternations, additions, or system upgrades required to serve subsequent New User Connections and wastewater flows above Eatonville’s Existing Customer Base, or above or any right whatsoever to direct the operation of the Altamonte System, including but not limited to the treatment or disposal of wastewater flows delivered to the Altamonte System. Conversely, Altamonte shall not have any ownership interest in the Eatonville System or any part thereof or any right whatsoever to direct the

operation of the Eatonville System

19.0 REMEDIES UPON DEFAULT.

19.1 Eatonville's Default. In the unlikely event Eatonville shall default in the payment of any amounts due Altamonte under this Agreement, or in the performance of any material obligation to be performed by Eatonville under this Agreement, then Altamonte, after having given Eatonville sixty (60) days written notice of such default and the opportunity to cure same, shall have the right to pursue any remedy available at law or in equity, pending cure of such default by Eatonville, and shall further have the right to temporarily limit wastewater disposal services to Eatonville by temporarily denying any New User Connection or modifications to existing users under a Change or Expanded Use. In the event such default remains uncured for a period of (1) ninety (90) days in the event of a monetary default; or (2) 180 days in the event of a non-monetary default, then Altamonte shall have the right to permanently restrict service to Eatonville under this Agreement or require Eatonville to stop making New User Connections or modifications to existing users under a Change or Expanded Use.

19.2 Altamonte's Default. In the event Altamonte shall default in the performance of any material obligation to be performed by Altamonte under this Agreement, then Eatonville, after having given Altamonte thirty (30) days written notice of such default and the opportunity to cure same, shall have the right to pursue any remedy available at law or in equity, pending cure of such default by Altamonte. In the event such default remains uncured for a period of (1) ninety (90) days (or such longer time as is reasonably required to cure such default, provided Altamonte has made reasonable efforts to commence the cure within said 90-day period) in the event of a default which causes Altamonte to be unable to provide wastewater utility service with the Eatonville Wholesale Sewer Service Area or (2) 180 days in the event of any type of material default, then Eatonville shall have the right to notify Altamonte that Eatonville intends to take a more limited amount of wastewater disposal services from Altamonte (which shall be at least the amount Altamonte is then able to provide to Eatonville). Thereafter, Eatonville may the obtain other wastewater disposal services from another provide or may take appropriate action to supply itself with additional

wastewater disposal services after giving Altamonte ninety (90) days' notice of its intent to do so and opportunity to cure; otherwise, Eatonville shall obtain all its wastewater disposal services for the Eatonville Wholesale Sewer Service Area from Altamonte during the term of this Agreement.

19.3 Specific Performance. This Agreement may be enforced by Specific Performance.

19.4 Force Majeure. If by reason of force majeure any Party hereto shall be rendered unable wholly or in part to carry out its obligations under this Agreement, other than the obligation of Eatonville to make the payments required under this Agreement, then if such Party shall give notice and full particulars of such force majeure in writing to the other Party within a reasonable time after occurrence of the event or cause relied on, the obligation of the Party giving such notice, so far as it is affected by such force majeure, shall be suspended during the continuance of the inability then claimed, but for no longer period, and any such Party shall endeavor to remove or overcome such inability with all reasonable dispatch. The term "force majeure" as employed herein shall mean acts of God, strikes, lockouts, or other industrial disturbances, acts of public enemy, order of any kind of the Government of the United States or the State of Florida, or any civil or military authority, insurrection, riots, epidemics, lightning, earthquake, fires, hurricanes, storms, floods, washouts, droughts, arrests, restraint of government and people, civil disturbances, explosions, breakage or accidents to machinery, pipes, or canals, partial or entire failure of the wastewater treatment or disposal system, or on account of any other causes not reasonably within the control of the Party claiming the inability.

19.5 Fines and Penalties. Regulatory fines and penalties assessed against a Party to this Agreement shall be born and initially paid by the Party against which they are assessed. If it is determined by a court or regulatory agency that the occurrence or condition giving rise to any such fine or penalty was caused by the act or omission of a Party to this Agreement other than the Party against whom such a penalty or fine is assessed, then the Party whose act or omission was such cased shall reimburse the Party the amount of such fine or penalty finally assessed and paid, plus interest.

19.6 Applicable Law. This Agreement and the provisions contained herein shall be governed by and construed in accordance with the Laws of the State of Florida and the Parties consent to venue in the Circuit Court in and for Seminole County, Florida, as to State actions and the United States District Court for the Middle District of Florida as to Federal actions.

19.7 Severability. Any provision of this Agreement which is prohibited or unenforceable under any law shall be ineffective to the extent of such prohibition or unenforceability, without invalidating the remaining provisions hereof, provided the rights and obligations of the Parties hereto are not materially prejudiced and the intentions of the Parties can continue to be effected. No such prohibition shall in any way or to any extent alter or affect Eatonville's obligation, to the extent required hereunder, to pay, when due, that part of the Connection Fee and Treatment Charges which Altamonte may pledge in the future to use for the operation and maintenance of the Altamonte System.

19.8 Waiver of Rights. Any waiver at any time by Altamonte or Eatonville of its rights with respect to a default or any other matter arising in connection with this contract, shall not be deemed to be a waiver with respect to any other default or matter, similar or different, prior or subsequent.

20.0 NO PLEDGE OF TAXATION. In no event shall any obligation of either Altamonte or Eatonville under this Agreement result in, be or constitute: (i) a general obligation or indebtedness of either Party within the meaning of the Constitution of the State of Florida, the Parties' respective charters and ordinances or any other applicable laws, (ii) a pledge of ad valorem taxes or taxing power, non-ad valorem revenue or any other revenue source of either Party, or (iii) a lien on any real or personal property of either Party.

21.0 PRIOR AGREEMENTS. This Agreement constitutes the full and complete agreement and understanding of the Parties relating to the matters set forth herein and this Agreement shall supersede and replace any prior written or oral agreements concerning such matters.

22.0 TIME IS OF THE ESSENCE. Time is hereby declared of the essence to the lawful performance of the duties and obligations contained in this Agreement.

23.0 COUNTERPARTS. This Agreement may be executed and delivered in counterparts.

24.0 GOOD FAITH. The Parties agree to act in accordance with the principles of good faith and fair dealings in the performance of this Agreement.

25.0 DISCLAIMER OF THIRD PARTY BENEFICIARIES. This Agreement is solely for the benefit of the formal Parties hereto and no right of cause of action shall accrue upon or by reason hereof, to or for the benefit of any third party not a formal Party hereto.

26.0 TITLES AND HEADINGS. The title of this Agreement, and the headings of Sections and sub-Sections hereof have been inserted for convenience or reference only and are not to be considered a part hereof and shall not in any way modify or restrict any of the terms or provisions hereof and shall never be considered or given any effect in construing this Agreement or any provision hereof or in ascertaining intent, if any question of intent should arise.

[SIGNATURES TO FOLLOW]

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized officers as of the day and year first written above.

Signed, sealed and delivered in the presence of:

TOWN OF EATONVILLE, a municipality of the State of Florida

Witness Signature

By: _____

Printed Name:

Printed Name

Witness Signature

Title: _____

Printed Name:

Approved as to Form and Legality for the use and reliance of the Town of Eatonville, Florida

Attest:

City Clerk

Dated: _____

Clifford Shepard, Town of Eatonville Attorney

STATE OF FLORIDA

COUNTY OF ORANGE

The foregoing instrument was acknowledged before me by means of physical presence or online notarization this _____ day of _____, 2023, by _____, as _____ of the TOWN OF EATONVILLE, a Florida municipality, on behalf of the municipality. He/She is personally known to me or has produced _____ as identification.

Print Name:
Notary Public - State of _____
Commission No.:
Commission Expires:

Signed, sealed and delivered
in the presence of:

CITY OF ALTAMONTE SPRINGS,
a municipality of the State of Florida

Approved as to form and
legality for use and
reliance by the City of
Altamonte Springs

By: _____
Pat Bates, Mayor

Date: _____

JAMES A. FOWLER, City Attorney

ATTEST: _____
Angela M. Apperson, City Clerk

Mailing Address:
225 Newburyport Avenue
Altamonte Springs, FL 32701

STATE OF FLORIDA
COUNTY OF SEMINOLE

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this ____ day of _____, 2023, by PAT BATES and ANGELA M. APPERSON, Mayor and City Clerk respectively, of the CITY OF ALTAMONTE SPRINGS, FLORIDA, who are personally known to me and they acknowledged executing the same freely and voluntarily under authority vested in them and that the seal affixed thereto is the true and corporate seal of the City of Altamonte Springs, Florida.

Signature

(Notary Seal)

Print name

Notary Public - State of _____

Commission No. _____

My Commission Expires: _____

LIST OF EXHIBITS TO FOLLOW:

Exhibit “A” - Eatonville Wholesale Sewer Service Area

Exhibit “B” - Existing Customer Base

Exhibit “C” - Transmission Facilities Plan

Exhibit “D” - New Service Request Application

Exhibit “E” - Change or Expanded Use Application

APPENDIX B: 2020 Sanitary Sewer Evaluation Study (SSES)



**TOWN OF EATONVILLE
LAKE LOVELY AND EASTERN SANITARY SEWER
EVALUATION STUDY AND WASTWATER FACILITIES
PLAN**

April 2020

CPH, Inc.
1117 E. Robinson Street
Orlando, FL 32801
(407) 425-0452
CPH Project No. E6606

**Scott A. Breitenstein, P.E.
P.E. #57402**

Date

**TOWN OF EATONVILLE
LAKE LOVELY AND EASTERN SANITARY SEWER EVALUATION STUDY AND
WASTEWATER FACILITIES PLAN
FDEP SRF Project No. WW480240**

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TOWN OF EATONVILLE- LAKE LOVELY AND EASTERN SANITARY EVALUATION STUDY AND WASTEWATER FACILITIES PLAN

EXECUTIVE SUMMARY

The proposed project includes replacement or lining, repair and cleaning of existing gravity sanitary sewer lines and manholes within the Town of Eatonville. The Planning area is divided into two parts, the Lake Lovely service area and Eastern service area. The Lake Lovely area serves approximately 150 homes north of W Kennedy Blvd and just west of Hungerford Lake. The Eastern area serves just under 400 homes located in the southeast portion of the Town, on the north and south sides of W Kennedy Blvd and east of I-4. The two service areas are old and the existing vitrified clay pipes (VCP) are reaching the end of their useful life. VCP is subject to cracks and breaks which allows the surrounding soil and roots to enter the sewer system and cause potential sewer blockage. This situation results in periodic sewage backups in the manholes and into homes on the system. A manhole collapsed in the Lake Lovely area and the Town has concerns about additional subsidence and catastrophic failures. The Eastern area has also experienced significant infiltration/inflow (I/I) issues.

A Sanitary Sewer Evaluation Study (SSES) including cleaning/CCTV of the sewer pipes was performed for the overall Planning Area in order to assess the existing conditions of the gravity lines and manholes. Approximately 4,800 LF of pipe in the Lake Lovely service area and 22,200 LF of pipe in the Eastern services area were CCTV'd and evaluated. A survey and geotechnical borings were also performed in the Lake Lovely service area. The proposed project will help correct the stoppages, I/I issues and concerns with emergency breaks by lining, repairing or replacing the gravity sewer lines. The manholes in the systems will also be replaced and repaired.

The total estimated construction cost for the Planning Area based on repair versus replacement is below. The Town has entered into an agreement with the Florida Department of Environmental Protection (FDEP) for a State Revolving Fund (SRF) loan (WW480240) for SSES and Facilities Plan and this report is a result of that agreement.

	Lining/Point Repair/Partial Replacement	Full Replacement
Lake Lovely Service Area	\$2,224,948	\$3,403,066
Eastern Service Area	\$8,536,490	\$13,840,298
Total Planning Area	\$10,761,438	\$17,243,364

1.0 GENERAL

1.1 Project Description

The project(s) includes the replacement or lining, repair and heavy cleaning of existing gravity sewer lines in the Planning Area. **Exhibit No. 1** shows the Planning Area. Roughly, 27,000 linear feet (LF) of gravity sewer pipe spanning the Planning Area was evaluated and cleaned. This evaluation was for the assessment of the current sanitary sewer system, and the identification of pipe segments in critical need of replacement or linings. A summary table of the pipe surveyed along with a sample inspection report can be found in **Appendix K**.

1.2 Planning Area

For the purposes of this project, the Planning Area consists of the Lake Lovely and Eastern Service Areas. These two service areas encompass a large portion of Eatonville, with the exception of the southwestern portion and west of Campus View Drive. The area for the survey and borings was restricted to the Lake Lovely area.

1.3 Planning Area Census Tracts

The Planning Area census tracts are shown on Exhibit 1. The Lake Lovely project area lies in Census Tract 152.0 and the Eastern project area lies in Census Tract 180.

1.4 Major Project Components

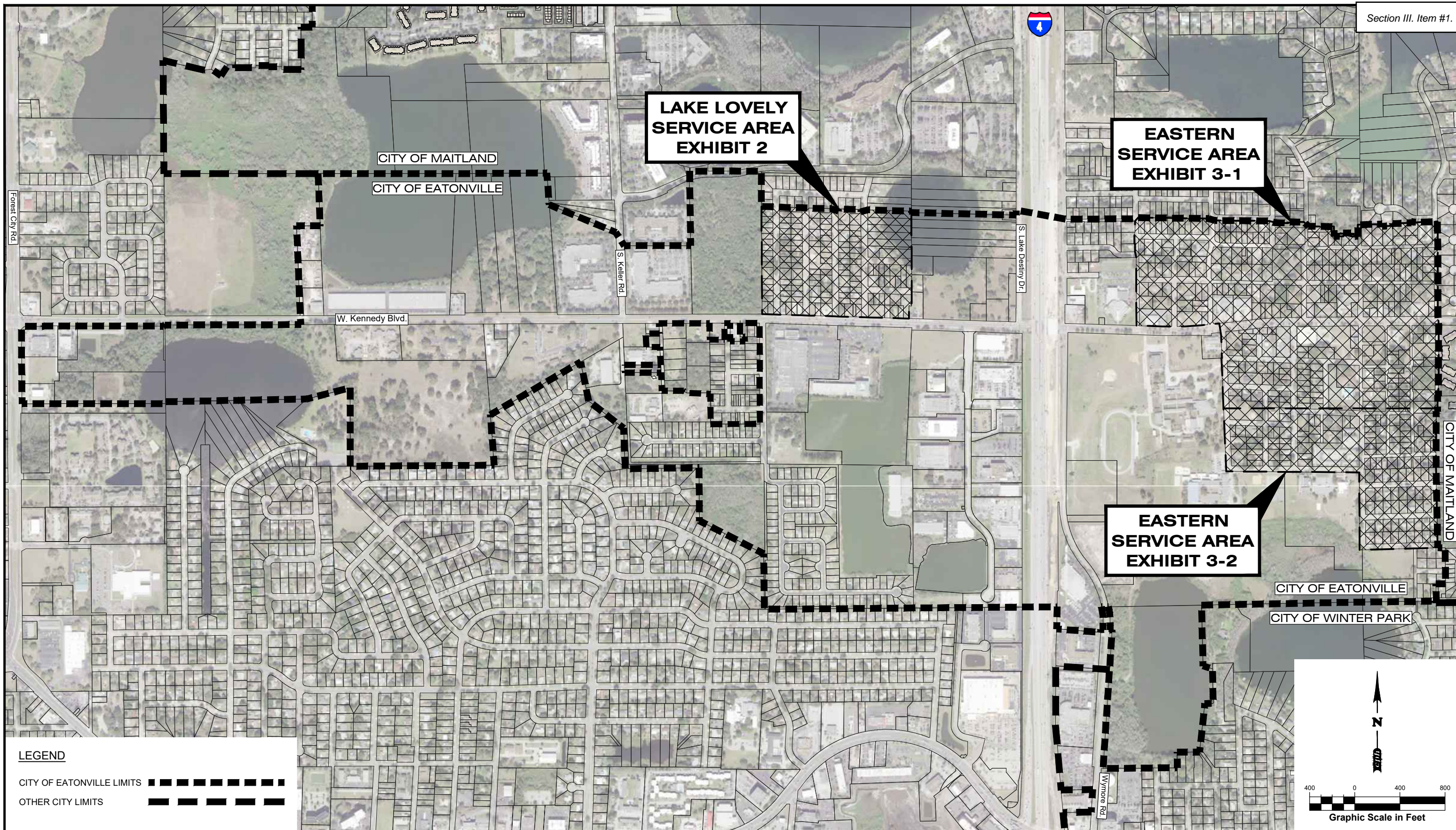
The major project components are the cleaning, repair, lining and/or replacement of approximately 27,000 linear feet (LF) of 15-inch and 8-inch vitrified clay pipe and PVC gravity sanitary sewer and 104 manholes in the Planning Area.

1.5 Need for the Project

The Town of Eatonville has old and problematic wastewater collection/transmission systems in existing developed areas. System problems include sewage back-ups, capacity, direction of flow, as well as infiltration and inflow issues. A project completed by CPH in 2015 addressed this issue along Eaton Street and campus view; however, the rest of the system in the Planning Area is still dated. The system has been assessed and areas of concern have been identified and classified. The replacement and repair work will help eliminate system backups and sudden pipe breaks and will minimize I/I issues.

Lake Lovely Project Area's main issue is that significant root growth into the pipes and lines is a problem, which causes blockage and significant inflow and infiltration. The manhole near the intersection of W Kennedy Blvd and Deacon Jones Blvd. collapsed and the Town did not replace it. The repair work is temporary and could cause public safety issues and concern.

The Eastern Project Area's primary issue is that many of the aging vitrified clay pipes are partially broken or have extensive cracks and fractures. The area is also experiencing blockage and inflow and infiltration from root growth within the pipe joints and service lines. Sags along the gravity sewer system are disrupting proper flow and causing slopes less than the minimum design standard slopes.



LEGEND
 CITY OF EATONVILLE LIMITS
 OTHER CITY LIMITS

Designed by:	-	Date: 3/7/2020
Drawn by:	-	Job No. E6606
Checked by:	-	File: sewer.dwg
Approved by:	-	
Scale:	AS SHOWN	© 2020



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 Orlando, FL 32801
 Ph: 407.425.0452

OVERALL CITY LIMITS
 LAKE LOVELY & EASTERN SANITARY SEWER EVALUATION STUDY
 AND W.W. FACILITIES PLAN
 Town of Eatonville, Florida

Exhibit No.
1
 330

2.0 COST COMPARISON AND SELECTED ALTERNATIVE

2.1 Design Factors for Alternatives Evaluation

The design criteria for the gravity sewer and manhole replacement are based on the requirements of the Florida Department of Environmental Protection (FDEP) Chapter 62-604, Florida Administrative Code (F.A.C.) and its references to the Great Lakes - Upper Mississippi Board of State Public Health and Environmental Managers "Recommended Standards for Wastewater Facilities", commonly referred to as "Ten-States Standards." Those design factors are shown below.

- a. Gravity Sewer material = Polyvinyl Chloride (PVC) meeting ASTM D3034 - Type PSM Polyvinyl Chloride Sewer Pipe and Fittings.
- b. Minimum pipe diameter = 8 inches.
- c. Minimum slope = 0.40%, for a velocity of 2.0 feet per second (fps).
- d. Maximum velocity = 15 fps.
- e. Manholes will be precast concrete meeting ASTM C478 with a minimum diameter of 48 inches with minimum access diameter of 22 inches.
- f. Maximum manhole spacing = 400 feet.

2.2 Alternatives and Estimated Costs

Three alternatives are available for evaluation. Those are, "No action" alternative, partial replacement and lining as identified in the SSES study and complete replacement.

1. No Action - The "no action" alternative is not viable because of the frequent backups and overflows that constitute potential health concerns. A collapsed manhole and several collapsed pipe were identified and due to the age of the system, more are expected if no action is taken.
2. Partial replacement and lining – The gravity pipe and manholes within the Planning Area were CCTV'd. Using this information, issues and damage to the system within the planning area were analyzed, classified and ranked in order of severity. Using this ranking system, each manhole and segment of pipe was assessed in order to determine the need for replacement, point repairs, lining and maintenance. While survey and a geotechnical analysis were not completed for the East service area, the videos of each pipe provided information on possible slope issues.

The engineer's estimate of probable construction cost for the Lake Lovely service area is \$2,224,948.00. The estimate of probable construction cost for the Eastern service area is \$8,536,490.00, giving a total estimated construction cost for this alternative of \$10,761,438.00. Detailed breakdowns of the estimated costs for the planning area can be found in Appendix A.

3. Complete Replacement – Complete replacement was evaluated as an alternative. Complete replacement would allow the entire aging system to be upgraded and provide a higher level of reliability than currently exists.

Complete replacement however would add almost \$6.5 million of additional costs over alternative 2. It would also cause more disruption to the local residents.

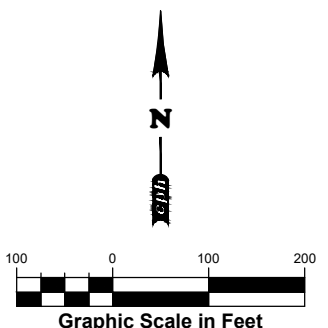
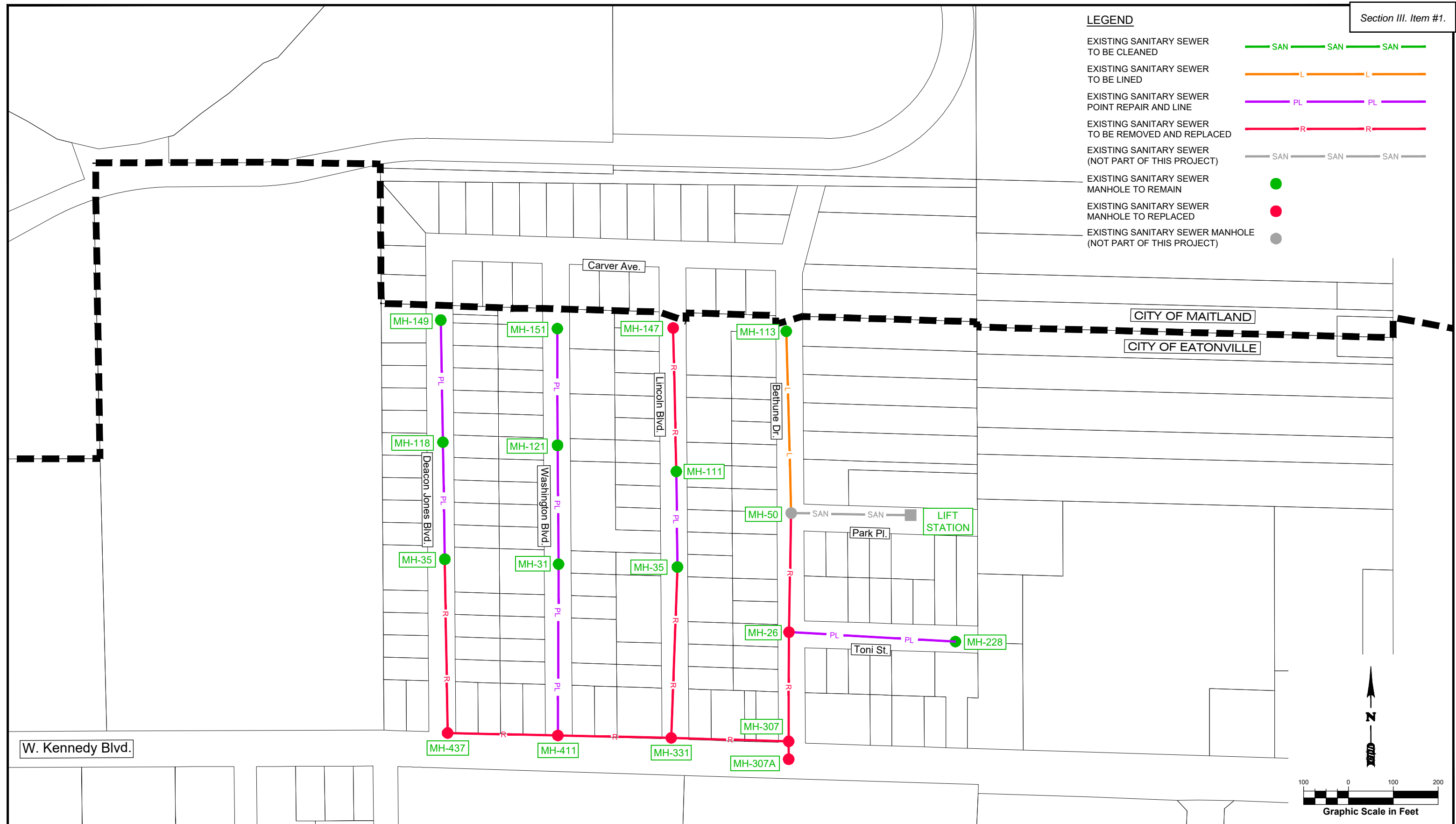
The engineer's estimate of probably construction cost for the Lake Lovely service area is \$3,403,066.00. The estimate of probable construction costs for the Easter service area is \$13,840,298.00, giving a total estimated construction costs for this alternative of \$17,243,364.00. Detailed breakdowns of the estimated costs can be found in Appendix A.

2.3 Selected Alternative

The alternatives above were discussed with the Town. The Town agrees with CPH's recommendation of Alternative No. 2. **Exhibit 2** shows the existing and proposed work including replacement, lining and cleaning of sewers lines and manholes for the Lake Lovely project area, while **Exhibit 3** shows the recommendations for the Eastern project area.

LEGEND

- EXISTING SANITARY SEWER TO BE CLEANED — SAN — SAN — SAN —
- EXISTING SANITARY SEWER TO BE LINED — L — L — L —
- EXISTING SANITARY SEWER POINT REPAIR AND LINE — PL — PL — PL —
- EXISTING SANITARY SEWER TO BE REMOVED AND REPLACED — R — R — R —
- EXISTING SANITARY SEWER (NOT PART OF THIS PROJECT) — SAN — SAN — SAN —
- EXISTING SANITARY SEWER MANHOLE TO REMAIN ●
- EXISTING SANITARY SEWER MANHOLE TO BE REPLACED ●
- EXISTING SANITARY SEWER MANHOLE (NOT PART OF THIS PROJECT) ●



Designed by:	-	Date: 3/7/2020
Drawn by:	-	Job No. E6606
Checked by:	-	File: sewer.dwg
Approved by:	-	
Scale:	AS SHOWN	© 2020



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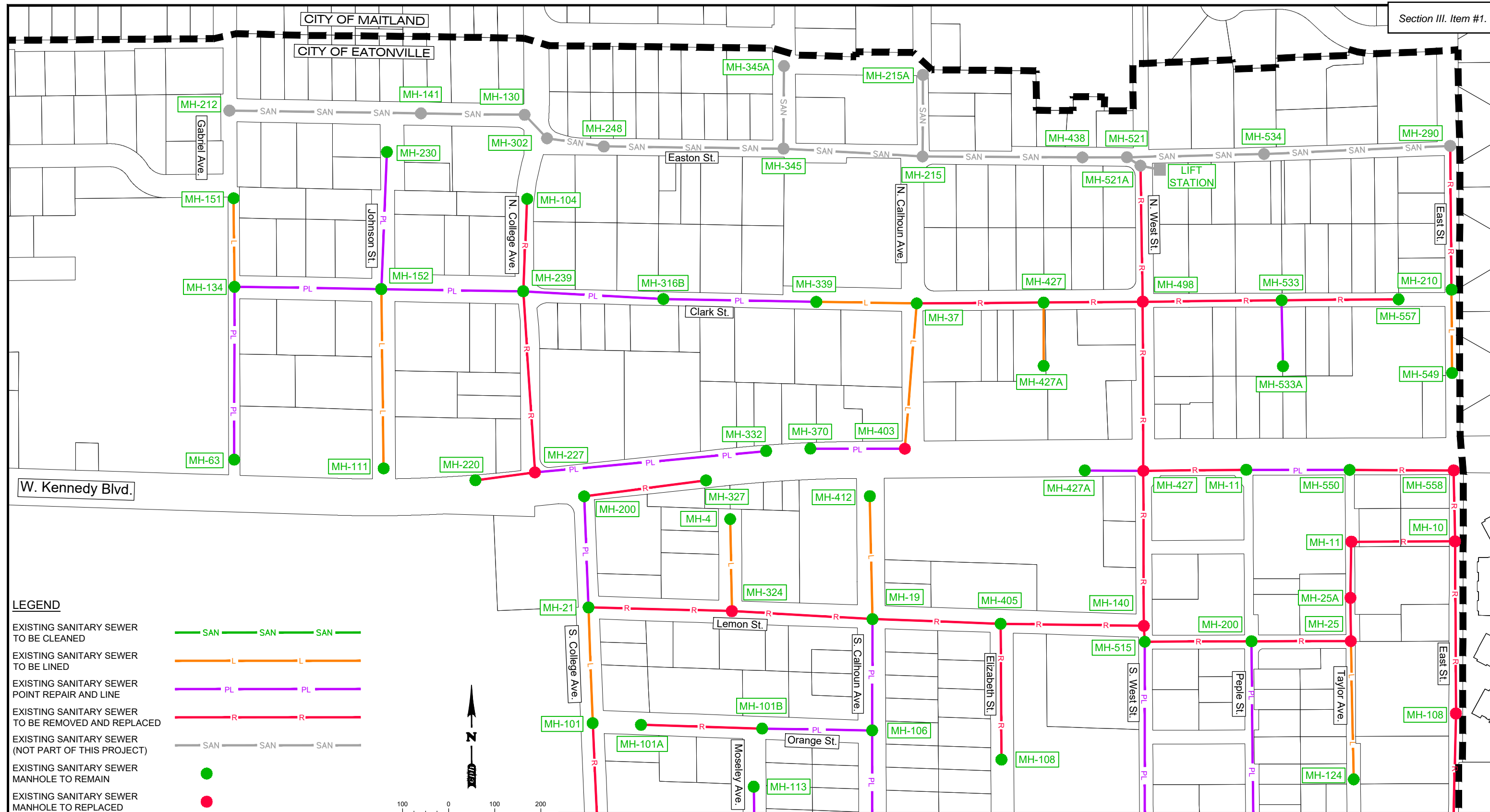
1117 East Robinson Street
Orlando, FL 32801
Ph: 407.425.0452

LAKE LOVELY SERVICE AREA
LAKE LOVELY & EASTERN SANITARY SEWER EVALUATION STUDY
AND W.W. FACILITIES PLAN
 Town of Eatonville, Florida

Exhibit No.
2

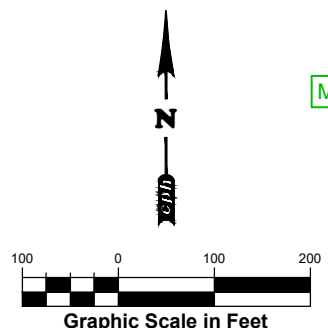
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CITY OF MAITLAND
CITY OF EATONVILLE



LEGEND

- EXISTING SANITARY SEWER TO BE CLEANED: — SAN — SAN — SAN —
- EXISTING SANITARY SEWER TO BE LINED: — L — L — L —
- EXISTING SANITARY SEWER POINT REPAIR AND LINE: — PL — PL — PL —
- EXISTING SANITARY SEWER TO BE REMOVED AND REPLACED: — R — R — R —
- EXISTING SANITARY SEWER (NOT PART OF THIS PROJECT): — SAN — SAN — SAN —
- EXISTING SANITARY SEWER MANHOLE TO REMAIN: ● (green)
- EXISTING SANITARY SEWER MANHOLE TO BE REPLACED: ● (red)
- EXISTING SANITARY SEWER MANHOLE (NOT PART OF THIS PROJECT): ● (gray)



MATCH EXHIBIT 3-2

Designed by:	-	Date:	3/7/2020
Drawn by:	-	Job No.:	E6606
Checked by:	-	File:	sewer.dwg
Approved by:	-		
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Ph: 407.425.0452

EASTERN SERVICE AREA
LAKE LOVELY & EASTERN SANITARY SEWER EVALUATION STUDY
AND W.W. FACILITIES PLAN

Town of Eatonville, Florida

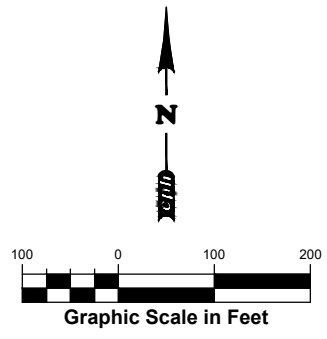
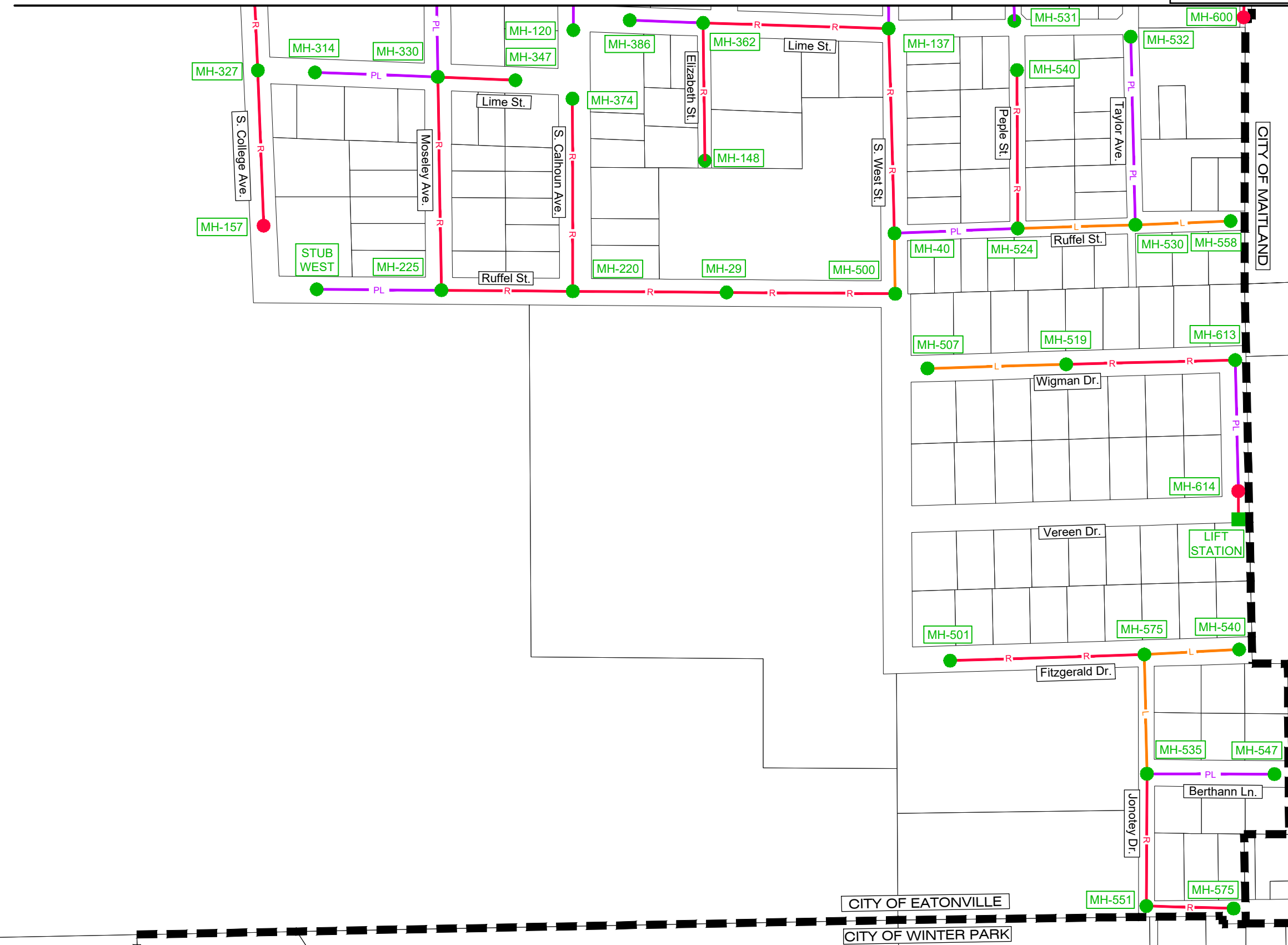
Exhibit No.
3-1

334

MATCH EXHIBIT 3-2

LEGEND

- EXISTING SANITARY SEWER TO BE CLEANED — SAN — SAN — SAN —
- EXISTING SANITARY SEWER TO BE LINED — L — L — L —
- EXISTING SANITARY SEWER POINT REPAIR AND LINE — PL — PL — PL —
- EXISTING SANITARY SEWER TO BE REMOVED AND REPLACED — R — R — R —
- EXISTING SANITARY SEWER (NOT PART OF THIS PROJECT) — SAN — SAN — SAN —
- EXISTING SANITARY SEWER MANHOLE TO REMAIN ●
- EXISTING SANITARY SEWER MANHOLE TO BE REPLACED ●
- EXISTING SANITARY SEWER MANHOLE (NOT PART OF THIS PROJECT) ●



Designed by:	-	Date: 3/7/2020
Drawn by:	-	Job No. E6606
Checked by:	-	File: sewer.dwg
Approved by:	-	
Scale:	AS SHOWN	© 2020



**A Full Service
A & E Firm**

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Orlando, FL 32801
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SHEET TITLE
YOUR PROJECT
NAME
Anytown, Florida

Exhibit No.
3-2
335

3.0 ENVIRONMENTAL REVIEW

3.1 Environmental Information Document

The project is located within the existing rights-of ways of Town streets and within two pump station sites. All areas are previously disturbed and developed. As such, we request that a Florida Categorical Exclusion Notice be issued based the following categorical exclusion criteria:

- The project is a water pollution control system that does not change the discharge point or permitted pollution control limits and that does not involve acquisition of undisturbed land, and
- The project is a water pollution control system in areas where streets have been established, underground utilities installed, and building sites excavated.

3.2 Environmental Impacts of the Selected Alternative

3.2.1 Surface Water Bodies and Wetlands

As can be seen on Exhibit 1, the Project Area is bordered by nearby lakes. Because all construction will be within paved roadways, there will be no adverse impact on the lakes. Silt fences and erosion and sediment control measures will be required. The project will have an overall positive impact on the lakes in that it will eliminate sewer overflows that could possibly flow into the lake. There are no wetlands within or immediately adjacent to the Project Area.

3.2.2 Threatened, Endangered, Proposed and Candidate Species and Designated Critical Habitats

According to the public databases the Project Area is located within USFWS Everglades Snail Kite Construction Area, USFWS Scrub Jay Area and USFWS Sand Skink Constructions Area and a Wood Stork Foraging Area. Biologists conducted a field investigation of the Project Area, looking for the occurrence of federal or state-listed flora and fauna as well as general wildlife utilization. Species protected under the Endangered Species Act of 1973 were not observed within or adjacent to the study area during the on-site field investigation. State listed protected species and Florida Department of Agriculture and Consumer Services protected plans were also not observed. A copy of the Preliminary Ecological Assessment is contained in **Appendix B**.

3.2.3 Prime Agricultural Lands and Undisturbed Areas

There are no prime agricultural lands in the project area. All construction will be in previously disturbed road rights-of-way and pump station sites.

3.2.4 Historical Sites

A portion of Eatonville was designated as Eatonville Historic District on February 3, 1998, by the National Register of Historic Places. The Eatonville Historic District is bounded by Wymore Road, Eaton Street, Fords Avenue, East Avenue, Ruffel Street and Clark Street. It contains 48 historic buildings. A copy of a letter from Panamerican Consultants, Inc. included in Appendix C provides additional information. Town Ordinance No. 96-04 established revisions to the Town's Development Code to protect these historic resources. A historic site was identified as part of a previous project near the north boundary of the eastern service area. The historic site does not fall within the ROW and will not be impacted.

3.2.5 Minority and Low-income Communities

The Town of Eatonville was the first black incorporated municipality in the United States. As of the last census, 1,825 of 2,159 people living in the Town of Eatonville identified as African American. A printout from the Census Bureau for the 2010 census along with general population information for census tract 180 can be found in **Appendix D**. There will be short-term impacts during construction to portions of the community, but long-term benefits by the elimination of sewer backups and overflows.

3.2.6 State Clearinghouse Review

A copy of this document will be sent to the State Clearinghouse for review by FDEP. A copy of their approval letter will be included in **Appendix E**.

3.3 Environmental Benefits

This project will eliminate potential health hazards to the community from the exposed sewage flow on the street and the sewage backup into the homes. It will also eliminate potential pollutants flowing into nearby lakes.

4.0 PUBLIC PARTICIPATION

A public meeting will take place to explain the project to the affected residents in the project areas. The advertisement, agenda and minutes of that meeting will be placed in **Appendix F**.

5.0 FINANCIAL FEASIBILITY

5.1 Capital Financing Plan

The Capital Financing Plan (CAP) will be prepared by the Town and sent to FDEP for review. The approved CAP will be added to **Appendix G**.

5.2 Wastewater Rates and Charges

The current wastewater (sewer) rates and charges are contained in **Appendix H**. The Town of Eatonville does not assess capital charges (impact fees) to new connections.

6.0 PROJECT SCHEDULE

The anticipated project schedule is as follows:

Complete Supplemental Planning	March 2020
State Clearinghouse Review	April 2020
Environmental Review - FCEN Issuance	April 2020
Funding	April 2021
Design	October 2021
Permitting	January 2022
Submit plans and specs to FDEP	January 2022
Site Acquisition	Complete (Existing sites and rights-of-way)
Bid and Award	March 2022
Construction	March 2023
Project Closeout	April 2023

7.0 PROJECT AUTHORIZATION

A copy of the resolution to accept this planning document, the advertisement of the public hearing and minutes of the public hearing will be included in **Appendix I** once the project is authorized.

8.0 IMPLEMENTATION

8.1 Pending Issues

There are no issues pending that would impact this project.

8.2 Required Service or Intergovernmental Agreements

The Town of Eatonville does not treat its own wastewater. The Town has an intergovernmental agreement with the City of Altamonte Springs to provide wastewater treatment.

8.3 Required FDEP Permits

Because the Lake Lovely and Eastern service areas are not contiguous, separate permits will be required. FDEP will likely allow the use of a General Permit for each project. Because wastewater treatment is provided by the City of Altamonte Springs, they will need to also sign the permit applications.

APPENDIX A

Engineer's Estimates of Probable Construction Costs

Town of Eatonville
Lake Lovely Alternative 2

Preliminary Opinion of Probable Construction Cost

Item No.	Description	Unit	Quantity	Unit Cost	Cost
General					
1	Mobilization, Demobilization, Bonds, and Permits (not to exceed 5% of the total of all bid items except bid items under section 10.1 General)	LS	1	\$ 94,414.00	\$ 94,414.00
2	Idemnification	LS	1	\$ 100.00	\$ 100.00
3	Preconstruction Audio-Video Documentation	LS	1	\$ 1,000.00	\$ 1,000.00
4	Project Record Documents (1% of Total Project minus General Requiremer	LS	1	\$ 18,883.00	\$ 18,883.00
Road Work					
6	Maintenance of Traffic	LS	1	\$ 13,000.00	\$ 13,000.00
7	Erosion and Sediment Control	LS	1	\$ 5,000.00	\$ 5,000.00
8	Asphalt Roadway Replacement (2"-4" thick with base)	SY	6373	\$ 60.00	\$ 382,380.00
9	Concrete Curb and/or Curb & Gutter Replacement	LF	760	\$ 40.00	\$ 30,400.00
10	Mill & Resurface	SY	2590	\$ 30.00	\$ 77,700.00
11	Concerete Driveway Replacement	SY	290	\$ 125.00	\$ 36,250.00
12	Sod Replacement (Bahai)	SY	422	\$ 4.00	\$ 1,688.00
Wastewater Collection System					
13	Light Cleaning Sanitary Sewer Mains (8" to 12" diameter)	LF	1520	\$ 1.50	\$ 2,280.00
14	Light Cleaning Sanitary Sewer Mains (15" to 24" diameter)	LF	0	\$ 2.00	\$ -
15	Mechanical Root or Grease Removal (Heavy Cleaning)	LF	910	\$ 3.50	\$ 3,185.00
16	Furnish and Install 8" PVC Gravity Sewer (0'-6' depth)	LF	390	\$ 245.00	\$ 95,550.00
17	Furnish and Install 8" PVC Gravity Sewer (6'-10' depth)	LF	1460	\$ 275.00	\$ 401,500.00
18	Furnish and Install 8" PVC Gravity Sewer (10'-14' depth)	LF	0	\$ 440.00	\$ -
19	Furnish and Install 15" PVC Gravity Sewer (9'-14' depth)	LF	540	\$ 610.00	\$ 329,400.00
20	Sanitary Sewer Main Point Repair (0'-5' depth)	EA	6	\$ 2,500.00	\$ 15,000.00
21	Sanitary Sewer Main Point Repair (6'-10' depth)	EA	11	\$ 2,750.00	\$ 30,250.00
22	Sainitary Sewer Main Point Repair (10'-14' depth)	EA	2	\$ 4,500.00	\$ 9,000.00
23	Sanitary Manholes 4-feet diameter (0'-6' depth)	EA	0	\$ 8,500.00	\$ -
24	Sanitary Manholes 4-feet diameter (6'-8' depth)	EA	0	\$ 11,000.00	\$ -
25	Sanitary Manholes 4-feet diameter (8'-10' depth)	EA	6	\$ 11,000.00	\$ 66,000.00
26	Sanitary Manholes 4-feet diameter (10'-14' deep)	EA	1	\$ 15,000.00	\$ 15,000.00
27	Line Manhole (48" diameter)	EA	0	\$ 14,000.00	\$ -
28	Seal & Recoat (48" diameter)	EA	10	\$ 5,500.00	\$ 55,000.00
29	Install/Repair/Replace 4" Sanitary Sewer Lateral (0 to 6' depth @ main)	EA	10	\$ 2,500.00	\$ 25,000.00
30	Install/Repair/Replace 4" Sanitary Sewer Lateral (6' to 10' depth @ main)	EA	37	\$ 2,500.00	\$ 92,500.00
31	Install/Repair/Replace 4" Sanitary Sewer Lateral (10' to 14' depth @ main)	EA	14	\$ 3,000.00	\$ 42,000.00
32	Install/Repair/Replace 6" Sanitary Sewer Lateral (0 to 5' depth @ main)	EA	12	\$ 3,000.00	\$ 36,000.00
33	Install/Repair/Replace 6" Sanitary Sewer Lateral (6' to 10' depth @ main)	EA	9	\$ 3,000.00	\$ 27,000.00
34	Install/Repair/Replace 6" Sanitary Sewer Lateral (10' to 14' depth @ main)	EA	0	\$ 3,800.00	\$ -
35	Line Pipe	LF	2430	\$ 40.00	\$ 97,200.00
36	Bypass Pumping	LS	1	\$ 20,000.00	\$ 20,000.00
SUBTOTAL					\$ 2,022,680.00
CONTINGENCY (10%)					\$ 202,268.00
TOTAL					\$ 2,224,948.00

Town of Eatonville
Lake Lovely Alternative 3 - Full Replacement

Preliminary Opinion of Probable Construction Cost

Item No.	Description	Unit	Quantity	Unit Cost	Cost
General					
1	Mobilization, Demobilization, Bonds, and Permits (not to exceed 5% of the total of all bid items except bid items under section 10.1 General)	LS	1	\$ 143,990.00	\$ 143,990.00
2	Idemnification	LS	1	\$ 100.00	\$ 100.00
3	Preconstruction Audio-Video Documentation	LS	1	\$ 1,000.00	\$ 1,000.00
4	Project Record Documents (1% of Total Project minus General Requirement)	LS	1	\$ 28,798.00	\$ 28,798.00
Road Work					
6	Maintenance of Traffic	LS	1	\$ 13,000.00	\$ 13,000.00
7	Erosion and Sediment Control	LS	1	\$ 5,000.00	\$ 5,000.00
8	Asphalt Roadway Replacement (2"-4" thick with base)	SY	10733	\$ 60.00	\$ 643,980.00
9	Concrete Curb and/or Curb & Gutter Replacement	LF	760	\$ 40.00	\$ 30,400.00
10	Mill & Resurface	SY	333	\$ 30.00	\$ 9,990.00
11	Concrete Driveway Replacement	SY	290	\$ 125.00	\$ 36,250.00
12	Sod Replacement (Bahai)	SY	422	\$ 4.00	\$ 1,688.00
Wastewater Collection System					
13	Light Cleaning Sanitary Sewer Mains (8" to 12" diameter)	LF	0	\$ 1.50	\$ -
14	Light Cleaning Sanitary Sewer Mains (15" to 24" diameter)	LF	0	\$ 2.00	\$ -
15	Mechanical Root or Grease Removal (Heavy Cleaning)	LF	0	\$ 3.50	\$ -
16	Furnish and Install 8" PVC Gravity Sewer (0'-6' depth)	LF	920	\$ 245.00	\$ 225,400.00
17	Furnish and Install 8" PVC Gravity Sewer (6'-10' depth)	LF	2580	\$ 275.00	\$ 709,500.00
18	Furnish and Install 8" PVC Gravity Sewer (10'-14' depth)	LF	780	\$ 440.00	\$ 343,200.00
19	Furnish and Install 15" PVC Gravity Sewer (9'-14' depth)	LF	550	\$ 610.00	\$ 335,500.00
20	Sanitary Sewer Main Point Repair (0'-5' depth)	EA	0	\$ 2,500.00	\$ -
21	Sanitary Sewer Main Point Repair (6'-10' depth)	EA	0	\$ 2,750.00	\$ -
22	Sanitary Sewer Main Point Repair (10'-14' depth)	EA	0	\$ 4,500.00	\$ -
23	Sanitary Manholes 4-feet diameter (0'-6' depth)	EA	3	\$ 8,500.00	
24	Sanitary Manholes 4-feet diameter (6'-8' depth)	EA	6	\$ 11,000.00	\$ 66,000.00
25	Sanitary Manholes 4-feet diameter (8'-10' depth)	EA	5	\$ 11,000.00	\$ 55,000.00
26	Sanitary Manholes 4-feet diameter (10-14' deep)	EA	3	\$ 15,000.00	\$ 45,000.00
27	Line Manhole (48" diameter)	EA	0	\$ 14,000.00	\$ -
28	Seal & Recoat (48" diameter)	EA	0	\$ 5,500.00	\$ -
29	Install/Repair/Replace 4" Sanitary Sewer Lateral (0 to 6' depth @ main)	EA	16	\$ 2,500.00	\$ 40,000.00
30	Install/Repair/Replace 4" Sanitary Sewer Lateral (6' to 10' depth @ main)	EA	37	\$ 2,500.00	\$ 92,500.00
31	Install/Repair/Replace 4" Sanitary Sewer Lateral (10' to 14' depth @ main)	EA	27	\$ 3,000.00	\$ 81,000.00
32	Install/Repair/Replace 6" Sanitary Sewer Lateral (0 to 5' depth @ main)	EA	19	\$ 3,000.00	\$ 57,000.00
33	Install/Repair/Replace 6" Sanitary Sewer Lateral (6' to 10' depth @ main)	EA	26	\$ 3,000.00	\$ 78,000.00
34	Install/Repair/Replace 6" Sanitary Sewer Lateral (10' to 14' depth @ main)	EA	3	\$ 3,800.00	\$ 11,400.00
35	Line Pipe	LF	0	\$ 40.00	\$ -
36	Bypass Pumping	LS	1	\$ 40,000.00	\$ 40,000.00
SUBTOTAL					\$ 3,093,696.00
CONTINGENCY (10%)					\$ 309,370.00
TOTAL					\$ 3,403,066.00

Town of Eatonville
Eastern Service Area Alternative 2

Preliminary Opinion of Probable Construction Cost

Item No.	Description	Unit	Quantity	Unit Cost	Cost
General					
1	Mobilization, Demobilization, Bonds, and Permits (not to exceed 5% of the total of all bid items except bid items under section 10.1 General)	LS	1	\$ 347,139.00	\$ 347,139.00
2	Idemnification	LS	1	\$ 100.00	\$ 100.00
3	Preconstruction Audio-Video Documentation	LS	1	\$ 1,000.00	\$ 1,000.00
4	Project Record Documents (1% of Total Project minus General Requiremer	LS	1	\$ 69,428.00	\$ 69,428.00
Road Work					
6	Maintenance of Traffic	LS	1	\$ 52,000.00	\$ 52,000.00
7	Erosion and Sediment Control	LS	1	\$ 20,000.00	\$ 20,000.00
8	Asphalt Roadway Replacement (2"-4" thick with base)	SY	27475	\$ 60.00	\$ 1,648,500.00
9	Concrete Curb and/or Curb & Gutter Replacement	LF	1100	\$ 40.00	\$ 44,000.00
10	Mill & Resurface	SY	3225	\$ 30.00	\$ 96,750.00
11	Concerete Driveway Replacement	SY	370	\$ 125.00	\$ 46,250.00
12	Sod Replacement (Bahai)	SY	340	\$ 4.00	\$ 1,360.00
Wastewater Collection System					
13	Light Cleaning Sanitary Sewer Mains (8" to 12" diameter)	LF	4010	\$ 1.50	\$ 6,015.00
14	Light Cleaning Sanitary Sewer Mains (15" to 24" diameter)	LF	0	\$ 2.00	\$ -
15	Mechanical Root or Grease Removal (Heavy Cleaning)	LF	4788	\$ 3.50	\$ 16,758.00
16	Furnish and Install 8" PVC Gravity Sewer (0'-6' depth)	LF	0	\$ 245.00	\$ -
17	Furnish and Install 8" PVC Gravity Sewer (6'-10' depth)	LF	12,033	\$ 275.00	\$ 3,309,075.00
18	Furnish and Install 8" PVC Gravity Sewer (10'-14' depth)	LF	0	\$ 440.00	\$ -
19	Furnish and Install 15" PVC Gravity Sewer (9'-14' depth)	LF	0	\$ 610.00	\$ -
20	Sanitary Sewer Main Point Repair (0'-5' depth)	EA	0	\$ 2,500.00	\$ -
21	Sanitary Sewer Main Point Repair (6'-10' depth)	EA	33	\$ 2,750.00	\$ 90,750.00
22	Sainitary Sewer Main Point Repair (10'-14' depth)	EA	0	\$ 4,500.00	\$ -
23	Sanitary Manholes 4-feet diameter (0'-6' depth)	EA	0	\$ 8,500.00	\$ -
24	Sanitary Manholes 4-feet diameter (6'-8' depth)	EA	0	\$ 11,000.00	\$ -
25	Sanitary Manholes 4-feet diameter (8'-10' depth)	EA	15	\$ 11,000.00	\$ 165,000.00
26	Sanitary Manholes 4-feet diameter (10'-14' deep)	EA	0	\$ 15,000.00	\$ -
27	Line Manhole (48" diameter)	EA	0	\$ 14,000.00	\$ -
28	Seal & Recoat (48" diameter)	EA	72	\$ 5,500.00	\$ 396,000.00
29	Install/Repair/Replace 4" Sanitary Sewer Lateral (0 to 6' depth @ main)	EA	0	\$ 2,500.00	\$ -
30	Install/Repair/Replace 4" Sanitary Sewer Lateral (6' to 10' depth @ main)	EA	242	\$ 2,500.00	\$ 605,000.00
31	Install/Repair/Replace 4" Sanitary Sewer Lateral (10' to 14' depth @ main)	EA	0	\$ 3,000.00	\$ -
32	Install/Repair/Replace 6" Sanitary Sewer Lateral (0 to 5' depth @ main)	EA	0	\$ 3,000.00	\$ -
33	Install/Repair/Replace 6" Sanitary Sewer Lateral (6' to 10' depth @ main)	EA	12	\$ 3,000.00	\$ 36,000.00
34	Install/Repair/Replace 6" Sanitary Sewer Lateral (10' to 14' depth @ main)	EA	0	\$ 3,800.00	\$ -
35	Line Pipe	LF	10,233	\$ 40.00	\$ 409,320.00
36	Bypass Pumping	LS	1	\$ 400,000.00	\$ 400,000.00
SUBTOTAL					\$ 7,760,445.00
CONTINGENCY (10%)					\$ 776,045.00
TOTAL					\$ 8,536,490.00

Town of Eatonville
Eastern Service Area Alternative 3

Preliminary Opinion of Probable Construction Cost

Item No.	Description	Unit	Quantity	Unit Cost	Cost
General					
1	Mobilization, Demobilization, Bonds, and Permits (not to exceed 5% of the total of all bid items except bid items under section 10.1 General)	LS	1	\$ 560,424.00	\$ 560,424.00
2	Idemnification	LS	1	\$ 100.00	\$ 100.00
3	Preconstruction Audio-Video Documentation	LS	1	\$ 1,000.00	\$ 1,000.00
4	Project Record Documents (1% of Total Project minus General Requirement)	LS	1	\$ 112,085.00	\$ 112,085.00
Road Work					
6	Maintenance of Traffic	LS	1	\$ 52,000.00	\$ 52,000.00
7	Erosion and Sediment Control	LS	1	\$ 20,000.00	\$ 20,000.00
8	Asphalt Roadway Replacement (2"-4" thick with base)	SY	48490	\$ 60.00	\$ 2,909,400.00
9	Concrete Curb and/or Curb & Gutter Replacement	LF	2000	\$ 40.00	\$ 80,000.00
10	Mill & Resurface	SY	1610	\$ 30.00	\$ 48,300.00
11	Concrete Driveway Replacement	SY	370	\$ 125.00	\$ 46,250.00
12	Sod Replacement (Bahai)	SY	695	\$ 4.00	\$ 2,780.00
Wastewater Collection System					
13	Light Cleaning Sanitary Sewer Mains (8" to 12" diameter)	LF	0	\$ 1.50	\$ -
14	Light Cleaning Sanitary Sewer Mains (15" to 24" diameter)	LF	0	\$ 2.00	\$ -
15	Mechanical Root or Grease Removal (Heavy Cleaning)	LF	0	\$ 3.50	\$ -
16	Furnish and Install 8" PVC Gravity Sewer (0'-6' depth)	LF	0	\$ 245.00	\$ -
17	Furnish and Install 8" PVC Gravity Sewer (6'-10' depth)	LF	22,270	\$ 275.00	\$ 6,124,250.00
18	Furnish and Install 8" PVC Gravity Sewer (10'-14' depth)	LF	0	\$ 440.00	\$ -
19	Furnish and Install 15" PVC Gravity Sewer (9'-14' depth)	LF	0	\$ 610.00	\$ -
20	Sanitary Sewer Main Point Repair (0'-5' depth)	EA	0	\$ 2,500.00	\$ -
21	Sanitary Sewer Main Point Repair (6'-10' depth)	EA	0	\$ 2,750.00	\$ -
22	Sanitary Sewer Main Point Repair (10'-14' depth)	EA	0	\$ 4,500.00	\$ -
23	Sanitary Manholes 4-foot diameter (0'-6' depth)	EA	0	\$ 8,500.00	\$ -
24	Sanitary Manholes 4-foot diameter (6'-8' depth)	EA	0	\$ 11,000.00	\$ -
25	Sanitary Manholes 4-foot diameter (8'-10' depth)	EA	87	\$ 11,000.00	\$ 957,000.00
26	Sanitary Manholes 4-foot diameter (10-14' deep)	EA	0	\$ 15,000.00	\$ -
27	Line Manhole (48" diameter)	EA	0	\$ 14,000.00	\$ -
28	Seal & Recoat (48" diameter)	EA	0	\$ 5,500.00	\$ -
29	Install/Repair/Replace 4" Sanitary Sewer Lateral (0 to 6' depth @ main)	EA	0	\$ 2,500.00	\$ -
30	Install/Repair/Replace 4" Sanitary Sewer Lateral (6' to 10' depth @ main)	EA	367	\$ 2,500.00	\$ 917,500.00
31	Install/Repair/Replace 4" Sanitary Sewer Lateral (10' to 14' depth @ main)	EA	0	\$ 3,000.00	\$ -
32	Install/Repair/Replace 6" Sanitary Sewer Lateral (0 to 5' depth @ main)	EA	0	\$ 3,000.00	\$ -
33	Install/Repair/Replace 6" Sanitary Sewer Lateral (6' to 10' depth @ main)	EA	17	\$ 3,000.00	\$ 51,000.00
34	Install/Repair/Replace 6" Sanitary Sewer Lateral (10' to 14' depth @ main)	EA	0	\$ 3,800.00	\$ -
35	Line Pipe	LF	0	\$ 40.00	\$ -
36	Bypass Pumping	LS	1	\$ 700,000.00	\$ 700,000.00
SUBTOTAL					\$ 12,582,089.00
CONTINGENCY (10%)					\$ 1,258,209.00
TOTAL					\$ 13,840,298.00

APPENDIX B

Lake Lovely & Eastern Eatonville Project – Preliminary Ecological Assessment

LAKE LOVELY & LAKE EASTERN EATONVILLE PROJECT
 THREATENED, ENDANGERED,
 AND OTHER SPECIES OF CONCERN LIKELY TO OCCUR IN
 THE PROJECT AREA & ORANGE COUNTY, FLORIDA
 Species Compiled from FNAI, FFWCC, USFWS & FDACS
 Table No. 1

Common Name	Scientific Name	State Status *	USFWS Status *	Natural Communities	On-Site Habitat	Likelihood of Occurrence
AMPHIBIANS & REPTILES:						
Eastern indigo snake	<i>Drymarchon couperi</i>	T	T	ESTUARINE: tidal swamp PALUSTRINE: hydric hammock, wet flatwoods TERRESTRIAL: mesic flatwoods, upland pine forest, sandhills, scrub, scrubby flatwoods, rockland hammock, ruderal	None	None, Not Observed
Florida pine snake	<i>Pituophis melanoleucus mugitus</i>	T		LACUSTRINE: ruderal, sandhill upland lake TERRESTRIAL: sandhill, scrubby flatwoods, xeric hammock, ruderal	None	None, Not Observed
Short-tailed snake	<i>Lampropeltis extenuata</i>	T		TERRESTRIAL: sandhill, xeric hammock, sand pine scrub	None	None, Not Observed
Sand skink	<i>Neoseps reynoldsi</i>	T	T	TERRESTRIAL: sandhills, scrub, scrubby flatwoods, xeric hammocks	None	None, Not Observed
Gopher tortoise	<i>Gopherus polyphemus</i>	T		TERRESTRIAL: sandhills, scrub, scrubby flatwoods, xeric hammocks, coastal strand, ruderal	Low Quality Habitat	Low probability, Not Observed
BIRDS:						
Everglade snail kite	<i>Rostrhamus sociabilis plumbeus</i>	E	E	ESTUARINE: marshes LACUSTRINE: floodplain lakes, marshes PALUSTRINE: marshes, swamps	None	None, Not Observed
Bald Eagle	<i>Haliaeetus leucocephalus</i>		BGEPA	ESTUARINE: marshes LACUSTRINE: floodplain lakes, marshes (feeding), various PALUSTRINE: marshes, swamps RIVERINE: rivers	None	None, Not Observed
Wood stork	<i>Mycteria americana</i>	T	T	ESTUARINE: marshes LACUSTRINE: floodplain lakes, marshes (feeding), various PALUSTRINE: marshes, swamps	None	None, Not Observed
Florida sandhill crane	<i>Grus canadensis pratensis</i>	T		PALUSTRINE: marshes, prairies, TERRESTRIAL: pastures, ruderal	Minimal Foraging Habitat	Low probability, Not Observed
Least tern	<i>Sterna antillarum</i>	T		ESTUARINE: various LACUSTRINE: various RIVERINE: various TERRESTRIAL: beach dune, ruderal nests common on rooftops	None	None, Not Observed
Little blue heron	<i>Egretta caerulea</i>	T		ESTUARINE: marshes, shoreline PALUSTRINE: floodplains, swamps RIVERINE: shoreline	None	None, Not Observed
Audubon's crested caracara	<i>Polyborus plancus audubonii</i>	T	T	ESTUARINE: marshes TERRESTRIAL: scrubby flatwoods, pastures	None	None, Not Observed
Burrowing owl	<i>Athene cunicularia</i>	T		TERRESTRIAL: dry prairie, sandhill, pasture, ruderal	None	None, Not Observed
Southeastern American kestrel	<i>Falco sparverius paulus</i>	T		ESTUARINE: various habitats PALUSTRINE: various habitats TERRESTRIAL: open pine forests, clearings, ruderal, various	Minimal Habitat	Low probability, Not observed
Tricolored heron	<i>Egretta tricolor</i>	T		ESTUARINE: marshes, tidal swamps, shoreline LACUSTRINE: lake edges PALUSTRINE: swamp, floodplain, ruderal RIVERINE: shoreline	None	None, Not Observed

*E=endangered, T=threatened, BGEPA=Bald and Golden Eagle Protection Act

LAKE LOVELY & LAKE EASTERN EATONVILLE PROJECT
 THREATENED, ENDANGERED,
 AND OTHER SPECIES OF CONCERN LIKELY TO OCCUR IN
 THE PROJECT AREA & ORANGE COUNTY, FLORIDA
 Species Compiled from FNAI, FFWCC, USFWS & DACS
 Table No. 1

Common Name	Scientific Name	State Status *	USFWS Status *	Natural Communities	On-Site Habitat	Likelihood of Occurrence
BIRDS (continued):						
Florida scrub-jay	<i>Aphelocoma coerulescens</i>	T	T	TERRESTRIAL: scrubby flatwoods, xeric hammocks, xeric oak scrub	None	None, Not Observed
MAMMALS:						
NONE						
PLANTS:						
Beautiful pawpaw	<i>Deeringothamnus pulchellus</i>	E	E	TERRESTRIAL: xeric flatwoods, mesic flatwoods, hydric pine flatwoods	None	None, Not observed
Britton's beargrass	<i>Nolina brittoniana</i>	E	E	TERRESTRIAL: scrub, pine flatwoods, mesic hammocks	None	None, Not observed
Many-flowered Grasspink	<i>Calopogon multiflorus</i>	T		TERRESTRIAL: dry prairie, sandhill, pasture, ruderal	None	None, Not observed
Florida Spiny-pod	<i>Matelea floridana</i>	E		TERRESTRIAL: hardwood forests	None	None, Not observed
Pinesap	<i>Monotropa hypopithys</i>	E		TERRESTRIAL: xeric oak, upland forest	None	None, Not observed
Florida Beargrass	<i>Nolina atopocarpa</i>	T		TERRESTRIAL: shady areas	None	None, Not observed
Scrub Stylisma	<i>Stylisma abdita</i>	E		TERRESTRIAL: scrub, pine flatwoods	None	None, Not observed
Clasping Warea	<i>Warea amplexifolia</i>	E	E	TERRESTRIAL: longleaf pine, sandhill, pine scrub	None	None, Not observed
Giant orchid	<i>Pteroglossaspis ecristata</i>		T	TERRESTRIAL: sandhill, scrub, pine flatwoods, pine rocklands	None	None, Not observed
Tampa mock vervain	<i>Glandularia tampensis</i>	E		TERRESTRIAL: hammocks & flatwoods	None	None, Not observed
Pine pinweed	<i>Lechea divaricata</i>	E		TERRESTRIAL: scrub & scrubby flatwoods	None	None, Not observed
Redmargin zephyrlily	<i>Zephyranthes simpsonii</i>	T		TERRESTRIAL: mesic flatwoods	None	None, Not observed

*E=endangered, T=threatened, BGEPA=Bald and Golden Eagle Protection Act

Memo

Date: February 27, 2020

To: Mayor Eddie Cole via email: ecole@townofeatonville.org

Organization: City of Eatonville

From: Amy E. Daly, LEED AP and Erika Lozano

Re: Lake Lovely & Eastern Eatonville Project - Preliminary Ecological Assessment

CPH Job No.: E6606

CPH, Inc (CPH), Environmental Services, conducted a preliminary ecological assessment of the Lake Lovely & Lake Eastern Eatonville Study Area on February 19, 2020. The Study Area is approximately 27.22 acres and is located in Sections 35 & 36, Township 21 South, Range 29 East. The Study Area is east of Interstate-4, west of Orlando Avenue (aka State Road 17/92) and south of Maitland Boulevard (**Figure 1**). The purpose of this preliminary assessment is to provide: 1) a general estimate of the type and extent of upland habitats and the approximate extent and configuration of areas expected to fall within the wetland regulatory jurisdiction of the U.S. Army Corps of Engineers (ACOE) and the Florida Department of Environmental Protection (FDEP); 2) a preliminary review for protected wildlife (and plant) species occurrence based on direct observation during the field investigations; 3) quality of the on-site wetland habitats, if applicable; and 4) potential wetland regulatory considerations.

EXISTING CONDITIONS

Vegetation associations and landscape descriptions were identified from aerial photography, the Soil Conservation Service (SCS) *Soil Survey of Orange County, Florida* and groundtruthing. There are five (5) soil types (**Figure 2**) and one (1) vegetation and land use classification (**Figure 3**) mapped within the project boundaries. Vegetation and land uses are generally classified in accordance with the *Florida Land Use, Cover and Forms Classification System* (FLUCFCS) (FDOT 1999). CPH's on-site field investigation was conducted on February 19, 2020.

Soils

A summary of the characteristics of these soil types, as described by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), formerly Soil Conservation Service (SCS) Soil Survey Geographic (SSURGO) database are as follows:

Basinger fine sand, depressional, 0 to 1 percent slopes

This soil type is listed as a hydric soil in the *Hydric Soils of Florida Handbook, Third Edition* (Carlisle, 1999). Hydric soils are a characteristic of wetlands. This soil type is a nearly level and very poorly drained. Typically these soils are found in shallow depressions and sloughs and along the edges of freshwater marshes and swamps. Undrained areas are ponded for 6 to 9 months or

more a year, and the water table is within 12 inches of the surface the rest of the year. Permeability is rapid, available water capacity is low, and organic content is low.

Candler-Urban land complex, 0 to 5 percent slopes

This complex consists of Candler soil that is nearly level to gently sloping and excessively drained and areas of Urban land. This complex is in the upland areas. A seasonal high water table is at a depth of more than 80 inches. The permeability of Candler soil is rapid in the surface and subsurface layers, and it is rapid to moderately rapid in the subsoil. The available water capacity is very low in the surface and subsurface.

Smyrna-Urban land complex

This complex consists of 53 percent Smyrna soil that is nearly level and poorly drained and 40 percent Urban land on flatwoods. The slopes are smooth and range from 0 to 2 percent. In undrained areas, a seasonal high water table is within 10 inches of the surface for 1 to 4 months. The permeability of Smyrna soil is rapid in the surface and subsurface layers and in the substratum. It is moderate to moderately rapid in the subsoil. The available water capacity is low to very low in the surface, subsurface, and substratum layers, and medium in the subsoil. Natural fertility and organic matter content is low.

Tavares-Urban land complex, 0 to 5 percent slopes

This complex consists of Urban land and Tavares soil that is nearly level to gently sloping and moderately well drained, on low ridges, knolls, and flatwoods. In undrained areas, a seasonal high water table is at a depth of 40 to 80 inches for 6 months or more, receding to 80 plus inches during extended dry periods. Permeability is very rapid throughout. The available water capacity is very low. Natural fertility and organic matter content are very low.

Zolfo-Urban land complex

This complex consists of areas of Urban land and Zolfo soil that is nearly level and somewhat poorly drained. In undrained areas, a seasonal high water table is at a depth of 24 to 40 inches for 2 to 6 months and 10 to 24 inches during periods of high rainfall, receding to a depth of 60 inches during extended dry periods. The permeability of Zolfo soil is rapid in the surface and subsurface, and moderate in the subsoil. Available water capacity is low in surface and subsurface layers and medium in the subsoil. Natural fertility and the organic matter content are low.

Vegetation and Land Use Types

The following descriptive titles and FLUCFCS numbers assess the subject project's vegetation and land uses and are presented on the enclosed aerial photograph (**Figure 3**).

Roads & Highways (FLUCFCS No. 814)

This land use classification describes the project area. The project areas includes East Kennedy Boulevard, Gabriel Street, Johnson Street, North College Avenue, Clark Street, N. Calhoun Avenue, N. West Street, N. East Street, S College Avenue, Lemon Street, Orange Street, Moseley Avenue, S. Calhoun Street, Elizabeth Street Line Street, S. West Street, Lord Avenue, People Street, Taylor Avenue, S. East Street, Ruffel Street, Wigman Drive, Vereen Drive, Fitzgerald Drive, Jonotey Drive and their associated right-of-way areas in between. Vegetation observed in the right-of-way is

routinely maintained and consists of bahiagrass (*Paspalum notatum*) and St. Augustine grass (*Stenotaphrum secundatum*). Vegetation also observed included beggarticks (*Bidens alba*), cabbage palm (*Sabal palmetto*), saw palmetto (*Serenoa repens*), Ohio spiderwort (*Tradescantia ohioensis*), common dayflower (*Commelina diffusa*), cogongrass (*Imperata cylindrica*), Southern magnolia (*Magnolia grandiflora*), slash pine (*Pinus elliottii*), longleaf pine (*Pinus palustris*) laurel oak (*Quercus laurifolia*), live oak (*Quercus virginiana*), crepe myrtle (*Lagerstroemia spp.*) and various other ornamentals, weeds and grasses.

WETLANDS & SURFACE WATERS

According to wetland delineation methodologies outlined in the *Corps of Engineers Wetland Delineation Manual* (1987), the *2008 Corps Interim Regional Supplement to the Corps Wetland Delineation Manual: Atlantic & Gulf Coastal Plain Region* and the State of Florida Unified Wetland Delineation Methodology (Section 62-340, F.A.C.), areas classified as wetlands and surface waters were not observed within, or immediately adjacent to, the subject project area during the field investigation.

REGULATORY CONSIDERATIONS

U.S. Army Corps of Engineers

The ACOE regulates wetlands connected to “Waters of the United States” and “Adjacent Waters” pursuant to Section 404 of the Clean Water Act. Based on the U.S. Supreme Court decision Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers, No. 99-1178 (January 9, 2001) (SWANCC) isolated wetlands are considered non-jurisdictional for the ACOE. Based on the U.S. Supreme Court decision consolidated cases Rapanos v. United States and Carabell v. United States, 126 S. Ct. 2208 (2006) (RAPANOS) the ACOE is required to establish a physical, biological, or chemical nexus of connection to traditional navigable waters (TNW) of the United States to claim jurisdiction. The process to determine whether the ACOE will claim jurisdiction over wetland or surface water is entitled a Jurisdictional Determination (JD). The JD package can be submitted prior to, or in conjunction with, the permit application. **“Waters of the U.S.” and “Adjacent Waters” were not observed within during the preliminary field investigation within the study area.**

Florida Department of Environmental Protection

The FDEP regulates wetlands that are isolated and those considered within or connected to “Waters of the State” pursuant to Chapter 403 of the Florida Statutes, Rules 62-302 and 62-330 of the Florida Administrative Code (F.A.C.). Development activities altering wetlands and/or drainage will require an Environmental Resource Permit (ERP) from FDEP. Different ERP Permits for various activities, General Permits and exemptions, can be found in the *State of Florida Environmental Resource Permit Applicant’s Handbook, Volume I*. Specific design standards, basin specific criteria and procedures can be found in the *State of Florida Environmental Resource Permit Applicant’s Handbook, Volume II*. **Jurisdictional areas (wetlands and surface waters) under the purview of the FDEP were not observed within the study area during the field investigation.**

The U.S. Environmental Protection Agency (EPA) requires coverage under the National Pollutant Discharge Elimination System (NPDES) generic permit for discharge from large and small construction activities for any project that results in the clearing of one or more acres, pursuant to 40 CFR parts 122 and 124 and the Florida Department of Environmental Protection (FDEP), pursuant to rule 62-621.300 (4), F.A.C. The EPA has delegated responsibility to the FDEP to administer the NPDES permits for the State of Florida. In association with this permit, a Stormwater Pollution Prevention Plan (SWPPP), which will be implemented during the construction of the project, will also be required. The primary functions of the NPDES requirements are to ensure that sediment and erosion during construction of the project is controlled. The NPDES permit typically requires use of Best Management Practices to ensure compliance with water quality standards. In addition, coverage under the generic permit for discharge of produced ground water from a non-contaminated site activity must be secured for any construction-related dewatering activity pursuant to Rule 62-621.302.

PROTECTED FAUNA & FLORA

Records Search

Preliminary ecological investigations included a review of published and unpublished literature concerning the subject project area and surrounding area, solicitation of databases on protected species, field investigations to generally delineate and characterize the habitats and a preliminary field survey for the occurrence of protected flora and fauna. The records review did not indicate recorded observations or occurrences of protected species in the study area (**Figure 4**). **According to the public databases the study area is located within the USFWS Everglades Snail Kite Consultation Area, USFWS Scrub Jay Consultation Area and USFWS Sand Skink Consultation Area and a Wood Stork Core Foraging Area.**

Field Investigation

CPH biologists conducted a field investigation of the study area on February 19, 2020. General reconnaissance of the study area was conducted, looking for the occurrence of federal or state-listed flora and fauna as well as general wildlife utilization.

Regulatory oversight for protected fauna and flora is the responsibility of the U.S. Fish and Wildlife Service (USFWS), FFWCC and the Florida Department of Agriculture and Consumer Services (DACS). The USFWS is the federal agency responsible for protecting the nation's fish and wildlife resources through implementation of the Endangered Species Act of 1973, as amended. ("ESA," 16 U.S.C. 1513-1543). **Species protected under the ESA were not observed within, or adjacent to, the study area during the on-site field investigation.**

The Florida Fish and Wildlife Conservation Commission (FFWCC) regulate the taking of species listed as endangered, threatened or of special concern and their nests through Rules listed in 68A-27 Florida Administrative Code. The FFWCC also provides technical assistance to other agencies that have regulatory authority over activities, which may affect fish and wildlife and their habitat. **State listed protected species were not observed in the study area during the on-site field investigation.**

Section 581.185, Florida Statutes and Chapter 5B-40, F.A.C., delegates authority to the Florida Department of Agriculture and Consumer Services (DACS) to designate and regulate plants listed as "endangered," "commercially exploited" and "threatened." It is unlawful for an individual to harvest endangered or commercially exploited plants from the private land of another or any public land without first obtaining written permission of the landowner and a permit from DACS. It is unlawful for an individual to harvest a threatened plant from private land or public land without first obtaining written permission of the landowner. **DACS protected plants were not observed in the study area during the on-site field investigation.**

Wildlife utilization is a measure of direct observations or evidence of animals' presence (e.g. scat, tracks, dens, etc.). Potential wildlife utilization was evaluated on the basis of food sources, nesting areas, roosting areas, den areas and protective covering. During the field investigation, direct observations or signs of wildlife on the property included various audible song birds, Carolina wren (*Thryothorus ludovicianus*), pileated woodpecker (*Dryocopus pileatus*), and grey squirrels (*Sciurus carolinensis*). The proximity to several roads, a residential area, a school, and several small commercial buildings are all deterrents to significant wildlife utilization.

Protected Fauna and Flora Regulatory Considerations

Below is a discussion of select species or groups of wildlife that frequently affect development projects or can affect a project even though these species are not physically located on the development site.

Migratory Bird Treaty Act

The USFWS also administers and enforces the *Migratory Bird Treaty Act* (MBTA) of 1918, as amended, (16 USC 703-712) which makes it unlawful to pursue, hunt, take, capture, kill or sell birds listed therein ("migratory birds"). The statute does not discriminate between live or dead birds and also grants full protection to any bird parts including feathers, eggs and nests. A migratory bird is any species or family of birds that live, reproduce or migrate within or across international borders at some point during their annual life cycle. The current list of birds protected under the MBTA was published in the Federal Register on November 1, 2013 which became effective on December 2, 2013. In total, 1,026 bird species are protected by the MBTA. **Provided construction activities do not directly kill or harm birds, their nests or eggs, development of the subject project has a low probability of violating the MBTA.**

Bald Eagle

The Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d) and the regulations derived therefrom (50 CFR 22) state, in part, that no person shall take any bald eagle or any golden eagle, alive or dead, or any part, nest, or egg thereof with "take" meaning to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb. Both Federal and State laws and regulations make it unlawful to take any listed species with "take" meaning to harass, harm pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct.

According to the FFWCC database active nests are not documented as occurring within the study area (**Figure 4**). The closest documented bald eagle nest (Nest OR031) is located

1.15 miles north of the study area. **The presence of this nest will not adversely affect project areas within the study area to the distance from the nest to the study area. Eagle activity was not observed within, or adjacent to the study area during the field investigation.**

Wood Stork

The wood stork (*Mycteria americana*) is listed as Endangered by the USFWS and the FFWCC. The wood stork is protected under the Endangered Species Act of 1973, as amended, 16 U.S.C. 1531 et seq. and Florida Chapter 68A, Florida Administrative Code. Inundated forested wetlands, cypress strands and domes, mixed hardwood swamps and sloughs provide nesting habitat. Nest sites are generally in woody vegetation over standing water, or on islands surrounded by broad expanses of open water. Shallow freshwater marshes, ponds, flooded pastures and ditches provide suitable foraging habitat. Wood storks nest in colonies and will return to the same colony site for many years so long as the site and the surrounding feeding habitat continue to supply the needs for the birds. The USFWS has determined the extent of the Core Foraging Area (CFA) as approximately 15 miles, for central Florida counties, from the nesting colony. **The study is located within the CFA of a wood stork colony (Figure 4). Wood stork habitat was not observed within the study area during the field investigation, therefore, further agency coordination regarding the wood stork is not a consideration of this project.**

USFWS Everglades Snail Kite Consultation Area

The Everglade snail kite (*Rostrhamus sociabilis plumbeus*) is listed as Endangered by the USFWS and the FFWCC. The Everglade snail kite is protected under the Endangered Species Act of 1973, as amended, 16 U.S.C. 1531 et seq. Typical Everglade snail kite habitat consists of freshwater marshes and the shallow vegetated edges of lakes (natural and man-made) where apple snails (*Pomacea paludosa*) can be found. Everglade snail kites require suitable foraging areas that are relatively clear and open in order to visually search for their specialized diet (apple snails). **During the field investigation, snail kites, their habitat, food and nests were not nesting habitat within the study area, therefore, further agency coordination regarding the snail kite is not a consideration of this project.**

USFWS Sand Skink Consultation Area

The sand skink (*Neoseps reynoldsi*) and blue-tailed mole skink (*Eumeces egregius lividus*) were listed as threatened under the Endangered Species Act (ESA) in 1987. Individuals or entities intending to conduct activities that may affect listed species may lawfully incidentally take those species after consulting with the U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 or 10 of the ESA. When a project is conducted, funded or authorized by a Federal agency, listed species consultation occurs pursuant to Section 7 of the ESA. If there is no Federal nexus (e.g., federal funding or authorization), a non-Federal entity who wishes to conduct an activity may legally “take” listed species after obtaining an Incidental Take Permit (ITP) from the USFWS in accordance with Section 10 of the ESA.

The study area is located within the Sand Skink and Blue-tailed Mole Skink Consultation Area, portions of the project area contain soil types preferred by skinks and portions of the study area are above the 82-foot elevation. However, the study area has been developed for over 50 years and does not contain skink habitat. **Due to the developed condition of the study area and lack of habitat, further agency coordination regarding the sand skink is not a consideration of this project.**

USFWS Florida Scrub-Jay Consultation Area

The Florida Scrub-Jay (*Aphelocoma coerulescens coerulescens*) is listed as a Threatened species by the USFWS through the Endangered Species Act of 1973, as amended, 16 U.S.C. 1531 et seq. The USFWS issues a Biological Opinion (BO) for projects and its effects on the threatened Florida scrub-jay in accordance with Section 7 or Section 10 of the Endangered Species Act of 1973, as amended (ESA) (87 stat. 884; 16 U.S.C. 1531 et seq.). The BO will spell out the negotiated mitigation measures taken by the project to ensure the listed species is not adversely affected. **Scrub jays and their habitat were not observed in the study area during the field investigation. According to the USFWS database, known scrub-jay territory or jay sightings are not located within, or adjacent to, the study area (Figure 4). Due to the developed condition of the study area and lack of habitat, further agency coordination regarding the scrub jay is not a consideration of this project.**

As a preliminary assessment, the findings of this report concerning native vegetation and land use may be subject to change upon more detailed analysis. Additionally, failure to detect a listed species does not necessarily infer species absence as wildlife are mobile, exhibit seasonality of occurrence and generally have low population levels. Further, nothing in this report regarding environmental laws, rules and regulations is intended to be a legal interpretation or opinion, thus readers of this report should contact an attorney concerning any matters of law.

Attachments:

Figure 1 – Location Map

Figure 2 – Soils Map

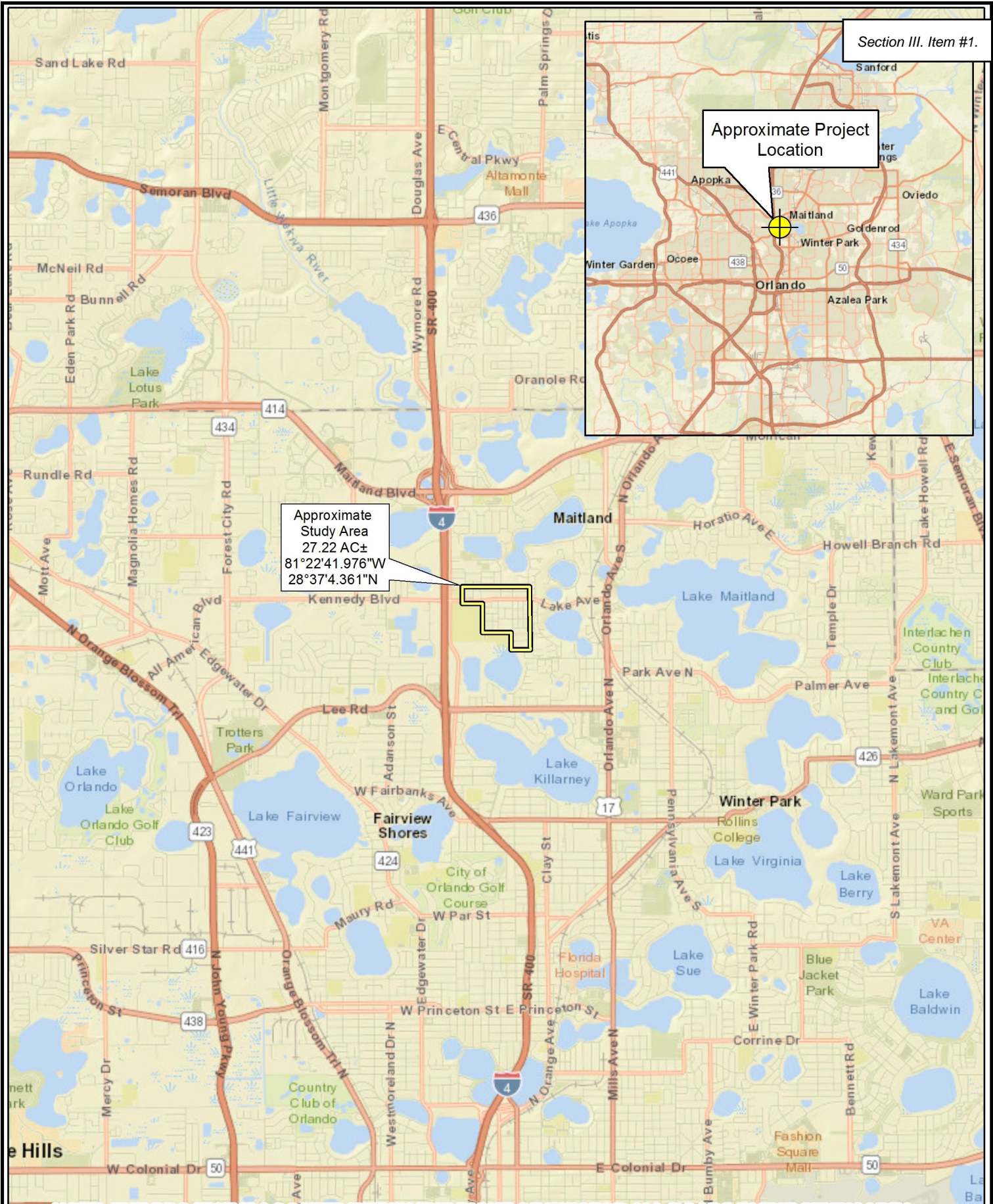
Figure 3 – Preliminary Vegetation and Land Use Map

Figure 4 – Species Map

Cc: Amy Daly, CPH
Scott Brietenstein, CPH

Approximate Project Location

Approximate Study Area
27.22 AC±
81°22'41.976"W
28°37'4.361"N



NOTE: THE PROJECT IS LOCATED WITHIN THE RIGHT-OF-WAY FOR ALL ROADS IN THE STUDY AREA.

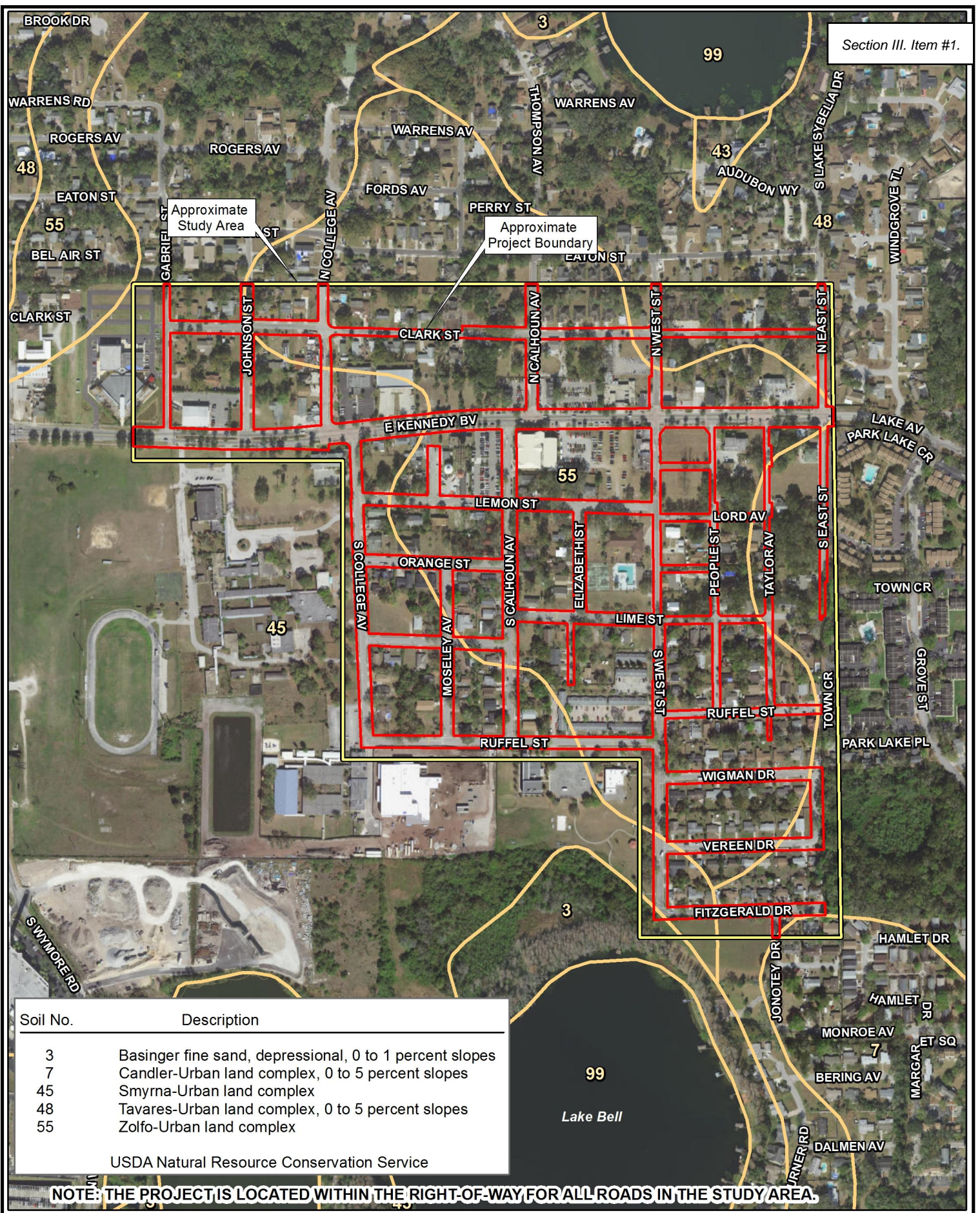


Scale 1" = 1 MILE
Date: 2/24/2020
Photo Date: N/A
Project No. E6606
Biologist: EL GIS: MGO



LOCATION MAP
LAKE LOVELY & EASTERN EATONVILLE
SECTIONS 35 & 36, TOWNSHIP 21 SOUTH, RANGE 29 EAST
ORANGE COUNTY, FLORIDA

FIGURE
1
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Soil No.	Description
3	Basinger fine sand, depressional, 0 to 1 percent slopes
7	Candler-Urban land complex, 0 to 5 percent slopes
45	Smyrna-Urban land complex
48	Tavares-Urban land complex, 0 to 5 percent slopes
55	Zolfo-Urban land complex

USDA Natural Resource Conservation Service

NOTE: THE PROJECT IS LOCATED WITHIN THE RIGHT-OF-WAY FOR ALL ROADS IN THE STUDY AREA.

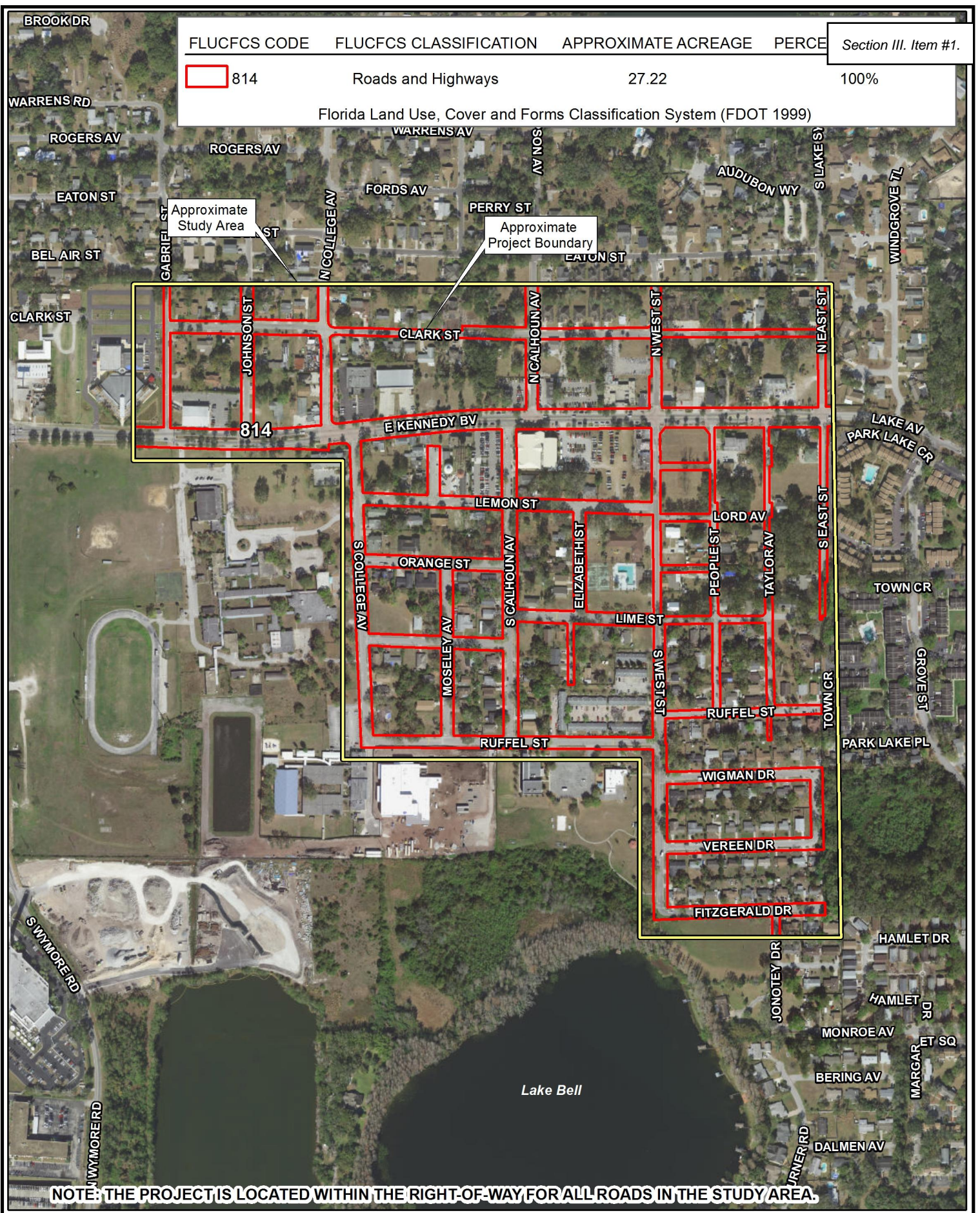
	Scale 1" = 100'		<h2 style="text-align: center;">SOILS MAP</h2> <p style="text-align: center;">LAKE LOVELY & EASTERN EATONVILLE SECTIONS 35 & 36, TOWNSHIP 21 SOUTH, RANGE 29 EAST ORANGE COUNTY, FLORIDA</p>	<h2 style="text-align: center;">FIGURE</h2> <p style="text-align: center;">2</p>
	Date: 2/24/2020			
	Photo Date: 2018			
	Project No. E6606			
Biologist: EL	GIS: MGO			356

FLUCFCS CODE	FLUCFCS CLASSIFICATION	APPROXIMATE ACREAGE	PERCENT
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Section III. Item #1.

 814	Roads and Highways	27.22	100%
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Florida Land Use, Cover and Forms Classification System (FDOT 1999)



NOTE: THE PROJECT IS LOCATED WITHIN THE RIGHT-OF-WAY FOR ALL ROADS IN THE STUDY AREA.

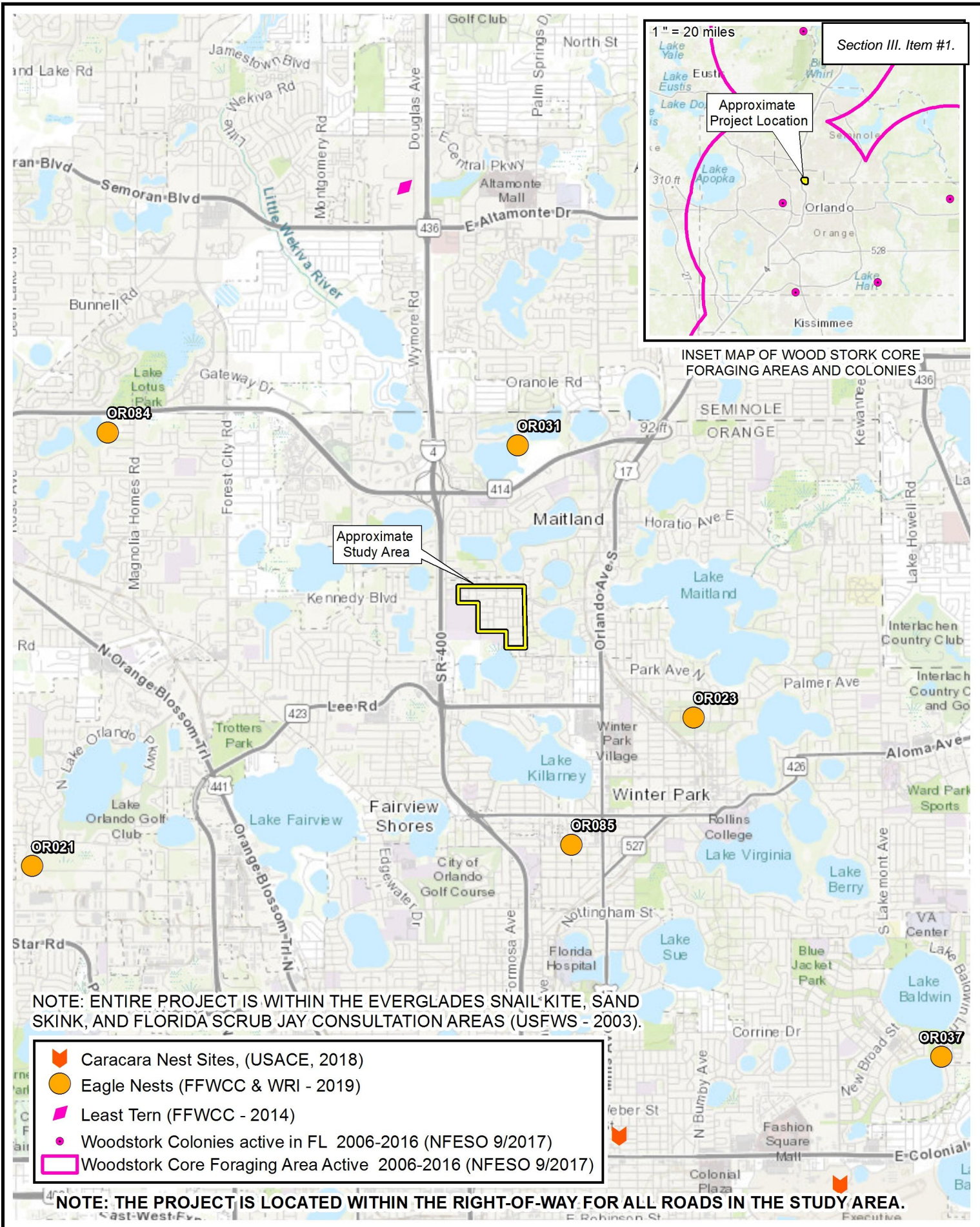


Scale 1" = 100'
 Date: 2/24/2020
 Photo Date: 2018
 Project No. E6606
 Biologist: EL GIS: MGO



PRELIMINARY VEGETATION AND LAND USE MAP
 LAKE LOVELY & EASTERN EATONVILLE
 SECTIONS 35 & 36, TOWNSHIP 21 SOUTH, RANGE 29 EAST
 ORANGE COUNTY, FLORIDA

FIGURE
 357



NOTE: ENTIRE PROJECT IS WITHIN THE EVERGLADES SNAIL KITE, SAND SKINK, AND FLORIDA SCRUB JAY CONSULTATION AREAS (USFWS - 2003).

- Caracara Nest Sites, (USACE, 2018)
- Eagle Nests (FFWCC & WRI - 2019)
- Least Tern (FFWCC - 2014)
- Woodstork Colonies active in FL 2006-2016 (NFESO 9/2017)
- Woodstork Core Foraging Area Active 2006-2016 (NFESO 9/2017)

NOTE: THE PROJECT IS LOCATED WITHIN THE RIGHT-OF-WAY FOR ALL ROADS IN THE STUDY AREA.



Scale: 1" = 1 MILE
 Date: 2/24/2020
 Photo Date: NA
 Project No. E6606
 BIOLOGIST: EL GIS: MGO



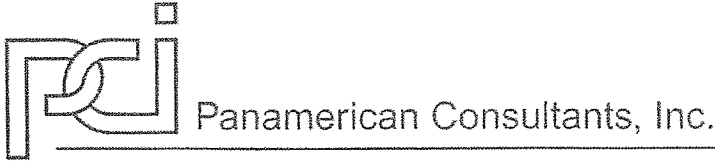
SPECIES MAP

LAKE LOVELY & EASTERN EATONVILLE
 SECTIONS 35 & 36, TOWNSHIP 21 SOUTH, RANGE 29 EAST
 ORANGE COUNTY, FLORIDA

Path: P:\E6606\OptionTwo\Fig-4_Species_E6606.mxd

APPENDIX C

Eatonville Historic District



November 3, 2006

Dr. Barnes
Town of Eatonville
307 East Kennedy Boulevard
Eatonville, FL 32751

Dear Dr. Barnes,

The Old Cemetery Site is located to the west and northwest of the Old Macedonia Church (See attachment A). This location was documented through the Town of Eatonville map of the 1920's corporate limits. The Eatonville Historic District was placed on the National Register of Historic Places on February 3, 1998, based in part on the work completed by E. L. Fly in 1990.

Eatonville Ordinance No. 96-04 establishes the enhancement and perpetuation of historic resources that reflect elements of the town's cultural, social, economic, political, and architectural history. This ordinance also establishes the historic Eatonville Town limits based on the 1919 boundaries as the area effected by the ordinance. This ordinance created a Historic Preservation Board with the duty of, among other tasks, protecting the integrity of designated historic resources by requiring a review of proposals to add to, demolish, or in any way alter the exterior historic fabric of such resources.

Specifically included in this ordinance was 6.1(e), the requirement that a certificate of appropriateness be applied for and approved prior to disturbance of an archaeological site. In additions to the protections offered by Eatonville Town Ordinance No. 96-04, State of Florida Chapter 872 protects unmarked human burials, and makes it a potential felony to knowingly disturb them.

Based on the Town of Eatonville map, the parcel in question (36-21-29-2376-03-200) is within the cemetery boundaries. I recommend that the town have work stopped temporarily until the site can be examined by a professional archaeologist to determine the nature of the disturbance to the cemetery and if any human remains have been disturbed. If so, then the disturbance should be reported to local law enforcement and the State Archaeologist. Prior to any further work in the area, for protection of the cemetery, the boundaries should be more carefully defined using GPR (ground penetrating radar) allowing for more accurate mapping and listing with the Florida Master Site File. Following the completion of this analysis, all construction involving ground disturbance should be monitored or a full assessment completed with an unanticipated finds plan in place to indicate what the contractor should do if human remains are uncovered.

Sincerely,

Paul L. Jones, RPA
Vice President and Senior Archaeologist

cc: Mayor Grant

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panamtn@mindspring.com

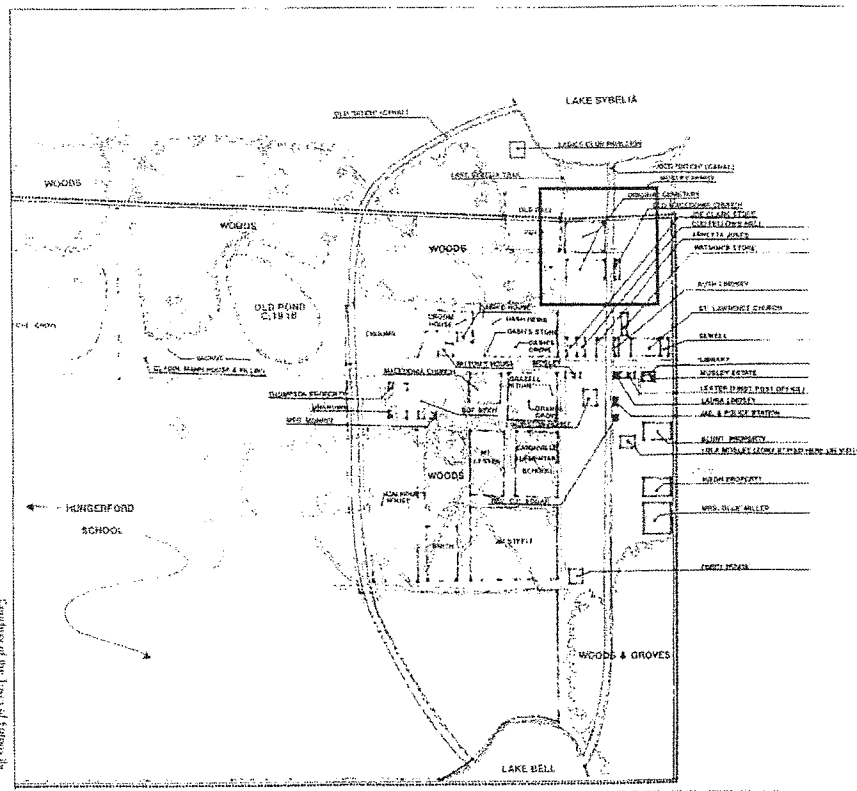
Appendix A: Location of Cemetery within the 1920's corporate limits

U N D E R S T A N D I N G

Americans living in towns they controlled could change race relations in America.

Development

The Reconstruction Period after America's Civil War (1867-1877) and the Great Exodus of 1879 mark the two historical periods when the largest number of race colonies were established. Reconstruction inaugurated social, if not



This map shows Eatonville's corporate limits in 1920

APPENDIX D

Eatonville 2010 Census Data from Census Bureau

Map View: [2010 Census Interactive Population Map](#)

2010 Census Interactive Population Search

FL - Eatonville town

Population

Total Population	2,159
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Housing Status (in housing units unless noted)

Total	811
Occupied	674
Owner-occupied	363
Population in owner-occupied (number of individuals)	1,052
Renter-occupied	311
Population in renter-occupied (number of individuals)	913
Households with individuals under 18	269
Vacant	137
Vacant: for rent	75
Vacant: for sale	13

Population by Sex/Age

Male	1,031
Female	1,128
Under 18	532
18 & over	1,627
20 - 24	139
25 - 34	245
35 - 49	448
50 - 64	431
65 & over	305

Population by Ethnicity

Hispanic or Latino	196
Non Hispanic or Latino	1,963

Population by Race

White	263
African American	1,825
Asian	16
American Indian and Alaska Native	0
Native Hawaiian and Pacific Islander	1
Other	31
Identified by two or more	23

FL - Orange County**Population**

Total Population	1,145,956
------------------	-----------

**Housing Status
(in housing units unless noted)**

Total	487,839
Occupied	421,847
Owner-occupied	243,950
Population in owner-occupied (number of individuals)	662,686
Renter-occupied	177,897
Population in renter-occupied (number of individuals)	449,566
Households with individuals under 18	147,511
Vacant	65,992
Vacant: for rent	26,787
Vacant: for sale	10,683

Population by Sex/Age

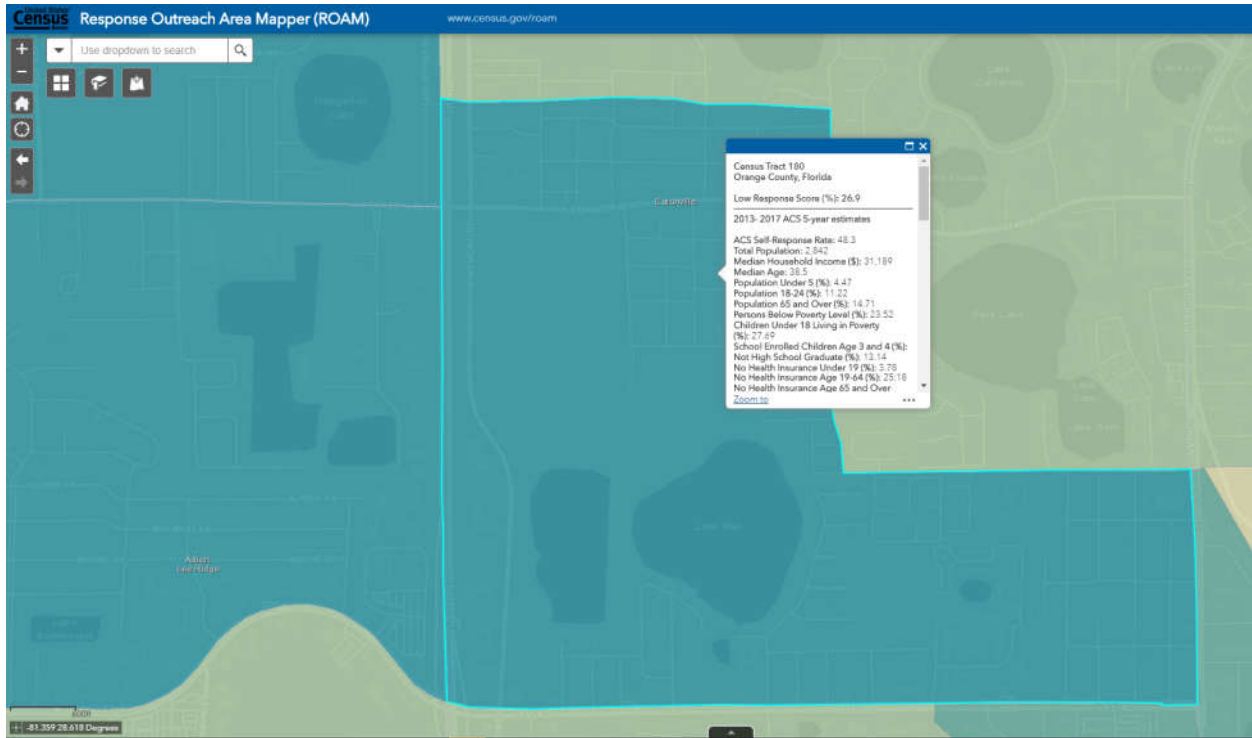
Male	564,326
Female	581,630
Under 18	270,147
18 & over	875,809
20 - 24	105,821
25 - 34	177,117
35 - 49	249,760
50 - 64	191,058
65 & over	110,919

Population by Ethnicity

Hispanic or Latino	308,244
Non Hispanic or Latino	837,712

Population by Race

White	728,795
African American	238,241
Asian	56,581
American Indian and Alaska Native	4,532
Native Hawaiian and Pacific Islander	1,266
Other	77,216
Identified by two or more	39,325



**Census Tract 180
Orange County, Florida**

Low Response Score (%): 26.9
2013- 2017 ACS 5-year estimates

- ACS Self-Response Rate: 48.3**
- Total Population: 2,842**
- Median Household Income (\$): 31,189**
- Median Age: 38.5**
- Population Under 5 (%): 4.47**
- Population 18-24 (%): 11.22**
- Population 65 and Over (%): 14.71**
- Persons Below Poverty Level (%): 23.52**
- Children Under 18 Living in Poverty (%): 27.69**
- School Enrolled Children Age 3 and 4 (%): 13.14**
- Not High School Graduate (%): 13.14**
- No Health Insurance Under 19 (%): 3.78**
- No Health Insurance Age 19-64 (%): 25.18**
- No Health Insurance Age 65 and Over (%): 6.62**
- Non-Hispanic, Black (%): 47.01**
- Non-Hispanic, White (%): 35.26**
- Hispanic (%): 11.72**
- American Indian or Alaska Native (%): 0.00**
- Asian (%): 5.17**
- Native Hawaiian or Other Pacific Islander (%): 0.00**
- Some Other Race (%): 0.00**
- Foreign Born (%): 12.32**
- No One in Household Age 14+ Speaks English "Very Well" (%): 9.72**
- Population 5+ Who Speak English Less Than "Very Well" and Speak Spanish (%): 3.17**
- Population 5+ Who Speak English Less Than "Very Well" and Speak Russian (%): 0.22**
- Population 5+ Who Speak English Less Than "Very Well" and Speak Chinese (%): 0.59**
- Population 5+ Who Speak English Less Than "Very Well" and Speak Korean (%): 0.00**

Population 5+ Who Speak English Less Than "Very Well" and Speak Vietnamese (%): 0.18
Population 5+ Who Speak English Less Than "Very Well" and Speak Tagalog (%): 1.99
Population 5+ Who Speak English Less Than "Very Well" and Speak Arabic (%): 0.00
Total Housing Units: 1,286
Total Occupied Housing Units: 1,049
Renter Occupied Housing Units (%): 61.49
Married Couple Households with Child Under 18 (%): 40.24
Family Occupied Housing Units with Related Children Under 6 (%): 24.72
Population 1+ Who Moved From Another Residence Within the Last Year (%): 17.16
Vacant Housing Units (%): 18.43
Multi-Unit (10+) Housing (%): 23.02
Households with No Computing Device (%): 18.21
Households with Computer (%): 68.92
Households with Only Smartphone (%): 4.00
Households with No Internet Access (%): 18.88
Households with Broadband Internet Access (%): 69.49
Population with No Computing Device (%): 17.84
Population with Broadband Internet and Computing Device (%): 70.51

APPENDIX E

FDEP Clearinghouse Review Letter

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary



FLORIDA DEPARTMENT OF Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, FL 32399

FLORIDA CATEGORICAL EXCLUSION NOTICE

Town of Eatonville, Florida

WW48024 – Major Sewer Rehabilitation

April 10, 2020

Chapter 62-503, Florida Administrative Code (FAC), requires the Florida Department of Environmental Protection (DEP) to determine whether DEP decisions pursuant to providing a State Revolving Fund (SRF) loan for the construction of wastewater management facilities will have a significant adverse impact on the environment. One such decision is the approval of a facilities plan, or portion of such facilities plan, for projects that may be financed under the SRF Loan Program. The DEP, in making this determination, assumes that all facilities and actions recommended in the planning documents justifying these facilities will be implemented, whether or not SRF loan assistance is used to fund any of those facilities or actions. The construction involves: a) Rehabilitation of existing water pollution control system components or replacement of structures, materials or equipment; b) Water pollution control systems that do not change the existing discharge point or permitted pollutant concentration limits and that do not involve acquisition of undisturbed land; and c) Water pollution control systems in areas where streets have been established, underground utilities installed, or building sites excavated. Therefore, the project qualifies for a Florida Categorical Exclusion Notice (FCEN).

The proposed project consists of cleaning, repair, and lining or replacement of approximately 27,000 linear feet of vitrified clay pipe and PVC gravity sanitary sewer and more than 100 manholes in the Town’s Lake Lovely and Eastern Service Areas. The proposed project will help eliminate sanitary sewer overflows and minimize infiltration and inflow. The total estimated construction cost is \$9,784,000.

The DEP tentatively finds, based on a review of the “Town of Eatonville Lake Lovely and Eastern Sanitary Sewer Evaluation Study and Wastewater Facilities Plan,” dated March 2020, that the above described work is eligible for a categorical exclusion. Unless new information regarding adverse environmental impacts of the proposed project is made available to the Department, State financial assistance may be made available for construction. This FCEN does not commit any regulatory agency to issue permits that may be required for construction of the proposed project.

FLORIDA CATEGORICAL EXCLUSION NOTICE

Eatonville, Florida

April 10, 2020

Page Two

This determination may be rescinded if new information regarding adverse environmental impacts of the proposed project is made available to the Department. To be considered, comments must be submitted within 30 days of the date of this notice to Catherine Murray, State Revolving Fund Program, Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #3505, Tallahassee, Florida 32399-3000. Comments also may be offered by telephone at (850) 245-2916 or by e-mail at catherine.m.murray@dep.state.fl.us.

The documentation to support this decision will be available for public inspection at 305 East Kennedy Boulevard, Eatonville, Florida and at the DEP office located at 3900 Commonwealth Boulevard, Room 413B, Tallahassee, Florida.



Tim Banks, P.E. Administrator
Clean Water SRF Program

TB/cmm

APPENDIX F

Advertisement, Agenda and Minutes of Public Meeting
(To follow)

APPENDIX G

Capital Financing Plan
(To follow)

APPENDIX H

Wastewater Rates and Charges

Run: 3/27/20
1:34PM

TOWN of EATONVILLE Billing Rates

Abbrev	Name	Computation Method	Target Charge	Proration Method	Comp Order			
	Base	Extra	Surcharge	Maximum	Source Meter	Flat Amount		
C late	Commer. Late Charge	Late Due Amount	LATE CHARGE	None				122
		20.00						
	Low Limit To High Limit	Base	Extra	Flat	Per Unit			
	Up to	0.00	0.00	20.00				
RC-41	INITIAL CASTER FEE	Flat Amount	REFUSE CASTER FEE	None				124
	54.00	54.00						
ILF-43	INITIAL LOCK FEE	Flat Amount	INITIAL LOCK FEE	None				128
	48.75	48.75						
Late	LATE CHARGE	Late Due Amount	LATE CHARGE	WATER PARTIAL MONTH	115			
		5.00						
	Low Limit To High Limit	Base	Extra	Flat	Per Unit			
	Up to	0.00	0.00	5.00				
OTOF	OVERTIME TURN ON FEE	Flat Amount	OVERTIME TURN ON FEE	None				41
	50.00	50.00						
RCYCL	RECYCLE	Flat Amount	RECYCLE CAN	None				3
	140.00							
R-001	REFUSE 001	Flat Amount	REFUSE	REFUSE PARTIAL MONTH	85			
	21.00	21.00						
R-002	REFUSE 002	Flat Amount	REFUSE	None				86
	31.08	31.08						
R-003	REFUSE 003	Flat Amount	REFUSE	None				87
	16.53	16.53						
R-004	REFUSE 004	Flat Amount	REFUSE	None				88
	406.50	406.50						
R-005	REFUSE 005	Flat Amount	REFUSE	None				89
	62.37	62.37						
R-006	REFUSE 006	Flat Amount	REFUSE	None				90
	642.76	642.76						
R-007	REFUSE 007	Flat Amount	REFUSE	None				91
	118.10	118.10						
R-008	REFUSE 008	Flat Amount	REFUSE	None				92
	185.33	185.33						
R-009	REFUSE 009	Flat Amount	REFUSE	None				93
	120.04	120.04						
R-010	REFUSE 010	Flat Amount	REFUSE	None				94
	316.53	316.53						
R-011	REFUSE 011	Flat Amount	REFUSE	None				95
	253.79	253.79						
R-012	REFUSE 012	Flat Amount	REFUSE	None				96
	762.93	762.93						
R-013	REFUSE 013	Flat Amount	REFUSE	None				97
	306.86	306.86						
R-014	REFUSE 014	Flat Amount	REFUSE	None				98
	909.59	909.59						
R-015	REFUSE 015	Flat Amount	REFUSE	None				99
	508.88	508.88						
R-016	REFUSE 016	Flat Amount	REFUSE	None				100
	164.26	164.26						
R-017	REFUSE 017	Flat Amount	REFUSE	None				101
	314.02	314.02						
R-018	REFUSE 018	Flat Amount	REFUSE	None				102
	423.42	423.42						

Run: 3/27/20
1:34PM

TOWN of EATONVILLE Billing Rates

Abbrev	Name	Computation Method		Target Charge	Proration Method	Comp Order		
		Base	Extra				Surcharge	Maximum
R-019	REFUSE 019			Flat Amount	REFUSE	None	103	
		983.66	983.66					
R-020	REFUSE 020			Flat Amount	REFUSE	None	104	
		597.78	597.78					
R-021	REFUSE 021			Flat Amount	REFUSE	None	105	
		215.23	215.23					
R-023	REFUSE 023			Flat Amount	REFUSE	None	106	
		205.68	205.68					
R-024	REFUSE 024			Flat Amount	REFUSE	None	107	
		78.30	78.30					
R-025	REFUSE 025			Flat Amount	REFUSE	None	108	
		375.36	375.36					
R-026	REFUSE 026			Flat Amount	REFUSE	None	109	
		414.72	414.72					
R-027	REFUSE 027			Flat Amount	REFUSE	None	110	
		545.07	545.07					
R-028	REFUSE 028			Flat Amount	REFUSE	None	111	
		23.88	23.88					
R-029	REFUSE 029			Flat Amount	REFUSE	None	112	
		131.17	131.17					
R-030	REFUSE 030			Flat Amount	REFUSE	None	113	
		186.90	186.90					
R-031	REFUSE 031			Flat Amount	REFUSE	None	114	
		69.74	69.74					
R-032	REFUSE 032			Flat Amount	REFUSE	None	116	
		87.87	87.87					
R-033	REFUSE 033			Flat Amount	REFUSE	None	117	
		783.48	783.48					
R-034	REFUSE 034			Flat Amount	REFUSE	None	119	
		1,195.30	1,195.30					
R-035	REFUSE 035			Flat Amount	REFUSE	None	121	
		411.52	411.52					
CF-42	REFUSE CASTER (M)			Flat Amount	MONTHLY CASTER FEE	None	125	
		3.75	3.75					
RD-40	REFUSE DELIVERY FEE			Flat Amount	REFUSE DELIVERY FEE	None	123	
		85.00	85.00					
RGM 44	REFUSE GATE FEE (M)			Flat Amount	REFUSE MTHLY GATE	None	127	
		2.25	2.25					
RLM 43	REFUSE LOCK FEE (M)			Flat Amount	REFUSE MTHLY LOCK	None	126	
		2.25	2.25					
RUR	REFUSE UTILITY REF.			Flat Amount	REFUSE	None	2	
				-92.19				
RRR	REQUESTED REREAD			Flat Amount	REREAD REQUEST	None	43	
		35.00		35.00				
S-001	SEWER 001			Metered Usage	SEWER	SEWER PARTIAL MONTH	77	
					Water			
				Low Limit To High Limit	Base	Extra	Flat	Per Unit
				Up to 1000	14.33	14.33		
				1000 to 15000	12.15	12.15	3.28	0.002185
				15000 and Above	14.41	14.41	3.28	0.002185

Run: 3/27/20
1:34PM

TOWN of EATONVILLE Billing Rates

Abbrev	Name	Computation Method			Target Charge	Proration Method	Comp Order
	Base	Extra	Surcharge	Maximum	Source Meter	Flat Amount	
S-002	SEWER 002	Standard Charges			SEWER	None	78
	26.53	25.00		26.53			
	Low Limit To High Limit		Base	Extra	Flat	Per Unit	
	Up to	0.00	0.00	0.00	26.53		
		0.00 and Above	0.00	0.00	26.53		
S-004	SEWER 004	Metered Usage			SEWER	None	79
	Water						
	Low Limit To High Limit		Base	Extra	Flat	Per Unit	
	Up to	3000	33.16	33.16			
		3000 and Above	23.29	23.29		0.003289	
S-008	SEWER 008	Metered Usage			SEWER	None	80
	Water						
	Low Limit To High Limit		Base	Extra	Flat	Per Unit	
	Up to	10000	188.75	24.52			
		10000 and Above	155.86	24.52		0.003289	
S-051	SEWER 051	Metered Usage			SEWER	None	81
	Water						
	Low Limit To High Limit		Base	Extra	Flat	Per Unit	
	Up to	10000	25.70	25.70			
		10000 and Above	-7.19	-7.19		0.003289	
S-064	SEWER 064	Metered Usage			SEWER	None	82
	Water						
	Low Limit To High Limit		Base	Extra	Flat	Per Unit	
	Up to	10000	1,502.53	25.70			
		10000 and Above	1,469.64	25.70		0.003289	
S-080	SEWER 080	Metered Usage			SEWER	None	83
	Water						
	Low Limit To High Limit		Base	Extra	Flat	Per Unit	
	Up to	10000	1,877.05	25.70			
		10000 and Above	1,844.16	25.70		0.003289	
S-099	SEWER 099	Metered Usage			SEWER	None	84
	Water						
	Low Limit To High Limit		Base	Extra	Flat	Per Unit	
	Up to	3000	33.16	33.16			
		3000 and Above	23.29	23.29		0.003289	
SW15.2	STORMWATER ERU 15.2	Flat Amount			STORMWATER	None	21
	75.24						
S160.4	STORMWATER ERU 160.4	Flat Amount			STORMWATER	None	38
	793.98						
SW18.7	STORMWATER ERU 18.7	Flat Amount			STORMWATER	None	39
	92.57						
SW21.7	STORMWATER ERU 21.7	Flat Amount			STORMWATER	None	22
	107.42						
SW22.4	STORMWATER ERU 22.4	Flat Amount			STORMWATER	None	45
	110.88						
SW37.8	STORMWATER ERU 37.8	Flat Amount			STORMWATER	None	11
	187.11						
S478.6	STORMWATER ERU 478.6	Flat Amount			STORMWATER	None	40
	2,369.07						
SWE0.9	STORMWATER ERU 0.9	Flat Amount			STORMWATER	None	59
	4.46						

Run: 3/27/20
1:34PM

TOWN of EATONVILLE Billing Rates

Abbrev	Name	Computation Method	Target Charge	Proration Method	Comp Order
Base	Extra	Surcharge	Maximum	Source Meter	Flat Amount
SWE1.0	STORMWATER ERU1.0	Flat Amount	STORMWATER	None	50
4.95					
SWE1.2	STORMWATER ERU1.2	Flat Amount	STORMWATER	None	57
5.94					
SW1.4	STORMWATER ERU1.4	Flat Amount	STORMWATER	None	17
6.93					
SWE1.5	STORMWATER ERU1.5	Flat Amount	STORMWATER	None	64
7.43					
SWE1.7	STORMWATER ERU1.7	Flat Amount	STORMWATER	None	28
8.42					
SWE1.8	STORMWATER ERU1.8	Flat Amount	STORMWATER	None	62
8.91					
SW11.3	STORMWATER ERU11.3	Flat Amount	STORMWATER	None	25
55.94					
SW12.9	STORMWATER ERU12.9	Flat Amount	STORMWATER	None	30
63.86					
S122.4	STORMWATER ERU122.4	Flat Amount	STORMWATER	None	7
605.88					
SW13.9	STORMWATER ERU13.9	Flat Amount	STORMWATER	None	34
68.81					
SW14.9	STORMWATER ERU14.9	Flat Amount	STORMWATER	None	23
73.76					
S152.5	STORMWATER ERU152.5	Flat Amount	STORMWATER	None	8
754.88					
SWE16.	STORMWATER ERU16.0	Flat Amount	STORMWATER	None	63
79.20					
SW16.8	STORMWATER ERU16.8	Flat Amount	STORMWATER	None	36
83.16					
SE18.2	STORMWATER ERU18.2	Flat Amount	STORMWATER	None	66
90.09					
SW19.7	STORMWATER ERU19.7	Flat Amount	STORMWATER	None	37
97.52					
SWE2.0	STORMWATER ERU2.0	Flat Amount	STORMWATER	None	55
9.90					
SWE2.1	STORMWATER ERU2.1	Flat Amount	STORMWATER	None	54
10.40					
SWE2.2	STORMWATER ERU2.2	Flat Amount	STORMWATER	None	56
10.89					
SWE2.4	STORMWATER ERU2.4	Flat Amount	STORMWATER	None	60
11.88					
SWE2.5	STORMWATER ERU2.5	Flat Amount	STORMWATER	None	49
12.38					
SE22.1	STORMWATER ERU22.1	Flat Amount	STORMWATER	None	58
109.40					
SW24.9	STORMWATER ERU24.9	Flat Amount	STORMWATER	None	19
123.26					
SW26.9	STORMWATER ERU26.9	Flat Amount	STORMWATER	None	33
133.16					
SW29.8	STORMWATER ERU29.8	Flat Amount	STORMWATER	None	18
147.51					
SWE3.0	STORMWATER ERU3.0	Flat Amount	STORMWATER	None	65
14.85					

Run: 3/27/20
1:34PM

TOWN of EATONVILLE Billing Rates

Abbrev	Name	Computation Method	Target Charge	Proration Method	Comp Order		
	Base	Extra	Surcharge	Maximum	Source Meter	Flat Amount	
SWE3.7	STORMWATER ERU3.7	Flat Amount	18.32	STORMWATER	None		44
SW33.6	STORMWATER ERU33.6	Flat Amount	166.32	STORMWATER	None		46
SW33.8	STORMWATER ERU33.8	Flat Amount	167.31	STORMWATER	None		24
SW33.9	STORMWATER ERU33.9	Flat Amount	167.81	STORMWATER	None		29
SW35.9	STORMWATER ERU35.9	Flat Amount	177.71	STORMWATER	None		13
SW38.3	STORMWATER ERU38.3	Flat Amount	189.59	STORMWATER	None		32
SW38.8	STORMWATER ERU38.8	Flat Amount	192.06	STORMWATER	None		16
SWE4	STORMWATER ERU4	Flat Amount	19.80	STORMWATER	None		67
SW4.7	STORMWATER ERU4.7	Flat Amount	23.27	STORMWATER	None		15
SWE4.8	STORMWATER ERU4.8	Flat Amount	23.76	STORMWATER	None		52
SW43.3	STORMWATER ERU43.3	Flat Amount	214.34	STORMWATER	None		9
SW48.5	STORMWATER ERU48.5	Flat Amount	240.08	STORMWATER	None		31
SW49.7	STORMWATER ERU49.7	Flat Amount	246.02	STORMWATER	None		10
SWE5.0	STORMWATER ERU5.0	Flat Amount	24.75	STORMWATER	None		51
SW5.2	STORMWATER ERU5.2	Flat Amount	25.74	STORMWATER	None		20
SWE5.6	STORMWATER ERU5.6	Flat Amount	27.72	STORMWATER	None		53
SW65.3	STORMWATER ERU65.3	Flat Amount	323.24	STORMWATER	None		42
SW65.7	STORMWATER ERU65.7	Flat Amount	325.22	STORMWATER	None		26
SW74.4	STORMWATER ERU74.4	Flat Amount	368.28	STORMWATER	None		27
SW8.0	STORMWATER ERU8.0	Flat Amount	39.60	STORMWATER	None		14
SWE8.4	STORMWATER ERU8.4	Flat Amount	41.58	STORMWATER	None		35
SW82.0	STORMWATER ERU82.0	Flat Amount	405.90	STORMWATER	None		47
SWE9.4	STORMWATER ERU9.4	Flat Amount	46.53	STORMWATER	None		48
SW98.6	STORMWATER ERU98.6	Flat Amount	488.07	STORMWATER	None		6
STWRE	STORMWATER RESIDENT	Flat Amount	4.95	STORMWATER	STORMWATER PARTIAL		68
SW37.3	STORMWTR ERU37.3	Flat Amount	184.64	STORMWATER	None		12

Run: 3/27/20
1:34PM

TOWN of EATONVILLE Billing Rates

Abbrev	Name	Computation Method	Target Charge	Proration Method	Comp Order
Base	Extra	Surcharge	Maximum	Source Meter	Flat Amount
SWE5.3	STROMWTR ERU5.3	Flat Amount	STORMWATER	None	61
	26.24				
SWUR	SW UTILITY TX REFUND	Flat Amount	STORMWATER	None	1
	-8.50				
Tax-01	UTILITY TAX 01	Standard Charges	UTILITY TAX	None	118
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 3,000.00	0.00	0.00		10.000000
Tax-02	UTILITY TAX 02	Standard Charges	UTILITY TAX	None	120
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 3,000.00	0.00	0.00		10.000000
W-001	WATER 001	Metered Usage	WATER	WATER PARTIAL MONTH	69
	Water				
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 1000	6.20	0.00		
	1000 to 10000	4.50	-1.70	2.55	0.001699
	10000 and Above	-5.72	-11.92	2.76	0.002891
W-002	WATER 002	Metered Usage	WATER	None	70
	Water				
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 3000	9.54	9.54		
	3000 to 10000	3.36	3.36		0.002060
	10000 and Above	-7.24	-7.24		0.003120
W-003	WATER 003	Metered Usage	WATER	None	71
	Water				
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 3000	27.53	27.53		
	3000 and Above	21.83	21.83		0.001900
W-004	WATER 004	Metered Usage	WATER	None	72
	Water				
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 3000	14.63	14.63		
	3000 to 10000	8.93	8.93		0.001900
	10000 and Above	0.53	0.53		0.002740
W-008	WATER 008	Metered Usage	WATER	None	73
	Water				
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 3000	72.01	72.01		
	3000 and Above	66.31	66.31		0.001900
W-064	WATER 064	Metered Usage	WATER	None	74
	Water				
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 3000	576.22	576.22		
	3000 to 10000	570.94	570.94		0.001760
	10000 and Above	564.74	564.74		0.002380
W-080	WATER 080	Metered Usage	WATER	None	75
	Water				
	Low Limit To High Limit	Base	Extra	Flat	Per Unit
	Up to 3000	720.29	720.29		
	3000 to 10000	715.01	715.01		0.001760
	10000 and Above	708.81	708.81		0.002380

Run: 3/27/20
1:34PM

TOWN of EATONVILLE Billing Rates

Section III. Item #1.
Page: 1

Abbrev	Name	Computation Method	Target Charge			Proration Method	Comp Order
	Base	Extra	Surcharge	Maximum	Source Meter	Flat Amount	
W-098	WATER 098	Metered Usage			WATER	None	76
					Water		
	Low Limit To High Limit			Base	Extra	Flat	Per Unit
	Up to 3000			9.14	9.14		
	3000 to 10000			3.86	3.86		0.001760
	10000 and Above			-2.34	-2.34		0.002380
WTR1	WATER 1	Metered Usage			WATER	WATER PARTIAL MONTH	5
					Water		
	Low Limit To High Limit			Base	Extra	Flat	Per Unit
	Up to 0			6.20	0.00	6.20	
	0 to 10000			6.20	0.00	2.55	1.000000
	10000 and Above			6.20	0.00	2.75	1.000000
XPU 45	XTRA PICK UP	Flat Amount			REFUSE XTRA PICK UP	None	4

APPENDIX I

Resolution Authorizing Project
(To follow)

APPENDIX J

FDEP General Permits **(To follow)**

APPENDIX K

Surveyed Pipe Summary Table

CPH - EATONVILLE

18076

No.	Date Tvd	Street Name	USMH	DSMH	Segment	Direction	Cleaning	Pipe	Pipe	Pipe	Pipe	Total Length Tvd	TVd By
					Reference #	of Inspection	Type	Shape	Height	Width	Material		
1	02/28/19	118 DEACON JONES BLVD	MH-149	MH-118	MH-149 - MH-118	Upstream	N	C	8"	8"	VCP	132.9'	T. HUNTER
2	02/28/19	118 DEACON JONES BLVD	MH-118	MH-35	MH-118 - MH-35	Downstream	N	C	8"	8"	VCP	238.7'	T. HUNTER
3	02/28/19	118 DEACON JONES BLVD	MH-118R	MH-35R	MH-118 - MH-35	Upstream	N	C	8"	8"	VCP	15.4'	T. HUNTER
4	02/28/19	149 DEACON JONES BLVD	MH-149R	MH-118R	MH-149 - MH-118	Downstream	N	C	8"	8"	VCP	134.0'	T. HUNTER
5	02/28/19	151 WASHINGTON AVE	MH-151	MH-121	MH-151 - MH-121	Downstream	N	C	8"	8"	VCP	256.5'	T. HUNTER
6	02/28/19	121 WASHINGTON AVE	MH-121	MH-31	MH-121 - MH-31	Downstream	N	C	8"	8"	VCP	39.8'	T. HUNTER
7	02/28/19	121 WASHINGTON AVE	MH-121R	MH-31R	MH-121 - MH-31	Upstream	N	C	8"	8"	VCP	44.1'	T. HUNTER
8	02/28/19	31 WASHINGTON AVE	MH-31	MH-411	MH-31 - MH-411	Downstream	N	C	8"	8"	VCP	78.5'	T. HUNTER
9	02/28/19	31 WASHINGTON AVE	MH-31R	MH-411R	MH-31R - MH-411R	Upstream	N	C	8"	8"	VCP	0.0'	T. HUNTER
10	02/28/19	111 LINCOLN BLVD	MH-147	MH-111	MH-147 - MH-111	Upstream	N	C	8"	8"	VCP	317.5'	T. HUNTER
11	02/28/19	111 LINCOLN BLVD	MH-111	MH-35	MH-111 - MH-35	Downstream	N	C	8"	8"	VCP	15.3'	T. HUNTER
12	02/28/19	111 LINCOLN BLVD	MH-111R	MH-35R	MH-111 - MH-35	Downstream	N	C	8"	8"	VCP	192.5'	T. HUNTER
13	03/01/19	331 KENNEDY BLVD	MH-35	MH-331	MH-35 - MH-331	Upstream	N	C	8"	8"	VCP	366.8'	T. HUNTER
14	03/01/19	50 BETHUNE AVE	MH-113	MH-50	MH-113 - MH-50	Downstream	N	C	8"	8"	VCP	248.8'	T. HUNTER
15	03/01/19	228 TONI ST	MH-228	MH-26	MH-228 - MH-26	Downstream	M	C	8"	8"	VCP	346.0'	T. HUNTER
16	03/04/19	575 FITZGERALD DR	MH-501	MH-575	MH-501 - MH-575	Upstream	M	C	8"	8"	VCP	331.1'	T. HUNTER
17	03/04/19	575 FITZGERALD DR	MH-575	MH-540	MH-575 - MH-540	Downstream	M	C	8"	8"	VCP	148.0'	T. HUNTER
18	03/04/19	519 WIGMAN DR	MH-507	MH-519	MH-507 - MH-519	Upstream	L	C	8"	8"	VCP	207.1'	T. HUNTER
19	03/05/19	614 PEARLAN CT	MH-613	MH-614	MH-613 - MH-614	Upstream	H	C	8"	8"	VCP	280.0'	T. HUNTER
20	03/05/19	519 WIGMAN DR	MH-519	MH-613	MH-519 - MH-613	Downstream	L	C	8"	8"	VCP	66.8'	T. HUNTER
21	03/05/19	614 PEARLAN CT	MH-614	LS-2	MH-614 - LS-2	Downstream	M	C	8"	8"	VCP	11.0'	T. HUNTER
22	03/05/19	575 MONROE AVE	MH-575	MH-551	MH-575 - MH-551	Downstream	M	C	8"	8"	VCP	236.5'	T. HUNTER
23	03/05/19	JONOTEY DR / BERTHANN LN	MH-551	MH-535	MH-551 - MH-535	Upstream	H	C	8"	8"	VCP	234.0'	T. HUNTER
24	03/05/19	JONOTEY DR / BERTHANN LN	MH-547	MH-535	MH-547 - MH-535	Upstream	M	C	8"	8"	PVC	200.0'	T. HUNTER
25	03/05/19	JONOTEY DR / BERTHANN LN	MH-535	MH-575	MH-535 - MH-575	Downstream	H	C	8"	8"	VCP	232.0'	T. HUNTER
26	03/06/19	MOSELEY AVE / LIME ST	MH-113	MH-330	MH-113 - MH-330	Upstream	L	C	8"	8"	VCP	190.0'	T. HUNTER
27	03/06/19	MOSELEY AVE / LIME ST	MH-314	MH-330	MH-314 - MH-330	Upstream	L	C	8"	8"	VCP	216.6'	T. HUNTER
28	03/06/19	MOSELEY AVE / LIME ST	MH-347	MH-330	MH-347 - MH-330	Upstream	L	C	8"	8"	VCP	144.5'	T. HUNTER
29	03/06/19	MOSELEY AVE / LIME ST	MH-330	MH-225	MH-330 - MH-225	Downstream	M	C	8"	8"	VCP	382.0'	T. HUNTER
30	03/06/19	S COLLEGE AVE / LIME ST	MH-157	MH-327	MH-157 - MH-327	Upstream	L	C	8"	8"	VCP	286.0'	T. HUNTER
31	03/06/19	S COLLEGE AVE / LIME ST	MH-327	MH-101	MH-327 - MH-101	Downstream	L	C	8"	8"	VCP	317.5'	T. HUNTER
32	03/06/19	S COLLEGE AVE / ORANGE ST	MH-101	MH-21	MH-101 - MH-21	Downstream	M	C	8"	8"	VCP	252.5'	T. HUNTER
33	03/07/19	ORANGE ST / MOSELEY DR	MH-101A	MH-101B	MH-101A - MH-101B	Upstream	M	C	8"	8"	VCP	260.0'	T. HUNTER
34	03/07/19	ORANGE ST / MOSELEY AVE	MH-101B	MH-106	MH-101B - MH-106	Downstream	L	C	8"	8"	VCP	59.6'	T. HUNTER
35	03/07/19	ORANGE ST / MOSELEY AVE	MH-101BR	MH-106R	MH-101B - MH-106	Upstream	L	C	8"	8"	VCP	179.5'	T. HUNTER
36	03/07/19	MOSELEY AVE / RUFFLE ST	STUB WEST	MH-225	STUB WEST - MH-225	Upstream	L	C	8"	8"	VCP	152.1'	T. HUNTER
37	03/07/19	RUFFLE ST / MOSELEY AVE	MH-225	MH-220	MH-225 - MH-220	Downstream	M	C	8"	8"	VCP	67.6'	T. HUNTER
38	03/07/19	RUFFLE ST / MOSELEY AVE	MH-225R	MH-220R	MH-225 - MH-220	Upstream	M	C	8"	8"	VCP	201.0'	T. HUNTER
39	03/07/19	RUFFLE ST / CALHOUN ST	MH-220	MH-29	MH-220 - MH-29	Downstream	M	C	8"	8"	VCP	231.2'	T. HUNTER
40	03/07/19	120 CALHOUN AVE	MH-120	MH-106	MH-120 - MH-106	Downstream	L	C	8"	8"	VCP	217.5'	T. HUNTER
41	03/07/19	S CALHOUN AVE / ORANGE ST	MH-106	MH-19	MH-106 - MH-19	Downstream	L	C	8"	8"	VCP	240.6'	T. HUNTER
42	03/08/19	4 MOSELEY AVE	MH-4	MH-324	MH-4 - MH-324	Downstream	L	C	8"	8"	VCP	203.8'	T. HUNTER
43	03/08/19	324 LEMON ST	MH-21	MH-324	MH-21 - MH-324	Upstream	M	C	8"	8"	VCP	304.0'	T. HUNTER
44	03/08/19	324 LEMON ST	MH-324	MH-19	MH-324 - MH-19	Downstream	H	C	8"	8"	VCP	309.5'	T. HUNTER
45	03/08/19	19 S CALHOUN AVE	MH-412	MH-19	MH-412 - MH-19	Upstream	M	C	8"	8"	VCP	113.9'	T. HUNTER
46	03/08/19	S CALHOUN AVE / LEMON ST	MH-19	MH-405	MH-19 - MH-405	Downstream	M	C	8"	8"	VCP	277.3'	T. HUNTER
47	03/08/19	S CALHOUN AVE / LIME ST	MH-374	MH-220	MH-374 - MH-220	Downstream	L	C	8"	8"	VCP	363.0'	T. HUNTER
48	03/11/19	405 LEMON ST	MH-405	MH-140	MH-405 - MH-140	Downstream	L	C	8"	8"	VCP	306.8'	T. HUNTER
49	03/11/19	108 ELIZABETH ST	MH-108	MH-405	MH-108 - MH-405	Downstream	L	C	8"	8"	VCP	304.5'	T. HUNTER
50	03/11/19	LIME ST / 362 ELIZABETH ST	MH-148	MH-362	MH-148 - MH-362	Upstream	L	C	8"	8"	VCP	7.0'	T. HUNTER
51	03/11/19	386 LIME ST / ELIZABETH ST	MH-386	MH-362	MH-386 - MH-362	Upstream	L	C	8"	8"	VCP	96.0'	T. HUNTER
52	03/11/19	LIME ST / 362 ELIZABETH ST	MH-148R	MH-362R	MH-148 - MH-362	Downstream	L	C	8"	8"	VCP	164.4'	T. HUNTER
53	03/11/19	LIME ST / ELIZABETH AVE	MH-362	MH-137	MH-362 - MH-137	Downstream	H	C	8"	8"	VCP	112.9'	T. HUNTER
54	03/12/19	524 PEOPLE ST / LIME ST	MH-540	MH-524	MH-540 - MH-524	Downstream	L	C	8"	8"	VCP	299.5'	T. HUNTER
55	03/12/19	25 TAYLOR AVE	MH-124	MH-25	MH-124 - MH-25	Upstream	L	C	8"	8"	VCP	293.1'	T. HUNTER
56	03/12/19	PEOPLE AVE / LEMON ST	MH-531	MH-200	MH-531 - MH-200	Upstream	L	C	8"	8"	VCP	401.5'	T. HUNTER
57	03/12/19	25 TAYLOR AVE	MH-25	MH-200	MH-25 - MH-200	Downstream	L	C	8"	8"	VCP	229.0'	T. HUNTER
58	03/12/19	LEMON ST	MH-200	MH-515	MH-200 TO MH-515	Downstream	L	C	8"	8"	VCP	220.7'	T. HUNTER
59	03/12/19	RUFFEL ST	MH-558	MH-530	MH-558 TO MH-530	Upstream	L	C	8"	8"	VCP	164.3'	T. HUNTER
60	03/12/19	TAYLOR AVE	MH-532	MH-530	MH-532 TO MH-530	Upstream	L	C	8"	8"	VCP	364.8'	T. HUNTER
61	03/12/19	RUFFEL ST	MH-530	MH-524	MH-530 TO MH-524	Downstream	L	C	8"	8"	VCP	208.0'	T. HUNTER
62	03/12/19	RUFFEL ST	MH-524	MH-40	MH-524 TO MH-40	Downstream	L	C	8"	8"	VCP	235.1'	T. HUNTER
63	03/19/19	N WEST ST	MH-40	MH-137	MH-40 X	Downstream	M	C	8"	8"	VCP	382.0'	J. TOLENTINO
64	03/19/19	N WEST ST	MH-515	MH-137	MH-137 X	Downstream	M	C	8"	8"	VCP	400.3'	J. TOLENTINO
65	03/19/19	N WEST ST	MH-515	MH-140	MH-515 X	Upstream	M	C	8"	8"	VCP	34.1'	J. TOLENTINO
66	03/19/19	N WEST ST	MH-515R	MH-137R	MH-137 X	Upstream	M	C	8"	8"	VCP	23.1'	J. TOLENTINO
67	03/20/19	N WEST ST	MH-140	MH-427	MH-140 X	Downstream	M	C	8"	8"	VCP	339.5'	J. TOLENTINO
68	03/20/19	S WEST ST	MH-427	MH-498	MH-427 X	Downstream	M	C	8"	8"	VCP	374.7'	J. TOLENTINO
69	03/20/19	N COLLEGE AVE	MH-104	MH-239	MH-104 X	Downstream	M	C	8"	8"	VCP	178.0'	J. TOLENTINO
70	03/20/19	N. COLLEGE AVE	MH-239	MH-316B	MH-239 X	Downstream	M	C	8"	8"	VCP	290.5'	J. TOLENTINO
71	03/20/19	CLARK ST	MH-316B	MH-339	MH-316B	Downstream	H	C	8"	8"	VCP	352.6'	J. TOLENTINO
72	03/21/19	CLARK ST	MH-134	MH-152	MH-134 X	Downstream	H	C	8"	8"	VCP	341.6'	J. TOLENTINO
73	03/25/19	GABRIEL ST	MH-151	MH-134	MH-151 X	Upstream	M	C	8"	8"	VCP	222.2'	J. TOLENTINO
74	03/25/19	JOHNSON ST	MH-152	MH-230	MH-152 X	Downstream	L	C	8"	8"	VCP	243.8'	J. TOLENTINO
75	03/25/19	N COLLEGE AVE	MH-227	MH-239	MH-227 X	Upstream	M	C	8"	8"	VCP	402.3'	J. TOLENTINO
76	03/25/19	GABRIEL ST	MH-63	MH-134	MH-63 X	Upstream	H	C	8"	8"	VCP	399.7'	J. TOLENTINO
77	03/26/19	JOHNSON ST	MH-152	MH-111	MH-111 X	Upstream	M	C	8"	8"	VCP	376.3'	J. TOLENTINO
78	03/26/19	JOHNSON ST	MH-152	MH-239	MH-152 X	Downstream	M	C	8"	8"	VCP	334.5'	J. TOLENTINO
79	03/26/19	CLARK ST	MH-339	MH-37	MH-339 X	Downstream	L	C	8"	8"	VCP	209.9'	J. TOLENTINO
80	03/26/19	CALHOUN AVE	MH-403	MH-37	MH-403 X	Upstream	L	C	8"	8"	VCP	298.3'	J. TOLENTINO
81	03/27/19	EAST ST +CLARK ST	MH-549	MH-210	MH-549-MH-210	Upstream	H	C	8"	8"	VCP	195.0'	R. MILLER
82	03/27/19	210 N EAST STREET	MH-210	MH-290	MH-210-MH-290	Downstream	H	C	8"	8"	VCP	84.3'	R. MILLER
83	03/28/19	CLARK ST	MH-37	MH-427	MH-37 TO MH-427	Downstream	L	C	8"	8"	VCP	280.1'	J. TOLENTINO
84	03/28/19	CLARK ST	MH-427	MH-498	MH-427 TO MH-498	Downstream	L	C	8"	8"	VCP	211.1'	J. TOLENTINO
85	03/28/19	CLARK ST	MH-557	MH-533	MH-557 TO MH-533	Downstream	L	C	8"	8"	VCP	242.6'	J. TOLENTINO

Section III. Item #1.

86	03/28/19	CLARK ST	MH-533	MH-533A	MH-533 TO MH-533A	Upstream	L	C	8"	8"	VCP	137.6'	J. TOLENTINO
87	03/28/19	CLARK ST	MH-427	MH-427A	MH-427 TO MH-427A	Upstream	L	C	8"	8"	VCP	159.5'	J. TOLENTINO
88	03/28/19	CLARK ST	MH-533	MH-498	MH-533 TO MH-498	Downstream	L	C	8"	8"	VCP	297.1'	J. TOLENTINO
89	03/28/19	EATON ST	MH-290	MH-534	MH-290 TO MH-534	Downstream	L	C	8"	8"	PVC	434.3'	J. TOLENTINO
90	04/08/19	EAST ST	MH-550	MH-558	MH-558 X	Downstream	L	C	8"	8"	VCP	148.8'	J. TOLENTINO
91	04/08/19	EAST ST	MH-550R	MH-558R	MH-558 X	Upstream	L	C	8"	8"	VCP	73.7'	J. TOLENTINO
92	04/08/19	EAST ST	MH-550	MH-11	MH-550 X	Downstream	L	C	8"	8"	VCP	222.0'	J. TOLENTINO
93	04/08/19	WEST ST	MH-427A	MH-427	MH-427A X	Upstream	L	C	8"	8"	VCP	227.2'	J. TOLENTINO
94	04/08/19	CALHOUN AVE	MH-403	MH-370	MH-403 X	Upstream	M	C	8"	8"	VCP	140.6'	J. TOLENTINO
95	04/08/19	PEOPLE ST	MH-11	MH-427	MH-11 X	Downstream	L	C	8"	8"	VCP	232.3'	J. TOLENTINO
96	04/09/19	N COLLEGE AVE	MH-332	MH-227	MH-332 X	Upstream	L	C	8"	8"	VCP	446.6'	J. TOLENTINO
97	04/09/19	CALHOUN AVE	MH-403R	MH-370R	MH-403R-X	Downstream	L	C	8"	8"	VCP	134.2'	J. TOLENTINO
98	04/09/19	N COLLEGE AVE	MH-220	MH-227	MH-220-X	Upstream	L	C	8"	8"	VCP	50.8'	J. TOLENTINO
99	04/09/19	N COLLEGE AVE	MH-220R	MH-227R	MH-220R-X	Downstream	L	C	8"	8"	VCP	4.7'	J. TOLENTINO
100	04/09/19	N COLLEGE AVE	MH-200	MH-21	MH-200-X	Downstream	L	C	8"	8"	VCP	242.3'	J. TOLENTINO
101	04/10/19	RUFFEL ST	MH-29	MH-500	MH-29-X	Upstream	L	C	8"	8"	VCP	373.9'	J. TOLENTINO
102	04/10/19	WEST ST	MH-500	MH-40	MH-500-X	Downstream	L	C	8"	8"	VCP	98.0'	J. TOLENTINO
103	04/10/19	KENNEDY BLVD	MH-411	MH-331	MH-411-X	Downstream	H	C	8"	8"	VCP	261.7'	J. TOLENTINO
104	04/11/19	KENNEDY BLVD	MH-411	MH-437	MH-411-X	Upstream	H	C	8"	8"	VCP	252.4'	J. TOLENTINO
105	04/11/19	KENNEDY BLVD	MH-331	MH-307	MH-331-X	Downstream	L	C	8"	8"	VCP	131.3'	J. TOLENTINO
106	04/11/19	EAST ST	MH-210R	MH-290R	MH-210R-X	Upstream	L	C	8"	8"	PVC	145.8'	J. TOLENTINO
107	04/11/19	EATON ST	MH-534	MH-521	MH-534-X	Downstream	L	C	8"	8"	PVC	213.6'	J. TOLENTINO
108	04/12/19	EATON ST	MH-212	MH-141	MH-212 X	Upstream	L	C	8"	8"	PVC	412.9'	J. TOLENTINO
109	04/12/19	EATON ST	MH-141	MH-130	MH-141 X	Downstream	L	C	8"	8"	PVC	240.5'	J. TOLENTINO
110	04/12/19	EATON ST	MH-130	MH-302	MH-130 X	Upstream	L	C	8"	8"	PVC	60.5'	J. TOLENTINO
111	04/12/19	EATON ST	MH-302	MH-248	MH-302 X	Downstream	L	C	8"	8"	PVC	125.3'	J. TOLENTINO
112	04/12/19	EATON ST	MH-248	MH-345	MH-248 X	Downstream	L	C	8"	8"	PVC	416.0'	J. TOLENTINO
113	04/15/19	EATON ST	MH-345A	MH-345	MH-345A X	Upstream	L	C	8"	8"	PVC	242.0'	J. TOLENTINO
114	04/15/19	EATON ST	MH-215	MH-215A	MH-215 X	Upstream	L	C	8"	8"	PVC	156.7'	J. TOLENTINO
115	04/15/19	EATON ST	MH-215	MH-438	MH-215 X	Downstream	L	C	8"	8"	PVC	359.6'	J. TOLENTINO
116	04/15/19	EATON ST	MH-521	MH-438	MH-521 X	Downstream	L	C	8"	8"	PVC	108.2'	J. TOLENTINO
116	04/15/19	EATON ST	MH-521	MH-521A	MH-521 X	Downstream	L	C	8"	8"	PVC	10.0'	J. TOLENTINO
117	04/15/19	EATON ST	MH-521A	LS-2	MH-521A X	Downstream	L	C	15"	15"	VCP	10.0'	J. TOLENTINO
118	04/15/19	EATON ST	MH-345	MH-215	MH-345 X	Downstream	L	C	8"	8"	PVC	298.0'	J. TOLENTINO
119	04/18/19	BETHUNE DR / W KENNEDY BLVD.	MH-307A	MH-307	MH-307A - MH-307	Upstream	L	C	15"	15"	VCP	14.3'	T. HUNTER
120	07/17/19	301 BETHUNE DRIVE	MHLL-26	MHLL-50	MHLL-26-MHLL-50	Downstream	L	C	8"	8"	VCP	264.7'	R. MILLER
121	11/19/19	N WEST ST	MH-137	MH-515	MH-137-MH-515	Downstream	L	C	8"	8"	VCP	299.2'	G. CARTAGENA
122	11/19/19	N WEST ST	MH-498	MH-521A	MH-498-MH-521A	Downstream	L	C	8"	8"	VCP	295.0'	G. CARTAGENA
123	11/19/19	KENNEDY BLVD	MH-327	MH-200	MH-327-MH-200	Upstream	H	C	8"	8"	VCP	204.9'	G. CARTAGENA
												TOTAL: 26391.3'	

710 South Milwee Street
 Longwood, FL 32750
 Phone: 407-339-7134
 Fax: 407-339-6618



PACP Sewer Report

Surveyed by: **HUNTER_T** Certificate No: **U-4180703001297** Owner: **CPH ENGINEERS** Sheet number:
 Work order: **18076** Pipeline segment ref: **MH-149 - MH-118** Start date/time: **2019/02/28 08:48** Street: **118 DEACON JONES BLVD** City: **EATONVILLE**
 Location details: Upstream manhole No: **MH-149** Rim to invert: **4.1** Grade to invert: Rim to grade:

Downstream manhole No: **MH-118** Rim to invert: **4.8** Rim to grade: **4.1** Sewer use: **U** Direction: **U** Flow control: **8** Height:
 Width: **8** Shape: **C** Material: **ZZZ** Ln. method: **ZZZ** Pipe joint length: **4.8** Total length: **267.0** Length surveyed: **132.9** Year laid: Year renewed: Media label:
 Purpose: **F** Sewer category: **J** Pre-cleaning: **J** Date cleaned: **1** Weather: **1** Location code: **C** Additional info:

Starting access point: Easting: Northing: Elevation: Coordinate system: GPS accuracy:

Grade	Structural Defects		Structural Rating		Pipe Structural Quick Rating		Structural Pipe Rating Index		O&M Defects		O&M Segment Grade		O&M Pipe Rating		O&M Quick Rating		O&M Pipe Rating Index		Overall Pipe Rating		Overall Pipe Rating Index	
	Amount	Defects	Rating	Index	Rating	Index	Amount	Defects	Grade	Grade	Rating	Index	Rating	Index	Rating	Index	Rating	Index	Rating	Index	Rating	Index
1	1	1					5	5	5	5												
2	0	0					0	0	0	0												
3	1	3	4	3111	2	2	2	6	6	11	11	3215	3215	1.571429	1.571429	15	15	1.666667	1.666667			
4	0	0					0	0	0	0												
5	0	0					0	0	0	0												

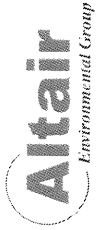
710 South Milwee Street
 Longwood, FL 32750
 Phone: 407-339-7134
 Fax: 407-339-6618



Surveyed by: **HUNTER_T** Owner: Start date/time: **2019/02/28** Upstream manhole No: **MH-149** Pipeline segment ref: **MH-149 - MH-118** Sheet number:

Distance (Feet) (Meters)	Video Ref.	Group/ Descriptor	Modifier/ Severity	Continuous Defect	S/M/L	Value Inches (mm)		Joint %	Circumferential Location At/From to	Image Ref.	Family	Rating	Remarks
						1st	2nd						
0.0	33	AMH											MH-118
0.0	104	MWL					5						
0.0	144	CC							12		S	1	
4.0	226	RFJ						J	6	10	O&M	1	
15.5	340	TBA				4			9				PVC
20.9	387	TFA				4			2				VCP
23.0	419	TFA				4			10				VCP. W/ LIGHT SOIL
27.8	462	RFJ						J	3	4	O&M	1	
32.6	500	RMJ					10	J	8	5	O&M	3	
37.9	541	RMJ					15	J	8	5	O&M	3	
42.9	575	RFJ						J	9	11	O&M	1	
53.3		RFJ						J	12	12	O&M	1	
58.8		RFJ						J	12	12	O&M	1	
62.9	665	CM						J	2	8	S	3	
69.9	706	TFA				4			3				VCP
76.7	748	TFA				4			10				VCP
119.1	18	TFA				4			2				VCP. HEAVY SOIL
121.1	58	TFA				4			10				VCP
132.9	168	TBA				4			2				PVC

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Surveyed by: **HUNTER_T** Owner: Start date/time: **2019/02/28** Upstream manhole No: **MH-149** Pipeline segment ref: **MH-149 - MH-118** Sheet number:

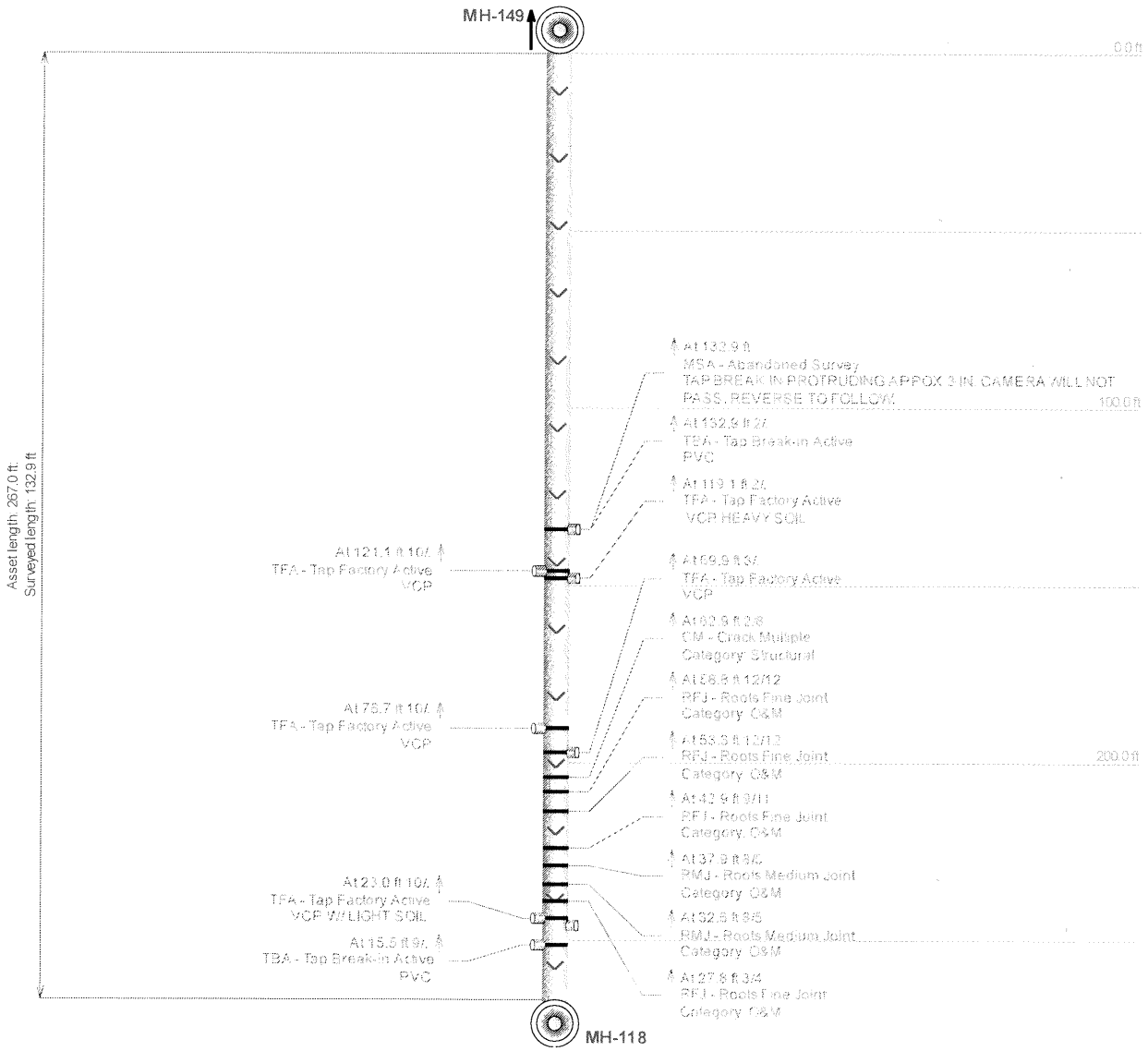
Distance (Feet) (Meters)	Video Ref.	Group/ Descriptor	Modifier/ Severity	Continuous Defect	S/M/L	Value		Joint %	Circumferential Location At/From to	Image Ref.	Family	Rating	Remarks
						1st Inches (mm)	2nd						
132.9	362	MSA											TAP BREAK IN PROTRUDING APPOX 3 IN. CAMERA WILL NOT PASS. REVERSE TO FOLLOW.

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Main Inspection with Pipe-Run Graph

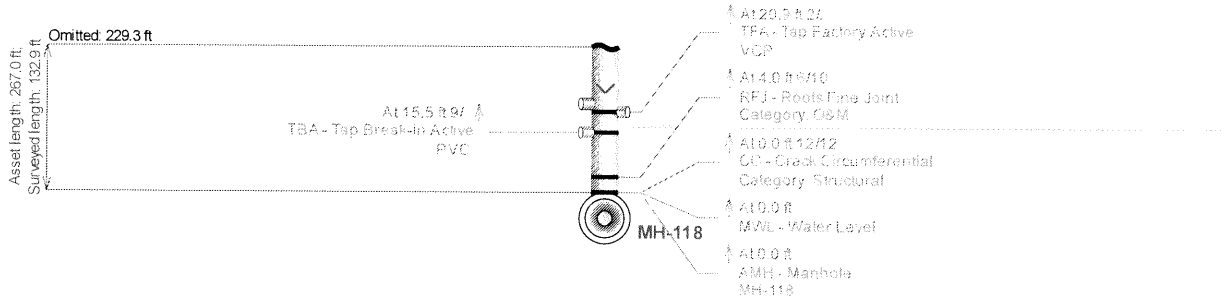
Project Name: CPH-EATONVILLE		Pipeline segment ref: MH-149 - MH-118		City: EATONVILLE		Street: 118 DEACON JONES BLVD	
Start date/time: 2/28/2019		Width: 8	Height: 8	Material: ZZZ	Location code: C		Weather: 1
Direction: UPSTREAM		Length surveyed: 132.9		Surveyed by: HUNTER_T		Additional info:	



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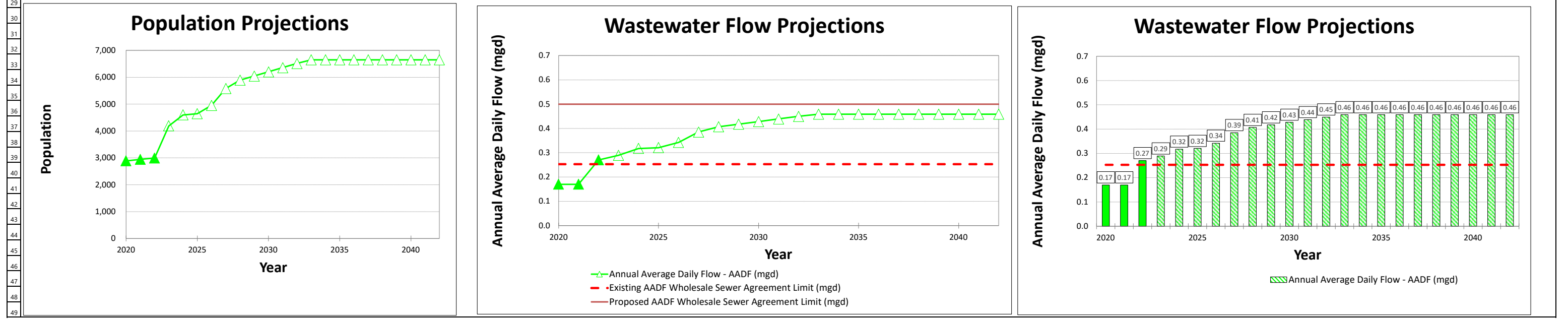


Project Name: CPH-EATONVILLE	Pipeline segment ref: MH-149 - MH-118	City: EATONVILLE	Street: 118 DEACON JONES BLVD
Start date/time: 2/28/2019	Width: 8	Height: 8	Material: ZZZ
Location code: C	Weather: 1		
Direction: UPSTREAM	Length surveyed: 132.9	Surveyed by: HUNTER_T	Additional info:



APPENDIX C: Growth Projections

PARAMETER	Year																							COMMENTS
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	
Wastewater Use																								
Total # of Active Service Water Connections	742	756	768	1,076	1,181	1,193	1,273	1,434	1,514	1,554	1,594	1,634	1,674	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	1,709	
Service Connections per Year	0	14	12	308	105	12	80	161	80	40	40	40	40	35	0	0	0	0	0	0	0	0	0	
Future Cumulative Dwelling Units			12	320	425	437	517	678	758	798	838	878	918	953	953	953	953	953	953	953	953	953	953	Plans for New Developments
Persons per Household (pphh) - Connection	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	2020 US Census = 3.89 persons per household
Per Capita Usage (gpdc)	59	58	90	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	
Flow per Connection	229	225	352	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	269	Town of Eatonville LOS 300 gpd per ERU
Population Served (3.89 pphh)	2,886	2,941	2,988	4,186	4,594	4,641	4,952	5,578	5,889	6,045	6,201	6,356	6,512	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	6,648	
Annual Average Daily Flow - AADF (mgd)	0.17	0.17	0.27	0.29	0.32	0.32	0.34	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	Based on meter at Master Lift Station (2022 skewed due to Hurricane Ian)
Max Day Flow - MDF (mgd)	0.34	0.34	0.54	0.58	0.63	0.64	0.68	0.77	0.81	0.83	0.86	0.88	0.90	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	MDF/ADF Peaking Factor = 2
Peak Hour Flow - PHF (gpm)	0.68	0.68	1.08	1.16	1.27	1.28	1.37	1.54	1.63	1.67	1.71	1.76	1.80	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	PHF/ADF Peaking Factor = 4
Existing Service Agreement to Altamonte																								
Existing AADF Wholesale Sewer Agreement Limit (mgd)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	Existing Wholesale Agreement = 252,893 mgd AADF
AAAF (mgd)	0.17	0.17	0.27	0.29	0.32	0.32	0.34	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	
AAAF Agreement Surplus/Deficit (mgd)	0.08	0.08	(0.02)	(0.04)	(0.06)	(0.07)	(0.09)	(0.13)	(0.15)	(0.16)	(0.18)	(0.19)	(0.20)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	(0.21)	
Percent Agreement Allocation (%)	67%	67%	107%	114%	125%	127%	135%	152%	161%	165%	169%	173%	178%	181%	181%	181%	181%	181%	181%	181%	181%	181%	181%	
Proposed Service Agreement to Altamonte																								
Proposed AADF Wholesale Sewer Agreement Limit (mgd)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	Proposed Wholesale Agreement = 500,000 mgd AADF
AAAF (mgd)	0.17	0.17	0.27	0.29	0.32	0.32	0.34	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	
AAAF Agreement Surplus/Deficit (mgd)	0.33	0.33	0.23	0.21	0.18	0.18	0.16	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
Percent Agreement Allocation (%)	34%	34%	54%	58%	63%	64%	68%	77%	81%	83%	86%	88%	90%	92%	92%	92%	92%	92%	92%	92%	92%	92%	92%	
Rated Capacity of Master Lift Station																								
Design Capacity (gpm)	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	Per Park Master Lift Station Plans
MDF (gpm)	236	236	375	401	440	445	475	535	565	580	594	609	624	637	637	637	637	637	637	637	637	637	637	
Design Surplus/Deficit (mgd)	504	504	365	339	300	295	265	205	175	160	146	131	116	103	103	103	103	103	103	103	103	103	103	
Percent Design Capacity (%)	32%	32%	51%	54%	60%	60%	64%	72%	76%	78%	80%	82%	84%	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%	Begin Planning at 75% Capacity



APPENDIX D: Lift Station Run Times

Lift Station Run Times (hrs per day)								
PARAMETER	Park Place Master Station		Campus View		Eaton		Vereen	
Date	Pump 1	Pump 2	Pump 1	Pump 2	Pump 1	Pump 2	Pump 1	Pump 2
10-Aug-23	1.73	1.53	0.70	0.86	2.80	2.58	1.58	1.67
17-Aug-23	1.64	1.45	0.71	0.76	2.63	2.42	1.34	1.41
24-Aug-23	1.57	1.38	0.61	0.70	2.24	2.21	1.31	1.40
1-Sep-23	1.65	1.47	0.71	0.86	2.33	2.45	1.46	1.53
8-Sep-23	1.56	1.37	0.70	0.87	2.74	2.15	1.47	1.51
15-Sep-23	1.84	1.65	0.36	0.83	3.03	2.81	1.91	1.99
21-Sep-23	2.00	1.79	0.68	0.88	3.03	2.88	1.86	1.91
29-Sep-23	2.50	2.31	0.74	1.10	3.58	3.77	2.54	2.59
5-Oct-23	2.48	2.33	0.00	0.70	4.30	4.32	2.99	3.10
12-Oct-23	2.44	2.25	0.43	0.80	4.63	4.11	2.79	2.91
19-Oct-23	2.26	2.02	1.14	1.29	4.10	3.65	2.63	2.70

Lift Station Flow (gal/day)								
PARAMETER	Park Place Master Station		Campus View		Eaton		Vereen	
Date	Pump 1	Pump 2	Pump 1	Pump 2	Pump 1	Pump 2	Pump 1	Pump 2
10-Aug-23	76,812	67,932	6,300	7,740	25,200	23,220	2,370	2,505
17-Aug-23	72,816	64,380	6,390	6,840	23,670	21,780	2,010	2,115
24-Aug-23	69,708	61,272	5,490	6,300	20,160	19,890	1,965	2,100
1-Sep-23	73,260	65,268	6,390	7,740	20,970	22,050	2,190	2,295
8-Sep-23	69,264	60,828	6,300	7,830	24,660	19,350	2,205	2,265
15-Sep-23	81,696	73,260	3,240	7,470	27,270	25,290	2,865	2,985
21-Sep-23	88,800	79,476	6,120	7,920	27,270	25,920	2,790	2,865
29-Sep-23	111,000	102,564	6,660	9,900	32,220	33,930	3,810	3,885
5-Oct-23	110,112	103,452	0	6,300	38,700	38,880	4,485	4,650
12-Oct-23	108,336	99,900	3,870	7,200	41,670	36,990	4,185	4,365
19-Oct-23	100,344	89,688	10,260	11,610	36,900	32,850	3,945	4,050

APPENDIX E: Town of Eatonville Budget FY 2022/23

TOWN OF EATONVILLE CAPITAL PROJECT BUDGET FISCAL YEAR 2022 - 2023 APPROVED CAPITAL BUDGET		
DEPARTMENT ACCOUNT NAME	ACCOUNT NUMBER	FY 22 - 23 APPROVED BUDGET
<i>REVENUES</i>	<i>FUND - 300</i>	
CLEAN WATER - SRF	300-337.9000	665,000
AARP	300-331.0100	500,000
FDOT - ARTS ENDOWMENT	300-331.0200	180,000
TOTAL GRANTS		1,345,000
TOTAL OPERATING REVENUE		1,345,000
VEREEN LIFT STATION/QUAD REHAB.		
OPERATING EXPENSES		
Professional Services	300-0536-536.3100	
Contractual Services	300-0536-536.3400	65,000
CAPITAL OUTLAYS		
Construction in Progress	300-0536-536.6500	600,000
TOTAL CAPITAL OUTLAY		665,000
TOTAL CLEAN WATER SRF EXPEND		665,000

FDOT - ARTS		
OPERATING EXPENSES		
Professional Services	300-0541.541.3100	
Contractual Services	300-0541-541.3400	50,000
TOTAL OPERATING EXPENSES		50,000
CAPITAL OUTLAYS		
ARTS	300-0541-541.6500	130,000
TOTAL CAPITAL OUTLAY		130,000
TOTAL FDOT GRANT EXPENDITURES		180,000
AARP		
OPERATING EXPENSES		
Administrative Costs	300-0533-533.3411	
Contractual Services	300-0533-533.3400	0
TOTAL OPERATING EXPENSES		0
CAPITAL OUTLAYS		
Infrastructure	300-0533-533.6500	500,000
TOTAL CAPITAL OUTLAY		500,000
TOTAL AARP GRANT EXPEND.		500,000
TOTAL CAPITAL PROJECT EXPEND.		1,345,000

	A	B	F	G	I
1					
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED ENTERPRISE FUND BUDGET				
5	WATER & SEWER FUND				
6					
7	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10					
11					
12					
13	WATER & SEWER REVENUE	FUND-400			
14					
15	Beginning Enterprise Fund Balance				
16			\$100,000.00	\$100,000.00	\$100,000.00
17	CHARGES FOR SERVICES				
18	Water	400-343.3000	300,000	300,000	300,000
19	Sewer	400-343.5000	400,000	400,000	400,000
20	Cut on/off Fees	400-343.6310	8,946	8,946	8,946
21	Connection Fees	400-343.6510	23,100	50,000	300,000
22	Late Penalty	400-343.6900	20,000	20,000	20,000
23	Return Check Fees/SERVICE CHARGE FE	400-343.6910	1,000	1,000	1,000
24	Miscellaneous-Other	400-343.6930	7,000	7,000	7,000
25	Interest Income	400-361.1000	565	565	565
26		400-343.9000			
27	SERVICE CHARGES	400-343.9005	2,000	2,000	2,000
28		400-343.9006			
29		400-343.9010			
30		400-343.9020			
31		400-343.9040			
32		400-369-0000			
33					
34	STATE & FEDERAL GRANTS REVENUE				
35					
36	(ARPA)Coronavirus Local Fiscal Recv Funds			570,000	503,747
37					
38					
39	TOTAL WATER & SEWER REVENUE		\$862,611.00	\$1,459,511.00	\$1,643,258.00
40					
41					

	A	B	F	G	I
42	TOWN OF EATONVILLE				
43	FISCAL YEAR 2022 - 2023				
44	APPROVED ENTERPRISE FUND BUDGET				
45					
46					
47	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 21-22	FY 22-23
48	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
49			BUDGET	BUDGET	BUDGET
50					
51					
52	WATER & SEWER -536				
53	EXPENDITURES				
54					
55	PERSONAL SERVICES				
56	Salaries & Wages - Regular	400-0536-536.1200	183,999	193,597	173,146
57					
58	Wages Overtime	400-0536-536.1400	10,000	10,000	6,000
59	Stand By Pay	400-0536-536.1700	7,200	7,000	5,000
60					
61					
62	TOTAL SALARIES & WAGES		201,199	210,597	184,146
63					
64	FRINGE BENEFITS				
65	FICA Taxes - 7.65%	400-0536-536.2100	15,376	16,111	14,087
66	Retirement 5%	400-0536-536.2200	4,818	4,818	4,533
67	Health & Life Insurance	400-0536-536.2300	38,537	38,537	40,441
68	Workers' Compensation	400-0536-536.2400	9,230	9,230	10,000
69	Unemployment Compensation	400-0536-536.2500	-	-	-
70					
71	TOTAL FRINGE BENEFITS		67,961	68,696	69,061
72					
73	TOTAL PERSONAL SERVICES		269,160	279,293	253,207
74					
75	OPERATING EXPENSES				
76	Professional Services	400-0536-536.3100	10,000	10,000	15,000
77	Contractual Services	400-0536-536.3400	30,000	30,000	50,000
78	Contractual Services-Altamonte Springs	400-0536-536.3410	260,000	300,000	300,000
79	Administrative Expense	400-0536-536.3500	55,000	15,000	20,000
80	Travel & Per Diem	400-0536-536.4000	2,000	2,000	2,000
81	Communication Services	400-0536-536.4100	3,500	3,500	3,500
82	Mail & Freight	400-0536-536.4200	5,000	5,000	5,000
83	Utility Services	400-0536-536.4300	25,000	20,000	20,000
84	Rentals & Leases	400-0536-536.4400	10,000	3,000	5,000
85	Repair & Maintenance - Auto	400-0536-536.4610	5,000	5,000	5,000
86	REPAIR & MAINTENANCE - OTHER	400-0536-536.4620	3,500	3,500	25,000
87	Repair - Lift Station	400-0536-536.4630	10,000	5,000	25,000
88	Repair & maintenance - WATER LINES	400-0536-536.4650	5,000	5,000	25,000
89	Repair & maintenance - Sewer Lines	400-0536-536.4660	10,000	5,000	25,000
90	Printing & Binding	400-0536-536.4700	2,200	2,200	2,000
91	Legal AD	400-0536-536.4900	1,000	1,000	1,000
92	Office Supplies	400-0536-536.5100	1,500	1,500	1,000
93	Operating Supplies	400-0536-536.5210	10,000	5,000	25,000
94	Uniforms & Shoes	400-0536-536.5220	750	750	1,100
95	Chemicals	400-0536-536.5280	20,000	20,000	30,000
96	Gas & Oil	400-0536-536.5290	8,600	8,600	10,000
97	Books, Publications, Subscriptions	400-0536-536.5400	200	200	200
98		400-0536-536.5500			
99	Depreciation	400-0536-536.5900			
100	Contingency	400-0536-536.5800	10,201	24,103	199,314
101	TOTAL OPERATING EXPENSES		488,451	475,353	795,114
102					
103					

	A	B	F	G	I
104					
105	TOWN OF EATONVILLE				
106	FISCAL YEAR 2021 - 2022				
107	APPROVED ENTERPRISE FUND BUDGET				
108					
109					
110	DEPARTMENT	ACCOUNT	FISCAL 20-21	FY 21-22	FY 22-23
111	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
112			BUDGET	BUDGET	BUDGET
113					
114					
115	CAPITAL OUTLAYS				
116					
117	West Water Tower Repairs/Renovations			300,000	300,000
118	Meter Replacement Program			200,000	133,747
119	Valve Repair/Replacement Program			50,000	50,000
120				20,000	20,000
121					
122	Lift Stations Improvement	400-0536-536.6320			
123	Utility Truck	400-0536-536.6420		20,000	20,000
124	Equipment & Machinery	400-0536-536.6420			
125	Vehicle - F150	400-0536-536.6420	20,000	20,000	20,000
126	TOTAL CAPITAL OUTLAY		\$20,000.00	\$610,000.00	\$543,747.00
127					
128					
129	DEBT SERVICE-SRF Loan				
130	SRF	400-0536-536.7100	85,000	85,000	41,325
131	USDA	400-0536-536.7100	-	9,865	9,865
132	Bond Cost	400-0536-536.7101			
133	Interest Expense	400-0536-536.7102			
134	TOTAL DEBT SERVICE		85,000	94,865	\$51,190.33
135					
136					
137			-	-	-
138					
139			-	-	-
140					
141	TOTAL WATER/SEWER EXPENDITURES		862,611	1,459,511	1,643,258
142					
143	(OVER/UNDER BUDGET)				(0)
144					

	A	B	F	G	I
145					
146	TOWN OF EATONVILLE				
147	FISCAL YEAR 2019-2020				
148	APPROVED ENTERPRISE FUND BUDGET				
149					
150					
151	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 2022	FISCAL 2023
152	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
153			BUDGET	BUDGET	BUDGET
154					
155	SOLID WASTE	FUND 401			
156	ESTIMATED REVENUES				
157					
158	CHARGES FOR SERVICES				
159					
160	Residential/Commercial Refuse/Recyc	401-343.4000	360,000	360,000	360,000
161					
162					
163	TOTAL REVENUES		360,000	360,000	360,000
164					
165	SOLID WASTE - 401				
166	EXPENDITURES				
167					
168	CONTRACTUAL SERVICES	401-0534-534.3400	293,550	293,550	293,550
169					
170	Fund Balance		66,450	66,450	66,450
171	TOTAL SOLID WASTE EXPEND.		360,000	360,000	360,000
172					
173	(OVER/UNDER BUDGET)		-	-	-
174					

	A	B	F	G	I
175					
176	TOWN OF EATONVILLE				
177	FISCAL YEAR 2022 -2023				
178	APPROVED ENTERPRISE FUND BUDGET				
179					
180					
181	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 2022	FISCAL 2023
182	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
183			BUDGET	BUDGET	BUDGET
184					
185	STORMWATER REVENUES				
186					
187					
188					
189	CHARGES FOR SERVICES				
190	Stormwater Revenue	402-343.0000	219,336	219,336	219,336
191	Interest Earnings - Stormwater	402-361.0000			
192	Residential				
193	Commercial				
194	SUB-TOTAL REVENUES		219,336	219,336	219,336
195					
196					
197	STORMWATER FUND - 402 EXPENDITURES				
198					
199					
200	PERSONAL SERVICES				
201	Salaries & Wages - Regular	402-0538-538.1200	87,266	72,324	100,404
202	Standby Pay	402-0538-538.1700	-	-	-
203	Wages Overtime	402-0538-538.1400	6,000	6,000	3,000
204					
205					
206	TOTAL SALARIES & WAGES		93,266	78,324	103,404
207					
208	FRINGE BENEFITS				
209	FICA Taxes - 7.65%	402-0538-538.2100	7,135	5,992	7,910
210	Retirement 5%	402-0538-538.2200	3,308	3,425	3,029
211	Health & Life Insurance	402-0538-538.2300	12,000	12,000	15,555
212	Workers' Compensation	402-0538-538.2400	5,998	5,998	6,300
213	Unemployment Compensation	402-0538-538.2500	-	-	-
214					
215	TOTAL FRINGE BENEFITS		28,441	27,415	32,794
216					
217	TOTAL PERSONAL SERVICES		121,707	105,739	136,198
218					

	A	B	F	G	I
219					
220					
221	TOWN OF EATONVILLE				
222	FISCAL YEAR 2022 - 2023				
223	APPROVED ENTERPRISE FUND BUDGET				
224					
225					
226	DEPARTMENT	ACCOUNT	FISCAL 20-21	FISCAL 2022	FISCAL 2023
227	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
228			BUDGET	BUDGET	BUDGET
229					
230					
231	OPERATING EXPENSES				
232	Professional Services	402-0538-538.3100	10,000	10,000	10,000
233	Contractual Services	402-0538-538.3400	19,500	19,500	15,000
234	Travel & Per Diem	402-0538-538.4000	500	500	500
235	Communication Services	402-0538-538.4100	500	500	500
236	Mail & Freight	402-0538-538.4200	91	91	100
237	Rentals & Leases	402-0538-538.4400	6,500	6,500	15,000
238	Repair & Maintenance - Auto	402-0538-538.4610	5,000	5,000	1,000
239	Repair & Maintenance - Storm System	402-0538-538.4630	11,500	11,500	10,000
240	Printing & Binding	402-0538-538.4700	-	-	-
241	Office Supplies	402-0538-538.5100	485	485	500
242	Operating Supplies	402-0538-538.5210	6,000	6,000	4,041
243	Uniforms & Shoes	402-0538-538.5220	1,500	1,500	1,500
244	Gas & Oil	402-0538-538.5290	4,000	4,000	5,000
245	Contingency	402-0538-538.5800	8,669	23,021	4,997
246	Depreciation Stormwater	402-0538-538.5900			
247	Bad Debt Expense	402-0538-538.5500			
248					
249	TOTAL OPERATING EXPENSES		74,245	88,597	68,138
250					
251	CAPITAL OUTLAYS -				
252					
253					
254	Vehicle	402-0538-538.6420	23,384	25,000	15,000
255					
256					
257	TOTAL CAPITAL OUTLAY		23,384	25,000	15,000
258					
259	TOTAL STORMWATER EXPENDITURES		219,336	219,336	219,336
260	FUND BALANCE				
261	(OVER/UNDER BUDGET)				
262			-	-	0

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
12					
13					
14					
15					
16					
17	ESTIMATED REVENUES				
18					
19	GENERAL FUND	FUND -001			
20	REVENUES				
21					
22	AD VALOREM TAXES				
23	Ad Valorem Taxes-Current	001-311.1000	\$1,727,356	\$1,765,817	\$1,912,436
24					
25	TOTAL AD VALOREM TAXES		\$1,727,356	\$1,765,817	\$1,912,436
26					
27	SALES AND USES TAXES				
28	Local Option Gas Tax	001-312.4100	\$66,780	\$68,595	\$71,783
29					
30	TOTAL SALES AND USES TAXES		\$66,780	\$68,595	\$71,783
31					
32	FRANCHISE FEES:				
33	Electric	001-323.4000	\$392,688	\$392,688	\$401,000
34	Solid Waste	001-323.7000	\$2,500	\$2,500	\$2,000
35					
36	TOTAL FRANCHISE FEES		\$395,188	\$395,188	\$403,000
37					
38	UTILITY SERVICE TAXES				
39	Electric	001-314.1000	\$410,000	\$410,000	\$453,600
40	Other Telecommunications	001-314.2000	\$86,611	\$86,611	\$91,000
41	Water Utility Tax	001-314.3000	\$60,000	\$60,000	\$65,000
42	Gas	001-314.4000	\$4,000	\$4,000	\$5,000
43					
44	TOTAL UTILITY SERVICE TAXES		\$560,611	\$560,611	\$614,600
45					
46	LICENSES AND PERMITS (CITY)				
47	Business Tax Licenses	001-316.0000	\$16,000	\$16,000	\$16,000
48	Building Permits	001-322.0000	\$40,000	\$180,000	\$300,000
49	Other Permits and Fees	001-329.0000	\$9,000	\$9,000	\$50,000
50	Fire Safety Inspection	001-342.5000	\$7,500	\$7,500	\$8,000
51	Linkage Fees			\$100,000	\$100,000
52					
53	TOTAL LICENSES AND PERMITS		\$72,500	\$312,500	\$474,000
54					
55	STATE SHARED REVENUES				
56	State Revenue Sharing	001-335.1200	\$103,717	\$99,360	\$119,581
57	Alcoholic Beverage Licenses	001-335.1500	\$500	\$500	\$200
58	Half Cent Sales Tax	001-335.1800	\$269,640	\$237,244	\$330,557
59	TOTAL STATE SHARED REVENUES		\$373,857	\$337,104	\$450,338

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
60					
61	COUNTY SHARED REVENUES				
62	Occupational Licenses	001-316.2000	\$500	\$500	\$500
63					
64	TOTAL COUNTY SHARED REVENUES		\$500	\$500	\$500
65					
66	CHARGES FOR SERVICES				
67	Eatonville Post Office	001-345.9001	\$17,440	\$17,440	\$17,440
68	Recreation Program Fees	001-347.2100			
69	Other Gov't Charges & W/S Administrative Fees	001-341.9000	\$55,000	\$15,000	\$20,000
70	TOTAL CHARGES FOR SERVICES		\$72,440	\$32,440	\$37,440
71					
72	FINES AND FORFEITURES				
73	Court Fines	001-351.1000	\$8,000	\$8,000	\$8,000
76	Code Violation Penalties	001-354.1000	\$5,000	\$5,000	\$5,000
77	Parking Tickets	001-351.1100	\$200	\$200	\$200
78	Seized Tags	001-342.9000	\$200	\$300	\$300
79	Towing	001-342.9001	\$2,000	\$2,000	\$2,000
80	TOTAL FINES AND FORFEITURES		\$15,400	\$15,500	\$15,500
81					
82	MISCELLANEOUS REVENUES				
83	Summer Food Program	001-331.6200	\$50,000	\$50,000	\$45,000
84	Federal Grants	001-331.9000	\$10,000	\$10,000	\$30,000
85	Interest Earnings on Investment	001-361.0000	\$200	\$200	\$200
87	Rental Income/DJC	001-362.0000	\$2,000	\$2,000	\$10,000
88	Rental Income/Tower	001-362.1000	\$27,469	\$27,469	\$27,469
91	Other Miscellaneous Revenue	001-369.0000	\$3,000	\$3,000	\$3,000
93	Election Qualifying Fees	001-369.1000		\$3,000	
94	Police - Off Duty Detail	001-369.0003	\$10,000	\$8,000	\$8,000
95	Police Liaison-Orange County School	001-337.2001	\$61,250	\$61,250	\$70,000
96	Library Rental	001-366.0000	\$60,654	\$60,654	\$60,654
97	Martin Luther King Jr. -Event	001-361.1000			\$26,648
98	Robert Woods Johnson Foundation	001-361.2000			\$25,000
99	TOTAL MISCELLANEOUS REVENUE		\$224,573	\$225,573	\$305,971
100					
101	OTHER FINANCING SOURCES & USES				
102	Forward Balance/Transfer		\$342,406	\$342,406	\$446,929
103					
104	TOTAL OTHER FINANCING SOURCES		\$342,406	\$342,406	\$446,929
105					
106	TOTAL OPERATING REVENUE		\$342,406	\$342,406	\$446,929
107					
108					
109					
110	TOTAL REVENUES		\$3,851,611	\$4,056,234	\$4,732,497

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
172					
173	TOTAL LEGISLATIVE EXPENDITURES		\$521,010	\$620,403	\$901,983

Section III. Item #1.

	A	B	K	N
1				
2	TOWN OF EATONVILLE			
3	FISCAL YEAR (FY) 2022 - 2023			
4	APPROVED GENERAL FUND BUDGET			
5				
6				
7		ACCOUNT	FY 20-21	FY 21-22
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED
9			BUDGET	BUDGET
10			7.2938	7.2938
174				
175				
219				
220	EXECUTIVE/ADMIN.-512			
221	EXPENDITURES			
222				
223	PERSONAL SERVICES			
224	Salaries	001-0512-512.1200	\$115,368	\$45,006
225	Wages - Part Time	001-0512-512.1300		
226	Overtime	001-0512-512.1400		
227	TOTAL SALARIES AND WAGES		\$115,368	\$45,006
228				
229	FRINGE BENEFITS			
230	FICA Taxes - 7.65%	001-0512-512.2100	\$8,858	\$3,443
231	Retirement 5%	001-0512-512.2200	\$4,923	\$5,147
232	Health & Life Insurance	001-0512-512.2300	\$21,696	\$14,464
233	Workers' Compensation	001-0512-512.2400	\$1,200	\$1,200
234	Unemployment Compensation	001-0512-512.2500	\$2,000	\$2,000
235				
236	TOTAL FRINGE BENEFITS		\$38,677	\$26,254
237				
238	TOTAL PERSONAL SERVICES		\$154,045	\$71,260
239				
240	OPERATING EXPENSES			
241	Professional Services	001-0512-512.3100	\$3,000	\$4,000
242	Contractual Services	001-0512-512.3400	\$3,000	\$3,000
243	Travel & Per Diem	001-0512-512.4000	\$1,500	\$1,500
244	Communication Services	001-0512-512.4100	\$3,000	\$3,000
245	Mail & Freight	001-0512-512.4200	\$1,200	\$1,000
246	Utility Services	001-0512-512.4300	\$16,000	\$14,000
247	Rentals & Leases	001-0512-512.4400	\$5,000	\$4,000
248	Insurance	001-0512-512.4500	\$150,000	\$150,000
251	Printing & Binding	001-0512-512.4700	\$1,200	\$1,000
252	Promotional Activities	001-0512-512.4800	\$1,000	\$1,000
253	Legal Ads.	001-0512-512.4900	\$13,000	\$15,000
254	Other Charges-ex. Election	001-0512-512.4915		\$8,000
255	Office Supplies	001-0512-512.5100	\$2,000	\$3,000
256	Operating Supplies	001-0512-512.5210	\$2,000	\$5,000
257	Gas & Oil	001-0512-512.5290	\$1,200	\$1,200
258	Books, Publications, Subscriptions	001-0512-512.5400	\$1,000	\$1,500
259				
260	TOTAL OPERATING EXPENSES		\$204,100	\$216,200
261				
262	CAPITAL OUTLAYS			
263				
267	TOTAL CAPITAL OUTLAYS			
268				
269	TOTAL ADMINISTRATION EXPENDITURES		\$358,145	\$287,460

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
270					
271					
272	FINANCE-513				
273	EXPENDITURES				
274	PERSONAL SERVICES				
275	Salaries & Wages - Regular	001-0513-513.1200	\$163,804	\$198,165	\$212,470
276					
277					
278	TOTAL SALARIES AND WAGES		\$163,804	\$198,165	\$212,470
279					
280	FRINGE BENEFITS				
281	FICA Taxes- 7.65%	001-0513-513.2100	\$12,531	\$15,160	\$16,254
282	Retirement -5%	001-0513-513.2200	\$6,590	\$6,920	\$9,724
283	Health and Life Insurance	001-0513-513.2300	\$30,629	\$30,629	\$37,331
284	Workers' Compensation	001-0513-513.2400	\$865	\$865	\$1,200
285	Unemployment Compensation	001-0513-513.2500	\$2,000	\$2,000	\$2,000
286	TOTAL FRINGE BENEFITS		\$52,615	\$55,574	\$66,508
287					
288	TOTAL PERSONAL SERVICES		\$216,419	\$253,739	\$278,978
289					
290	OPERATING EXPENSES				
291	Professional Services	001-0513-513.3100	\$500	\$500	\$3,500
292	Accounting and Auditing	001-0513-513.3200	\$35,000	\$51,000	\$65,000
293	Contractual Service	001-0513-513.3400	\$30,000	\$30,000	\$45,000
294	Contractual Services-Payroll Services	001-0513-513.3411	\$9,560	\$10,000	\$10,000
295	Travel & Per Diem	001-0513-513.4000	\$1,000	\$1,000	\$3,000
296	Communication Services	001-0513-513.4100	\$2,600	\$2,600	\$2,600
297	Mail & Freight	001-0513-513.4200	\$1,500	\$1,500	\$1,500
298	Rentals & Leases	001-0513-513.4400	\$1,500	\$2,000	\$2,000
300	Printing & Binding	001-0513-513.4700	\$500	\$500	\$700
302	Bad Debt Expense	001-0513-513.4700			
303	Office Supplies	001-0513-513.5100	\$1,500	\$2,500	\$2,500
304	Operating Supplies	001-0513-513.5210	\$2,500	\$2,500	\$2,500
305	Books, Publications, Subscriptions, Regist.	001-0513-513.5400	\$1,000	\$1,000	\$2,500
306	Equipment	001-0513-513.6450			
307					
308	TOTAL OPERATING EXPENSES		\$87,160	\$105,100	\$140,800
309					
310	CAPITAL OUTLAYS				
311	New Technical (Wi-Fi, Computers/Conf. Systems)				\$10,000
312					
313	TOTAL CAPITAL OUTLAYS				\$10,000
314					
315	TOTAL FINANCE EXPENDITURES		\$303,579	\$358,839	\$429,778

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
316					
317	LEGAL COUNSEL-514				
318	EXPENDITURES				
319					
320	OPERATING EXPENSES				
321	Professional Services	001-0514-514.3100	\$40,000	\$50,000	\$100,000
322	Other Legal Services	001-0514-514.3400	\$14,000	\$14,000	\$20,000
323	Town Council - Other Legal service	001-0514-514.4000	\$8,000	\$6,000	
324	Books, Publications, Subscriptions				
325					
326	TOTAL LEGAL EXPENDITURES		\$62,000	\$70,000	\$120,000

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
327					
328	PLANNING AND COMMUNITY DEVELOPMENT - 515				
329	EXPENDITURES				
330	PERSONAL SERVICES				
331	Salaries & Wages-Regular	001-0515-515.1200	\$18,946	\$5,868	\$127,663
332					
333	TOTAL SALARIES & WAGES		\$18,946	\$5,868	\$127,663
334					
335	FRINGE BENEFITS				
336	FICA Taxes - 7.65%	001-0515-515.2100	\$1,449	\$449	\$9,766
337	Retirement 5%	001-0515-515.2200	\$947	\$352	
338	Health & Life Insurance	001-0515-515.2300	\$15,315	\$3,252	\$18,665
339	Workers' Compensation	001-0515-515.2400	\$2,000	\$2,000	\$2,000
340	Unemployment Compensation	001-0515-515.2500			
341					
342	TOTAL FRINGE BENEFITS		\$19,711	\$6,053	\$30,431
343					
344	TOTAL PERSONAL SERVICES		\$38,657	\$11,921	\$158,094
345					
346	OPERATING EXPENSES				
347	Professional Services	001-0515-515.3100	\$8,000	\$8,000	\$40,000
348	Contractual Services	001-0515-515.3400	\$30,000	\$90,000	\$75,000
349	Florida Main Street - Contract	001-0515-515.3401	\$25,000	\$25,000	
350	Contractual Svcs - Code Compliance	001-0515-515.3402	\$40,800	\$40,800	
351	Contractual Svcs - Planner	001-0515-515.3403		\$55,692	
352	Travel & Per Diem	001-0515-515.4000	\$2,000	\$2,000	\$3,000
353	Communication Services	001-0515-515.4100	\$2,300	\$2,300	\$2,500
354	Mail & Freight	001-0515-515.4200	\$1,000	\$1,000	\$3,500
355	Rentals & Leases	001-0515-515.4400	\$4,000	\$4,000	\$4,000
356	Repair & Maintenance Auto	001-0515-515.4610	\$2,000	\$2,000	\$2,000
357	Printing & Binding	001-0515-515.4700	\$1,000	\$1,000	\$1,000
358	Legal Advertising	001-0515-515.4900	\$8,000	\$8,000	\$20,000
359	Office Supplies	001-0515-515.5100	\$500	\$500	\$2,500
360	Operating Supplies	001-0515-515.5210	\$880	\$880	\$2,000
361	Uniforms	001-0515-515.5220	\$500	\$500	\$2,000
362	Gas & Oil	001-0515-515.5290	\$1,500	\$1,500	\$5,000
363	Books, Publications, Subscriptions	001-0515-515.5400	\$1,150	\$1,150	\$2,300
364					
365	TOTAL OPERATING EXPENSES		\$128,630	\$244,322	\$164,800
366					
367					
368	TOTAL COMM. DEVELOP. EXPEND.		\$167,287	\$256,243	\$322,894

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
369					
370	DEBT SERVICES EXPENDITURE - 517				
371					
372	DEBT SERVICE-2000 Bond Issue				
373	Principal	001-0517-517.7100	\$55,000	\$50,000	\$55,000
374	Interest	001-0517-517.7200	\$25,000	\$30,750	\$32,000
375	Other Charges	001-0517-517.4915	\$3,000	\$5,000	\$5,000
376	TOTAL DEBT SERVICE EXPENDITURE		\$83,000	\$85,750	\$92,000

A		B	K	N	Section III. Item #1.
1	TOWN OF EATONVILLE				
2	FISCAL YEAR (FY) 2022 - 2023				
3	APPROVED GENERAL FUND BUDGET				
4					
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
377					
378					
379					
380	POLICE DEPARTMENT-521				
381	EXPENDITURES				
382					
383	PERSONAL SERVICES				
384	Salaries & Wages - Regular	001-0521-521.1200	\$664,258	\$636,209	\$704,707
385	Wages Part-time	001-0521-521.1300	\$29,503	\$30,028	\$51,200
386	Wages Overtime	001-0521-521.1400	\$35,000	\$35,000	\$35,000
387	001-0521-521.1401	001-0521-521.1401			
388	Incentive Pay	001-0521-521.1500	\$7,800	\$7,800	\$7,800
389	Merit Incentive Pay	001-0521-521.1501			\$10,000
390					
391	TOTAL SALARIES & WAGES		\$736,561	\$709,037	\$808,707
392					
393	FRINGE BENEFITS				
394	FICA Taxes - 7.65%	001-0521-521.2100	\$56,347	\$61,905	\$61,866
395	Retirement - Office Staff	001-0521-521.2200	\$2,880	\$4,002	\$4,365
396	Police Officers Retirement	001-0521-521.2201	\$20,000	\$20,000	\$20,000
397	Health & Life Insurance	001-0521-521.2300	\$115,616	\$115,616	\$139,990
398	Workers' Compensation	001-0521-521.2400	\$26,000	\$26,000	\$30,000
399	Unemployment Compensation	001-0521-521.2500	\$2,000	\$2,000	\$2,000
400	TOTAL FRINGE BENEFITS		\$222,843	\$229,523	\$258,221
401					
402	TOTAL PERSONAL SERVICES		\$959,404	\$938,560	\$1,066,928
403					
404	OPERATING EXPENSES				
405	Professional Services	001-0521-521.3100	\$10,000	\$10,000	\$10,000
406	Contractual Services	001-0521-521.3400	\$85,000	\$78,000	\$80,000
407	Travel & Per Diem	001-0521-521.4000	\$3,000	\$2,000	\$2,000
408	Communication	001-0521-521.4100	\$10,000	\$10,000	\$10,000
409	Mail & Freight	001-0521-521.4200	\$500	\$500	\$500
410	Utility Services	001-0521-521.4300	\$16,000	\$16,000	\$12,000
411	Rental & Leases	001-0521-521.4400	\$10,000	\$20,000	\$32,500
412	Repair & Maintenance-Auto	001-0521-521.4610	\$18,000	\$25,000	
413	Printing & Binding	001-0521-521.4700	\$600	\$600	\$600
415	Legal Ads	001-0521-521.4900	\$700	\$700	\$700
416	Alarm System Monitoring	001-0521-521.4910	\$700	\$700	\$700
417	Office Supplies	001-0521-521.5100	\$2,500	\$2,500	\$2,500
418	Operating Supplies	001-0521-521.5210	\$15,200	\$15,200	\$15,200
419	Uniforms & Shoes	001-0521-521.5220	\$5,300	\$5,300	\$5,300
420	Gas & Oil	001-0521-521.5290	\$25,000	\$30,500	\$40,000
421	Books, Publications, Subscriptions	001-0521-521.5400	\$1,000	\$1,000	\$1,000
422	Training	001-0521-521.5410	\$4,000	\$5,000	\$10,000
423	TOTAL OPERATING EXPENSES		\$207,500	\$223,000	\$223,000
424	CAPITAL OUTLAY				
426					
427	Improvements Other	001-0521-521.6300			
428	Vehicle	001-0521-521.6410			\$50,000
429	Equipment (Grant)	001-0521-521.6420	\$10,000	\$10,000	\$20,000
430	TOTAL CAPITAL OUTLAYS		\$10,000	\$10,000	\$20,000
431					
432	TOTAL POLICE EXPENDITURES		\$1,176,904	\$1,171,560	\$1,309,928

	A	B	K	N	
1					Section III. Item #1.
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4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
433					
434					
466					
467	FIRE RESCUE-522				
468	EXPENDITURES				
469					
470					
471	OPERATING EXPENSES				
472	Contractual Services	001-0522-522.3400	\$312,538	\$342,035	\$390,945
473	TOTAL OPERATING EXPENSES		\$312,538	\$342,035	\$390,945
474					
475					
476	TOTAL FIRE EXPENDITURES		\$312,538	\$342,035	\$390,945

A		B	K	N	Section III. Item #1.
1	TOWN OF EATONVILLE				
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4					
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
477					
478					
479	PUBLIC WORKS-541				
480	EXPENDITURES				
481	PERSONAL SERVICES				
482	Salaries & Wages- Regular	001-0541-541.1200	\$26,696	\$30,368	\$36,236
483	Wages Part-time	001-0541-541.1300			
484	Wages Overtime	001-0541-541.1400			
485	Bonus			\$3,000	
486					
487	TOTAL SALARIES & WAGES		\$26,696	\$33,368	\$36,236
488					
489	FRINGE BENEFITS				
490	FICA Taxes -7.65%	001-0541-541-2100	\$2,042	\$2,323	\$2,772
491	Retirement 5%	001-0541-541.2200	\$279	\$345	\$1,812
492	Health & Life Insurance	001-0541-541.2300	\$2,552	\$2,552	\$6,222
493	Workers' Compensation	001-0541-541.2400	\$822	\$822	\$1,000
494	Unemployment Compensation	001-0541-541.2500			
495					
496	TOTAL FRINGE BENEFITS		\$5,695	\$6,042	\$11,806
497					
498	TOTAL PERSONAL SERVICES		\$32,391	\$39,410	\$48,042
499					
500	OPERATING EXPENSES				
501	Professional Services	001-0541-541.3100	\$15,000	\$15,000	\$15,000
502	Contractual Services	001-0541-541.3400	\$20,000	\$20,000	\$20,000
503	Contractual Svcs Building Maintenance	001-0541-541.3402			\$25,000
504	Contractual Svc - (Town's ROW, Parks,Street)	001-0541-541.3403			\$35,000
505	Contractual Svcs (Maint. All town Vehicles)				\$38,000
506	Travel & Per Diem	001-0541-541.4000	\$500	\$500	\$500
507	Communication Services	001-0541-541.4100	\$2,200	\$2,200	\$2,200
508	Mail & Freight	001-0541-541.4200	\$1,000	\$1,000	\$1,000
509	Utility Services	001-0541-541.4300	\$105,000	\$105,000	\$105,000
510	Rental & Leases	001-0541-541.4400	\$7,500	\$7,500	\$7,500
511	Repair & Maintenance	001-0541-541.4610	\$3,000	\$3,000	\$3,000
512	Building repairs and Maintenance	001-0541-541.4611	\$11,000	\$11,000	\$11,000
513	Repair & Maintenance - Other	001-0541-541.4620			
514	Printing & Binding	001-0541-541.4700	\$500	\$500	\$500
515	Office Supplies	001-0541-541.5100	\$1,400	\$1,400	\$1,400
516	Operating Supplies	001-0541-541.5210	\$16,000	\$16,000	\$16,000
517	Uniforms & Shoes	001-0541-541.5220	\$750	\$750	\$1,000
518	Gas & Oil	001-0541-541.5290	\$1,500	\$1,500	\$1,500
519	Road Materials & Supplies	001-0541-541.5300	\$30,000	\$30,000	\$50,000
520	Books, Publications, Subscriptions	001-0541-541.5400	\$200	\$200	\$200
521	TOTAL OPERATING SUPPLIES		\$215,550	\$215,550	\$333,800
522					
523	CAPITAL OUTLAYS				
524	Building Improvements	001-0541-541.6200			
525	Improvements Other	001-0541-541.6300			
526	Vehicle	001-0541-541.6410	\$20,000		
527	Locate machine			\$20,000	\$20,000
528	Building Renovations			\$300,000	
529	Lawn Equipment(s)		\$15,000	\$15,000	\$15,000
530	TOTAL CAPITAL OUTLAYS		\$35,000	\$335,000	\$35,000
531					
532	TOTAL PUB. WORKS EXPENDITURES		\$282,941	\$589,960	\$416,842

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1					Section III. Item #1.
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5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
533					
534	POST OFFICE - 550				
535	EXPENDITURES				
536	PERSONAL SERVICES				
537	Wages Full - time	001-0550-550.1200	\$18,398	\$19,318	\$23,400
538	Wages Part-time	001-0550-550.1300			
539	Overtime	001-0550.550.1400			
540	TOTAL SALARIES AND WAGES		\$18,398	\$19,318	\$23,400
541					
542	FRINGE BENEFITS				
543	FICA Taxes - 7.65%	001-0550-550.2100	\$1,407	\$1,478	\$1,790
544	Retirement 5%	001-0550-550.2200			\$1,170
545	Health & Life Insurance	001-0550-550.2300			\$9,333
546	Workers' Compensation	001-0550-550.2400	\$84	\$84	\$100
547	Unemployment Compensation	001-0550-550.2500			
548					
549	TOTAL FRINGE BENEFITS		\$1,491	\$1,562	\$12,393
550					
551	TOTAL PERSONAL SERVICES		\$19,889	\$20,880	\$35,793
552					
553	OPERATING EXPENSES				
554	Contractual Services	001-0550-550.3400	\$2,000	\$2,000	\$2,500
555	Communication	001-0550-550.4100	\$800	\$800	\$800
556	Utility Services	001-0550-550.4300	\$2,800	\$2,800	\$3,100
557	Rentals & Leases	001-0550-550.4400			
558	Repairs & Maintenance	001-0550-550.4600			
559	Office Supplies	001-0550-550.5100			
560	Promotional Activities	001-0550-550.4800			
561	Operating Supplies	001-0550-550.5210	\$1,500	\$2,000	
562	TOTAL OPERATING EXPENSES		\$7,100	\$7,600	\$6,400
563					
564	TOTAL POST OFFICE EXPENDITURES		\$26,989	\$28,480	\$42,193

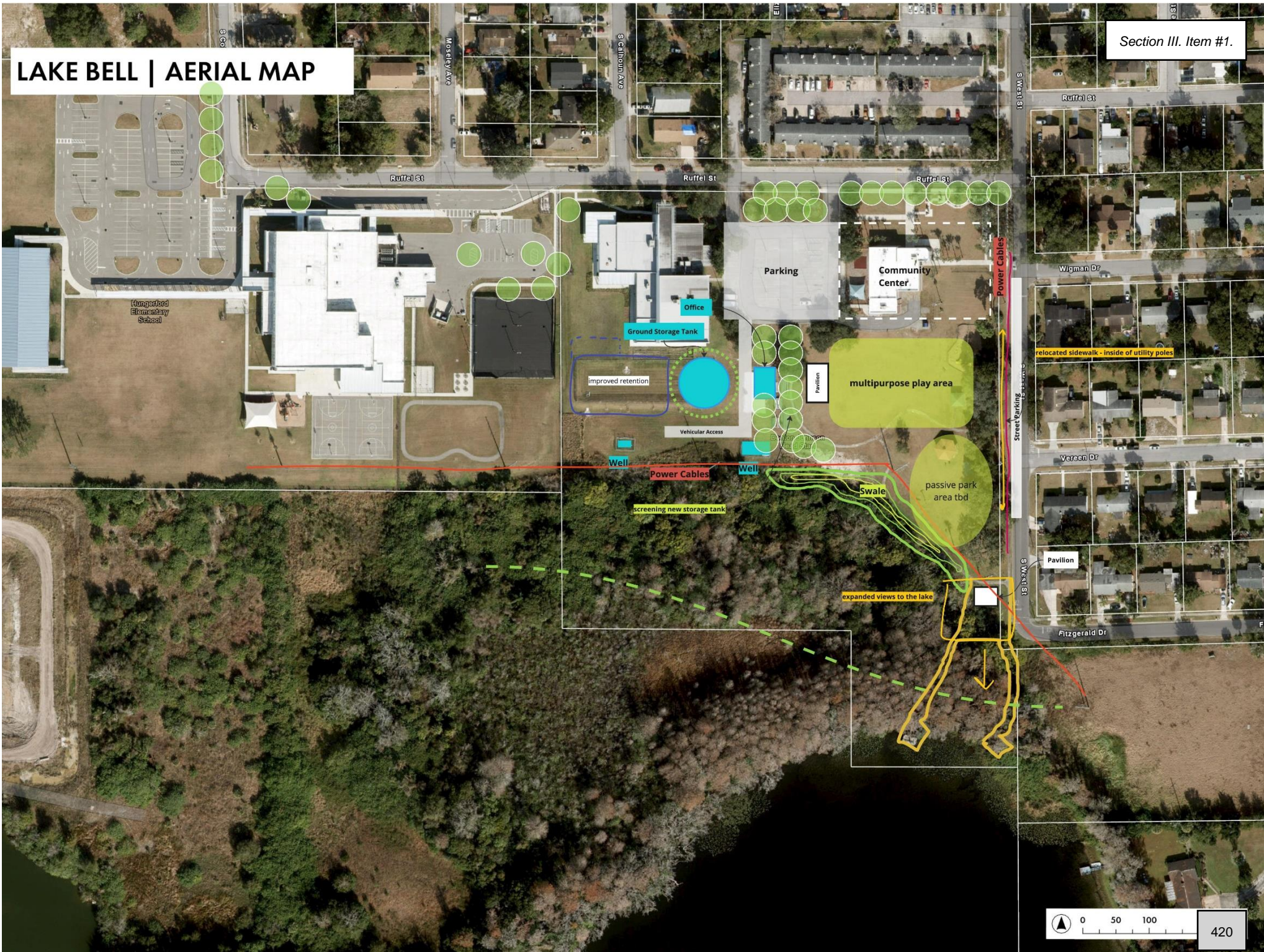
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1					Section III. Item #1.
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4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
565					
566					
567					
568	SUMMER FOOD - 560				
569	EXPENDITURES				
570	PERSONAL SERVICES				
571	Wages Part-time	001-0560-560.1300	\$16,860	\$16,860	\$16,860
572					
573	TOTAL SALARIES AND WAGES		\$16,860	\$16,860	\$16,860
574					
575	FRINGE BENEFITS				
576	FICA Taxes - 7.65%	001-0560-560.2100	\$1,319	\$1,319	\$1,319
577	Workers' Compensation	001-0560-560.2400	\$500	\$500	\$500
578					
579	TOTAL FRINGE BENEFITS		\$1,819	\$1,819	\$1,819
580					
581	TOTAL PERSONAL SERVICES		\$18,679	\$18,679	\$18,679
582					
583	OPERATING EXPENSES				
584	Operating Supplies	001-0560-560.5210	\$27,115	\$27,115	\$27,115
585	TOTAL OPERATING EXPENSES		\$27,115	\$27,115	\$27,115
586					
587	TOTAL SUMMER FOOD EXPENDITURES		\$45,794	\$45,794	\$45,794
588					

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1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
641					
642	SPECIAL EVENTS - 574 EXPENDITURES				
643					
644	OPERATING EXPENSES				
645					
646	Other Miscellaneous expense - MLK	001-0574-574.4900			\$23,665
647	Other Miscellaneous expense - RWJF	001-0574-574.4901			\$25,000
648					
649	TOTAL OPERATING EXPENSES				
					\$48,665
650					
651					
652					
653					
654					
655					

	A	B	K	N	
1					Section III. Item #1.
2	TOWN OF EATONVILLE				
3	FISCAL YEAR (FY) 2022 - 2023				
4	APPROVED GENERAL FUND BUDGET				
5					
6					
7		ACCOUNT	FY 20-21	FY 21-22	FY 22-23
8	ACCOUNT NAME	NUMBER	APPROVED	APPROVED	APPROVED
9			BUDGET	BUDGET	BUDGET
10			7.2938	7.2938	7.2938
656					
657	GENERAL FUND REVENUES	FYI ONLY	\$3,851,611	\$4,056,234	\$4,732,497
658	FUND BALANCE				
659	TOTAL GEN. FUND EXPENDITURES		\$3,509,205	\$4,031,234	\$4,732,497
660					
661	OVER/UNDER BUDGET GENERAL FUND		\$342,406	\$25,000	\$0

LAKE BELL | AERIAL MAP

Section III. Item #1.





HISTORIC TOWN OF EATONVILLE, FLORIDA

TOWN COUNCIL WORKSHOP

MAY 21, 2024, AT 06:30 PM

Cover Sheet

****NOTE**** Please do not change the formatting of this document (font style, size, paragraph spacing etc.)

ITEM TITLE: DISCUSSION OF THE INFRASTRUCTURE EQUITY ACTION PLAN (Public Works)

TOWN COUNCIL ACTION:

PROCLAMATIONS, AWARDS, AND PRESENTATIONS		Department: PUBLIC WORKS
INTRODUCTIONS		Exhibits: <ul style="list-style-type: none">Equity Action Plan
CONSENT AGENDA		
COUNCIL DISCUSSION	YES	
ADMINISTRATIVE		

REQUEST:

The request is for Town Council to Discuss the scope of the Infrastructure Equity Action Plan that is in collaboration with the Eatonville Chamber of Commerce

SUMMARY:

Funding from the FDEP SRF Grant for drinking water and clean water in the amount of \$34.4M, will allow the Town to rebuild the water plant with new equipment and controls. The Equity Action Plan is design to create and position Minority & Women-owned Business Enterprise (MWBEs) for potential procurement opportunity with for upcoming projects and development.

Goals for the program include:

- 1) Eatonville to exceed MWBE requirements for all procurement activities.
- 2) Eatonville to perform community outreach to broadcast business and employment opportunities to all residents.
- 3) Eatonville to provide support to local emerging businesses with business development training.
- 4) Eatonville to identify future workers and promote workforce training in preparation for employment on the project.

RECOMMENDATION: Staff is recommending for Town Council to Discuss the scope of the Infrastructure Equity Action Plan that is in collaboration with the Eatonville Chamber of Commerce.

FISCAL & EFFICIENCY DATA: N/A



WORKSHOP ITEM

EATONVILLE UTILITIES INFRASTRUCTURE IMPROVEMENTS PROGRAM

Equity Action Plan – First Draft

Prepared by Public Works Department

5/13/2024

BUSINESS AND WORKFORCE DEVELOPMENT

Goals for the program include:

- 1) Eatonville to exceed MWBE requirements for all procurement activities.
- 2) Eatonville to perform community outreach to broadcast business and employment opportunities to all residents.
- 3) Eatonville to provide support to local emerging businesses with business development training.
- 4) Eatonville to identify future workers and promote workforce training in preparation for employment on the project.

Business development goals for Town residents/businesses:

- 1) At least 2 Prime Contracts with Eatonville businesses
- 2) 10 new MWBE Certifications with State or Orange County
- 3) 10 subcontracts with Eatonville businesses

Workforce development goals for Town residents

- 1) 30 new construction related/adjacent jobs
-

PROCUREMENT FORECAST

- 1) Program Manager (to be confirmed if work can be done in-house)
- 2) Engineering for water and sewer utilities (RFP July 2024)
- 3) Construction Inspection and Engineering (CEI)
- 4) Construction Manager at Risk -(RFP July 2024)
- 5)

Potential Bid Packages including:

- Water Plant Building – Building Trades
 - Water Plant Equipment
 - Water and Sewer Underground Utilities/Plumbing
 - Landscaping
 - Hardscape
 - Fencing
 - Electronics/SCADA
 - Networking and Security
 - Construction Security
 - Maintenance of Traffic
 - Hauling
 - Trucking
 - Welding
-

➤ Strategies for meeting business development goals

❖ Partner with Eatonville Chamber of Commerce to meet the following goals:

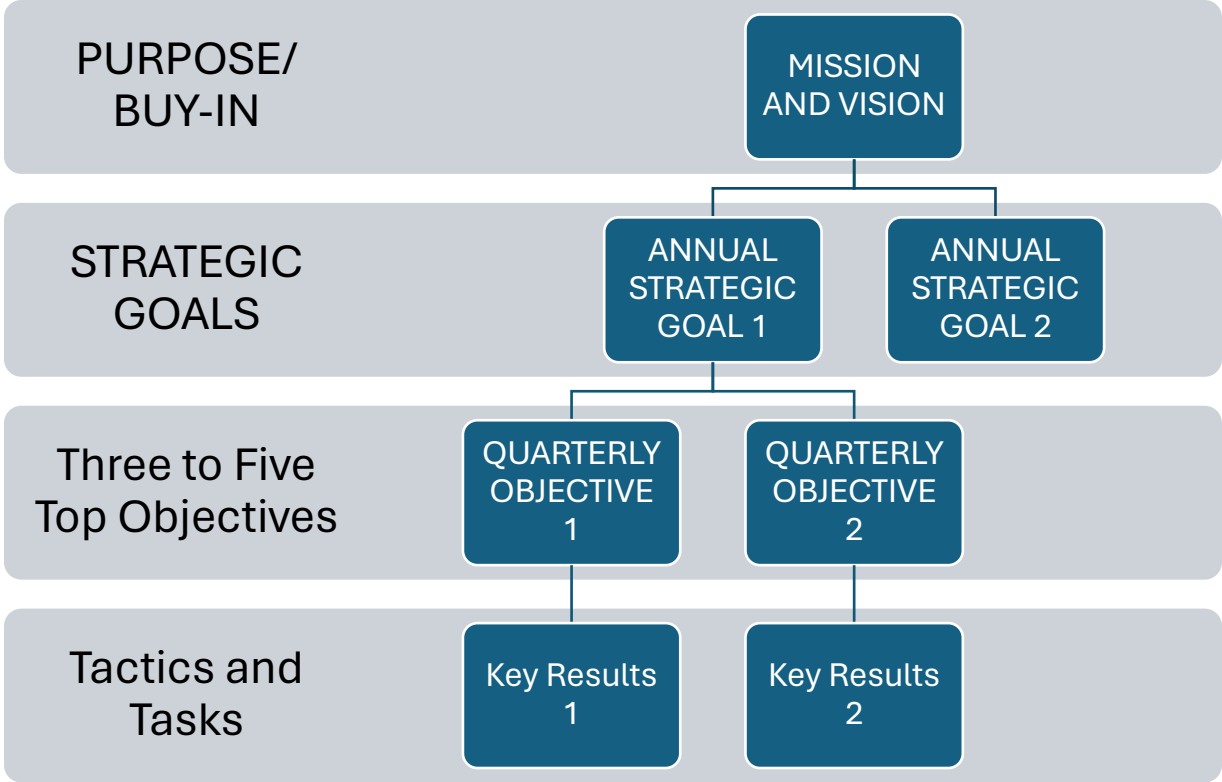
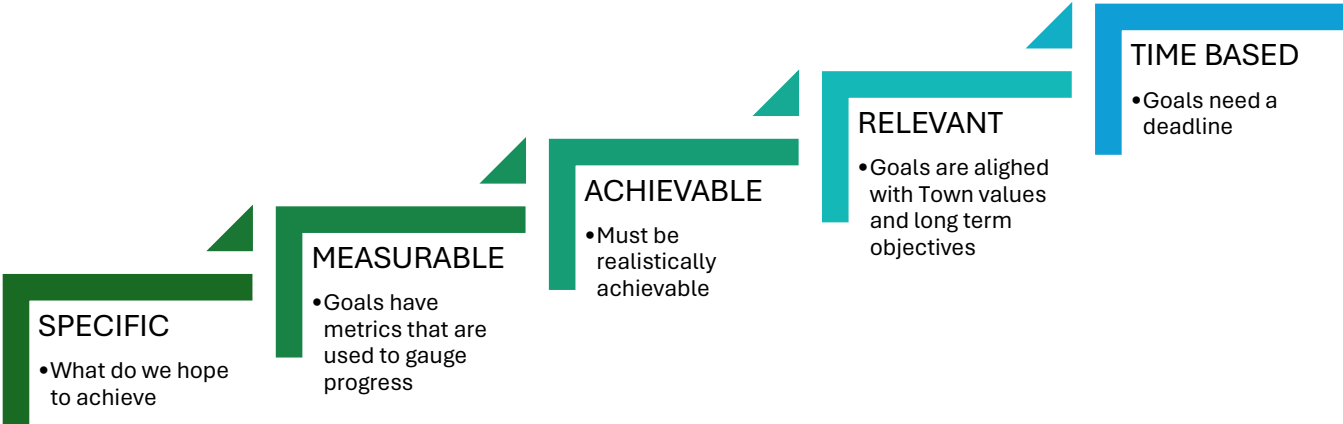
- A. Conduct a survey of business operators of all types living and operating in Eatonville. Who are local vendors, what services do they provide?
- B. Boost local emerging businesses to be prepared to participate
- C. Allow businesses to understand the value of certification and understand that there will be no penalties for past business practices.
- D. Work with local businesses to get them MWBE Certified through the State and Orange County
- E. Introduce Primes to subs and encourage partnerships
- F. Provide a business development training academy to prepare businesses to work on the project.
- G. Write a business plan with the business owner.
- H. Create a business incubator for emerging businesses.

➤ Strategies for meeting workforce development and employment goals.

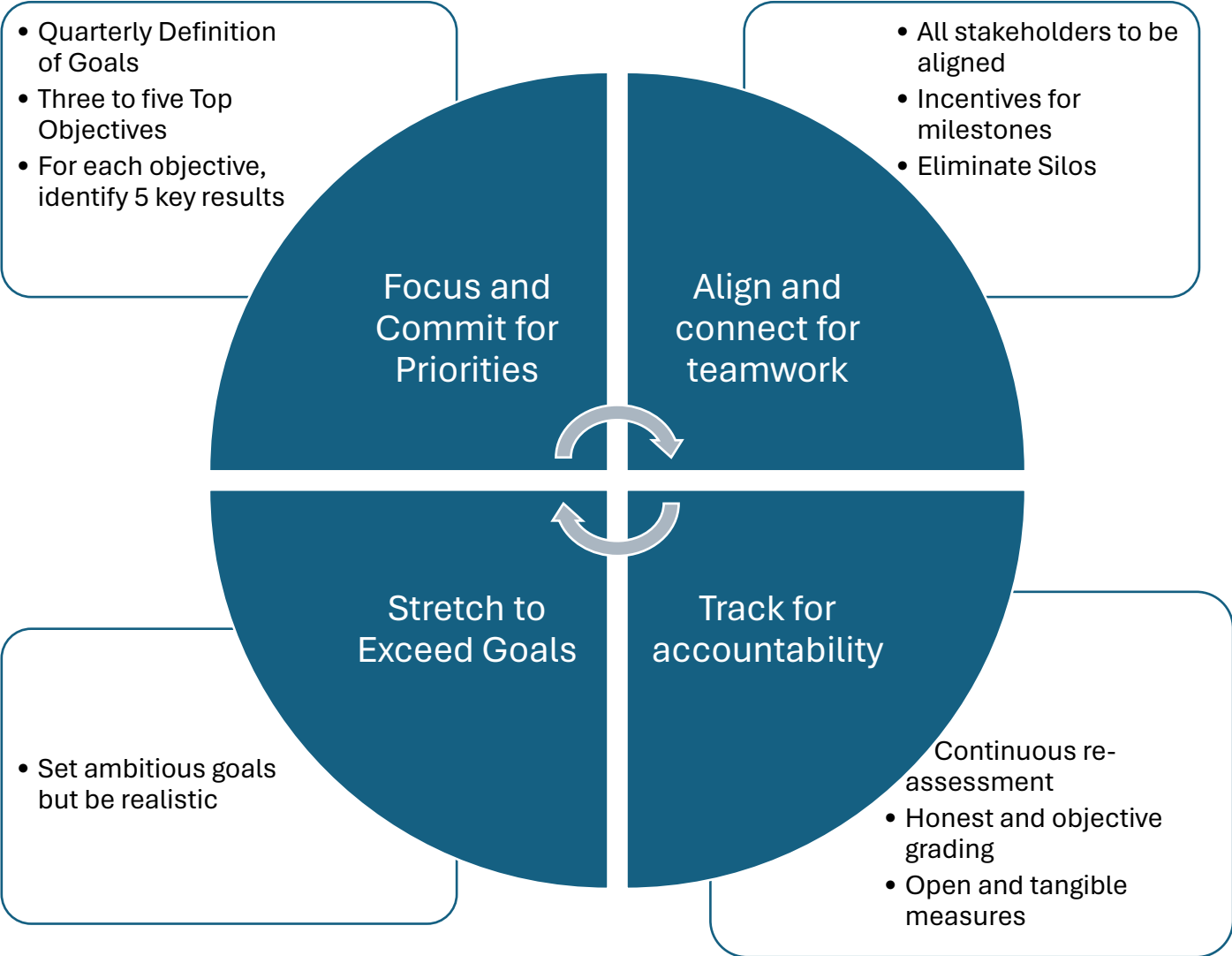
❖ Partner with Eatonville Chamber of Commerce, Orange Technical College, Valencia College – Accelerated Skills Program, Career Source, ABC, and contractors, to meet the following goals:

- A. Conduct a door to door workforce training survey of residents living in Eatonville.
- B. Provide information to the area high schools identifying students of opportunities.
- C. Town to create an employment office in partnership with Career Source for this and other construction activity requiring employment placement.
- D. Offer stipends for training students.

How to measure goals for this program?



What should we do with measurements and metrics?





HISTORIC TOWN OF EATONVILLE, FLORIDA

TOWN COUNCIL WORKSHOP

MAY 21, 2024, AT 06:30 PM

Cover Sheet

****NOTE**** Please do not change the formatting of this document (font style, size, paragraph spacing etc.)

ITEM TITLE: Discussion of a Community Benefit Agreement-CBA (Administration)

TOWN COUNCIL ACTION:

PROCLAMATIONS, AWARDS, AND PRESENTATIONS		Department: ADMINISTRATION
INTRODUCTIONS		Exhibits: <ul style="list-style-type: none"> CBA Overview Information
CONSENT AGENDA		
COUNCIL DISCUSSION	YES	
ADMINISTRATIVE		

REQUEST: The request is for Town Council to Discuss a Community Benefit Agreement-CBA

SUMMARY: A member of the public presented to Town Council during public participation (May 7, 2024) the concept of a Community Benefit Agreement (CBA) for discussion and consideration at a future workshop. The request is for the town council to discuss the possibility of creating a CBA for the Town of Eatonville. The proposed CBA aims to provide a clear understanding of the benefits and consideration of adopting by ordinance

Importance of a CBA for Eatonville: For Eatonville, a CBA represents a significant tool in ensuring that all developments contribute positively to the community. As a historic town with unique cultural and social dynamics, Eatonville can benefit from CBAs that ensure developments are aligned with the town's long-term vision for economic, social, and cultural prosperity. This agreement could serve as a model for community-led development, highlighting the town's commitment to preserving its heritage while fostering growth.

Conclusion: In conclusion, while the adoption of a CBA presents certain challenges, its potential to drive meaningful community benefits makes it a worthwhile consideration for Eatonville. It is recommended that the Town Council engage in detailed discussions, considering both the pros and cons presented, to make an informed decision that best serves the community's interests.

RECOMMENDATION:

Staff is recommending for Town Council to Discuss a Community Benefit Agreement-CBA.

FISCAL & EFFICIENCY DATA: N/A

Community Benefit Agreement (CBA) Discussion Document

Introduction: This document provides a comprehensive overview of the proposed Community Benefit Agreement (CBA) for Eatonville. It aims to facilitate a clear understanding among the Town Council members about the benefits and considerations associated with implementing a CBA, and to assist in guiding a constructive discussion on its adoption.

Pros of Implementing a CBA:

- **Enhanced Community Engagement:** CBAs require developers to engage directly with the community, ensuring that development projects address local needs and priorities, which may include employment, housing, and environmental sustainability.
- **Local Economic Development:** By stipulating local hiring and procurement, CBAs can stimulate local economies, support local businesses, and increase job opportunities for residents.
- **Prevention of Gentrification:** CBAs can include provisions that protect existing residents from being priced out of their neighborhoods by new developments, thus preserving community character and cohesion.
- **Legal and Social Accountability:** CBAs are legally binding agreements that hold developers accountable for contributing to the community welfare, providing a framework for enforceable action if commitments are not met.

Potential Cons of Implementing a CBA:

- **Complex Negotiations:** The process of negotiating a CBA can be lengthy and complex, potentially delaying project timelines and increasing costs.
- **Representation Concerns:** There is a risk that the groups negotiating the CBA might not adequately represent all community interests, leading to skewed benefits.
- **Potential for Conflict of Interest:** The interactions between developers and community groups can lead to conflicts of interest, especially if not properly managed and transparent.
- **Enforcement Challenges:** Enforcing the terms of a CBA can be challenging, especially if the agreement is not carefully crafted with clear, measurable outcomes.

Importance of a CBA for Eatonville: For Eatonville, a CBA represents a significant tool in ensuring that all developments contribute positively to the community. As a historic town with unique cultural and social dynamics, Eatonville can benefit from CBAs that ensure developments are aligned with the town's long-term vision for economic, social, and cultural prosperity. This agreement could serve as a model for community-led development, highlighting the town's commitment to preserving its heritage while fostering growth.

Conclusion: In conclusion, while the adoption of a CBA presents certain challenges, its potential to drive meaningful community benefits makes it a worthwhile consideration for Eatonville. It is recommended that the Town Council engage in detailed discussions, considering both the pros and cons presented, to make an informed decision that best serves the community's interests.

Agreement Program


[Print this page](#) 

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COMMUNITY-MINDED ECONOMIC DEVELOPMENT

In 2021, City Council approved the Community Benefits Agreement (CBA) program as a major step toward more equitable economic growth. It creates a process that takes into account the social and community impact of major development plans.

The program requires developers to provide community benefits for projects that receive public assistance.

-  Benefits may include activities in the following areas:
- affordable or workforce housing
 - environmental resiliency and sustainability
 - public infrastructure
 - equitable workforce development
 - neighborhood health and safety and
 - equitable economic opportunities

The required community benefits package that a developer must provide is determined through collaboration with the Community Benefits Advisory Council and community meetings with final approval of the Community Benefits Agreement by City Council.

Past Projects Reviewed

800 1st Ave S.

[Learn More](#) 

 Hi , how can I help?

Community Benefits Advisory Council

Member Roster

Description

Overview

The Community Benefits Program requires developers to provide community benefits for projects that receive public assistance. Benefits may include activities in the following areas: affordable housing, environmental resiliency and sustainability, public infrastructure, equitable workforce development, equitable economic opportunities, and neighborhood health and safety. Learn more about the program by visiting the Community Benefits Agreement (CBA) webpage.

The required community benefits package that a developer must provide is determined through collaboration with the Community Benefits Advisory Council and community meetings with final approval of the Community Benefits Agreement by City Council.

What is the Community Benefits Advisory Council?

The Community Benefits Advisory Council (CBAC) is a non-partisan board that advises the Mayor, City Council and the citizens of St. Pete. The council is made up of four standing members, who will consult on the implementation of the City's Community Benefits Agreement Program (CBA Program). The Mayor and City Council each appoint two standing members. The standing members serve on the CBAC for no more than two, three-year terms.

For specific CBA projects, four ad hoc members are selected to join standing members to comprise a full CBAC. Ad hoc members are chosen from residents within one mile of the project location where the project is located. The Mayor and City Council each appoint two ad hoc members. Additionally, one City Council member is selected by their peers as an ad hoc member of the CBAC for each project. Ad hoc members serve until the project is approved by City Council or withdrawn.

Meeting Schedule

On Dec. 13 at 5:30 p.m., a Community Benefits Information Session was held at the Coliseum to gather public input on the Community Benefits for the Historic Gas Plant District Development. The input gathered at the meeting has been given to the Community Benefits Advisory Council for their consideration.

The CBAC will convene on the following Tuesdays in January and will be held in at St. Petersburg City Hall in City Hall Room 100. The meetings begin at 5:30 p.m.

- Tuesday, January 9, 2024
- Tuesday, January 16, 2024
- Friday, January 19, 2024
- Tuesday, January 23, 2024
- Tuesday, January 30, 2024
- Tuesday, February 06, 2024

All meeting are held in City Hall Room 100, starting at 5:30 pm. The purpose of these meetings is to evaluate and offer feedback on the community benefits plan for the Historic Gas Plant Redevelopment.

Current Project in Review

- Historic Gas Plant Redevelopment
- Community Benefits Impact Report for the Historic Gas Plant Redevelopment

What are the responsibilities of a CBAC member?

The CBAC consists of two groups of appointees: Standing CBAC Members and ad hoc CBAC members.

The Standing CBAC Members' duties include:

- Provide advice to the City on the CBA Program, including how best to measure community impact
- Provide advice to the City on community and neighborhood engagement
- Provide advice to the City regarding growth and development
- For specific development projects, provide the duties listed below for Ad Hoc CBAC Members
- Serve as a Standing CBAC Member for three years

The ad hoc CBAC Members' duties, with the Standing CBAC Members, include:

- Convene meetings in the neighborhoods affected by the development project to solicit input that will help guide the creation of Community Benefits Agreements
- Provide recommendations to City Council on Community Benefits Agreements that are based on project impact reports and neighborhood meetings
- Serve as an ad hoc CBAC Member until the specific project is approved by City Council or withdrawn

The CBA process involves at least four meetings when reviewing a project, twice in the neighborhood(s) most affected by the project to hear community input and twice to recommend preliminary and final community benefits packages to City Council for approval.

Vacancies

- 0 Current Vacancies
- 0 Terms Expired

5/7/24, 5:12 PM
Size 4 Members

Term Length 3.0


St. Petersburg

Term Limit 2.0

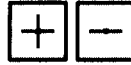
Section III. Item #3.



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Project Update

After a thorough vetting process by the Community Benefits Advisory Council (CBAC) as part of the Community Benefits Agreement (CBA) process, and negotiations with developers, Mayor Kenneth T. Welch has determined the TPA/Moffitt project does not provide sufficient affordable housing and is not selecting them for development of property located on the 800 block of 1st Ave. South.

Please read more about the decision [here](#).

Project Overview

The first project of the [Community Benefits Agreement program](#) is located on a 4.59-acre site at 800 1st Ave. S. in downtown St. Pete, sought to be developed by the TPA Group in conjunction with Moffitt Cancer Center along with UPC Insurance (the "Project").

Proposal Details

The Project proposal called for the development of a mixed-use project that would include a state-of-the-art outpatient cancer care facility, a mixed-use modern multi-family residential tower with a workforce housing component, activated ground floor retail, a public-access parking garage, and the retention and future expansion site of the United Insurance headquarters.

CBAC Ad Hoc Members

For specific CBA projects, four ad hoc members are selected as-needed and join standing members to comprise a full CBAC. Ad hoc members were chosen from residents within one mile of the project location. The Mayor and City Council each appointed two ad hoc members, as needed. Additionally, one City Council member was selected by their peers, as needed, as an ad hoc member of the CBAC for each project. Ad hoc members served until the project is approved by City Council or withdrawn.

Learn more about the committee and view agendas, packets and minutes [here](#).

CBA Project Timeline

- November 2021: TPA submitted an unsolicited proposal, which was approved to move forward by the prior administration
- February 2022: TPA project was identified as a CBA project. The land was appraised at \$21.1 million and TPA offered \$5 million for the land to develop the project. TPA's investment of \$19.1 million in the project made the project a Tier 2 CBA project.

- May 13, 2022: An initial CBA community input meeting was held. The TPA Presentation found [here](#). Community input called for an increase to the proposed percentage of affordable and workforce housing in the project.
- June 17, 2022: The CBAC met to discuss the proposed benefits of the project and provide recommendations to TPA, including to increase the percentage of affordable housing.
- August 1, 2022: The CBAC met to make recommendation regarding proposed project benefits. The TPA presentation can be found here (link). Changes in proposed benefits through the CBA process can be found here (link). The CBAC voted unanimously to request Mayor Welch negotiate an increase in affordable and workforce housing on the project. The CBAC voted 5-1 to support other proposed benefits within the project.
- August 10, 2022: Mayor Welch held negotiations with TPA to increase the percentage of affordable and workforce housing, resulting in no change to the final proposed 17.5% of affordable housing inclusion among total residential units (400.)
- August 12, 2022: Mayor Welch determined the TPA project does not provide sufficient community benefit, specifically related to affordable housing, and is not selecting the project to proceed. Read Mayor Welch's press release [here](#).

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ORDINANCE NO. 2024-XXXX

**AN ORDINANCE OF THE TOWN OF EATONVILLE, FLORIDA,
ADOPTING A COMMUNITY BENEFITS AGREEMENT ORDINANCE**

Article I: Definitions

Section 1. - Purpose

WHEREAS, this ordinance is enacted to delineate and interpret the terms and stipulations pertinent to the Community Benefits Agreement (CBA) within the Town of Eatonville, aiming to oversee and execute community benefits within covered projects.

Section 2. - Definitions

WHEREAS, the purpose of this ordinance is to establish a structured process and set forth conditions under which non-profit philanthropic entities and developers engage in planning, development, or provide contributions within the Town of Eatonville; and

WHEREAS, it is intended to ensure that such engagements and contributions are managed in a manner that aligns with the town’s goals for sustainable development, community welfare, and preservation of its cultural heritage; and

WHEREAS, this ordinance mandates that any non-profit philanthropic entities, developers, or organizations entering into agreements with the town shall adhere to the provisions set forth in the Community Benefits Agreement (CBA), aiming to maximize the positive impacts of such engagements on the local community.

Section 1.02 - Definitions

For the purposes of this ordinance, the following terms shall have the corresponding meanings:

Covered Entities: Refers to any developers, non-profit organizations, governmental bodies, or private companies engaged in projects within the Town of Eatonville under a Community Benefits Agreement (CBA).

Community Benefits Agreement (CBA): A legally binding agreement between covered entities and the Town of Eatonville that outlines specific benefits that the developers agree to provide to the community, including commitments to community projects, financial contributions, and participatory planning processes.

Financial Penalties: Monetary fines imposed on covered entities for non-compliance with the terms of the CBA, which may include immediate fines, daily accruing fines, and other financial liabilities as determined by the nature and severity of the breach.

Administrative Penalties: Consequences that may include the suspension or revocation of any approvals, licenses, or permits associated with the project until compliance is restored or permanently, depending on the severity of the non-compliance.

Corrective Action Plan: A plan required from a non-compliant entity detailing the steps to be taken to correct violations of the CBA, including timelines for implementation and measures to prevent future breaches.

Community Restoration Projects: Initiatives that a non-compliant entity may be required to fund or implement as part of remedial actions to repair damage caused by violations of the CBA or to provide additional benefits to the community as compensation.

Oversight Committee (CBAB): Community Benefit Advisory Board. A body comprising members from the Eatonville Community that are appointed by the Town Council, responsible for monitoring the implementation of the CBA, resolving disputes, and ensuring that community benefits are delivered as promised.

Think Tanks: Formally organized groups or committees funded through the CBA that focus on specific areas such as government operations, technology, economic impact, and other relevant fields to support continuous improvement and strategic planning in Eatonville.

Genealogy Center: A facility or program funded under the CBA dedicated to historical archiving and providing resources for residents to research and preserve their heritage.

Emergency Amendments: Modifications to the ordinance that can be expedited due to urgent and unforeseen circumstances, requiring a faster process for approval while still involving necessary reviews by the Oversight Committee and the Town Council.

Section 1.03 - Applicability

All covered entities, as defined herein, seeking to undertake town planning or provide any contributions to the Town of Eatonville, shall enter into a Community Benefits Agreement with the town. This requirement is applicable irrespective of the project's scale or the nature or size of the contribution and is intended to promote transparency, accountability, and ensure that such initiatives have a lasting positive impact on the community.

Section 1.04 - Compliance and Enforcement

The provisions of this CBA shall be enforced by the Town of Eatonville, which shall have the authority to review, approve, monitor, and manage the implementation of the terms of the CBA as entered into with any covered entity. The town shall also establish mechanisms for the reporting, compliance review, and resolution of disputes arising from the CBA.

Section 3. - Severability

WHEREAS, in the event that any section, clause, sentence, or part of this ordinance is deemed invalid or unenforceable, it shall not impact the validity or enforceability of the remaining provisions. In such cases, the invalid part shall be severed, and the rest of the ordinance shall remain in full force and effect unless the purpose of this ordinance is substantially defeated by such invalidity.

Article II: Requirements for Covered Projects

Section 2.01 - Engagement with Local Housing Authority

WHEREAS, covered entities are required to collaborate with the local housing authority to facilitate the inclusion of affordable housing within their development projects, ensuring alignment with the needs and regulations of the Town of Eatonville; and

WHEREAS, such collaborations shall aim to provide housing options that are affordable and accessible to low to moderate-income households, thus contributing to the community's diversity and resilience; and

WHEREAS, the terms of engagement with the local housing authority shall be detailed within the CBA, with an emphasis on setting aside an agreed-upon percentage of revenue or number of units specifically for affordable housing.

Section 2.02 - Community Wealth Building

WHEREAS, it is imperative that covered entities contribute to the long-term generational wealth of Eatonville residents by allocating an agreed-upon amount of revenue to fund local businesses, non-profits, enhance community parks, recreation centers, roads, and other community amenities; and

WHEREAS, these contributions shall be directed towards existing needs, assets and projects within the community, ensuring that they address the most pressing concerns and empower the Eatonville community at large; and

WHEREAS, the CBA shall specify the processes and mechanisms for the allocation of funds, ensuring they are distributed in a manner that promotes polling, needs and asset based planning and equitable community development.

Section 2.03 - Community Engagement and Empowerment

WHEREAS, the covered entities shall engage in a comprehensive community engagement process to be facilitated by a selected local community group, which is dedicated to mobilizing and ensuring the active participation of all key stakeholders in the planning and development process; and

WHEREAS, this process shall involve transparent communication, regular public meetings, efficient marketing initiatives and the incorporation of community feedback into planning decisions, thus embodying the principles of inclusive and democratic development; and

WHEREAS, the CBA shall establish a framework for ongoing engagement, outlining the roles and responsibilities of the Eatonville Stakeholders in coordinating these efforts and acting as a liaison between the community and the developers.

Section 2.04 - Needs & Asset-Based Planning

WHEREAS, covered entities are expected to engage in needs and asset based planning which involves assessing and addressing the current and future needs of the Eatonville community in a manner that promotes sustainable growth and community welfare; and

WHEREAS, the planning process shall involve close collaboration with community stakeholders, including local businesses, non-profits, and residents, to ensure that development activities are responsive to the community's aspirations and challenges,

survey polling must be done efficiently with at least 10% of the registered voting population; and

WHEREAS, the CBA shall include provisions for conducting needs assessments, developing responsive action plans, and implementing projects that have tangible and measurable impacts on the quality of life for Eatonville residents. In the works of needs based planning we proceed with asset based planning.

Section 2.05 - Reporting and Transparency

WHEREAS, to ensure accountability and transparency, covered entities shall provide regular reports on their community engagement activities, the progress of development projects, and the disbursement and impacts of community benefits; and

WHEREAS, these reports shall be made available to the public and reviewed by the Community Benefit Advisory Council and the Town Council, fostering an open and communicative development process.

Article III: Governance and Oversight

Section 3.01 - Establishment of Oversight Committee

WHEREAS, an Oversight Committee is hereby established to ensure compliance with and proper execution of the Community Benefits Agreement (CBA) provisions within covered projects; and

WHEREAS, this committee will play a critical role in monitoring, guiding, and evaluating the implementation of the CBA to ensure that the objectives of community empowerment and sustainable development are met.

Section 3.02 - Composition of the Oversight Committee

WHEREAS, the Oversight Committee shall be composed of five (5) members, each member must be a registered voter and or apart of a community group or organization.

WHEREAS, members of the Oversight Committee shall serve for a term of three (3) years, with the possibility of reappointment for one additional term to ensure continuity and stability in the oversight process.

Section 3.03 - Duties and Responsibilities

WHEREAS, the Oversight Committee is charged with the following duties and responsibilities:

- a)** To monitor the adherence of covered projects to the stipulated CBA requirements, ensuring that all activities are carried out in accordance with the agreed terms and conditions;
- b)** To review and approve annual reports submitted by covered entities, assessing the progress and effectiveness of the community benefits provided;
- c)** To facilitate and resolve any disputes arising from the implementation of the CBA, acting as a mediator between the community and the developers;
- d)** To provide recommendations for modifications or updates to the CBA as necessary, based on observed outcomes and feedback from community stakeholders;
- e)** To hold quarterly meetings to discuss ongoing projects, challenges, and opportunities for improvement in the administration of community benefits;
- f)** To engage with the public through regular updates, public forums, or hearings to ensure transparency and community involvement in the oversight process.

Section 3.04 - Reporting and Accountability

WHEREAS, the Oversight Committee shall prepare an annual report detailing the activities, findings, and recommendations related to the governance of the CBA; and

WHEREAS, this report shall be submitted to the Town Council and made publicly available to ensure that the community is informed about the progress and impacts of the development activities; and

WHEREAS, the Oversight Committee is accountable to the Town Council and, by extension, to the residents of Eatonville, ensuring that its actions reflect the community's best interests and contribute to the overall welfare of the town.

Section 3.05 - Support and Resources

WHEREAS, the Town of Eatonville shall provide necessary administrative and financial support to the Oversight Committee, enabling it to perform its duties effectively and efficiently; and

WHEREAS, such support shall include access to necessary documents, staff assistance, and funding for operational expenses related to the committee's activities.

Article IV: Term and Termination

Section 4.01 - Term of Agreement

WHEREAS, this Community Benefits Agreement (CBA) shall commence upon the effective date of this ordinance and shall remain in effect for a term of thirty (30) years, unless earlier terminated as provided herein; and

WHEREAS, the long term of this agreement is essential to achieve the sustained development and empowerment objectives that the Town of Eatonville and the community stakeholders envision.

Section 4.02 - Conditions for Termination

WHEREAS, this agreement may only be terminated prior to the expiration of the term under the following conditions:

a) Mutual Agreement: The agreement may be terminated at any time by mutual written consent of all parties involved, including the Community Benefit Advisory Board, the Town Council, and the covered entity.

b) Breach of Agreement: In cases where a covered entity is found to be in substantial breach of the agreement's terms and conditions, and fails to cure such breach within a specified cure period following written notification from the Oversight Committee, termination may proceed.

c) Walk Away Clause: Should a covered entity choose to discontinue their engagement in the project and walk away, they must provide a minimum notice of six (6) months and fulfill all outstanding obligations as detailed in the agreement up to the date of termination. This clause is intended to safeguard the community against abrupt withdrawal of committed resources and benefits.

Section 4.03 - Protection of Data and Intellectual Property

WHEREAS, throughout the term of this agreement, various forms of data, intellectual property, and other sensitive information will be generated, which are vital to the Town of Eatonville and its residents; and

WHEREAS, all data, reports, technical information, and intellectual property developed during the course of this agreement shall remain the property of the Town of Eatonville:

a) Confidentiality: All parties agree to maintain the confidentiality of all proprietary information and data shared among them during the term of this agreement, unless disclosure is required by law.

b) Intellectual Property: Any intellectual property developed in the execution of this agreement shall be owned exclusively by the Town of Eatonville. Covered entities must obtain written consent from the Town Council before any such intellectual property can be used for any other purpose outside the scope of this agreement.

c) Data Handling and Protection: Proper data handling and security measures must be implemented by all parties to protect against unauthorized access, disclosure, alteration, or destruction of town data and documents.

Section 4.04 - Post-Termination Obligations

WHEREAS, upon termination of this agreement for any reason, it is required that:

a) Return or Destroy Materials: All confidential materials, documents, and data in the possession of the covered entity must either be returned to the Town of Eatonville or destroyed, as directed by the Town.

b) Settlement of Accounts: All accounts and financial obligations must be settled within ninety (90) days of the termination date.

c) Continuation of Certain Obligations: Notwithstanding the termination, certain obligations under this agreement, which by their nature are intended to survive termination, shall continue in effect. This includes obligations related to indemnification, confidentiality, and intellectual property rights.

Article V: Financial Contributions and Community Engagement

Section 5.01 - Commitment to Financial Contributions

WHEREAS, covered entities are obligated to financially support ongoing town plans that enhance community amenities, and foster economic and social development within Eatonville:

a) Support for Existing Plans: Each covered entity shall contribute financially to all current town plans, particularly those that improve community amenities such as parks, recreational facilities, and community centers.

b) Empowerment of Local Businesses: Financial contributions shall also support initiatives aimed at empowering existing Eatonville businesses and facilitating the establishment of minority-based businesses in the distribution and manufacturing industries.

c) Community Projects and Stakeholders: Funds will be allocated to various community projects that have been identified by community stakeholders as critical to the town's development. This includes, but is not limited to, infrastructural improvements, educational programs, and cultural preservation initiatives.

Section 5.02 - Establishment and Support of Think Tanks and Centers

a) Community Think Tanks: Yearly financial support shall be provided to establish and maintain think tanks focusing on government operations, technology advancements, and economic impacts to ensure that Eatonville remains at the forefront of innovation and effective governance.

b) Financial Center for Seniors: Establish and fund a financial advice and support center dedicated to assisting senior citizens of Eatonville, ensuring they have access to necessary resources for financial stability and health care planning.

c) Recreation and Genealogy Centers: Adequate funding shall be allocated for the maintenance and improvement of existing recreational facilities and the establishment of a genealogy center. This center will focus on historical archiving and provide residents with resources to explore and preserve their heritage.

Section 5.03 - Historical Archiving and Cultural Preservation

a) Funding for Historical Archiving: Commit funds to support the genealogy center in acquiring, maintaining, and providing public access to historical archives that document the town's heritage and the contributions of its residents.

b) Cultural Preservation Programs: Financial contributions should also support programs that preserve and promote the unique cultural heritage of Eatonville, including historical landmarks, local arts, and cultural festivals.

Section 5.04 - Community Engagement Initiatives

a) Funding Community Engagement: Developers are required to allocate funds to facilitate community engagement through workshops, public meetings, and feedback sessions. These initiatives should be designed to gather input from all segments of the community and ensure that development activities align with the residents' needs and aspirations.

b) Mandatory Involvement in Planning Processes: Developers must actively involve the Community Benefit Advisory Board in the planning and development processes to ensure that all projects are carried out with community input and support.

c) Transparency and Reporting: Ensure transparency in how financial contributions are allocated and utilized by requiring detailed annual reports to be submitted to the Town Council and made available to the public. These reports should outline the expenditures, impacts, and benefits derived from these financial contributions.

Article VI: Legal Framework and Amendments

Section 6.01 - Legal Framework

WHEREAS, this ordinance and all associated Community Benefit Agreements (CBA) executed under it shall operate under the legal framework provided by the laws of the State of Florida and the municipal codes of the Town of Eatonville; and

WHEREAS, this ordinance is designed to ensure that all covered projects adhere strictly to the stipulated legal and regulatory standards, promoting transparency, accountability, and equitable development within the community.

Section 6.02 - Amendments to the Ordinance

a) Initiation of Amendments: Amendments to this ordinance can be proposed by any member of the Town Council, the Community Benefit Advisory Board, or by a petition signed by at least ten percent (10%) of the registered voters in the Town of Eatonville, demonstrating the community's interest in reconsidering specific provisions of the ordinance.

b) Review by Governance Committee: Upon receipt of a proposed amendment, the Governance Committee shall review the proposal to determine its potential impact on the community and its alignment with the objectives of the existing Community Benefits Agreement. This review must include a period of public comment and possibly public hearings to gather community input.

c) Approval Process:

- The Governance Committee shall submit their findings and recommendations to the Town Council within sixty (60) days of receiving the amendment proposal.
- Any amendments must be approved by a majority vote of the Governance Committee before being forwarded to the Town Council.
- Following Governance Committee approval, the proposed amendment must receive at least a two-thirds (2/3) majority vote from the Town Council to be enacted.

d) Documentation and Transparency: All approved amendments must be documented and made publicly available within thirty (30) days of their enactment. The documentation shall detail the nature of the amendment, the rationale behind it, and the expected impacts on the community.

e) Effective Date of Amendments: Amendments shall take effect on the first day of the month following their approval, unless specified otherwise in the amendment itself.

Section 6.03 - Restrictions on Amendments

a) Protection of Core Provisions: Core provisions regarding the governance structure, financial obligations of covered entities, and the roles and responsibilities of the Oversight Committee shall not be altered except under extraordinary circumstances that justify such changes. These amendments require not only the usual approval process but also an additional review by an independent legal consultant.

b) Emergency Amendments: In cases where an emergency amendment is necessary to comply with federal, state, or local laws or to protect the public health, safety, or welfare, such amendments may be expedited. However, even in such cases, the amendment must be reviewed and approved by the Governance Committee and the Town Council, though the timeline for review may be shortened.

Article VII: Miscellaneous Provisions

Section 7.01 - Severability

WHEREAS, if any provision of this ordinance, or the application thereof to any person or circumstance, is held invalid, such invalidity shall not affect other provisions or applications of the ordinance which can be given effect without the invalid provision or application, and to this end, the provisions of this ordinance are declared to be severable.

Section 7.02 - Non-Waiver

WHEREAS, the failure of the Town of Eatonville or any of its departments, agencies, or entities to insist upon the strict performance of any provision of this ordinance or to exercise any right based upon the agreement shall not constitute a waiver of any right or remedy and shall not be deemed a waiver of any subsequent breach or default in the performance of any provision.

Section 7.03 - Conflict of Laws

WHEREAS, in the event of a conflict between the provisions of this ordinance and any other existing or future laws, municipal ordinances, or regulations, the provisions that provide the greater protection to the interests of the Town of Eatonville and its residents shall prevail.

Section 7.04 - Integration Clause

WHEREAS, this ordinance and any agreements made under it, along with any expressly incorporated documents, constitute the entire agreement among the parties with respect to the subject matter hereof and supersede all prior agreements, oral or written, and all other communications between the parties relating to the subject matter hereof.

Section 7.05 - References to Other Laws

WHEREAS, references herein to any specific laws, statutes, ordinances, policies, or regulations are deemed to include all amendments, modifications, and successors thereof.

Section 7.06 - Indemnification

WHEREAS, to the extent permitted by law, the covered entities shall indemnify, defend, and hold harmless the Town of Eatonville, its officers, agents, and employees from and against any and all liabilities, claims, damages, losses, demands, lawsuits, costs, and expenses, including attorney fees, arising out of or resulting from the covered entities' performance or breach of the ordinance, except in instances of gross negligence or willful misconduct by the Town of Eatonville.

Section 7.07 - Public Records

WHEREAS, all documents, papers, letters, and other materials made or received by the Town of Eatonville in conjunction with this ordinance shall be subject to the provisions of the Florida Public Records Law, Chapter 119, Florida Statutes.

Section 7.08 - Effective Date

WHEREAS, this ordinance shall take effect immediately upon its passage and adoption by the Town Council of Eatonville, Florida.

WHEREAS, this ordinance shall take effect immediately upon its passage and adoption by the Town Council of Eatonville, Florida.

Article VIII: Execution and Acknowledgment

Section 8.01 - Execution of Agreement

WHEREAS, the proper execution of this ordinance and any Community Benefits Agreements (CBA) under it is crucial for their validity and enforceability; and

WHEREAS, each CBA executed pursuant to this ordinance must be signed by the authorized representatives of the covered entities and the Town of Eatonville, as well as representatives from the Community Benefit Advisory Board to ensure all parties are committed to the terms set forth.

Section 8.02 - Acknowledgment of Terms

a) Mutual Recognition: All parties involved in the execution of the CBA shall mutually acknowledge and agree to the terms and conditions specified within this ordinance and the respective CBA documents.

b) Public Acknowledgment: Upon the signing of any CBA, a formal announcement shall be made to the public, detailing the nature of the agreement, the parties involved, and the benefits expected for the Town of Eatonville and its residents.

Section 8.03 - Record of Execution

WHEREAS, a record of all executed agreements shall be maintained by the Town Clerk of Eatonville and shall be made accessible to the public as stipulated by local transparency and public records laws; and

WHEREAS, these records shall include, but not be limited to, signed copies of the CBAs, documentation of the negotiation process, amendments, and annual reviews related to the agreements.

Section 8.04 - Official Seal

a) Use of Seal: The official seal of the Town of Eatonville shall be affixed to each executed CBA to symbolize the Town's formal ratification and commitment to the agreements.

b) Custodianship: The Town Clerk shall be the custodian of the seal and shall be responsible for its use on official documents related to this ordinance and the CBAs.

Section 8.05 - Legal Review

WHEREAS, prior to the execution of any CBA, the documents shall undergo a thorough legal review by the Town Attorney to ensure that all terms comply with current laws and regulations and safeguard the interests of the Town and its residents.

Section 8.06 - Amendments and Modifications

WHEREAS, any amendments or modifications to the CBAs post-execution must follow the procedure outlined in Article VI of this ordinance, ensuring that all changes are properly documented, reviewed, and approved by the required bodies.

Section 8.07 - Effective Date of Agreements

a) Commencement: The CBAs shall become effective immediately upon the date of their execution unless specified otherwise within the agreement.

b) Duration and Renewal: Each CBA shall specify its term of duration and conditions under which it may be renewed to ensure ongoing benefits to the community and adaptability to changing circumstances.

Article IX: Community First Investment and Participation

Section 9.01 - Mandatory Community Investment

WHEREAS, it is essential that all entities, whether private or governmental, looking to engage in development within the Town of Eatonville contribute to the welfare of the community stakeholders before proceeding with any projects; and

WHEREAS, this mandatory investment includes financial contributions, support of local businesses, and direct involvement in community-driven projects that benefit Eatonville's residents, especially those from historically established families.

Section 9.02 - Community-Driven Planning Process

a) Non-Political Involvement: The planning process for any development or municipal project within Eatonville shall be driven by community groups and

stakeholders without direct political influence to ensure that the projects genuinely reflect and fulfill the community's needs.

b) Native Citizen Participation: Entities must involve Eatonville citizens, particularly those who are one generation and older, in all planning processes. This participation should be structured to allow these citizens to have significant input and decision-making power .

c) Empowerment and Protection Protocols: Develop and implement protocols that ensure every project initiated within Eatonville directly empowers and benefits the community. These protocols shall include measures to protect local interests and heritage against undue external influence and ensure sustainable community development.

Article X: Amendments and Protections

Section 10.01 - Amendment Limitations

a) Strict Amendment Criteria: Amendments to this ordinance, particularly those related to community investment and non-political involvement clauses, shall require a higher threshold of approval, ensuring that no changes can be made without extensive community consultation and a supermajority vote from the Oversight Body.

b) Protection from Repeal: Safeguard these provisions by setting barriers to their repeal or dilution, including mandatory community referendums for any proposed substantial changes.

Section 10.02 - Legal Safeguards

a) Legal Defense Fund: Establish a legal defense fund to protect the ordinance and its enforcement from challenges, ensuring that the community's rights and the integrity of the planning process are upheld.

b) Annual Review: Mandate an annual review of the ordinance's effectiveness and the satisfaction of community involvement standards, with potential for adjustments only if they strengthen community protections and benefits.

Article XI: Negotiation Process and Implementation Timeline

Section 11.01 - Initiation of Negotiation

WHEREAS, to initiate the negotiation of a Community Benefits Agreement (CBA), a proposal must first be submitted to the Town Council, which will include preliminary plans and the intended benefits for the community; and

WHEREAS, upon receipt of the proposal, the Town Council, in conjunction with the Community Benefit Advisory Board, will appoint a negotiation team that includes community representatives, legal advisors, and urban planning experts.

Section 11.02 - Data Collection and Analysis

a) Data Collection Period: The negotiation team will have a period of 60 days from the date of appointment to collect necessary data, including community needs assessments, potential impacts of the proposed project, and economic forecasts.

b) Community Involvement in Data Collection: Ensure that data collection methods include community surveys, public forums, and open discussions to gather comprehensive input from all segments of the town's population.

c) Analysis and Report Preparation: Following data collection, an additional 30 days will be allocated for data analysis and the preparation of a detailed report that outlines the findings and recommendations for the CBA terms.

Section 11.03 - Negotiation of Terms

a) Drafting the Agreement: Based on the analysis report, the negotiation team will draft the CBA, addressing key areas such as financial contributions, community development initiatives, environmental considerations, and specific benefits to the townspeople.

b) Review and Adjustments: This draft will be reviewed in consultation with the covered entity and subject to adjustments based on further negotiations, ensuring that the agreement aligns with both the developer's capabilities and the community's best interests.

Section 11.04 - Community Review and Feedback

a) Public Presentation: The draft CBA will be presented to the public, allowing for a 30-day comment period during which townspeople can provide feedback, suggest changes, or endorse the agreement.

b) Incorporation of Feedback: The negotiation team will review the community feedback and make necessary adjustments to the draft CBA to ensure it reflects the residents' preferences and addresses any concerns raised.

Section 11.05 - Final Approval and Implementation

a) Submission to Town Council: The final version of the CBA, incorporating community feedback, must be submitted to the Town Council for approval within 15 days after the community review period ends.

b) Council Decision: The Town Council will have 30 days to review the final CBA and make a decision. Approval requires a majority vote. If approved, the agreement becomes binding on all parties.

c) Implementation Timeline: The CBA shall specify the timeline for the commencement of the project and the phased implementation of community benefits, ensuring timely delivery and accountability.

Section 11.06 - Continuous Monitoring and Reporting

a) Monitoring: An oversight body, as established under previous articles, shall be responsible for the continuous monitoring of the agreement's implementation.

b) Annual Reporting: The covered entity is required to submit annual reports detailing progress on commitments, challenges encountered, and future plans to ensure ongoing compliance and adjustment to evolving community needs.

Article XII: Penalties for Non-Compliance

Section 12.01 - Establishment of Penalties

WHEREAS, to ensure adherence to the terms of the Community Benefits Agreement and to protect the interests of the Town of Eatonville and its residents, penalties for non-compliance will be established as follows:

Section 12.02 - Financial Penalties

a) Immediate Fines: Covered entities found in violation of any stipulation of the CBA shall be subject to immediate financial penalties. The scale of the fines will be proportionate to the nature and severity of the breach, and designed to compensate for the oversight and enforcement costs incurred by the town, as well as to offset any potential adverse impacts on the community.

b) Daily Fines for Continuing Violations: In cases where non-compliance continues beyond an initial finding of a breach, daily fines may accrue until the violation is rectified. This will ensure that there is a continuous financial incentive to return to compliance swiftly.

Section 12.03 - Administrative Penalties

a) Suspension of Approvals: The town may suspend any ongoing approvals or permits related to the project until compliance is restored. This suspension will serve as a deterrent against non-compliance and ensure that no further progress is made on the project while it remains in violation of its obligations.

b) Revocation of Approvals: In severe cases of non-compliance, or when a pattern of violations is evident, the town reserves the right to revoke all previously granted approvals or permits for the project. This revocation would effectively halt the project, requiring the covered entity to undergo the approval process anew, contingent upon proving its commitment to full compliance.

Section 12.04 - Legal Actions

a) Legal Recourse: The town may pursue legal actions against covered entities for breaches that cause significant harm to the community or when financial or administrative penalties are insufficient to remedy the situation. Legal actions may include seeking injunctive relief to stop certain activities, or lawsuits to recover damages and remediation costs.

b) Contractual Remedies: The CBA will include specific contractual remedies that can be invoked in the event of non-compliance, including but not limited to, the right to demand specific performance of contractual obligations or to seek remedies for breaches that impact the town or its residents.

Section 12.05 - Remedial Actions

a) Corrective Plans: In addition to imposing penalties, the town may require the entity found in non-compliance to submit and implement a corrective action plan. This plan must outline the steps the entity will take to return to compliance, the timeline for implementing these measures, and strategies to prevent future violations.

b) Community Restoration: If a violation has led to adverse effects on the community, the covered entity may be required to fund or directly implement community restoration projects as part of its corrective actions.

Section 12.06 - Publication of Violations

a) Transparency: All findings of non-compliance and the corresponding penalties imposed will be made public through the town's official communication channels. This transparency aims to inform the community about enforcement actions and deter potential violations by increasing public awareness of the consequences.

Article XIII: Rent Control Measures

Section 13.01 - Purpose and Intent

WHEREAS, to preserve the affordability of housing in the Town of Eatonville and to prevent the displacement of long-term residents due to rising rental costs, the Town Council hereby enacts these rent control measures; and

WHEREAS, these measures are intended to work in conjunction with the local housing authority to regulate rent increases within the town, ensuring that housing remains affordable for all residents.

Section 13.02 - Definitions

a) **Controlled Rental Units:** Refers to housing units within the Town of Eatonville that are subject to the provisions of this rent control ordinance.

b) **Base Rent:** The rent amount charged at the time this ordinance becomes effective, which shall serve as the baseline for calculating future rent increases.

c) **Allowable Rent Increase:** The maximum percentage by which rent can be increased annually, as determined by this ordinance.

Section 13.03 - Applicability

This ordinance applies to all rental units in the Town of Eatonville, except for:

a) Newly constructed units that are less than 15 years old.

b) Units that are owned and operated by the government or its agencies.

Section 13.04 - Rent Increase Limitations

a) **Annual Increase Limit:** Landlords shall not increase rent for controlled rental units by more than 3% of the base rent or the percentage increase in the Consumer Price Index (CPI), whichever is lower, per annum.

b) **Hardship Allowance:** Landlords may apply for permission to increase rent beyond the set limits due to proven financial hardships or significant improvements made to the rental units that justify such an increase.

Section 13.05 - Collaboration with Local Housing Authority

a) **Regulatory Oversight:** The local housing authority shall be responsible for overseeing the implementation of rent control measures, including the registration of all controlled rental units, monitoring rent increases, and enforcing compliance.

b) **Tenant and Landlord Education:** The local housing authority will also provide educational resources to both tenants and landlords about their rights and responsibilities under this rent control ordinance.

Section 13.06 - Dispute Resolution

a) **Rent Control Board:** Establish a Rent Control Board, comprised of representatives from the local housing authority, landlords, and tenants, to hear and resolve disputes related to rent increases and other related issues.

b) Appeals Process: Landlords or tenants who disagree with the decisions of the Rent Control Board may appeal to the Town Council for a final decision.

Section 13.07 - Reporting and Review

a) Annual Report: The local housing authority shall submit an annual report to the Town Council detailing the administration of rent control measures, including trends in rent increases, disputes resolved, and recommendations for any adjustments to the ordinance.

b) Periodic Review: The Town Council shall review the effectiveness of the rent control ordinance every five years to determine if adjustments are needed based on housing market conditions and economic factors.

The SB6 Coalition and Sagamore Development Company
Community Benefits Agreement and Memorandum of Understanding

This **COMMUNITY BENEFITS AGREEMENT AND MEMORANDUM OF UNDERSTANDING** (“CBA”) is entered into this 14th day of July 2016 (the “Effective Date”), by and between SAGAMORE DEVELOPMENT COMPANY, LLC, a Maryland limited liability company (“**Developer**”) and the SB6 COALITION (“**SB6**”), acting on behalf of, and for the benefit of, itself and the entities (identified as the “**Organizations**”) listed on Attachment B (the Organizations and SB6 are collectively, the “**Community Representatives**”). SB6 is a partnership comprised of community representatives from Brooklyn, Cherry Hill, Curtis Bay, Lakeland, Mt. Winans, and Westport (the “**Communities**”). Developer and SB6 are sometimes collectively referred to as the “**Parties.**”

RECITALS

- A. Over the next thirty (30) years, the Developer, either directly or through affiliates, is or will be developing a substantial portion of the land located on the South Baltimore peninsula, south of I-95, into a transformative, inclusive and world-class mixed-use, waterfront project, that is proposed to include more than 12 million square feet of building development (the “**New Port Covington**”).
- B. The Developer has acknowledged its intent to collaborate with the Communities, and in consideration, the community leaders of the Organizations representing the Communities formed a partnership, SB6, to negotiate and implement this CBA, which describes the manner in which the Communities will share in the economic, educational, cultural, environmental, and social benefits associated with the New Port Covington and mitigate or prevent any adverse direct, indirect and cumulative impacts of the project on the Communities.
- C. Development of the New Port Covington cannot occur without the creation of the necessary infrastructure, such as streets, roads, sidewalks, water lines, sewerage systems, parks, and conduits for communication (collectively, “**Project Infrastructure**”). The cost of the Infrastructure is estimated at \$1.6 billion, a portion of which will be funded through the use of tax increment financing (“**TIF**”) that will be funded by the future incremental tax revenues generated by the New Port Covington.
- D. The Parties acknowledge that time is of the essence; however, they desire to be thoughtful and deliberate in devising the model, methodology, and/or structure through which the spirit and the letter of the CBA will be carried out. To that end, the Parties set forth in this CBA the framework, principles, and methods of discourse they will use to ensure the implementation of the provisions set forth in this CBA.

AGREEMENT

NOW THEREFORE, SB6 and the Developer incorporate the recitals into this agreement and for and in consideration of mutual promises herein contained agree as follows:

1. **Collaborative.** The Parties agree to form a strong, working coalition for a period of at least thirty (30) years from date of the first TIF bond issuance, which TIF bond issuance shall be a condition precedent to any obligations of Developer hereunder. Said coalition may take a variety of actions in a structure to be created, including but not limited to: (a) the Developer being an advocate with the Communities for city services, business and cultural attractions, and funding from public and private entities; (b) the Developer providing technical assistance on a variety of housing and economic development issues; (c) funding of revitalization of the Communities; and (d) the Communities advocating for the approval of the passage of the master plan and the TIF for New Port Covington. The form of the coalition relative to particular needs identified by SB6 will be decided by the Parties by consensus whenever possible. In any event, the Parties desire for the coalition to be responsive to the evolving community needs and this CBA is in no way meant to limit the Parties' ability to amend a particular form of action as the needs of the Communities shift over time. This CBA and the terms of understanding articulated herein will therefore serve as the basis for such amendments over the course of the term of this CBA. The Parties upon request of the members of the New Entity shall commission and finalize studies of the development of New Port Covington and the Communities to ascertain both the prior impacts and reasonably projected impacts of the actions taken by the coalition to date, as well as actions needed to address those impacts, as requested by the members of the New Entity. The Parties shall work collaboratively to mitigate any negative impacts that are determined to have arisen as a result of the development of the New Port Covington.

2. **New Entity.** The Developer will work with the Communities to create a community development entity (e.g. foundation, community development corporation, or designated fund) (the "**New Entity**") to ensure implementation of this CBA and ongoing work in all of the Communities. The Parties agree to work collaboratively and in good faith to research and evaluate and thereby reach a consensus on the best model to be utilized to carry out the Parties' intent to ensure that the Communities will share in the economic, educational, cultural, environmental, and social benefits associated with the New Port Covington.
 - a. Specifically, the Parties will use an evidence-based approach to determine the appropriate model to be utilized to carry out the Parties' intent. The Parties agree to work collaboratively to identify the location, structure and operating approach of said entity that will best serve the spirit and the letter of the CBA and the Communities.
 - b. The New Entity will have the direct involvement of both the Developer and SB6 in its governance structure and operations.
 - c. The Parties agree to work in good faith to create the New Entity as soon as practicable to ensure that the spirit of this CBA is accomplished.

3. **Needs.** SB6 has identified examples of one-time, on-going, and long-term needs of the Communities, set forth in **Attachment A**, to illustrate the sort of matters it seeks to be addressed by the New Entity (the "**SB6 Priorities**"). The Developer and SB6 intend to

be flexible in their approach to ensuring that the intent of the Parties is accomplished. To that end, the Parties agree to work in good faith to structure the New Entity so as to address both the identified needs and such further needs of the Communities as are identified over time. The Parties are committed to working together to prioritize and refine those needs over the span of the development of the New Port Covington.

4. **Long-Term Funding**. The Developer agrees that as part of the process of funding the New Entity, it will be necessary to identify a renewable and sustainable funding stream, which is planned to include funds from a variety of sources that will grow with the success of the New Port Covington. The Parties acknowledge the importance of assuring the adequate funding of the New Entity to enable the New Entity to carry out the mission and vision for community benefits that the Parties devise. To that end, Developer expects to implement the following mechanisms to establish a renewable and sustainable funding stream, the intent being that the Communities will realize an increasing benefit as New Port Covington achieves success:
 - a. The Developer intends to require that each for-profit user of commercial space (such as retail or office uses) in New Port Covington be required to pay an annual amount into a designated fund. Developer expects to utilize an initial annual charge of \$0.25 per net square foot. Although such amounts will begin at a relatively low level, by the completion of the projected first phase of the New Port Covington around 2021, the annual revenues could potentially exceed \$400,000 per year, and by 2029, could potentially exceed \$1 million per year. The Parties agree to evaluate the economic feasibility of the annual per net square foot charge at the time of each bond issuance and assess whether the annual charge shall be increased or decreased, but in any event the annual charge shall be no no less than \$0.15 per net square foot. The Parties further agree that the term, “economic feasibility,” will be defined in mutually agreeable language as part of the New Entity’s organizational documents, e.g., operating agreement or as part of a separate agreement with Developer.
 - b. Following the execution of this CBA,, the Developer intends to impose a transfer fee on each sale of real property controlled by Developer in New Port Covington in an amount equivalent to 10% of the amount Baltimore City currently charges as transfer taxes. The Developer will deposit into a designated fund administered by the New Entity the Community’s share of a transfer fee that will be imposed on each sale of real property in New Port Covington.
 - c. Developer agrees that at least 66^{2/3} % of the revenues generated through the above arrangements will be devoted to the designated fund administered by the New Entity, which should generate in excess of \$19,000,000 over 20 years to the New Entity.
5. **Baseline Funding and Additional Funding**. The Developer agrees to provide the baseline funding to support the operation of the New Entity in the amount of \$10,000,000 (the “Baseline Funding”). During the first three years from the effective date of the approval of the TIF legislation by the Baltimore City Council, the Developer

commits to funding the first \$5,000,000 of the Baseline Funding. The first \$1,000,000 will be disbursed upon TIF approval, notwithstanding the condition set forth in Section 1. Subsequent to the initial TIF bond issuance, \$2,000,000 per year will be disbursed on the anniversary of TIF approval in Years Two and Three. During Years Four and Five from the effective date of TIF approval, the Developer will equally disburse the remaining \$5,000,000 of the Baseline Funding. The Parties commit to working collaboratively through the New Entity to achieve a joint goal of raising an additional \$10,000,000 (the "Additional Funding") for the New Entity over the course of the subsequent five years.

- a. **Attachment C** lists additional commitments (the "Additional Baseline Community Commitments") to be implemented by the Developer, describing the specific types of initiatives to be focused upon for the benefit of the identified Community Representatives, and in the amounts described therein.

6. **Representations and Warranties.** Each of the Parties represents and warrants that:

- (a) it has authority to enter into this CBA and carry out the actions and responsibilities contemplated hereunder; and
- (b) the execution, delivery, and performance by such party of this CBA has been duly authorized by all necessary corporate or other action, and this CBA is valid and binding upon, and enforceable against the party in accordance with the applicable terms hereof.

7. **Notice.** Any and all notices, requests, demands or other communications hereunder shall be deemed to have been duly given if in writing and if transmitted by hand delivery with receipt therefor, by electronic mail or facsimile delivery (with confirmation by hard copy), by overnight courier, or by registered or certified mail, return receipt requested, first class postage prepaid addressed as follows (or to such new address as the addressee of such a communication may have notified the sender thereof) (notices shall be deemed delivered and effective upon actual receipt as evidenced by written receipt or third party documentation, such as express delivery or electronic mail or facsimile confirmation, or upon refusal of receipt):

- (a) If to Developer:

Sagamore Development Company, LLC
1000 Key Highway East
Baltimore, Maryland 21230
Attn: Marc Weller

With a copy to:

Ballard Spahr LLP
300 E. Lombard Street, Suite 1800
Baltimore, MD 21202

Attn: Mark Pollak

(b) If to SB6:

Lawyers' Committee for Civil Rights Under Law
1401 New York Avenue, Suite 400
Washington, DC 20005
Attn: Diane Glauber

8. **Governing Law.** This CBA and the rights and obligations of the parties hereunder shall be governed by, and construed, interpreted and enforced in all respects in accordance with the laws of the State of Maryland.
9. **Entire Agreement.** This CBA contains the entire agreement of the parties with respect to the subject matter hereof, and any representation, inducement, promise or understanding between the parties with respect to the subject matter of this CBA that is not embodied herein shall be null and void and of no further force or effect.
10. **Amendment.** This CBA may not be modified, amended or otherwise altered except by written amendment executed by the Parties.
11. **Recording.** This CBA shall not be recorded among the land records of Baltimore City.
12. **Binding Effect.** This CBA shall be binding upon, and inure solely to the benefit of, the Parties hereto and their respective successors and their assigns, and is not intended to and does not confer rights to or impose obligations on any third parties.

[Signatures Continue on Next Page]

IN WITNESS WHEREOF, the undersigned has executed this CBA as of the day and year first above written.

DEVELOPER:

SAGAMORE DEVELOPMENT COMPANY, LLC, a Maryland limited liability company

By:  _____

Name: Marc Weller

Title: President

[Signatures Continue on Next Page]

IN WITNESS WHEREOF, the undersigned has executed this CBA as of the day and year first above written, acting on behalf of, and for the benefit of, itself and the Organizations.

SB-6 COALITION

By: *Diane Ingram*

Name: Diane Ingram

Title: Corporation of C.oncerned Citizens for a Better Brooklyn

By: *Michael Middleton*

Name: Michael Middleton

Title: Cherry Hill Community Coalition

By: *Andrew P. Dize*

Name: Andrew P. Dize

Title: The Community of Curtis Bay Association. Inc

By: *Pamela Oliver*

Name: Pamela Oliver

Title: Lakeland Community Association Partnership

By: *Ann Robinson*

Name: Ann Robinson

Title: Mt. Winans Community Association

By: *James H. Alston*

Name: James Alston

Title: Westport Community Economic Development Corporation

ATTACHMENT A

<u>One time</u>	<u>Ongoing</u>	<u>Long Term</u>
Rec Center/community center Athletic fields Transportation plan Park and playground amenities/upgrades Greening – park plans Business incubator Swimming Pool Library Grocery store Police Substation South Paca Street Park Beautification of streets Lighting in streets and parks Infrastructure assessment Employment connection center Computers/laptops Family health center enhancements Cherry Hill Eagles	Youth Employment/Training Adult Employment/Training Educational investment fund (in school) Community shuttle/better transit Cemetery maintenance National night out against crime (annual event funding) Safe Streets program funding Community events support Development input CTE trades education funding After-school & summer programming Virtual supermarket funding Expansion of main streets programs Business recruitment for Main Streets Baltimore Guardian Angels Annual Prayer Walks BCPD Southern District Collaboration Unit	Funding for youth development Recreational programming funding and Technical Assistance Technical Assistance on housing development/senior housing Affordable housing trust Community land trusts Capacity-building of local Community Development Corporations/creation of new Community Development Corporation Employment center – trading, recruitment Funding for school health Traffic infrastructure assessment and mitigation strategies Live where you work funds Hanover Street becomes a Main Street program member

ATTACHMENT B
COMMUNITY ORGANIZATIONS

Corporation of Concerned Citizens for a Better Brooklyn

Cherry Hill Community Coalition

The Community of Curtis Bay Association, Inc.

Lakeland Community Association Partnership

Mt. Winans Community Association

Westport Neighborhood Association

ATTACHMENT C

ADDITIONAL BASELINE COMMUNITY COMMITMENTS

SB6	Amount	Description
Mobile Health	\$150,000	Mobile Community Clinic
College Scholarships	\$500,000	Scholarships
Total	\$650,000	

RESOLUTION 2024-20 (DRAFT)

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF EATONVILLE, FLORIDA, AUTHORIZING THE APPOINTMENT OF MEMBERS TO SERVE ON THE TOWN'S COMMUNITY BENEFIT AGREEMENT TASK FORCE TO REVIEW THE COMMUNITY DEVELOPMENT BLOCK GRANT APPLICATION PROVIDING FOR CONFLICTS, SEVERABILITY, AND EFFECTIVE DATE.

WHEREAS, the Town of Eatonville Town Council intends to establish a structured process and set forth conditions under which non-profit philanthropic entities and developers engage in planning, development, or provide contributions within the Town of Eatonville; and; and

WHEREAS, the Town of Eatonville Town Council desires to establish a Community Benefit Agreement Advisory Taskforce Team; and

WHEREAS, the purpose of the Community Benefit Agreement Advisory Taskforce Team is to ensure that such engagements and contributions are managed in a manner that aligns with the Town of Eatonville’s goals for sustainable development, community welfare, and preservation of its cultural heritage; and

WHEREAS, the Task Force Team recommended for consideration is of the following:

- LaVonda Wilder, Task Force Chairperson, Nicole Oriole, HELP CDC, Manning Vivar, President Hostdime, RC Clay Spears, Signal Hill Management LLC, Julian Johnson, 1887First Task Force Co-Chairperson, A teen from the community (To be named), Harry Johnson, Eatonville small business owner, Young adult from the community 20's-30's (To be named), Eddie Cole Former Mayor, Anthony Grant, Former Mayor, Carol Bufford, The Omni One Group.

NOW THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF EATONVILLE as follows:

SECTION ONE: The Town Council authorizes the appointment of the below task force team to serve as members of the Community Benefit Agreement Advisory Taskforce Team.

- LaVonda Wilder, Task Force Chairperson
- Julian Johnson, 1887First Task Force Co-Chairperson
- Nicole Oriole, HELP CDC
- Manning Vivar, President Hostdime
- RC Clay Spears, Signal Hill Management LLC,
- Harry Johnson, Eatonville Small business owner
- Eddie Cole Former Mayor
- Anthony Grant, Former Mayor
- Carol Bufford, The Omni One Group.

SECTION TWO: The Town Council identifies and appoints the below individuals to serve as members of the Community Benefit Agreement Advisory Taskforce Team.

A Teen from the community _____(To be named),

Young adult from the community _____(To be named)

SECTION THREE: That the Community Benefit Agreement Advisory Taskforce Team shall meet to provide guidance and recommendations to the Town Council as to whether the application should be submitted for funding.

SECTION FOUR: CONFLICTS: All Resolution or parts of Resolutions in conflict with any other Resolution or any of the provisions of this Resolution are hereby repealed.

SECTION FIVE: SEVERABILITY: If any section or portion of a section of this Resolution is found to be invalid, unlawful, or unconstitutional it shall not be held to invalidate or impair the validity, force or effect of any other section or part of this Resolution.

SECTION SIX: EFFECTIVE DATE: This Resolution shall become effective immediately upon its passage and adoption.

PASSED AND ADOPTED this 21ST day of MAY 2024.

Angie Gardner, Mayor

ATTEST:

Veronica King, Town Clerk



HISTORIC TOWN OF EATONVILLE, FLORIDA

TOWN COUNCIL WORKSHOP

MAY 21, 2024, AT 06:30 PM

Cover Sheet

****NOTE**** Please do not change the formatting of this document (font style, size, paragraph spacing etc.)

ITEM TITLE: Discussion of Ordinance on Camping on Public Property and Right Of Way in the Town of Eatonville (**Legislative**)

TOWN COUNCIL ACTION:

PROCLAMATIONS, AWARDS, AND PRESENTATIONS		Department: LEGISLATIVE
INTRODUCTIONS		Exhibits: <ul style="list-style-type: none">Ordinance on Camping on Public Property and ROW.
CONSENT AGENDA		
COUNCIL DISCUSSION	YES	
ADMINISTRATIVE		

REQUEST: To discuss and approve Ordinances on Camping on Public Property and Right of Way within the Town of Eatonville.

SUMMARY: The Town of Eatonville has recently been experiencing an increase in misuse and camping on public property and right of way. Town Council recognizes the needs of individuals experiencing homelessness and is committed to exploring alternative solutions, such as shelters and social service programs, with community partners. This Ordinance is not intended to criminalize individuals who are unhoused but rather to ensure the health, safety, and welfare of the entire community by maintaining public spaces that are safe and sanitary for everyone. It is important to provide critical resources in understanding the needs and characteristics of people experiencing homelessness in the Town of Eatonville. An ordinance will help our community with addressing occurrences related to instability among individuals camping on Public Property and Right of Way within the Town.

RECOMMENDATION: Recommend Town Council discuss Ordinances on Camping on Public Property and Right of Way within the Town of Eatonville.

FISCAL & EFFICIENCY DATA: N/A

ORDINANCE NO.

AN ORDINANCE OF THE TOWN OF EATONVILLE, FLORIDA, RELATING TO THE PROHIBITION OF CERTAIN CONDUCT IN PUBLIC PLACES; AMENDING CHAPTER 26, “MISCELLANEOUS OFFENSES”, OF THE TOWN CODE TO PROHIBIT UNAUTHORIZED CAMPING ON PUBLIC PROPERTY AND RIGHTS-OF-WAY, PUBLIC NUDITY AND INDECENT EXPOSURE, AND PUBLIC URINATION AND DEFECATION; PROVIDING FOR ENFORCEMENT PROCEDURES AND PENALTIES; PROVIDING FOR CODIFICATION, CONFLICTS, SEVERABILITY, AND AN EFFECTIVE DATE.

WHEREAS, public property and rights-of-way are intended for the use and enjoyment of all members of the public, and it is essential to maintain these areas in a safe and sanitary condition; and

WHEREAS, sleeping or camping in public spaces that are neither intended nor designed for temporary human habitation creates unsafe conditions for both those engaging in such activities and for other members of the community, including accumulation of hazardous and bio-hazardous waste, exposure to the elements, and obstructed access for pedestrians and emergency vehicles; and

WHEREAS, public nudity and indecent exposure can be offensive and disruptive to the enjoyment of public spaces by individuals in the community, and maintaining a standard of public decency is necessary to promote a respectful and orderly society; and

WHEREAS, public urination and defecation create unsanitary conditions that pose health and safety risks to the community; and

WHEREAS, the Town Council recognizes the needs of individuals experiencing homelessness and is committed to exploring alternative solutions, such as shelters and social service programs, with community partners; and

WHEREAS, this Ordinance is not intended to criminalize individuals who are unhoused but rather to ensure the health, safety, and welfare of the entire community by maintaining public spaces that are safe and sanitary for everyone; and

WHEREAS, the Town Council finds that the adoption of this Ordinance is necessary for the preservation of the public peace, health, safety, and welfare of the citizens of Eatonville, Florida.

NOW, THEREFORE, BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF EATONVILLE, FLORIDA, AS FOLLOWS:

[Words in ~~strike-through~~ type are deletions; words in underline type are additions; asterisks (* * * *) indicate an omission from the existing text which is intended to remain unchanged.]

SECTION 1. Recitals. The recitals set forth above are hereby adopted as the legislative findings of the Town Council of the Town of Eatonville, Florida.

SECTION 2. Amendment. Chapter 26, “Miscellaneous Offenses”, of the Town Code is hereby amended as follows:

ARTICLE I. - IN GENERAL

* * * *

Sec. 26-3. – Unlawful camping on public property.

(a) *Prohibition.*

- (1) It shall be unlawful for any person to erect, construct, maintain, or use any tent, lean-to, or other temporary shelter customarily used for camping purposes on any public property or right-of-way within the territorial limits of the Town except in an area approved by the Town for such purpose.
- (2) It shall be unlawful for any person to park, leave, or store a motor vehicle, recreational vehicle, tractor trailer, or other similar conveyance or recreational vehicle on any public property or right-of-way within the territorial limits of the Town during nighttime hours for use as sleeping accommodations or for camping, except in an area approved by the Town for such purpose.
- (3) It shall be unlawful for any person to sleep out-of-doors on any public property or right-of-way except as otherwise authorized by the Town by law or permit.

(b) *Assistance; enforcement.* No person may be cited or arrested for a violation of this section before a reasonable attempt has been made to ascertain whether the person is in need of shelter or housing assistance services. If such assistance is needed, the enforcing Town official or officer shall direct the person to a lawful alternative place to camp and afford the person an opportunity to relocate. Any person who fails or refuses to relocate shall be guilty of a violation of this section unless the enforcing official or officer determines that lawful alternatives, such as designated campsites and/or shelters, are at maximum capacity and are thus unavailable for relocation.

(c) *Penalty.* Any person violating the provisions of this section commits a violation of the Town’s municipal Code and commits a misdemeanor of the second degree, punishable by up to sixty (60) days incarceration and up to a \$500 fine.

Sec. 26-4. – Nudity and indecent exposure prohibited in public.(a) Definitions.

- (1) Nude means to display or expose the male or female genitals, pubic area, or the female breast with no covering or less than a fully opaque covering. A female breast is considered exposed if any part of the areola and nipple is not covered by an opaque covering. For purposes of this definition, body paint, body dye, a tattoo, latex, or any similar substances shall not be considered an "opaque covering."
- (2) Public place means any location open to the common and general use, participation, or enjoyment of the public where the public is present or likely to be present, or any location where the public is invited and is free to go upon special or implied invitation, or any location where a person may reasonably be expected to be observed by the public. A public place includes, but is not limited to, a street, sidewalk, park, business, or commercial establishment.

(b) Exposure prohibited. It shall be unlawful for any person to appear nude under any one or more of the following conditions:

- (1) While in or at any public place.
- (2) While serving any food or beverage in or at any place where the public is admitted or, in the case of a private club, where the members are admitted.

(c) Procuring or assisting violation. It shall be unlawful for any person to procure, employ, counsel, or aid or assist any person in violating any of the provisions of this section.(d) Penalty. Any person violating the provisions of this section commits a violation of the Town's municipal Code and commits a misdemeanor of the second degree, punishable by up to sixty (60) days incarceration and up to a \$500 fine.(e) Exceptions. This section shall not apply to the following:

- (1) Nudity during breastfeeding of a child.
- (2) Nudity in portions of public places specifically set aside for privacy, such as restrooms, locker rooms, motel rooms, and hotel rooms.

Sec. 26-5. – Urinating or defecating in public.(a) Prohibition. It shall be unlawful for any person to urinate or defecate in a public place other than one designated for that particular purpose.

(b) Penalty. Any person violating the provisions of this section commits a violation of the Town’s municipal Code and commits a misdemeanor of the second degree, punishable by up to sixty (60) days incarceration and up to a \$500 fine.

SECTION 3. Codification. It is the intent of the Town Council that the provisions of this Ordinance shall be codified. The codifier is granted broad and liberal authority in codifying the provision of this Ordinance.

SECTION 4. Conflicts. All Town ordinances or parts thereof in conflict with this Ordinance are, to the extent of such conflict, repealed.

SECTION 5. Severability. If any section, sentence, phrase, word, or portion of this Ordinance is determined to be invalid, unenforceable, unlawful, or unconstitutional by a court of competent jurisdiction, then all remaining provisions of this Ordinance shall remain in full force and effect.

SECTION 6. Effective Date. This Ordinance shall become effective upon its adoption.

Upon motion duly made and carried, the foregoing Ordinance was approved upon its first reading on _____, 2024.

Upon motion duly made and carried, the foregoing Ordinance was approved upon its second reading on _____, 2024.

TOWN OF EATONVILLE

Attest:

Angie Gardner, Mayor

Veronica King, Town Clerk

Approved as to form:

Clifford B. Shepard, Town Attorney