Public Works Monthly Executive Summary September 2021



Street Department

During the month of September, the Street Department has been busy as beavers repairing potholes and sinkholes throughout Cove Life. We had **3.09** inches of rain this month.

- Clean storm drains City Wide.
- Prepared the Park for Food Truck Friday September 10th.
- 4 Silt fence inspections.
- Preparation for Soul Food Festival
- Street Sign Maintenance.
- Classroom Renovation.

The Street Department completed 26 additional work orders that pertained to street and stormwater issues.

Parks Department

During the month of September, the Parks Department mowed, weed-eated, and edged all areas one time including the DOT rights-of-way, City Parks, and FCT property. Additional activities included:

- Monthly playground equipment inspection and necessary repairs.
- Clean storm drains City Wide.
- Cleaned the pool 4 times.
- Preparation for Soul Food Festival.
- Prepared the Park for Food Truck Friday September 10th.

The Parks Department completed 2 additional work orders outside of their normal daily work schedules.

Equipment Maintenance

The Equipment Maintenance Shop, as always, works hard to keep the equipment and vehicles going so the city can continue to provide our citizens with the exceptional service they are accustomed to. During the month of September, Danny, John and Donald completed 78 work orders.

Tradesworker

During the month of September 23, work orders were completed. The downstairs of City Hall was painted by a contractor which required constant coordination and many weekend hours by our tradesworker.

Solid Waste Department

Cove Life, Litter Cleanup Program & New Services:

- Picked up everything around the rollout cans including large piles of furniture and trash.
- Picked up as much loose trash, palm fronds, and sticks as possible on the streets, along the R.O.W. and ditches regardless of if it is near a container or not.
- Delivered 2 trash cans and 4 recycle bins to new customers.
- Delivered 2 blue recycle bins to current customers.
- Repaired 2 trash cans.
- Replaced 15 trash cans.

This month, the City collected:

- <u>311.95</u> tons of Class I garbage (8.8% decrease)
- <u>**17.57**</u> tons of recycling (6.7% decrease)
- <u>89.49</u> tons of yard waste (42.4% decrease)
- <u>14.72</u> tons Street Sweepings
- <u>**155.22**</u> tons of wastewater sludge
- <u>25.54</u> tons of white goods and junk

For comparison during September 2020, the City collected:

- <u>338.57</u> tons of Class I garbage
- <u>18.76</u> tons of recycling
- <u>**127.51**</u> tons of yard waste

Water/Wastewater

- W/WW crews/management had personal interaction with several citizens regarding water/sewer issues.
- Contacted all customers on water and irrigation "Highest Users" report that had unusual consumption (not usually on report)
- Staff continues to refine the scope and financials of the consolidated AWWTP, expanded reclaimed water system, wastewater collection system improvements and water system capital improvements to obtain maximum grant potential, optimize loan conditions and minimize impact to customers.
- W/WW/RW Projects;
 - Design of the improvements to the city's wastewater treatment system (all phases) is complete. In order to maximize grant opportunities, the initial construction phase was split into two pieces, for a total of four phases;
 - Phase I is construction of the on-site reclaimed water system (storage tanks, high service pumps, electrical) at the existing Harbor Road Facility, and rehabilitation of Master Lift Stations #2 and #4. This phase went out to bid in January in two parts plant reclaimed water improvements & lift station #2 & #4. Construction was completed in June 2020. The total Phase I cost is \$6,120,600. Staff received \$4,063,425.00 in "Principal Forgiveness" (grant) from FDEP (SRF).
 - Phase II:
 - Construction of the new 1.25 million gallon per day (MGD) advanced wastewater treatment plant (AWWTP) at the Harbor Road site.

- Phase III:
 - A new force main from Lift Station #2 diverting the sewage from the South Plant to Harbor Road (all sewage generated in the City will be treated at the new Harbor Road AWWTP).
 - Decommissioning and "mothballing" of the South Wastewater Treatment Plant. The permit will remain in place and the plant could be re-commissioned at a later date depending on future activities at the Reynolds site.
- Phase IV (future determined by growth) is a second identical 1.25 MGD AWWTP built at the Harbor Road site.
- Phase V (future determined by growth) is a third identical 1.25 MGD AWWTP built at the Harbor Road site.
- Sanitary Sewer Evaluation Survey (SSES) of the Core City wastewater collection system is complete, including Mittauer final report. Staff utilizes this data daily in evaluating collection system repairs and requests for sewer connections.
- Continuing to work with FDOT on utility relocations associated with the First Coast Expressway.
- Updated Water Rate Study **complete**.
- Staff and Mittauer have completed a full review of the future capital needs of the water system. A comprehensive capital improvement program (CIP) has been developed as part of the Water Master Plan. As in the past, the timing of many of these improvements is driven by future activities in Reynolds Industrial Park. The city has received an FDEP – SRF loan for Planning and Engineering of several of the CIP improvements so that as the need for the improvements occur, the City is ahead of the game and can apply very quickly to SRF for actual construction dollars as "shovel-ready" projects. The total design project cost is \$356,800.00, with a \$178,400.00 (50%) principal forgiveness (grant), leaving an actual loan of \$180,100.00.
- Reynolds Water System Improvements: **Completed May 2021** In May 2020 the City awarded construction of the upgrades to the system to General Underground. The system improvements include;
 - New water mains along two primary streets to remedy fire hydrants that are inadequate.
 - New 12" water main crossing under SR 16 to replace aging mains that endanger the integrity of the road. This will eliminate four existing crossings.
 - New water main along Red Bay Road to eliminate existing aging and leaking pipes. In addition will remedy fire hydrants that are inadequate.
 - New water main and sewer force main extension from Reynolds Park to and across the MOBRO complex. This extension is designed to supply water, fire protection & sewer needs to MOBRO and future developments to the east.
- The City has received grants from the State of Florida Hazard Mitigation Grant Program (HMGP) to install auxiliary generators at 17 sewage lift stations, and install generators / raise infrastructure at four additional stations. The grant funds 75% of the improvements. This project is underway.
- Senate Bill 64: In 2021 the Florida Senate approved SB 64, which requires wastewater treatment plants to eliminate surface water discharges by 2035, which has become a significant financial burden to utilities. This requires the city to eliminate effluent discharge from the Harbor Road and South wastewater treatment plants to the St. Johns River. While the city has been implementing reclaimed water projects for several years, there are not enough uses to take all of the city's treated wastewater. Another requirement of the rule is that by 11/1/21 the

city has to submit a plan as to how surface water discharges will be eliminated. This plan is at 90% and will meet the required timeline.

- Continued remediation of malfunctioning or out-of-service hydrants.
- Operated and maintained the Harbor Rd. and South Wastewater Treatment Plants as well as the Harbor Rd. and Reynolds Water Treatment Plants to meet the requirements of Regulatory Agencies.
- Continued to make process control adjustments at the Harbor Rd. and South WWTP in efforts to further lower Total Nitrogen and Total Phosphorus levels being discharged to the St. Johns River.
- Continued landscape maintenance at Water and Wastewater Treatment Facilities as well as lift stations.
- Continued preventative maintenance on all treatment facility generators.
- Completed 4 new services.
- Completed 73 water related work orders.
- Completed 24 sewer related work orders.
- Responded to 129 utilities locate requests.

TOP 10 WATER CUSTOMERS September 2021

Largest (By Consumption)

Rank CONSUMER

- 1 Sheriff's Department
- 2 Garden Highway SE LLC
- 3 Kindred Health
- 4 Governors Creek #436
- 5 Holland Marine INC
- 6 Clay High
- 7 Clay County Court house
- 8 Green Cove Springs Junior High
- 9 A-1 Stone World INC
- 10 Springs Coin Laundry

Largest (By Dollar Amount) CONSUMER

Rank

- 1 Sheriff's Department
- 2 Garden Highway SE LLC
- 3 Kindred Health
- 4 Governors Creek #436
- 5 Clay High
- 6 Clay County Court House
- 7 Green Cove Springs Junior High
- 8 Holland Marine Inc
- 9 Garden Highway SE LLC
- 10 A-1 Stone World INC

TOP 10 IRRIGATION CUSTOMERS September 2021

Largest

(By Consumption)

Rank CONSUMER

- 1 Clay County Court House
- 2 Magnolia Point Investments
- 3 Vallencourt Construction
- 4 Sheriff's Department
- 5 Permabase Building Products
- 6 Richard Norman
- 7 AMH Development NON Res
- 8 Edgewater Landing HOA OF Clay
- 9 Clay Theater Events LLC
- 10 Sheriff's Department

Largest (By Dollar Amount)

Rank CONSUMER

- 1 Clay County Court House
- 2 Magnolia Point Investments
- 3 Vallencourt Construction
- 4 Permabase Building Products
- 5 Sheriff's Department
- 6 Richard Norman
- 7 AMH Development
- 8 Edgewater Landing HOA of Clay
- 9 Sheriff's Department
- 10 Clay Theater Events LLC

TOP 10 SEWER CUSTOMERS September 2021

Largest

(By Consumption)			(By Dollar Amount)
Rank	CONSUMER	Rank	CONSUMER
1	St. John's Landing	1	St. John's Landing
2	Sheriff's Department	2	Sheriff's Department
3	Garden Highway SE LLC	3	Garden Highway SE LLC
4	Kindred Health	4	Kindred Health
5	Governors Creek #436	5	Governors Creek #436
6	Holland Marine INC	6	Clay High
7	Clay High	7	Clay County Court House
8	Clay County Court House	8	Green Cove Spring Junior High

- Green Cove Springs Junior High 9
- 10 A-1 Stone World INC

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- **Holland Marine INC**
- 10 Premier Surface Design LLC

Largest

Wastewater Plant Capacity Status

South Plant: TMDL Capacity 0.350 MGD*,

- Current Loading 0.295 MGD*, 80% Capacity (August 2021 Annual Average)
- Current & Committed (.033) Loading 0.324 MGD*, 88% Capacity
- Current, Committed & Requested (0) Loading 0.324 MGD*, 88% Capacity

Harbor Road: TMDL Capacity 0.650 MGD*

- Current Loading 0.513 MGD*, 79% Capacity (August 2021 Annual Average)
- Current & Committed (.092) Loading 0.605 MGD*, 93% Capacity

• Current, Committed & Requested (0) Loading 0.605 MGD*, 93% Capacity *MGD = Million Gallons per Day

Note: No Reynolds growth or loading projections included in above.