

Matanzas Shores Waste Water Treatment Plant Report
July 27, 1018

Overall Plant Status:

- Effluent quality is good.
- The plant is operating well.
- The daily average flow for June was .107 MGD. The annual daily average flow (AADF) for June was 0.104. The daily average flow for July appears to be up from June so far (.108).
- Because our average volumes are rising beyond permitted levels, we have taken the appropriate steps to submit and receive permit modifications from the DEP that will increase the reuse capacity of rapid-rate land application to 0.322. The following need to be done:
 - Add an additional ground water monitoring well
 - “Re-develop” 3 existing wells
 - Quarterly monitoring of 5 wells starting this quarter (We have been given until the end of September to start monitoring on the new well).
 - bring perc pond 3 online
 - Abandon 5 monitoring wells currently located on the property, most near perc pond 2
- Bids for the well construction, re-development and abandonment were sent to 3 companies.
- Three sludge hauls were required approximatey 6000 gallons in each haul:
 - June 6
 - Jun 20
 - July 11
- The slow solids settling condition is continuing to improve and is being monitored and addressed by Biometrics.
- Flagler Septic cleaned the lift station at the plant on June 21st. It will be cleaned again in 6 months when the other 3 lift stations are cleaned as well.

Maintenance Items Addressed During June/July:

1. The lift station backup generator was field tested at the remote lift stations. Biometrics and Frank worked on testing each station and will prepare a checklist for if/when it is used in the event of an extended power outage. Emergency response staff from Biometrics were identified to help cover the connection and monitoring of the generator when needed.
2. The manhole by San Carlos/San Jose was checked out. There is a dip there, and a slight collection of water and sand that blew into the system from something up stream. No action is required here now, but as we examine our whole system in future, we will relook at identifying the up-stream source.
3. A new motor has been ordered for the Sea Colony lift station by the beach. Rags got behind the propeller on one of the motors and then sewage water behind it causing it to fail. The new motor will have a 5-year guarantee.
4. An oil leak on the right side (outside) of the oxidation ditch at the paddle wheel was corrected and a marking glass added to the side to watch the confirm the oil level.
5. An old alarm was triggered at the plant on 7/12 and responded to. The alarm system itself is not currently used and will be considered abandoned.

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6. Flagler Septic reviewed all the pressure release valves along A1A and found 1 repair needed and 1 replacement.
7. The timers on the surge tank and at the bar screen were tripped by the recent storms and reset by the operator. No damage was caused.

Other:

- 9 out of 35 Sea Colony residents have not completed replacement/repair of their sewer clean-out caps.
- 5 out of 17 Lakeside residents have not completed replacement/repair of their sewer clean-out caps.
- Well testing costs will go up starting this quarter due to the need for additional monitoring under the new permit changes.

APPROVALS NEEDED:

None at this time. When Well bids are received we will need to act very quickly to approve and get the new well built.

2018 WWTP Projects and Status

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Project	Priority*	Timing	Status
Install Composit Sampling Collection System (2 outdoor refrigerated composite samplers and weather cover) - Biometrics	2	Q2-2018	4/16 - not required at this time (mtg with DEP) 5/17 - Flow increases require this now
Bring Perc Pond 3 On-Line per Permit requirements, including any new wells)	2	Q4-2018	Bids for the new well have been sent.
Install Cover for the Inflow Structure (5N Building Solutions- \$2,343) or look at dumpster placement as an alternative (2 yrd plastic dumpster 2X wk is \$190/mo - once a week is about \$90). A 3rd option might be possible - see if we can use the drain under the concrete to let the water out and it gets pumped back into the plant.	3	Q3-2018	Approved InFlow Structure Cover 5/18 Waiting on vendor start date.
Ensure all sewer clean-out cap replacement done. Determine what follow-up is needed to have homewoners complete the work by 3/31/2018 (Sea Colony) and 4/30/2018 (Lakeside) 2nd letters went out 6/1 for Lakeside	1	Q1-2 2018	In Process - Deadlines for completion passed. 9 sea Colony and 5 Lakeside are outstanding.
Confirm Surf Club 2 and 3 drainage repository (including the floor drains)	1	Q1-2018	All indications are appropriate drainage to the storm system
Analyze possible problem with lateral pipe connection to main at the manhole on San Carlos/San Jose (Flagler Septic)	1	Q1-2 2018	7/12 analysis completed - monitor for now - Problem is up-stream
Get appropriate plugs and cords and test the portable generator at the remote lift stations. (Frank and Carlos Jr).	1	Q2-2018	Tested 5/31 - Create Clipboard Checklist
Exercise the 2 Spare Lift Station Pumps (routine periodic maintenance)		NA	On-Going
Repair covers of pressure release valves along the sewer main on A1A (in-house)	3	Q3-4 2018	Estimate Requested from ECS 7/2018
Install auto dial system for high-level alarms (surge tanks,digester and main lift station)	2	Q1-4-2018	Estimates Needed
Possible problem with a lift station motor at Sea Colony - amps not high enough - BioMetrics looking at it 5/31 - this was merely due to a longer motor ramp up time - not a problem.			This was tested and found to be okay.
Problem with Sea Colony lift station (by the sea) - Motor repair/replacement needed.	1	Q3-2018	Need to do now - decision is to go with the new motorwich will have a 5 year guarentee versus 1 year for repairing the
Create Plant Redundancy (backup clarifier)	3	TBD	