

Matanzas Shores Waste Water Treatment Plant Report
May 25, 1018

Overall Plant Status:

- Effluent quality is good.
- The plant is operating well.
- The daily average flow for April was 0.109 MGD. The annual daily average flow (AADF) for April was 0.097. The daily average flow for May appears to be down from April so far (.095), however holiday volumes could drive that back up.
- Average flows are rising, we are still under our AADF limit of 0.099, however it is time to plan for the increase.
- Five sludge hauls were required approximatey 6000 gallons in each haul:
 - Mar 27
 - Apr 12
 - Apr 17
 - May 2
 - May 17
- The slow solids settling is improving and continuing to be monitored and addressed by Biometrics.

Maintenance Items Addressed During April/May:

1. The lift station backup generator was started up and a stand-alone test run. The generator cord was delivered. Once Biometrics has installed plugs at the remote lift stations (Sea Colony and Rec Center) schedule for testing the generator at the lift stations will be established.
2. All pipe and pump painting to address corrosion repairs, and to protect and extend the life of the equipment was completed.
3. A temporary repair was made to the WWTP gate to allow it to open and close more freely.
4. Trimming of the trees and bushes that were overhanging the west side was completed.

Other:

- 18 out of 35 Sea Colony residents have not completed replacement/repair of their sewer clean-out caps. Sea Colony residents had until 3/31 to have these repairs completed.
- 10 out of 17 Lakeside residents have not completed replacement/repair of their sewer clean-out caps. Lakeside residents received later notification than Sea Colony and had until 4/30 to complete these repairs.
- A meeting was held with the DEP on April 16th to review the current permit and discuss completion date extensions for perc pond modifications and measures to be taken if/when the AADF exceeds .099 mgd, which was to be monitored closely and further adjustments reviewed at that time. Since that meeting, the anticipated reduction in flow expected from efforts to address infiltration has not occurred and we are in discussions with the DEP about necessary modifications to place Perc Pond 3 in service now. (Including new monitoring well and composite sampling).

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- Alternatives for intrusion of rain water at the bar screen area were reviewed and the best long term alternative appears to be installation of a cover over the inflow structure. Cost to be approved.
- The six month clean-out of the main lift station at the plant will be scheduled for next week. (or as soon thereafter as possible)
- Biometrics will provide the plugs for the remote lift stations and schedule the time for testing.

Requesting approval on 1 item - Install cover for the Inflow Structure

Project	Priority*	Timing	Status
Rust Removal and Prevention - Paint Pipes/Motors (labor in-house) - Cost of Paint (appx \$1,000). Duraplate & Acrolon for pipes, motors. Corrosion X for moving valves.	1	Q1-2018	Complete
Install Composite 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	Plans are in Process to do this now
Install Cover for the Inflow Structure 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	5/16/2018 Seek Approval on Inflow Structure
Infiltration Smoke Test	1	Q1-2018	Completed
Ensure all sewer clean-out cap replacement done. Determine what follow-up is needed to have homeowners complete the work by 3/31/2018 (Sea Colony) and 4/30/2018 (Lakeside)	1	Q1-2018	In Process - Deadlines for completion passed.
Confirm Surf Club 2 and 3 drainage repository	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	Q1-2018	FS waiting for camera part to complete

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Project	Priority*	Timing	Status
Get appropriate plugs and cords and test the portable generator at the remote lift stations. (Frank and Carlos Jr).	1	Q2-2018	Parts in - schedule Lift Station test
Exercise the 2 Spare Lift Station Pumps (routine periodic maintenance)		NA	On-Going
Change gaskets in generator and complete generator test (noted from the annual inspection) - J.L. Power	1	Q1-2018	Completed
Repair covers of pressure release valves along the sewer main on A1A (in-house)	3	Q3-4 2018	
Address the wheel that is beginning to freeze up to open the sludge drain valve	2	Q2-2018	Completed
Install auto dial system for high-level alarms (surge tanks,digester and main lift station)	2	Q1-4- 2018	Estimates Needed
Create Plant Redundancy (backup clarifier)	3	TBD	

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Project	Priority*
Rust Removal and Prevention - Paint Pipes/Motors (labor in-house) -	1
Install Composit Sampling Collection System (2 outdoor refrigerated composite samplers and weather cover) - Biometrics	2
Bring Perc Pond 3 On-Line per Permit requirements, including any new wells)	2
Install Cover for the Inflow Structure (\$2,300) or look at dumpster placement as an alternative (Pending Estimate)	3
Infiltration Smoke Test	1
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)	1
Confirm Surf Club 2 and 3 drainage repository	1
Analyze possible problem with lateral pipe connection to main at the manhole on San Carlos/San Jose (Flagler Septic)	1
Get appropriate plugs and cords and test the portable generator at the remote lift stations. (Frank and Carlos Jr).	1
Exercise the 2 Spare Lift Station Pumps (routine periodic maintenance)	
Change gaskets in generator and complete generator test (noted from the annual inspection) - J.L. Power	1
Repair covers of pressure release valves along the sewer main on A1A (in-house)	3
Address the wheel that is beginning to freeze up to open the sludge drain valve (estimate needed) ECS looking at it 3/20	4
Install auto dial system for high-level alarms (surge tanks,digester and main lift station)	2
Create Plant Redundancy (backup clarifier)	3

Timing	Status
Q1-2018	In Process
Q2-2018	Hold/further Discussion
Q4-2018	Hold/further Discussion
Q3-2018	Confirm Approach
Q1-2018	Completed
Q1-2 2018	In Process (12 Done)
Q1-2018	In Process
Q1-2 2018	FS waiting for camera part to complete
Q2-2018	Schedule when parts come in
NA	On-Going
Q1-2018	Completed(waiting for invoice)
Q3-4 2018	
Q3-2018	Review & Estimate Needed
Q1-4-2018	Estimates Needed
TBD	