

Stamford WPCA Top Issues (3/12/21)

No.	Issue	Action Description	Impact	Status	Schedule
1	COVID-19 Outbreak	Take action to reduce impact on SWPCA Operations and Finances	Operations and Financial	No positive COVID cases since last Board meeting. Staff age 55 and over have received first vaccine shot.	Following State's age based schedule for vaccinating staff younger than 55. Operators, mechanics and lab staff are all following normal work schedule. Admin staff working on site and home in staggered schedule.
2	42" Diameter Force Main from Raw Sewage Pumps Station to Primary Clarifiers developed a longitudinal crack and required repair.	Investigate force main condition to determine need for lining or replacement. Complete force main lining or replacement as soon as practicable.	Operations and Financial	Leaking section of force main has been replaced. Test results on pipe section indicate loss of pipe wall thickness from corrosion and erosion from grit.	Currently using 6 bypass pumps and 3 – 18" diameter HDPE pipes to pump from influent sewer to primary effluent channel, bypassing the Raw Sewage Pump Station and 42" force main. 2 – 24" diameter HDPE pipelines are being installed above grade to allow raw sewage pumps to pump to the primary clarifiers without using the 42" force main. 3 Existing raw sewage pumps will be available for use on March 15 th . The 2- 24" bypass pipelines to be completed by March 29 th .
3	UV System Performance and Permit Exceedances	Upgrade UV System adding 2 new UV channels for system redundancy during peak flow and replacing aged Wedeco UV equipment with Trojan.	Regulatory and Operations	Continue to have infrequent erratic water level readings in UV channels. Will consider use of radar level sensors in channels..	C H Nickerson is continuing work on the 3 rd UV channel with completion expected by May.
4	Extreme wet weather - high flow discharge and permit exceedance on 5/1/14	Perform an Infiltration and Inflow (I/I) Study to identify and remove extraneous flows caused by rainfall and high groundwater	Regulatory and Operations	Phase II SSES (CCTV, manhole inspections and smoke testing) have been completed.	Completion of Phase I (A) sewer rehabilitation by Kenyon Pipeline is suspended until the weather improves.

5	Reduce energy costs	Evaluate and implement energy conservation measures (ECM)	Operations and Financial	Received payment of Eversource cash incentive for LED lighting and UV system upgrade.	Eversource to provide \$469,695 cash incentive for energy efficiency measures used in Primary and Secondary Treatment Improvements
6	Personnel Safety	Comply with requirements for arc flash protection.	Operations		Siemens is continuing performing electrical preventive maintenance (EPM) on electrical switchgear at treatment plant and four (4) pump stations. Completed EPM of switchgear for sludge dryer.
7	Sludge dryer before explosion was operating close to its capacity and there are limited options for disposal of sludge cake due to incinerators operating at their capacity and landfills that are closing, or won't accept sludge cake.	SWPCA needs to evaluate its future options for sludge processing and disposal and develop a long term Sludge Management Plan.	Operations	Had kick-off meeting with Hazen's project team and Technical Committee on February 1 st .	Will complete Task 1 and 2 of study by this summer with Task 3 and 4 to be done in FY22. Expect 16 months to complete the Sludge Management Plan (summer of 2022)..
8	WPCF evaluations and improvements	Study, design, and construct WPCF improvements to replace aged equipment and increase operations and energy efficiency.	Regulatory and Operations	Work inside aeration tanks is complete. Work is now focused on installing electrical power and control wiring for the new aeration blowers, and installing new mechanical screen and raw sewage pumps in Raw Sewage Pump Station (RSPS).	New aeration blowers scheduled for start-up in April. 5 new raw sewage pumps scheduled for start-up in July. Project to be substantially complete in October
9	Perna Lane Area is in need of sanitary sewers due to failing septic systems.	Evaluate cost effective options for providing sanitary sewers to the Perna Lane Area that avoid deep sewers (in rock) in High Ridge Road.	Operations	Most cost effective option will include a combination of gravity and low pressure sewers.	Project is currently on hold pending receipt of petition signed by 2/3 of property owners in favor of the sewer project.