



Bermuda Hospitals Board

What is a Sewage Treatment Plant (STP)?

Sewage treatment is a process used to remove contaminants from wastewater. Wastewater comes from bathrooms, kitchens and other areas in a building where water is used to dispose of waste.

Rather than putting that water directly into the environment where it can cause pollution and be harmful, the wastewater is treated. The harmful contaminants removed and the resultant liquid – *effluent*, is either discharged into the environment or reused.



MWI Sewage Treatment Plant (STP)

- The current STP was installed in 2015
- About 2,500 gallons of waste water is treated every 24 hours
- The type of sewage treated consists of toilet, sink, showers and kitchen waste. Grease and some solids are separated before entering the plant via traps, that are separately cleaned.
- The plant uses a settling and aeration system, to separate out solids and non biologics, and has a bacterial section for converting of ammonias to nitrates. The bacteria are mainly aerobic, with some anaerobic bacteria in final section of plant.

There are two operators who visit the plant daily. In addition sanitation services are required to dispose of the solid waste that accumulates.

- Costs are limited to electricity to operate one pump, and two blowers to aerate the sections of the plant. Air from the blowers is also used to return solids to the primary tanks for re-treatment. Equipment for this plant is limited to pumps and aeration blowers.
- There are equipment redundancies and spares, so down time can be kept to a bare minimum. As long as a spare is on hand , a malfunctioning component can be changed very quickly, usually less than an hour, so the plant can continue to operate.

For more information about the MWI STP contact Facilities Management on 236-3770.