

Recycling of Waste Water at Bellozanne Treatment Works

The sewage which flows out of your home is treated before the water is discharged into St Aubins Bay. 25,000 cubic meters of sewage is treated every day which is equivalent to 30 Le Quennevais swimming pools.

You may think that sewage is a sort of sludge. In fact, 99.9 per cent of it is water by the time it reaches Bellozanne treatment works.

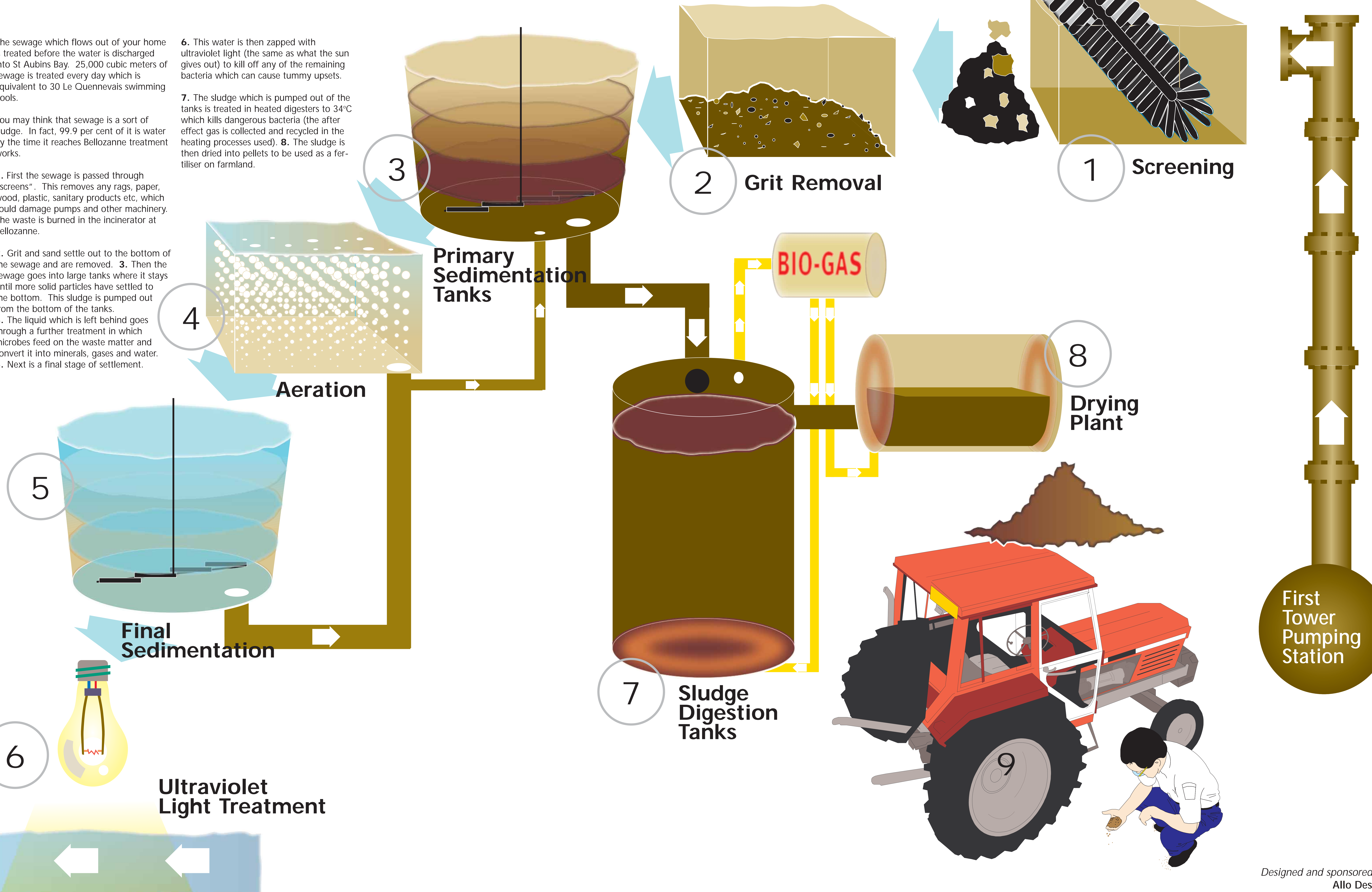
1. First the sewage is passed through "screens". This removes any rags, paper, wood, plastic, sanitary products etc, which could damage pumps and other machinery. The waste is burned in the incinerator at Bellozanne.

2. Grit and sand settle out to the bottom of the sewage and are removed. 3. Then the sewage goes into large tanks where it stays until more solid particles have settled to the bottom. This sludge is pumped out from the bottom of the tanks.

4. The liquid which is left behind goes through a further treatment in which microbes feed on the waste matter and convert it into minerals, gases and water. 5. Next is a final stage of settlement.

6. This water is then zapped with ultraviolet light (the same as what the sun gives out) to kill off any of the remaining bacteria which can cause tummy upsets.

7. The sludge which is pumped out of the tanks is treated in heated digesters to 34°C which kills dangerous bacteria (the after effect gas is collected and recycled in the heating processes used). 8. The sludge is then dried into pellets to be used as a fertiliser on farmland.



5

Final Sedimentation

6

Ultraviolet Light Treatment

3

Primary Sedimentation Tanks

2

Grit Removal

1

Screening

8

Drying Plant

7

Sludge Digestion Tanks

BIO-GAS

First Tower Pumping Station