

## **Life Wide Learning Reflection**

4E Yu Kin Ching (40) (x41)

That is my first time to go to the Sha Tin Sewage Treatment Works. I learn many things in this short visit. Curiosity makes me want to know how the impurity water becomes clean water and the step of cleaning water.

First, the treatment will collect impurity water and have a primary treatment. The primary treatment includes screening, screw conveyor, grit removal, flow measurement and primary sedimentation tank.

Second, the impurity water will have a secondary treatment. That is a biological treatment. The treatment includes aeration tank. It will decompose the impurities to carbon dioxide, water, nitrogen gas, etc.

Thirdly, there is a final sedimentation tank to sediment the micro impurities. The wastes of this process are called surplus activated sludge.

Lastly, sterilization is involved. There is 1% impurity water after sterilization. Therefore, not really a hundred percent of the water is pure. However, the treatment imports a new method to make the water is hundred percent sterilized. That is the ultra violet light sterilization. It makes the impurity water becomes a hundred percent pure.