

Information Sheet

Project Title: Study on Reuse of Sludge in Greening

Project Abstract:

The Water Supplies Department (WSD) produces more than 2.5 million m³ of potable water every day through its 21 water treatment works in Hong Kong. More than 50 tonnes of waterworks sludge, as by-products, are produced in Hong Kong every day. Currently, landfilling is the only disposal means of waterworks sludge in Hong Kong. On the other hand, Hong Kong strives to enhance the quality of living environment through the active planting and proper maintenance of trees together with other vegetation. Every year, large amount of soil substrate is needed for achieving the target. While local soil substrate inherently has two constraints, namely poor soil fertility and low soil pH, waterworks sludge may be a good soil amendment that can alleviate these constraints. To these ends, the Water Supplies Department seeks the opportunity to study the potential use of waterworks sludge in greening works in Hong Kong. If the recycling of waterworks sludge is proven feasible, not only the loading to existing landfills can be reduced, but it also demonstrates the sustainable management of reusable resource.