

Client: After 3 ½ years of successful operation at Picnic Bay, Citiwater in conjunction with the Citiwater Water Matters Alliance selected a Kubota MBR r, Busin system as the preferred option for a new ess Unit wastewater treatment plant at Horseshoe Bay of Town to meet the stringent discharge requirements. sville

City **Solution**

Council A MLE Process utilising a Kubota MBR system was installed to meet low nitrogen, phosphate (Water and pathogen limits. Alum was dosed to meet Matters the low Phosphate requirements.

Alliance Kubota membranes have a nominal pore size) of 0.4µm and an absolute pore size of 0.01µm, which provides an absolute barrier to biomass,

Locatio and pathogens retaining them within the **n:** process tank.

Horsesh

oe Bay, **Process Overview**

Magneti The raw water first passes through a 3mm fine c Island screen into a bioreactor. The bioreactor consists of 3 stages – two denitrification tanks,

Service followed by the MBR tank. Filtration is : achieved by drawing effluent through the surface of the flat sheet membranes under a gravity head. No suction pumps are required.

Greenfi

eld site,

re-use

Value: The effluent from the plant is reused to irrigate a dry tropical forest parkland or discharged to the Great Barrier Reef Marine Park.

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**Comple
tion**

Date:

2006