

Memo

To
Calton Frame

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This memo serves to provide clarification to matters related to the effluent properties.

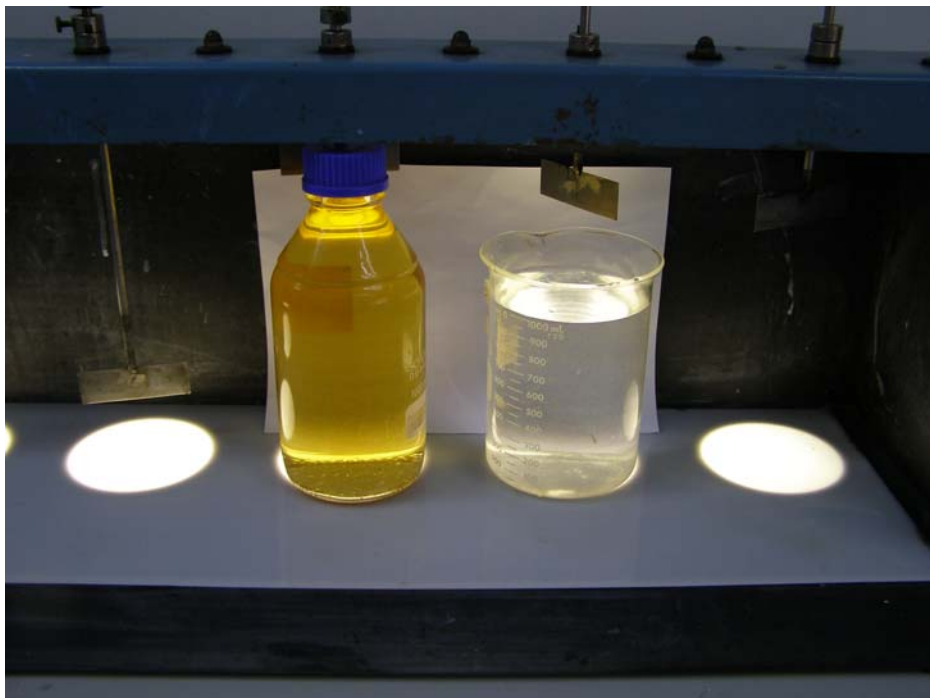
Re item 1

The final effluent colour during euca run is about 500 mg PCU/l.

According to the marine team (Ref. Table 4 of “Water Quality Assessment, January 2007” by GHD’s Dr Veronique Levy) the target initial dilution at the edge of the Mixing Zone in Bass Strait is 493. After dilution, the colour is about 1 mg PCU/l. This colour level may be detected with a spectrophotometer, but not by human eye. It has neither any practical impact on the depth of euphotic zone.

The target TSS in the final effluent is 20 mg/l. At 493 times dilution the TSS is 0.04 mg/l. Such a concentration has no practical impact on the clarity of water.

The attached picture could be used as evidence. The biologically treated, undiluted effluent on the left and the same effluent after (only) 100 times dilution with sea water on the right. In this case the undiluted colour is about 380 mg PCU/l and the TSS about 30 mg/l.”



Re item 2

Biologically treated effluent has no real odour, since the volatile organic and inorganic (especially TRS) compounds have been oxidised or to a lesser extent evaporated from the effluent in the aeration basin of the WWTP.

There is a faint scent, when a raw effluent sample is sniffed at few centimeters' distance, that's all.

After the initial dilution in Bass Strait, no odour will be detected.

The second dot point of item 2 above regarding discolouration is covered by responses to item 1.