

Contract HK 12/02
Central Reclamation Phase III – Engineering Works
Environmental Permit No.: FEP- 01/122/2003

**Certification and Verification for Change of FEP Condition 3.2 –
Dredging and Filling at FRAE**

ET Leader's Certification

We refer to the proposal by Leighton – China State – Van Oord Joint Venture (hereinafter referred to as the JV) to conduct dredging/ filling at FRAE [*letter to the Engineer's Representative on 2 Apr 2007 of reference H2189/C1/24735/MP/EY/GL/ST/ec, which requested the dredging rate at FRAE be increased progressively from the maximum allowed rate of 98m³/h in FEP-01/122/2003 to 120m³/h and ultimately to 160m³/h.*]

The JV's proposal differs from the reclamation phasing works that were prescribed in the FEP-01/122/2003 [Clause 3.2 (a)]. The proposed increased dredging rates will also be above the maximum allowed level of 98m³/h in FEP-01/122/2003 [Clause 3.2 (b)]

The above would be subject to Condition 3.2, Part C (Permit Conditions), Submissions or Measures for the Construction Period of the Project(s), of the Environmental Permit, as follows:

"3.2 The Permit Holder shall carry out dredging and filling works in phases for the Project(s) in accordance with:

(a) the sequence shown in Figure 5 to avoid formation of embayed water bodies and prevent water pollution problems; and

(b) the specified maximum dredging and filling volumes together with the maximum hourly dredging rates for each phase of activities shown in Table 1.

Any changes to the dredging and filling requirements in items (a) and (b) above shall be certified by the ET Leader and verified by the IC(E) as conforming to the recommendations contained in the EIA report. *The changes shall be immediately documented in the following monthly EM&A report and be made available to the public, following the requirements in Conditions 5.2 and 5.3 below, via internet access in the shortest possible time and in no event later than 2 weeks after the changes have been certified "*

The JV has proposed the advanced dredging (at increased rate) and filling works as being necessary for the project to minimise delays to programme. The JV has proposed a trial be conducted in Area 6a1 (see attached figure) to progressively increase the dredging rate from 98m³/h (first 3 days) as prescribed in FEP-01/122/2003 to 120m³/h (next 3 days) and ultimately to 160m³/h (last 3 days). Also proposed are additional measures to reduce the potential for water quality impacts and the additional monitoring plan.

The above proposal is considered to be acceptable with conditions as follows:

(1) The JV shall implement mitigation measures to reduce water quality impacts as stated in their referenced letter.

(2) The JV shall undertake additional water quality monitoring at stations M5 & M6 during mid-flood and mid-ebb tide on the days that monitoring is not undertaken by the ET as part of the routine water quality monitoring for the 9 days of trial period as specified in the Contractor's referenced letter.

Further sampling at 3 additional (mobile) monitoring stations (i.e. A, B & C) within 50m of the immediate area of the dredging works (A being to the North, B being to the East and C to the South) shall be undertaken immediately before and after completion of dredging works during the 9 days of trial period. Upon successful completion of the trial, which shall be demonstrated by satisfactory results, the mobile monitoring station C can be omitted.

Monitoring at M5 shall cease if the intake has been decommissioned. The parameter to be analysed shall cover suspended solids (SS) only and shall be undertaken by a HOKLAS accredited laboratory with the results reported within 48 hours of sampling to all relevant parties.

(3) During the trial period, should there be any exceedance of the Action Level in 2 consecutive occasions or exceedance of the Limit Level in one occasion for the SS in the water samples at any of the seawater intakes, dredging rate for the advanced works should be reduced to the original rate of 98m³/h prescribed in the FEP.

(4) Restrictions on filling works in the Environmental Permit - Clause 3.3 and 3.4 shall apply.

(5) No dredging shall be undertaken within 50m of M5 prior to its relocation.

(6) The Contractor shall ensure that the works do not exceed the Water Quality Objectives for Victoria Harbour. In particular, with regard to the aesthetic appearance, there should be no discoloration of the water (visible sediment plumes) outside the Works Site Boundary Area. Should visible sediment plumes be identified the dredging works shall be reduced to the original rate of 98m³/h prescribed in the FEP.

(7) This shall supercede all previous certifications and verifications concerning dredging and filling works. No concurrent dredging works shall be undertaken in FRAW and FRAE until such revised proposal has been approved by the ET Leader and Verified by the IC(E).

With the implementation of the above measures in full, the ET Leader and the IC(E) have no objection to the proposal.

Susana Bezy, Environmental Team Leader:



Date: 11 Apr 2007

IC(E) Verification

I hereby verify the above information.

Bill Douglas, Independent Checker (Environment):



Date: 11 Apr 2007