

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 –
Concurrent Dredging/ Filing at FRAW & 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 concurrent dredging/ filling at FRAW & FRAE. [Letter to the Engineer's Representative on 15 May 2007 of reference H2189/C1/25248/MP/EY/GL/ST/W, which requested dredging at FRAE be conducted at a rate of 160m³/h, which is above the rate specified in FEP-01/122/2003 and dredging at FRAW at an increased rate of (220 m³/h) and ultimately (260m³/h), which are also above the rate of 184 m³/h allowed in the same FEP].

The JV's proposal differs from the reclamation phasing works prescribed in the FEP-01/122/2003 [Clause 3.2 (a)]. The proposed increased dredging rates will also be above the maximum allowed rate of 98m³/h at FRAE and 184m³/h at FRAW in FEP-01/122/2003 [Clause 3.2 (b)]

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

"3.2 Dredging and filling works shall be carried out 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 concurrent dredging at FRAW and FRAE (both at increased rate) and filling works as being necessary for the project to minimise delays to programme following the trial dredging conducted at FRAE. Also proposed are additional measures to reduce the potential for water quality impacts and the additional monitoring plan.

The ET considered the above proposal to be acceptable on 23 May 2007 and a trial run was carried out for 10 days that achieved acceptable results within environmental criteria. The ET, under this certificate will endorse the same proposal with revised conditions as follows: -

(1) The JV shall implement mitigation measures to reduce water quality impacts as stated in their referenced letter with regard to use of framed type silt curtain and floating curtains.

(2) The JV shall undertake additional water quality at 3 additional (mobile) monitoring stations (i.e. A, B & C) within 50m of the immediate area of the dredging works (A and C being to the North of the dredger at FRAE and FRAW respectively, while B being in between the dredger operating at FRAE and M6) shall be undertaken immediately after completion of dredging works each day.

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. If results are not provided within 2 working days, the Contractor will be instructed to reduce the dredging rate to that prescribed in the FEP.

At each mobile station, water samples shall be collected in duplicate at 3 depths, viz. 1m below surface, mid depth and 1m above seabed, except where the water depth is less than 6m, the mid depth shall be omitted. Should the water depth is less than 3m, only the mid-depth is required.

(3) During this 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 (including but not limit to M6, M4B and M2A), dredging rate at FRAE and FRAW should be reduced to the original rates of 98m³/h and 184 m³/h respectively prescribed in the FEP and possible cessation of works.

In such cases, additional mitigation measures shall be provided by the JV to the satisfaction of the ET and IC(E) before works can resume.

(4) Filling works, if necessary, shall be limited to placement of rock/ sand fill/ Type A fill (as far as near-shore fill slope stabilisation and filling at dredged seawall trench is required). Furthermore, protective measures shall be provided for the filling work, which shall include the use of floating silt curtain of a length in excess of the operating barge to prevent dispersion of any silt. Restrictions on filling works in the Environmental Permit - Clause 3.3 and 3.4 shall apply.

(5) 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 (FRAE) and 184m³/h (FRAW) prescribed in the FEP.

(6) This shall supersede all previous certifications and verifications concerning dredging and filling works.

With the implementation of the above measures in full, the ET Leader and the Independent Environmental Checker have no objection to the changes proposed to FEP Condition 3.2 for concurrent dredging works at FRAW (not exceeding 260m³/h) and FRAE (160m³/h).

Susana Bezy, Environmental Team Leader:



Date: 8 June 2007

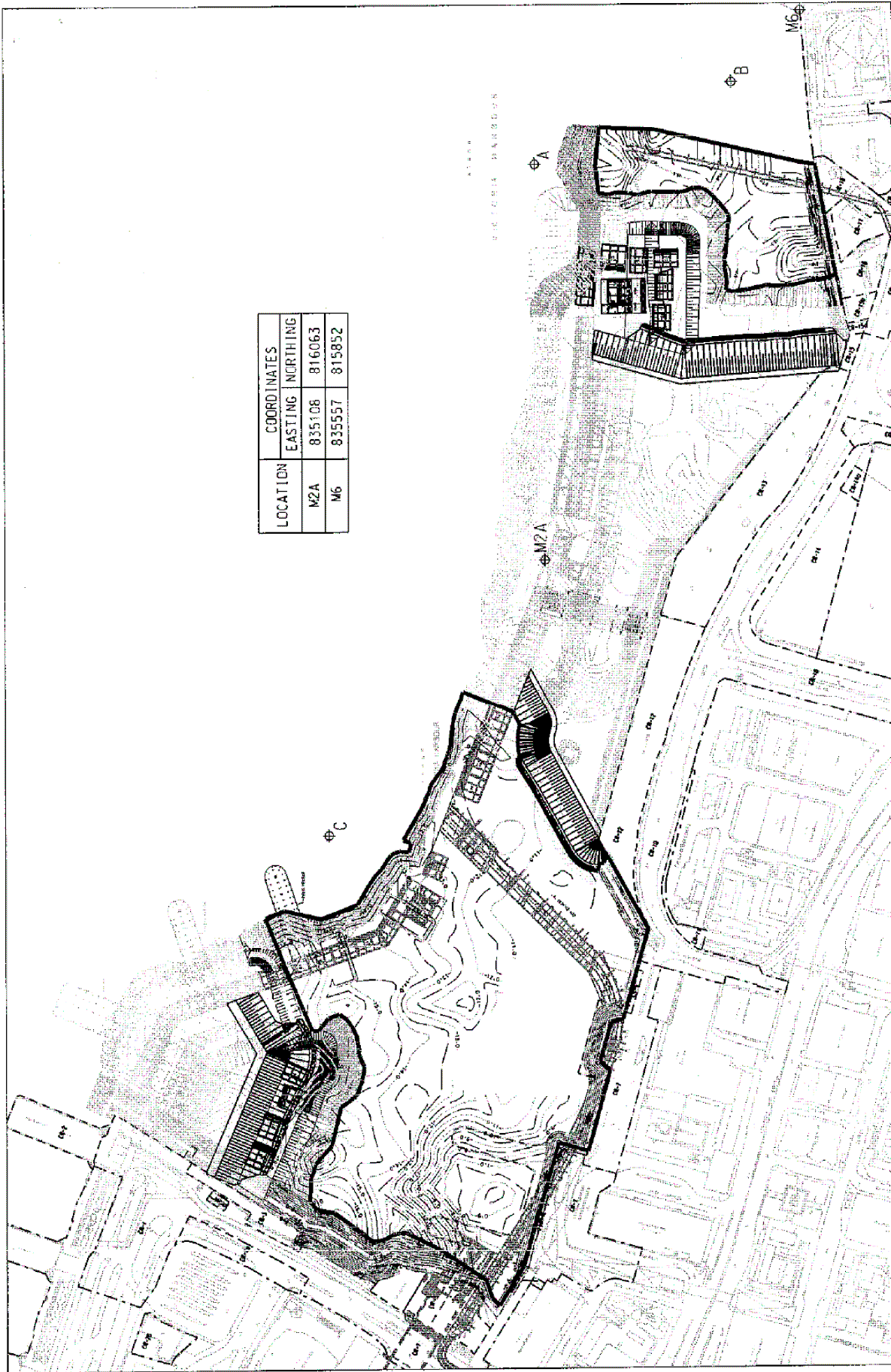
IC(E) Verification

I hereby verify the above information.

Bill Douglas, Independent Checker (Environment):



Date: 8 June 2007



LOCATION	COORDINATES	
	EASTING	NORTHING
M2A	835108	816063
M6	835557	815852

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