

Our Ref: HKSTF-VWVE-EPD-EIA-LE-161003-002

(By hand)

3 October 2016

The EIA Ordinance Register Office
Environmental Protection Department
27/F Southorn Centre
130 Hennessy Road
Wan Chai, Hong Kong

Attn: Mr Alex Tang

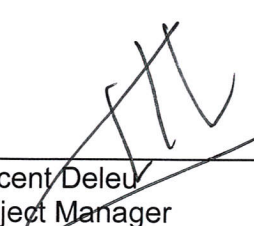
Dear Sir

**Contract No. EP/SP/58/08 – Sludge Treatment Facilities
Environmental Monitoring Results in Operation Phase – Monthly HCMP Reports
(September 2016)**

We refer to the Clause 6.3.6.1 of the EM&A Manual and would like to submit herewith three hard copies and one electronic copy of the captioned for your information and record.

Should you have any queries, please do not hesitate to contact our Mr WB Chu on 2910 9666. Thank you for your kind attention.

Yours faithfully
For and on behalf of
VW-VES (HK) LIMITED



Vincent Deleu
Project Manager

VD/EZ/WB/hk

Attachment: Monthly HCMP Reports (3 hard copies + 1CD)

cc: EPD – Davie Kan w/ 1 hard copy & w/o CD
Jacobs (ER) – Leslie Swann w/ 1 hard copy & w/o CD



Contract EP/SP/58/08 Sludge Treatment Facilities

OPERATIONAL PHASE ECOLOGICAL MONITORING OF GREBE POND IN ACCORDANCE WITH THE APPROVED HABITAT CREATION AND MANAGEMENT PLAN

2016-09

(Issue 1)

September 2016

	Name	Signature
Prepared by:	Philip TANG	
Reviewed by:	David STANTON	
Date:	29th September, 2016	

Job Ref.: 09/319/177 LCA-NIMW

CONTRACT EP/SP/58/08 SLUDGE TREATMENT FACILITIES

OPERATIONAL PHASE ECOLOGICAL MONITORING OF GREBE POND IN ACCORDANCE WITH THE APPROVED HABITAT CREATION AND MANAGEMENT PLAN

2016-09

1 INTRODUCTION

- 1.1.1 Following the completion of construction of the Sludge treatment Facilities in July 2015 Option 2 Item D1.2 of the AEC Consultant Agreement, that is - inspection and advice on management after pond construction during the construction phase has now been completed.
- 1.1.2 The 12 months establishment phase monitoring (October 2014 – October 2015) has been completed. The operational phase commenced in November 2015.
- 1.1.3 This report details the findings of the operational phase ecological monitoring of grebe pond in accordance with the approved Habitat Creation and Management Plan (HCMP) following PO# HKSTF-VWVE-Q-PO-15-093 issued 20th March 2015.
- 1.1.4 This report covers the monitoring and proposed management activities of the establishment phase of the Grebe Pond (hereafter known as 'Pond').

2 SITE INSPECTION

- 2.1.1 The first inspection with the representatives from VLJH, VW-VES, Site Contractor and the IC (Mott MacDonald) was carried out on 6th October 2014. The finalised Inspection Record summarising the comments from AEC Ltd. and IC was issued in early November 2014.
- 2.1.2 The following recommendations on the management and maintenance works are issued to VLJH by AEC Ltd. on 29th September 2016. **Table 1** summarises the observations and recommended management work required in the Pond as inspected during the site inspection on 13th September 2016.

Table 1 Summary of the required management activities in land parcels.

	Management Activities Required	Action
Minor remedial work:	<ul style="list-style-type: none"> No fish or fry were observed in the Pond (Plate 1). The Landscape Contractor should remove all snails and destroy egg masses during their routine maintenance work in the Pond. At least weekly removal of Apple Snails is recommended. As a routine maintenance practice, the landscape contractor should remove the unwanted climbers (<i>Mikania micrantha</i> and <i>Acacia concinna</i>) and the self-seeded small tree <i>Tamarix chinensis</i>. All vegetation should be disposed away from the Grebe Pond. 	<ul style="list-style-type: none"> NA Contractor Contractor

	Management Activities Required	Action
Minor Comments:	<ul style="list-style-type: none"> Less rubbish was noted in the Pond area. The Contractor should continue to remove the rubbish during the routine maintenance work. 	<ul style="list-style-type: none"> Contractor
Water quality checks:	<ul style="list-style-type: none"> Water quality checks will normally form part of the Operational Phase monitoring of the Grebe Pond as per Section 8, Table 7 of the Habitat Creation and Management Plan. Summarised water quality results are shown in Table 2 below. The measured water quality parameters are within Action Level of the Contingency Plan (Table 8 in HCMP) (see Table 2 below). The water level of the pond is approximately at the +5.6mPD level, no water level adjustment is required. As a reminder, only freshwater can be pumped into the Grebe Pond. The contractor should regularly check the salinity level of the pumped water and avoid pumping water with high salinity level. 	<ul style="list-style-type: none"> NA NA Contractor Contractor
Avifauna monitoring	<ul style="list-style-type: none"> No waterbird was recorded within the Pond area. Eurasian Tree Sparrow <i>Passer montanus</i>, Common Tailorbird <i>Orthotomus sutorius</i>, Spotted Dove <i>Spilopelia chinensis</i>, Crested Myna <i>Acridotheres cristatellus</i> were recorded in close proximity to the Pond. As a reminder, access points to the Pond should remain locked, as numbers and diversity of bird species are unlikely to increase if access to the Pond is opened. Human presence should only be for management/monitoring purposes. 	<ul style="list-style-type: none"> NA NA VLJH/Contractor

Table 2. Water quality data for August 2016, Grebe Pond, Nim Wan Sludge Treatment Facilities.

Sample No.	Temp. (°C)	pH	Sal (ppt)	DO (mg/L)
1	32.03	7.82	0.08	8.04
2	31.66	7.92	0.05	8.95
3	31.37	7.86	0.05	9.22
Mean	31.69	7.87	0.06	8.74

3 HABITAT COVER

- 3.1.1 A wet season habitat survey was carried out in September 2016, as per Section 8.3 in the approved HCMP. Summary table of habitat coverage is shown in **Table 3**; the wet season habitat map is shown in **Figure 1**.

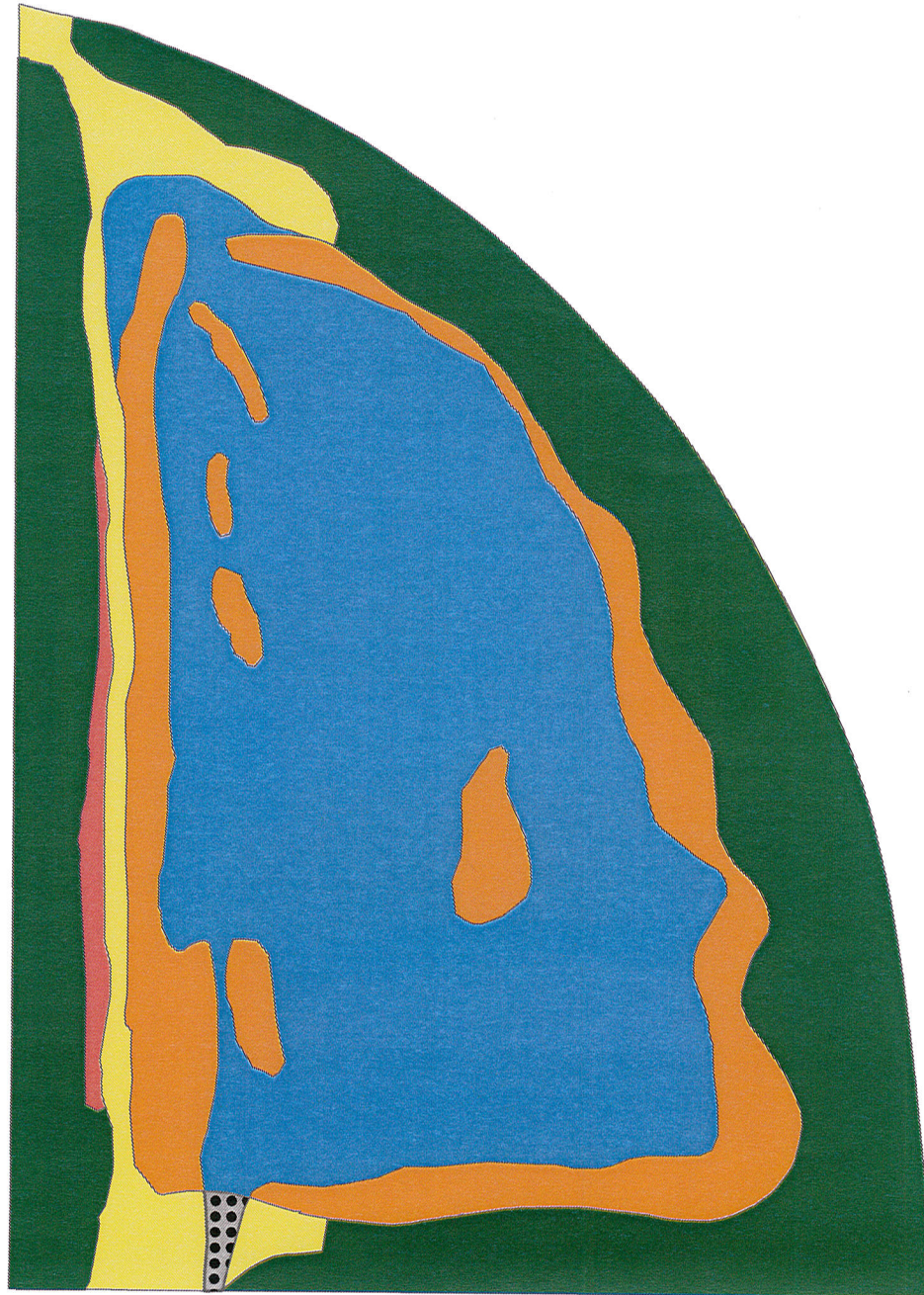
Table 3. Area of each habitat type within the Little Grebe Pond.







Habitat	Sum of Area (m ²)
Riparian herbs	32.00
Emergent vegetation	398.97
Tree/Shrub	882.02
Open water	1091.73
Grass mix	169.07
Pebble-lined over flow channel	8.37
Grand Total	2582.16

Plate 1

The Grebe Pond.





-  Riparian herbs
-  Emergent vegetation
-  Tree/Shrub
-  Open water
-  Grass mix
-  Bare ground
-  Pebble-lined over flow channel



Project Title:
Contract No. EP/SP58/08
Sludge Treatment Facilities

Figure Title:
Wet Season Habitat Map for Little Grebe Pond

Drawn by:	HT	Scale:	1:400 on A4
Checked By:	PT	Date:	26 Sep 2016
Approved by:	PT		

Figure Number: Figure 1 Revision: 0