## Civil Engineering and Development Department

#### Contract No. KL/2008/02

## Kai Tak Development- Decommissioning of the remaining parts (Ex-GFS Building and Radar Station) of the former Kai Tak Airport

Environmental Monitoring and Audit Monthly Report (version 1.0)

March 2010

Certified By

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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#### ABBREVIATION AND ACRONYM

AL Levels Action and Limit Levels

CEDD Civil Engineering & Development Department

E / ER Engineer/Engineer's Representative

EIA Environmental Impact Assessment

EM&A Environmental Monitoring and Audit

EMIS Environmental Mitigation Implementation Schedule

EP Environmental Permit

EPD Environmental Protection Department

ET Environmental Team

HVS High Volume Sampler

IEC Independent Environmental Checker

RE Resident Engineer

RH Relative Humidity

TSP Total Suspended Particulates

QA/QC Quality Assurance / Quality Control

WMP Waste Management Plan

#### **EXECUTIVE SUMMARY**

#### Introduction

- 1. This is the Environmental Monitoring and Audit (EM&A) Report for the month of March 2010, prepared by Cinotech Consultants Limited for the *Kai Tak Development- Decommissioning of the remaining parts (Ex-GFS Building and Rader Station) of the former Kai Tak Airport* with Contract No. KL/2008/02. This report documents the findings of EM&A Works conducted in March 2010.
- 2. The site activities undertaken in the reporting month included:
  - Final layer of soil backfilling at Zone C.

#### **Environmental Monitoring and Audit Works**

Environmental monitoring and audit works for the Project were performed regularly as stipulated in the EM&A Manual and the results were checked and reviewed. The implementation of the environmental mitigation measures and environmental complaint handling procedures were also checked.

#### **Environmental Licenses and Permits**

3. Licenses/Permits granted to the Project include the Environmental Permit (Environmental Permit No. EP-339/2009/A), Registration of Chemical Waste Producer (License: 5213-247-K2822-02), and Construction Noise Permit (Permit No,: GW-RE0498-09). No new license/permit was issued to the Project by EPD in the reporting month.

#### **Key Information in the Reporting Month**

4. Summary of key information in the reporting month is tabulated in Table I.

Table I Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
Status of submissions under EP	1	Monthly EM&A Report for February 10	Submitted to EPD on 12 March 2010 (EP condition 4.3)	Verified by IEC	

1

Number  Notifications of any summons &	Nature			
" I " "				
prosecutions 0 received		N/A	N/A	

#### **Future Key Issues:**

.

• NIL.

#### 1. INTRODUCTION

#### **Background**

- 1.1 The decommissioning of the ex-Government Flying Service (GFS) building and the Radar Station within the former Kai Tak Airport that are classified as Designated Project (DP) under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (hereafter referred as "the DP3a Project" in this section). The remaining sites within the former Kai Tak Airport yet to be decommissioned include the ex-GFS building and the Radar Station in the South Apron area, the Hong Kong Aviation Club (HKAC) and the EMSD Headquarters in the North Apron area. The scope of the DP3a Project is limited to the decommissioning of the remaining facilities, structures and buildings of the ex-GFS building and Radar Station within the former Kai Tak Airport which were not covered under the previous EIAs on decommissioning of former Kai Tak Airport registered under the EIAO (namely EIA on Decommissioning of the former Kai Tak Airport other than the North Apron and EIA on Kai Tak Airport North Apron Decommissioning). The scope of the decommissioning of the Hong Kong Aviation Club is limited to disuse its function. It is also identified that no soil remediation works would be necessary and no building demolition is anticipated. The general layout of the Project site is shown in **Figure 1.1**
- 1.2 An Environmental Impact Assessment (EIA) Study for the Project has been undertaken in accordance with the EIA Study Brief (No. ESB-152/2006) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). An EIA Report was approved by the Environmental Protection Department (EPD) on 4 March 2009.
- 1.3 An Environmental Permit (EP) No. EP-339/2009/A was issued on 18 June 2009 for the decommissioning designated project to Civil Engineering and Development Department (CEDD) as the Permit Holder. Cinotech Consultants Ltd. was commissioned by CEDD to undertake the Environmental Monitoring and Audit works for the Former Kai Tak Airport Decommissioning of the remaining parts (Ex-GFS Building and Rader Station).
- 1.4 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for the Project under EP condition 2.1. This is monthly EM&A report summarizing the EM&A works for the Project in March 2010.

#### **Project Organizations**

- 1.5 Different parties with different levels of involvement in the project organization include:
  - Project Proponent Civil Engineering and Development Department (CEDD)
  - Engineer (E) / Engineer's Representative (ER) AECOM
  - Environmental Team (ET) Cinotech Consultants Limited.
  - Independent Environmental Checker (IEC) Nature & Technologies (HK) Limited
  - Environmental Protection Department (EPD) Environmental Regulations Enforcer
  - Contractor Kin Wing Construction Co., Ltd
- 1.6 The responsibilities of respective parties are detailed in Sections 1.4.1 to 1.4.9 of the approved EM&A Manual of the Project.
- 1.7 The key contacts of the Project are shown in Table 1.1 and the organization chart is shown in **Figure 1.2**.

**Table 1.1 Key Project Contacts** 

Party	Role	Name	Position	Phone No.	Fax No.
CEDD	Permit Holder	Mr. Patrick Chan	Senior Engineer	23011464	23694980
AECOM Engineer		Mr. Johnny Leung	Resident Engineer	27980771	27980783
		Mr. Patrick Ko	Assistant Resident Engineer		
		Dr. Priscilla Choy	ET Leader	2151 2089	
Cinotech	Environmental Team	Ms. Cara Heung	Project Coordinator & Audit Team Leader	2151 2078	31071388
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
Environmental		Ir Dr Gabriel C K Lam	Independent Environmental Checker	2877 3122	25110922
Kin Wing	Contractor	Mr. Eric Wong	Site Agent	2637 5066	27259316
Tim Wing	Contractor	Mr. W.P Wong	General Foreman	2037 3000	27237310

#### **Construction Programme**

- 1.8 The site activities undertaken in the reporting month included:
  - Final layer of soil backfilling at Zone C.

#### **Summary of EM&A Requirements**

- 1.9 The EM&A programme requires environmental site audit for decommissioning activities. The EM&A requirements for each parameter are described in the following sections, including:
  - Event Action Plans;
  - Environmental mitigation measures, as recommended in the project EIA study final report; and
  - Environmental requirements in contract documents.
- 1.10 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 3 of this report.

#### 2. ENVIRONMENTAL AUDIT

#### **Site Audits**

- 2.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix A**.
- Site audits were conducted on 4<sup>th</sup>, 11<sup>th</sup>, 19<sup>th</sup> and 26<sup>th</sup> March 2010 for the Project of Kai Tak Development Decommissioning of the remaining parts (Ex-GFS Building and Radar Station) of the former Kai Tak Airport. No non-compliance was observed during the site audits.

#### Status of Environmental Licensing and Permitting

2.3 All permits/licenses obtained for the Projects are summarized in Table 2.1.

#### **Status of Waste Management**

- 2.4 No waste was generated by the activities of both Projects (Kai Tak Development Decommissioning and Decontamination works at South Apron and Decommissioning of the remaining parts (Ex-GFS Building and Rader Station) of the Former Kai Tak Airport) in the reporting month.
- 2.5 The amount of wastes generated by the activities of the Projects in March 2010 is shown in **Appendix B**.

 Table 2.1
 Summary of Environmental Licensing and Permit Status

Valid Period		Details	Status		
From	To	Details	Status		
Environmental Permit (EP)					
EP-339/2009/A 18/06/09 N/A		Decommissioning of the remaining parts (Ex-GFS Building, Radar Station and Hong Kong Aviation Club) of the former Kai Tak Airport	Valid		
Registration of Chemical Waste Producer					
	N/A	Chemical waste types: Spent lubricating oil and oil contaminated	Valid		
	From it (EP) 18/06/09	From To it (EP) 18/06/09 N/A ical Waste Producer	From To  it (EP)  18/06/09 N/A Decommissioning of the remaining parts (Ex-GFS Building, Radar Station and Hong Kong Aviation Club) of the former Kai Tak Airport  ical Waste Producer  Chemical waste types:		

Construction Noise Permit (CNP)						
GW-RE0498-09	16/11/09	28/02/10	Use of Powered Mechanical Equipment (PME) during 00:00-24:00 hours on general holidays (including Sundays), 00:00-07:00 and 19:000-24:00 hours on any day not being a general holiday.	Expired		

#### **Implementation Status of Environmental Mitigation Measures**

2.6 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 2.2**.

**Table 2.2** Observations and Recommendations of Site Inspections

Parameters	Date	<b>Observations and Recommendations</b>	Follow-up
NA	NA	NA	NA

Table 2.3 Observations and Recommendations of Site Audits Followed Up of Previous Month

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	25-02-2010	Reminder Clear the accumulated stagnant water after rain. (Outstanding)	The situation was rectified/improved during the audit session on 04/03/2010.

#### **Non-compliance Recorded during Site Inspections**

2.7 No non-compliance was recorded in the reporting month.

#### **Summary of Mitigation Measures Implemented**

- 2.8 The Contractor has implemented the mitigation measures as recommended in the EIA and the updated EM&A Manual in the reporting month except those mitigation measures not applicable at this stage.
- 2.9 According to the Approved EM&A Manual, mitigation measures are required to be implemented. An updated summary of the EMIS is provided in **Appendix C**.

#### **Implementation Status of Event Action Plans**

2.10 The Event Action Plans for air quality is presented in **Appendix D.** 

#### **Summary of Complaints and Prosecutions**

2.11 No environmental prosecution and complaint was received in the reporting month.

#### **Civil Engineering and Development Department**

Contract No. KL/2008/02

Kai Tak Development-Decommissioning of the remaining parts (Ex-GFS Building and Rader Station) of the former Kai Tak Airport Monthly EM&A Report – March 2010

2.12 There was no environmental complaint and no prosecution received since the commencement of the Project. The Complaint Log is attached in **Appendix E**.

#### 3. FUTURE KEY ISSUES

#### **Key Issues for the Coming Month**

- 3.1 Key environmental issues in the coming month include:
  - Wastewater and runoff discharge from site;
  - Storage of chemicals/fuel and chemical waste/waste oil on site;
  - Watering for dry unpaved area and exposed stockpile;
  - Accumulation of general and construction waste on site;
  - Fugitive emissions of dust or any air pollutants from the biopile(s);
  - Runoff from the stockpiled soils at the biopile(s); and
  - Connecting the vented air from the biopile(s) to blower and carbon adsorption system.

#### **Construction Program for the Next Month**

- 3.2 The site activities would undertake in the next reporting month included:
  - NIL.

#### 4. CONCLUSIONS AND RECOMMENDATIONS

#### **Conclusions**

- 4.1 Environmental audit works were conducted in the reporting month. Site inspections were conducted on a weekly basis. The monitoring results of the reporting month were reviewed and checked.
- 4.2 No environmental prosecution and complaint was received in the reporting month.

#### Recommendations

4.3 According to the environmental audit performed in the reporting month, the following recommendations were made:

#### **Dust Impact**

- To implement dust suppression measures on all haul roads, stockpiles, dry surfaces and excavation works.
- To implement dust control measures for the dust generation work such as cement mixing and excavation works.
- To ensure water spray being applied for the dust emissive works, such as loading and unloading of soil materials and excavation works.
- To cover soil stockpiles and exposed slope surface by impervious tarpaulin sheets or

other means.

- To ensure that all vehicles carrying dusty material are properly covered before leaving the site.
- To maintain the machinery and vehicles in a good working condition on site.
- To ensure that all vehicles use wheel washing facility or equivalent measures before leaving the site.

#### Noise Impact

- To inspect the noise sources inside the site.
- To space out noisy equipment and position the equipment as far away as possible from sensitive receivers.
- To review the works sequence of site activities so as to reduce the number of noisy equipment in concurrent operation.
- To employ quiet powered mechanical equipment if possible.

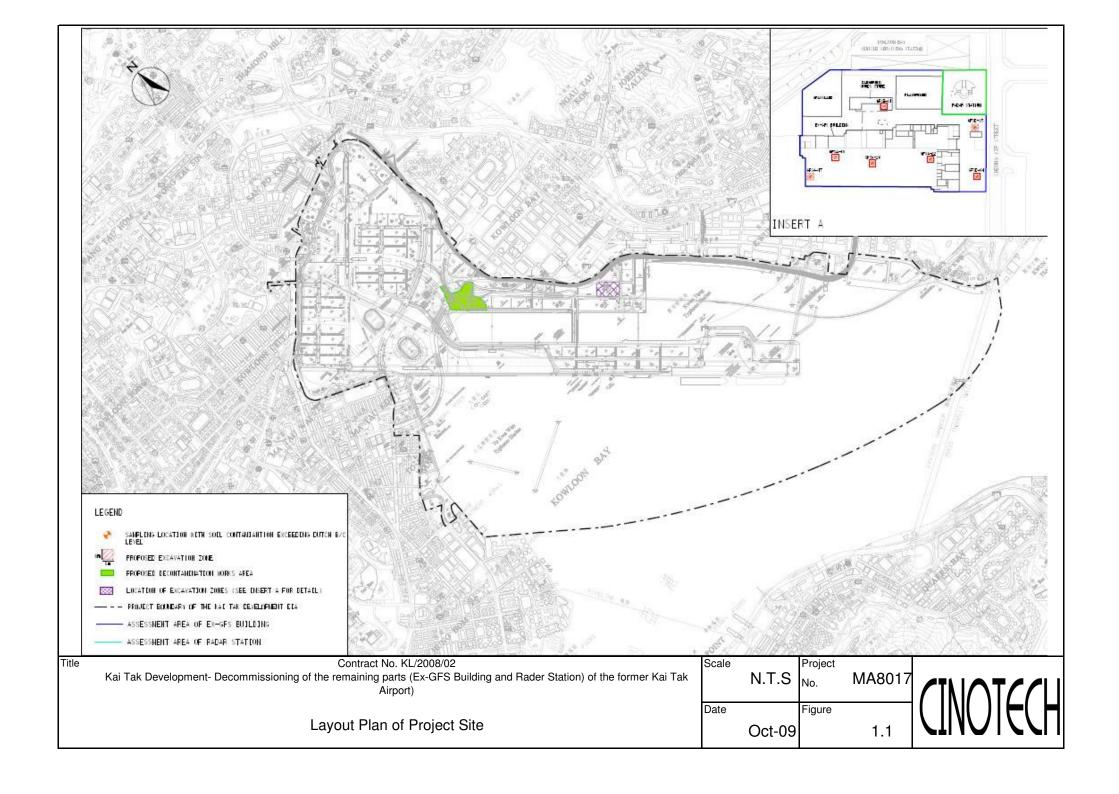
#### Water Impact

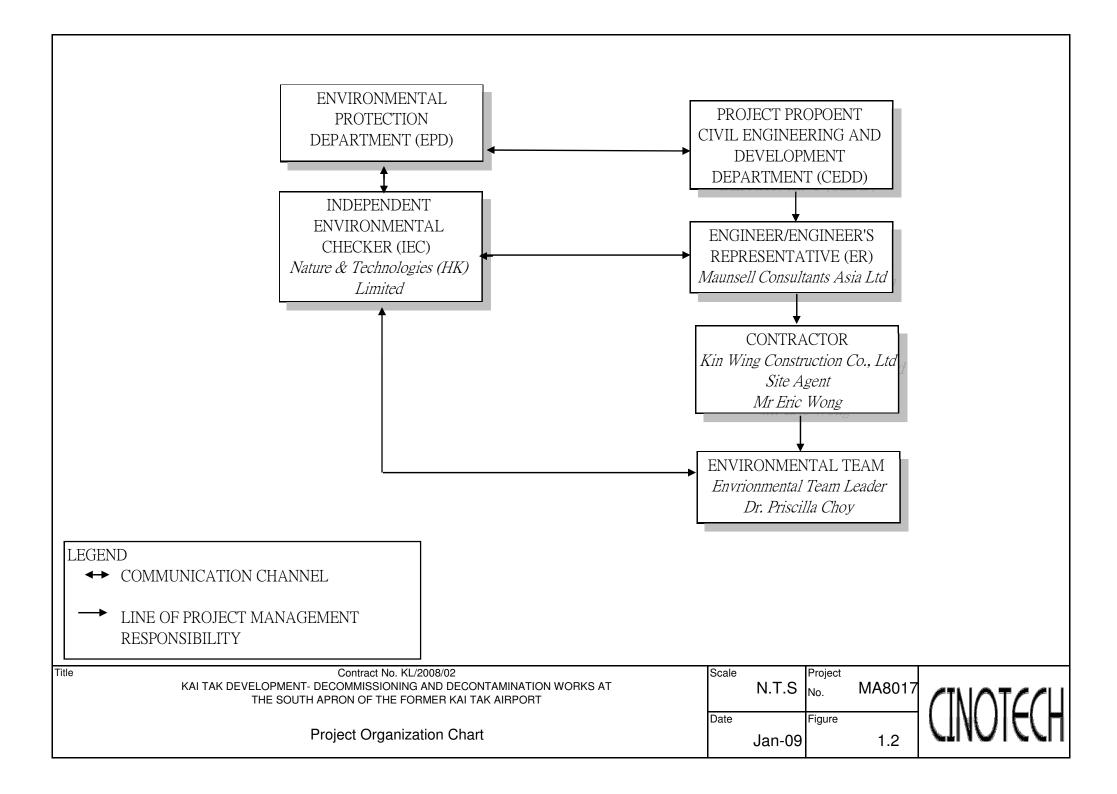
- To prevent contaminated surface runoff discharge into drainage system.
- To ensure properly maintenance for de-silting facilities
- To review the capacity of de-silting facilities for discharge.
- To identify any wastewater discharges from site.
- To avoid accumulation of stagnant and ponding water on site.

#### Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To avoid improper handling or storage of oil drum on site.

## **FIGURES**





#### APPENDIX A SITE AUDIT SUMMARY

# Contract No. KL/2008/02 -- Kai Tak Development - Environmental Team for Decommissioning of the remaining parts (Ex-GFS building and Rader Station) of the Former Kai Tak Airport

## Weekly Site Inspection Record Summary

**Inspection Information** 

Checklist Reference Number	000304
Date	4 March 2010
Time	14:30-15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	<ul> <li>No environmental deficiency was identified during the site inspection.</li> </ul>	
	C. Land Contamination	
	No environmental deficiency was identified during the site inspection.	
	D. Construction Noise Impact	
	No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	A CONTRACTOR OF THE CONTRACTOR
	F. Reminders	
	No environmental deficiency was identified during the site inspection.	
	G. Permit / Licenses	
	No environmental deficiency was identified during the site inspection.	
	H. Others	
	• Follow-up of previous audit session (Ref. 000225), all environmental	
	deficiencies were improved/rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Cara Heung	B	10 March 2010
Checked by	Dr. Priscilla Choy	W.Z.	10 March 2010

000304\_Ex-GFS

CINOTECH MA8017

## Contract No. KL/2008/02 -- Kai Tak Development - Environmental Team for Decommissioning of the remaining parts (Ex-GFS building and Rader Station) of the Former Kai Tak Airport

#### Weekly Site Inspection Record Summary

**Inspection Information** 

Checklist Reference Number	000311
Date	11 March 2010
Time	14:30-15:00

Ref. No.	Non-Compliance	Related Item No.
_	None identified	=

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during the site inspection.	
	•	THE PROPERTY OF THE PROPERTY O
	C. Land Contamination	
	No environmental deficiency was identified during the site inspection.	
	D. Construction Noise Impact	
	No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	F. Reminders	
	No environmental deficiency was identified during the site inspection.	
	G. Permit / Licenses	
	No environmental deficiency was identified during the site inspection.	
	H. Others	
	• Follow-up of previous audit session (Ref. 000304), all environmental	
	deficiencies were improved/rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Cara Heung	10)	12 March 2010
Checked by	Dr. Priscilla Choy	Wix	12 March 2010

CINOTECH MA8017 000311\_Ex-GFS

## Contract No. KL/2008/02 -- Kai Tak Development - Environmental Team for Decommissioning of the remaining parts (Ex-GFS building and Rader Station) of the Former Kai Tak Airport

## Weekly Site Inspection Record Summary

**Inspection Information** 

Ref. No.

Checklist Reference Number	000319
Date	19 March 2010
Time	14:30-15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	
	·	
Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	No environmental deficiency was identified during the site inspection.	77
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
***	C. Land Contamination	
·	No environmental deficiency was identified during the site inspection.	
	D. Construction Noise Impact	
	No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	F. Reminders	
	No environmental deficiency was identified during the site inspection.	
	G. Permit / Licenses	
	No environmental deficiency was identified during the site inspection.	].
	H. Others	
· · ·	Follow-up of previous audit session (Ref. 000311), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Ms. Cara Heung	1/2	23 March 2010
Checked by	Dr. Priscilla Choy	Wih	23 March 2010

## Contract No. KL/2008/02 -- Kai Tak Development - Environmental Team for Decommissioning of the remaining parts (Ex-GFS building and Rader Station) of the Former Kai Tak Airport

#### Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	000326
Date	26 March 2010
Time	15:00-15:30

Ref. No.	Non-Compliance	Related Item No
_	None identified	
Doc No	Paragraphy (Ohrangarthau)	D 1 4 1 17 N
Ref. No.	Remarks/Observations	Related Item No
	A. Water Quality	
	No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during the site inspection.	
	•	***************************************
	C. Land Contamination	
	No environmental deficiency was identified during the site inspection.	
	D. Construction Noise Impact	
	No environmental deficiency was identified during the site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	F. Reminders	
	No environmental deficiency was identified during the site inspection.	
	G. Permit / Licenses	
	No environmental deficiency was identified during the site inspection.	
	H. Others	
	• Follow-up of previous audit session (Ref. 000319), no major	
	environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Ms. Cara Heung	12	29 March 2010
Checked by	Dr. Priscilla Choy	NA	29 March 2010

CINOTECH MA8017 000326\_Ex-GFS

## APPENDIX B WASTE GENERATED QUANTITY

KL/2008/02

#### Monthly Summary Waste Flow Table for 2010 (year)

(All quantities shall be rounded off to 3 decimal places.)

		Actual Qua	ntities of Inert C&I	Materials Generat	ed Monthly			Actual Quantities	of C&D Wastes Ge	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr											
May											
June											
Sub-total											
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total											

	Forecast of Total Quantities of C & D Materials to be Generated from the Contract												
Total Quantity	Hard Rock and	Reused in the	Reused in other	Disposed as	Imported Fill	Metals	Paper/cardboard	Plastics	Chemical Waste	Others, e.g. general			
Generated	Large Broken	Contract	Projects	Public Fill			packaging	(see Note 3)		refuse			
	Concrete												
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )			
18.704	7.150	7.150	0.000	0.000	16.000	11.000	0.000	0.000	2.250	0.200			

Notes:

- The performance targets are given in the PS Clause 6(14). (1)
- The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site. (2)
- Plastics refer to plastics bottles/containers, plastic sheets/foam from packaging material. (3)
- (4) The contractor shall also submit the lastest forecast of the total amount of C & D materials expected to be generated fro the Works, together with a breakdown of the nature where the total amount of C & D materials expected to be generated from the Works is equal to or exceeding 50,000m3. (PS Clause 1.105(4)(b) refers.

<sup>\*</sup> This waste flow table is shared by both Projects [Kai Tak Development-Decommissioning and Decontamination works at South Apron of the Former Kai Tak Airport and Decommissioning of the remaining parts (Ex-GFS Building and Rader Station) of the former Kai Tak Airport]

APPENDIX C ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

## Appendix C Environmental Mitigation Implementation Schedule (EMIS)

**Appendix C1** Implementation Schedule for Land Contamination Measures

Environmental Protection Measures / Mitigation Measure	s Location / Timing	Implementation	Imple	ementati	ion Sta	ges*	Status
Environmental Protection Measures / Mittgation Measure	S Location / Tilling	Agent	Des	De	Ex	Tre	Status
Excavation and decontamination works							
Personal protective equipment (PPE) shabe used by site workers during se excavation / free product skimming.		Contractor			√	√	۸
When free product is detected groundwater surface during excavation, it free product shall be skimmed off, drumme properly, stored in a designated drum storage area with containment and collected by licensed chemical waste collector for propidisposal.	e During excavation d e a	Contactor			√		۸
All contaminated soil within the Project are shall be excavated and treated on-site at centralized decontamination works are located at the northern part of the sou apron.	a During excavation a	Contractor	√		√	V	۸
<ul> <li>After excavation, confirmation sampling artesting shall be conducted to ensu complete excavation of contaminated soils.</li> </ul>		Contractor	√		√		^
Contaminated soils shall be sorted an handled with respect of their contamination.	d Excavation zones / During excavation	Contractor			√		^

Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Imple	ementati	on Sta	ges*	Status
Environmental Frotection Measures / Mittigation Measures	Location / Inning	Agent	Des	De	Ex	Tre	Glalus
Health and safety plan for excavation shall be followed.	Excavation zones / During excavation	Contractor			√		۸
<ul> <li>The following remediation processes shall be applied for different types of soil contamination:         <ul> <li>Biopiling for TPH/VOCs/SVOC contamination;</li> <li>Solidification/stabilization for metal contamination</li> <li>Biopiling and solidification/stabilization for TPH and metal contamination</li> </ul> </li> </ul>	Decontamination works area / During excavation	Contractor	V		√	√ √	۸
To minimise the potentially adverse environmental impacts arising from the handling of potentially contaminated materials.							
The skimmed free product should be drummed properly, stored in a designated drum storage area with containment and collected by a licensed chemical waste collector for proper disposal. The storage of	Excavation zones and / During excavation, soil treatment Excavation zones	Contractor			V		۸
skimmed free product should comply	and decontamination	Contractor	$\sqrt{}$		$\sqrt{}$		

Environmental Protection Measures / Mitigation Meas	res Location / Timing	Implementation	Imple	mentati	on Sta	ges*	Status
	Des		De	Ex	Tre	Ciaius	
with the requirements in the W Disposal (Chemical Waste) (Gene Regulation including the type of d and containment measures.	ral) excavation, soil						
Excavation and Transportation							
Excavation profiles must be profiled and executed.	erly						٨
Stockpiling site(s) shall be lined impermeable sheeting and bun Stockpiles shall be properly covered impermeable sheeting to reduce emission. If this is not practicable du frequent usage, regular misting shall applied. Watering shall be avoided stockpiles of contaminated soil to minicontaminated runoff.	ded. by dust to be on						
<ul> <li>Stockpiles of contaminated soil should properly covered by impermeable sheeting minimize contaminated runoff from stockpiles.</li> </ul>	g to						٨
<ul> <li>Excavation and stockpiling shall be ca out during dry season as far as possib minimise contaminated runoff contaminated soils.</li> </ul>							۸
Supply of suitable clean backfill materi needed after excavation.	al is						۸
Vehicles containing any excavated mate should be suitably covered to limit pote	rials and decontamination	Contractor	V			<b>√</b>	۸

Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Imple	ementati	on Sta	ges*	Status
Environmental Protection Measures / Intagation Measures	Location / Timing	Agent	Des De		Ex	Tre	Cialas
dust emissions or contaminated wastewater run-off, and truck bodies and tailgates should be sealed to prevent any discharge during transport or during wet conditions.	works area/ During excavation, soil treatment						
Speed control for the trucks carrying contaminated materials should be enforced;							۸
<ul> <li>Vehicle wheel and body washing facilities at the site's exist points shall be established and used.</li> </ul>							Λ
Biopiling							
To avoid fugitive emissions of dust or any air pollutants from the biopile(s) and to minimise runoff from the stockpiled soils, the stockpiled soils at the biopiles shall be covered by impermeable sheeting such that not longer than 5m of the biopile is exposed to open air.							*
Impermeable sheeting shall be placed at the bottom of the biopiles and leachate collection sump shall be constructed along the perimeter of the biopiles to prevent leachate from contaminating the underlying soil/groundwater. All leachate generated from the operation of biopiling shall be collected and recycled to the biopile.							۸
The vented air from the biopile(s) shall be connected to blower and carbon adsorption system for treatment before release to the atmosphere. Exhaust air from the blower and carbon adsorption system shall be monitored.	Excavation zones and decontamination	Contractor	<b>√</b>			V	۸

Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Imple	mentati	on Sta	Status	
		Agent	Des	De	Ex	Tre	Clara
for VOCs regularly.  Spend activated carbon of the carbon adsorption system shall be replaced at appropriate intervals such that the VOC emission rate from the system is acceptable.  Silencers shall be installed at the biopile blowers to minimise noise impact.  Contaminated runoff from biopile(s) shall be prevented by constructing a concrete bund along the perimeter of the biopiles.  Solidification / Stabilization  Mixing process and other associated material handling activities should be properly scheduled to minimise potential noise impact.  Mixing of contaminated soils and cement / water / other additive(s) should be undertaken at a solidification plant to minimise the potential for leaching.  Runoff from the solidification / stabilization area should be prevented by constructing a concrete bund along the perimeter of the	works area/ During excavation, soil treatment  Excavation zones and decontamination works area/ During design decommissioning, excavation and soil treatment		Des	De	Ex	Tre	^
solidification / stabilization area.							

#### Appendix C2 Implementation Schedule for Waste Management Measures

E. C. Martin Mar	Landing (Timing	Implementation	Imp	lementa	ation St	ages*	Status
Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	De	Ex	Tre	Status
Good Site Practices  Recommendations for good site practices during	Work site / During decommissioning	Contractor		V			
the decommissioning works include:     nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;							۸
training of site personnel in proper waste management and chemical waste handling procedures;							۸
provision of sufficient waste disposal points and regular collection for disposal;							۸
appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;							۸
regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and							۸
a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).							,

Б		Location / Timing	Implementation	Imp	lementa	ation St	tages*	G. A
Environmen	Environmental Protection Measures / Mitigation Measures		Agent	Des	De	Ex	Tre	Status
	Waste Reduction Measures  Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:	Work site / During design stage, decommissioning, excavation and soil treatment	Contractor	1	√	√	V	
	sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals							٨
	<ul> <li>segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> </ul>							
	<ul> <li>to encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force;</li> </ul>							N/A
	<ul> <li>any unused chemicals or those with remaining functional capacity shall be recycled;</li> </ul>							۸
	<ul> <li>proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> </ul>							N/A
	<ul> <li>plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>							N/A

Endows (Miller Co. Manager (Miller Co. Manager)	To and and I Think to	Implementation	Imp	lement	ation St	ages*	States
Environmental Protection Measures / Milugation Measures	ntal Protection Measures / Mitigation Measures Location / Timing Agent  Agent		Des	De	Ex	Tre	Status
Construction and Demolition Material  C&D material should be sorted on-site into inert C&D material (that is, public fill) and C&D waste. The inert C&D material would require disposal to the designated public fill reception facility. C&D material should be transported from the site by barge wherever possible to reduce environmental impacts associated with road transportation. C&D waste, such as steel and other metals should be re-used or recycled and, as a last resort, disposed of to landfill. It is recommended that a suitable area be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials	Work site / During decommissioning	Contractor		√			٨
In order to monitor the disposal of public fill and C&D waste at the designated public fill reception facility and landfill, respectively, and to control fly tipping, a trip-ticket system should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system	Work site / During decommissioning	Contractor and Independent Environmental Checker		√			۸

F. i. Albert in M. (Miller in M.	T 4: /m: :	Implementation	Imp	lement	ation St	ages*	Gr. 4
Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	De	Ex	Tre	Status
General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material.      Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem	Work site / During decommissioning, excavation and soil treatment	Contractor		1	7	<b>V</b>	^
Chemical Wastes  • After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During decommissioning, excavation and soil treatment	Contractor		V	V	V	^

• Des – Design, De – Decommissioning, Ex – Excavation, and Tre – Soil Treatment

Appendix C3 Implementation Schedule for Water Quality Measures

	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Status			
				Des	De	Ex	Tre	Status			
Decontamination Processes											
	During excavation, all exposed pits shall be whenever possible backfilled immediately or covered. Where it is unavoidable to transiently pile up soils next to the excavation pit, the transient pile shall be bottom-lined, bunded and covered with impervious membrane during rain event in order to avoid generation of contaminated runoff.		Contractor			~		۸			
	<ul> <li>Final surfaces after excavation shall be well compacted and the subsequent permanent work or surface protection shall be carried out as soon as practical after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels and partial shelters shall be provided where necessary to prevent rainwater from collecting within trenches or footing excavations.</li> </ul>	Work site / During excavation	Contractor			√		۸			

Environmental Protection Measures / Mitigation	Location / Timing	Implementation Agent	Implementation Stages*				Status
Measures			Des	De	Ex	Tre	Status
Decontaminated Water and Wastewater from		Contractor	Des	De	<b>Ex</b> √	Tre	^

Environmental Protection Measures / Mitigation	Location / Timing	Implementation Agent	Imp	lement	ation S	tages*	Status
Measures	Location / Timing	implementation Agent	Des	De	Ex	Tre	Status
Operation of Solidification / Stabilization     Facility      The solidification facility shall be sheltered and area of soil unloading / loading shall be provided with shed to avoid contaminated runoff. Excessive addition of water shall be avoided during the solidification process.	Decontamination works area  / During soil treatment	Contractor				V	N/A
<ul> <li>Any pit used for solidification area shall be shallower than the water table to minimize the leaching of the contaminated soils. An impermeable membrane / sheet shall be placed at the bottom of any solidification pit during the solidification process.</li> </ul>	Decontamination works area  / During soil treatment	Contractor				√	N/A
Any leachate generated from the solidification process shall be collected and treated in the centralized wastewater treatment unit before being discharged. The polluting parameters in effluent of the wastewater treatment unit shall be in compliance with the discharge standards stipulated in the TM-DSS before the effluent being discharged. The installation and operation of the wastewater treatment unit shall be licensed and subject to the effluent monitoring as required under the WPCO.	/ During soil treatment	Contractor				√	N/A

Environmental Protection Measures / Mitigation	Location / Timing	Implementation Agent	Imp	lement	ation S	tages*	Status
Measures	Location / Timing	Implementation Agent	Des	De	Ex	Tre	Status
Operation of Biopiling							۸
• Impermeable liner shall be placed at the bottom of the biopiles and leachate collection sump shall be constructed along the perimeter of the biopiles to prevent leachate from contaminating the underlying soil/ groundwater. Concrete bund shall be constructed along the perimeter of biopiles to prevent the runoff coming out from the contaminated soil. Biopiles after formation and during rain shall be covered by anchored low permeability geotextiles to prevent contaminated runoff. It is proposed that the exposed biopile section at any time shall not be more than 5 m in length.		Contractor				<b>V</b>	
All leachate generated from the operation of biopiling shall be collected and recycled to the biopile to avoid effluent discharge.	Decontamination works area  / During soil treatment	Contractor				√	N/A

Environmental Protection Measur	es / Mitigation	Location / Timing	Implementation Agent	Imp	lement	ation S	tages*	Status
Measures	Measures		imprementation rigent	Des	De	Ex	Tre	Surus
Groundwater Cleanup								۸
• Floating oil/free product (of been found in the apron area of site. It is proposed that where detected at the groundwater su excavated area, only the free pskimmed off from the water su skimmed free product shall be properly and collected by a lice waste collector for disposal. The skimmed free product shou with the requirements in the Disposal (Chemical Waste) Regulation including the type and containment measures	of the Ex-GFS free product is urface at product shall be rface. The drummed ensed chemical he storage of ld comply e Waste (General) pe of drum		Contractor			√ V		
Petrol interceptor should be ac appropriate, as the first tier of removal TPH contaminant fror runoff and effluent discharge f decontamination works area.	dopted, where treatment to n contaminated	Work site / During the decommissioning, excavation and soil treatment	Contractor		√	1	1	N/A

Environmental Protection Measures / Mitigation	Location / Timing	Implementation Agent	Imp	lement	ation S	tages*	Status
Measures	Location / Timing	Implementation Agent	Des	De	Ex	Tre	Status
<u>Unit</u>	Work site / During the decommissioning, excavation and soil treatment	Contractor		V	V	<b>V</b>	N/A
Demolition Works							
	Work site / During decommissioning	Contractor		V			N/A
	Work site / During decommissioning	Contractor		<b>V</b>			N/A

	Environmental Protection Measures / Mitigation	Location / Timing	Implementation Agent	Imp	Implementation Stag		tages*	Status
	Measures	Measures Location / Timing Implementation Agent I		Des	De	Ex	Tre	Status
	TPH, BTEX and selected metals. Parameters included in the WPCO licence, will also be included in the monitoring programme. The chemical testing of water samples collected in the monitoring programme should be undertaken by a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory. Detail monitoring programme / plan will be submitted at later stage for EPD's agreement.							
Sewage fr	rom Workforce							
	Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible for appropriate disposal of waste matter and maintenance of these facilities.	Work site / During the decommissioning, excavation and soil treatment	Contractor		√	√	V	N/A
Accumula	ntion of Solid Waste and Accidental Spillage							
	Debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering into the adjacent harbour waters. Stockpiles of cement and other construction materials should be kept covered when not being used.	Work site / During decommissioning, excavation and soil treatment	Contractor		√	√	V	۸
	<ul> <li>Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to the nearby harbour waters, all</li> </ul>	Work site / During the decommissioning, excavation and soil	Contractor		√	√	V	۸

	Environmental Protection Measures / Mitigation	Location / Timing Implementation Agent		Imp	lement	ation S	tages*	Status
	Measures	Location / Timing	Implementation Agent	Des	De	Ex	Tre	Status
	fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.	treatment						
Site Inspe	ection							
	Regular site inspections shall be undertaken to inspect the works areas in order to ensure that the recommended mitigation measures are properly implemented.	Work site / During decommissioning, excavation and soil treatment	Contractor		√	√	$\checkmark$	۸

<sup>\*</sup> Des - Design, De - Decommissioning, Ex – Excavation, and Tre - Soil Treatment

Appendix C4 Implementation Schedule for Air Quality Measures

	To and and I The second	Implementation	Impl	ementa	tion Sta	ages*	Clada
Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	De	Ex	Tre	Status
Good site practices to minimise dust and other air pollutants impacts during soil excavation, transportation, loading and unloading the excavated contaminated soils  • Excavation profiles should be properly designed and	Work site / During decommissioning, excavation and soil treatment	Contractor		<b>√</b>	<b>√</b>	<b>V</b>	۸
<ul> <li>executed.</li> <li>The excavation area should be limited to as small in size as possible and backfilled with clean and/or treated soil shortly after excavation work.</li> </ul>							۸
The exposed excavated area shall be covered by the tarpaulin during night time.							۸
<ul> <li>The top layer soils shall be sprayed with fine misting of water immediately before the excavation.</li> </ul>							۸
<ul> <li>Stockpiling site(s) shall be lined with impermeable sheeting and bunded. Stockpiles shall be properly covered by impermeable sheeting to reduce dust and other air pollutants emission.</li> </ul>							۸
<ul> <li>Misting for the dusty material shall be carried out before being loaded into the vehicle.</li> </ul>							
<ul> <li>Any vehicle with an open load carrying area shall have properly fitted side and tail boards.</li> </ul>							۸
<ul> <li>Material having the potential to create dust shall not be loaded from a level higher than the side and tail boards and shall be dampened and covered by a clean tarpaulin.</li> </ul>							

Period Ind. Co. March (Miller)	Tanadan (Transa	Implementation	Impl	ementa	tion Sta	ages*	CALA
<b>Environmental Protection Measures / Mitigation Measures</b>	Location / Timing	Agent	Des	De	Ex	Tre	Status
The tarpaulin shall be properly secured and shall extent at least 300 mm over the edges of the sides and tailboards. The material shall also be dampened if necessary before transportation.							^
The vehicles shall be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. On- site unpaved roads shall be compacted and kept free of lose materials.							۸
Vehicle washing facilities should be provided at every vehicle exit point.							۸
The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.							
Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet.							۸
Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides.							N/A
Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.							۸

N/A N/A N/A
N/A
N/A
N/A
۸
*
N/A
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Fundamental Durkastian Magazine / Mitigatian Magazine	Landin / Timina	Implementation	Impl	Implementation Stages*			Chahan
Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	De	Ex	Tre	Status
Carbon absorber with 99% control efficiency shall be installed for the biopiling system to treat the off-gas prior to discharge and the location of the exhaust of the carbon filter should be sited as far away as possible from the nearby ASRs.							۸
Spent activated carbon of the carbon absorber shall be replaced regularly such that the VOC emission rate from the system is acceptable (i.e. the measured TVOC is below 20 ppm). The carbon adsorption system should also be monitored regularly to check the performance of the carbon filter.							۸
Gas samples at the exhaust of the carbon filter for VOCs should be monitored regularly. The biopile operation shall be terminated when unacceptable air quality is monitored at the site boundary. Resumption of biopiling will only be allowed after confirmation and implementation of appropriate mitigation measures.							^

\*Des - Design, De - Decommissioning, Ex – Excavation, and Tre - Soil Treatment

Appendix C5 Implementation Schedule for Noise Measures

Environmental Protection Measures / Mitigation	Location / Timing	Implementation	Imple	menta	tion St	ages*	Chahua
Measures		Des	De	Ex	Tre	Status	
Good site practices to be implemented:	Work Site / During	Contractor		√	<b>√</b>	<b>√</b>	۸
Only well-maintained plant should be operated on- site and plant should be serviced regularly during the construction program.	decommissioning, excavation and soil treatment						۸
Mobile plant, if any, should be sited as far away from NSRs as possible.							, and the second
Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.							۸
Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.							۸
Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.							۸

<sup>\*</sup> Des - Design, De - Decommissioning, Ex – Excavation, and Tre - Soil Treatment

Appendix C6 Implementation Schedule for Marine Ecological Measures

	Engineers and Durks stirm Managers / Midigation Managers	Implementation		Imp	lement	ation S	tages*	Status
	Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	De	Ex	Tre	Status
-	<ul> <li>As no significant ecological impact on marine habitats and associated wildlife is predicted, no necessary mitigation measure is considered as required in this assessment. The mitigation measures recommended in the water quality assessment to control water quality would serve also to protect marine ecological resources from indirect impacts and ensure no adverse impact on marine life would be resulted from the Project.</li> </ul>	N/A	N/A					N/A

 $<sup>^{\</sup>star}$  Des - Design, De - Decommissioning, Ex – Excavation, and Tre - Soil Treatment

Remarks:  $^{\wedge}$  Compliance of mitigation measure; X Non-compliance of mitigation measure;

N/A Not Applicable;

- Non-compliance but rectified by the contractor;
- \* Recommendation was made during site audit but improved/rectified by the contractor;
- # Non-compliance but rectified/improved by the contractor and awaiting IEC's further comment.

## APPENDIX D EVENT ACTION PLANS

# **APPENDIX D - Event and Action Plan**

**Table D-1 Event / Action Plan for Air Quality** 

	ACTION				
EVENT	ET	IEC ER		CONTRACTOR	
ACTION LEVEL					
1.Action Level being exceeded by one sampling 2. Action Level	Identify source and investigate the causes of exceedance;     Inform Contractor, IEC and ER;     Repeat measurement to confirm finding.	Check monitoring data submitted by ET; and     Check Contractor's working method.      Checking monitoring data	Notify Contractor.      Confirm receipt of notification of	Rectify any unacceptable practice; and     Amend working methods if appropriate.      Discuss with ET and IEC on	
being exceeded by two or more consecutive sampling	<ol> <li>Identify source and investigate the causes of exceedance;</li> <li>Inform Contractor, IEC and ER;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>Assess the effectiveness of Contractor's remedial actions;</li> <li>If exceedance continues, arrange meeting with IEC and ER; and</li> <li>If exceedance stops, cease additional monitoring</li> </ol>	submitted by ET;  2. Check Contractor's working method;  3. Discuss with ET and Contractor on possible remedial measures; and  4. Advise the ER on the effectiveness of the proposed remedial measures.	confirm receipt of notification of exceedance in writing;     Notify Contractor;     In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;     Supervise implementation of remedial measures; and     Conduct meeting with ET and IEC if exceedance continues.	proper remedial actions;  2. Submit proposals for remedial actions to ER and IEC within 3 working days of notification;  3. Implement the agreed proposals; and  4. Amend proposal if appropriate	
LIMIT LEVEL					
1.Limit Level being exceeded by one sampling	Identify source and investigate the causes of exceedance;     Inform Contractor, IEC, ER and EPD;     Repeat measurement to confirm finding; and     Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and ER informed of the results.	Check monitoring data submitted by ET;     Check Contractor's working method;     Discuss with ET and Contractor on possible remedial measures; and     Advise the ER on the effectiveness of the proposed remedial measures.	Confirm receipt of notification of exceedance in writing;     Notify Contractor;     In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;     Supervise implementation of remedial measures; and     Conduct meeting with ET and IEC if exceedance continues.	Take immediate action to avoid further exceedance;     Discuss with ET and IEC on proper remedial actions;     Submit proposals for remedial actions to ER and IEC within 3 working days of notification; and     Implement the agreed proposals.	
2Limit Level being	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Repeat measurement to confirm findings;</li> </ol>	Check monitoring data submitted by ET;	Confirm receipt of notification of exceedance in writing;	Take immediate action to avoid further exceedance;	

	ACTION				
EVENT	ET	IEC ER		CONTRACTOR	
exceeded by two or more consecutive sampling	3. Carry out analysis of Contractor's working procedures to investigate the causes of exceedance;  4. Increase monitoring frequency to daily;  5. Arrange meeting with IEC, ER and Contractor to discuss the remedial actions to be taken;  6. Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and ER informed of the results; and  7. If exceedance stops, cease additional monitoring	2. Check Contractor's working method; 3. Discuss with ER, ET and Contractor on possible remedial measures; and 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	Notify Contractor;     In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;     Supervise implementation of remedial measures; and     If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.	2. Discuss with ET, ER and IEC on proper remedial actions;     3. Submit proposals for remedial actions to ER and IEC within 3 working days of notification;     4. Implement the agreed proposals;     5. Submit further proposals for remedial actions if problem still not under control; and     6. Stop the relevant portion of works as instructed by the ER until the exceedance is abated.	

Table D-2 Event and Action Plan for Biopiling System Discharge Emissions Monitoring and Ambient VOC Monitoring

INT/IPA/IP	ACTION				
EVENT	ET	IEC	ER	CONTRACTOR	
Exceedance for one sample	Identify source and investigate     the causes of exceedance and	Check monitoring data submitted     by ET.	Confirm receipt of notification of	Take immediate action to avoid  further exceedence:	
	propose remedial measures;	by ET;  2. Check Contractor's working	exceedance in writing;  2. Check Contractor's working	further exceedance;  2. Submit proposals for remedial	
	2. Inform Contactor, IEC and ER;	method;	method;	actions to IEC within 3 working	
	3. Assess effectiveness of	3. Discuss with ET and Contractor	3. Discuss with ET and Contractor	days of notification;	
	Contractor's remedial actions	on possible remedial measures.	on possible remedial measures.	3. Implement the agreed	
	and keep IEC, EPD and ER			proposals;	
	informed of the results.			4. Amend proposal if appropriate.	

ACTION					
ET	IEC	ER	CONTRACTOR		
Identify source and investigate	Check monitoring data submitted	1. Confirm receipt of notification of	Discuss with ET and IEC on		
the causes of exceedance;	by ET;	exceedance in writing;	proper remedial actions;		
2. Inform Contractor, IEC, ER and	2. Check Contractor's working	2. Notify Contractor;	2. Submit proposals for remedial		
EPD;	method;	3. In consolidation with the IEC,	actions to ER and IEC within		
3. Discuss with IEC and Contractor	3. Discuss with ET and Contractor	agree with the Contractor on the	three working days of		
on remedial actions required;	on possible remedial measures;	remedial measures to be	notification;		
4. Assess the effectiveness of	4. Advise the ER on the	implemented;	3. Implement the agreed proposals;		
Contractor's remedial actions;	effectiveness of the proposed	4. Supervise implementation of	4. Resubmit proposals if problem		
5. If exceedance continues, arrange	remedial measures.	remedial measures;	still not under control;		
meeting with IEC and ER.		5. Conduct meeting with ET and	5. Slow down or stop the process as		
		IEC if exceedance continues and	determined by the ER until the		
		instruct the Contractor to slow	exceedance is abated.		
		down or stop the process until the			
		exceedance is abated			
	<ol> <li>Identify source and investigate the causes of exceedance;</li> <li>Inform Contractor, IEC, ER and EPD;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>Assess the effectiveness of Contractor's remedial actions;</li> <li>If exceedance continues, arrange</li> </ol>	ET  Identify source and investigate the causes of exceedance;  Inform Contractor, IEC, ER and EPD;  Inform Contractor, IEC and Contractor on remedial actions required;  Assess the effectiveness of Contractor's remedial actions;  If exceedance continues, arrange  IEC  Check monitoring data submitted by ET;  Check Contractor's working method;  Discuss with ET and Contractor on possible remedial measures;  Advise the ER on the effectiveness of the proposed remedial measures.	ET IEC ER  1. Identify source and investigate the causes of exceedance; by ET; check Contractor's working EPD; are thod; 3. Discuss with IEC and Contractor on remedial actions required; contractor's remedial actions; effectiveness of the effectiveness of the effectiveness of the proposed meeting with IEC and ER.  ET IEC ER  1. Check monitoring data submitted by ET; check contractor's working exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures; checked and the contractor on the implemented; contractor's remedial actions; checked and instruct the Contractor to slow down or stop the process until the		

## APPENDIX E COMPLAINT LOG

### **Civil Engineering and Development Department**

tment Contract No. KL/2008/02
Kai Tak DevelopmentDecommissioning of the remaining parts
(Ex-GFS Building and Rader Station) of the former Kai Tak Airport
Monthly EM&A Report

### APPENDIX E - COMPLAINT LOG

Reporting Month: March 2010

Log Ref.	Ref. Location Received Details of Inverse Complaint		Investigation/Mitigation Action	Status	
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint was received in the reporting month.