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Contract No. AL G513

Expansion of Wo Hop Shek Crematorium

Monthly EM&A Report No.4 (Period from 01 June to 30 June 2020)

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EXECUTIVE SUMMARY

INTRODUCTION

- A1. The Project, Expansion of Wo Hop Shek Crematorium, is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Environmental Permit (EP No. EP 329/2009) for the construction and operation of the Project.
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works for air quality monitoring and waste management should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 4th Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Wo Hop Shek Crematorium during the reporting period from 01 June 2020 to 30 June 2020.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction dust level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, Landscape and Visual and Ecology.

SUMMARY OF MAIN WORKS UNDERTAKEN & KEY MITIGATION MEASURES IMPLEMENTED

- A5. Key activities carried out in this reporting period for the Project included the following:
 - Construction works to raft foundation and footings
 - Construction of basement wall
- A6. The major environmental impacts brought by the above construction works include:
 - Construction noise generation from form-board erection
 - Waste generation from construction activities
- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Reduction of noise from equipment and machinery on-site
 - Sorting and storage of general refuse and construction waste



SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

- A8. No project-related exceedance in air quality monitoring, including 24-hour TSP and 1-hour TSP of the Action Level was recorded during the reporting period.
- A9. Weekly site inspections of the construction work by ET were carried out on 3, 10, 17 & 22 June 2020 to audit the mitigation measures implementation status. Observations were recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

COMPLAINT HANDLING AND PROSECUTION

- A10.No project-related environmental complaint was received during the reporting period.
- A11. Neither notifications of summons nor prosecution was received for the Project.

REPORTING CHANGE

A12. There was no change to be reported that may affect the on-going EM&A programme.

SUMMARY OF UPCOMING KEY ISSUES AND KEY MITIGATION MEASURES

- A13.Key activities anticipated in the next reporting period for the Project will include the following:
 - Erecting tanking block wall
 - Mass filing

A14. The major environmental impacts brought by the above construction works will include:

- Construction noise generation from block wall erection
- Wastewater generation from mass filling
- Waste generation from construction activities
- A15. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
 - Reduction of noise from equipment and machinery on-site
 - Treatment of wastewater from mass filling through sedimentation tank
 - Sorting and storage of general refuse and construction waste



1. Basic Project Information

1.1. BACKGROUND

The Food and Environmental Hygiene Department (FEHD) is responsible for the operation of public crematorium in Hong Kong including the Cremators at Wo Hop Shek Crematorium pursuant to Environmental Permit No. EP-329/2009. The existing Wo Hop Shek Crematorium (WHSC) was re-provisioned in February 2013. It comprises six body cremators, one bone cremator and three service halls. At the design stage, areas had already been reserved for the addition of two body cremators and one service hall. In order to cope with increasing demand for cremation sessions, Expansion of Wo Hop Shek Crematorium (the Project) is being taken forward in this juncture. This Project shall provide two new cremators at WHSC and one service hall for commissioning. Architectural Services Department (ArchSD) acts as the works agent for FEHD, is responsible for the project management of the project.

The Project consists of three construction phases. Phase I of the project was substantially completed in October 2012 while Phase II of the project was substantially completed in November 2013. The Project has been re-initiated as Phase III and Shing Hing Construction Co. Ltd. (the Contractor) has been awarded the construction contract for the Project with contract no. AL G513.

The scope of the Project comprises provision of:

- Two new body cremators;
- One new multi-purpose service hall;
- A full range of ancillary facilities; and
- Addition, alteration and modification works that are necessary for the additional cremators and service hall.

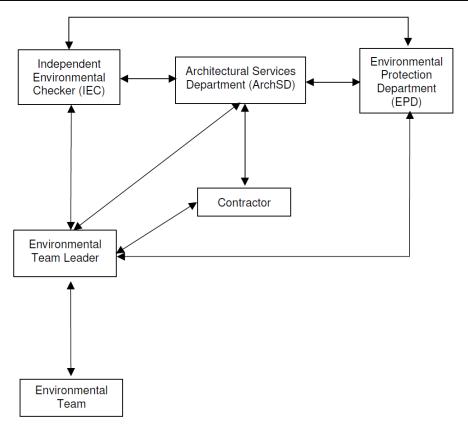
1.2. THE REPORTING SCOPE

This is the 4th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 01 June to 30 June 2020.

1.3. PROJECT ORGANIZATION

The Project Organization structure for Construction Phase is presented in Figure 1.1.





← Line of Communication

Figure 1.1 Project Organization Chart

Contact details of the key personnel are presented in Table 1.1 below:

Table 1.1 Contact Details of Key Personnel

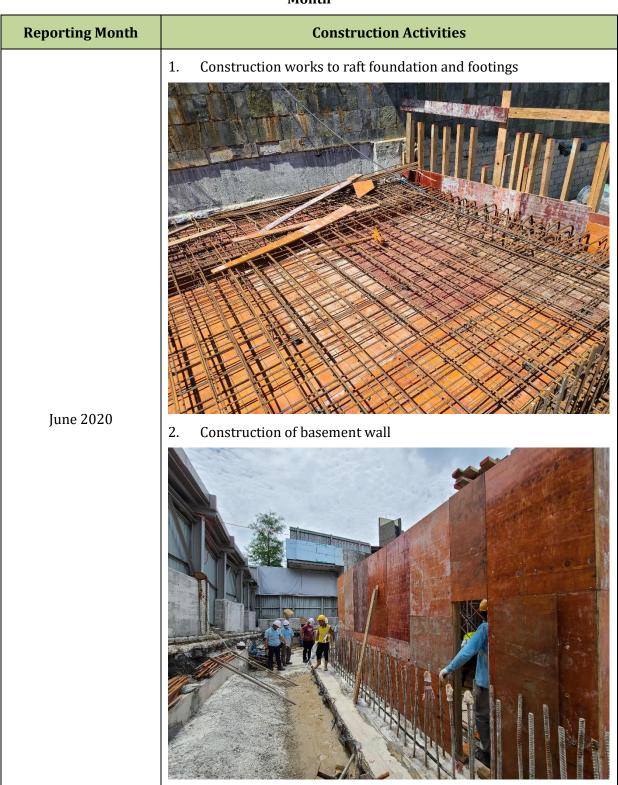
Party	Position	Name	Telephone no.
Shing Hing Construction Co Ltd	Site Agent	M.Y. Wong	2807-4665
Acuity Sustainability Consulting Limited	Environmental Team Leader	Kevin Li	2698-6833
Ove Arup & Partners Hong Kong Ltd	Independent Environmental Checker (IEC)	Sam Tsoi	2528-3031



1.4. SUMMARY OF CONSTRUCTION WORKS

Details of the major construction activities undertaken in this reporting period are shown in Table 1.2 below. The construction programme is presented in **Appendix A**.

Table 1.2 Summary of the Construction Activities Undertaken during the Reporting Month





1.5. SUMMARY OF ENVIRONMENTAL STATUS

Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (EP-329/2009) as of the reporting period for the Project are summarised in Table 1.3.

Table 1.3 Summary of Status of Required Submission for EP-329/2009 for the Project

EP/FEP Condition (EP-457/2013/C)	Submission	Submission date
Condition 1.12	Notification of Commencement Date of Construction of the Project	14 Mar 2020
Condition 2.3	Inception Report	13 Mar 2019
Condition 2.4	Tree Transplant Proposal	12 Apr 2019
Condition 2.5	Landscape Plan with Tree Preservation Proposal	14 Feb 2018
Condition 5.2a	Baseline Monitoring Report	21 Jan 2020
Condition 5.2b	Condition 5.2b Alternative Air Quality Monitoring Station	
Condition 5.4	Monthly EM&A Report (June 2020)	14 July 2020

A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in Table 1.4.

Table 1.4 Summary of the Status of Valid Environmental Licence, Notification, Permit and Documentations

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit	EP-329/2009	Throughout the Contract	-
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)	Ref. Number: 455614	Throughout the Contract	-
Wastewater Discharge Licence	WT00034798-2019	10 Oct 2020 – 31 Oct 2024	-



Chemical Waste Producer Registration	5213-632-S4245-01	Throughout the Contract	-
Construction Noise Permit (24 hours)	GW-RN0022-20	25 Jan 2020 – 12 July 2020	-
Billing Account for Disposal of Construction Waste	7032841	Throughout the Contract	-

The status for all environmental aspects is presented in Table 1.5.

Table 1.5 Summary of Status for Key Environmental Aspects under the Updated EM&A Manual

Parameters	Status
Dust	
Baseline Monitoring	The baseline dust monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 5.2a.
Impact Monitoring	On-going
Waste Management	
Mitigation Measures in Waste Monitoring Plan	On-going
Environmental Audit	
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Landscape and Visual	On-going

Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.

The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the Updated EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix C**.



2. Monitoring Results

2.1. MONITORING PARAMETERS

The impact monitoring had been carried out in accordance with section 2.6 of the approved EM&A Manual to determine the 1-hour and 24-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting month.

The sampling frequency of at least once in every 6 days, shall be strictly observed at the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least 3 times in every 6 days should be undertaken when the highest dust impact occurs.

General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

2.2. Monitoring Equipment

1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meter and High Volume Samplers respectively. It has been demonstrated its capability in achieving comparable results with high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50).

The 1-hour TSP meter was calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter followed manufacturer's Operation and Service Manual. The 24-hour TSP meter was calibrated against firmware 80570-8100-V1.0.4, annually. Operation of the 24-hour TSP meter followed manufacturer's Operation and Service Manual. Valid calibration certificate of dust monitoring equipment is attached in **Appendix F**.

A summary of the equipment that was deployed for the 24- hour averaged monitoring is shown in Table 2.1. The TSP monitoring was conducted as per the schedule presented in **Appendix D**.

The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in Table 2.1.



Table 2.1 Construction Dust Monitoring Equipment

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	992818	03 Sep 2019
1-hour TSP	LD-5R Digital Dust Indicator	851820	23 Aug 2019
TE-5170X High Volume Sample		1049	01, 18 June 2020
24-hour TSP	TE-5170X High Volume Sampler	1050	01, 18 June 2020
	TE-5028A Calibration Kit	3702	10 Oct 2019

2.3. Monitoring Methodology and QA/QC results

The 1-hour TSP monitor, portable dust meters (Sibata Digital Dust Indicator Model LD-5R) was used for the impact monitoring. The 1-hour TSP meters provides a real time 1-hour TSP measurement based on 90° light scattering. Three 1-hour TSP level were logged per every six days.

The 24-hour TSP monitor, High Volume Samplers (Tisch TE-5170X High Volume Air Sampler) were used for the impact monitoring. The 24-hour TSP monitoring consists of the following:

- The HVS was set at the monitoring location, with electricity supply connected and secured;
- HVS was calibrated before commencing the 1st measurement;
- The filter paper was weight and provided by HOKLAS lab (Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Ltd) before and after the sampling. Certificate of HOKLAS accredited laboratory can be referred to **Appendix G**;
- The airflow over time during sampling process was recorded by the HVS.

HVSs was free- standing with no obstruction. The following criteria were considered in the installation of the HVS:

- Appropriate support to secure the samples against gusty wind needed to be provided the monitoring station;
- A minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
- No furnace or incinerator flues was nearby;
- Airflow around the sampler was unrestricted; and
- Permission could be obtained to set up the samplers and gain access to the monitoring station.



Preparation of Filter Papers

- Glass fiber filters were labelled and sufficient filters that were clean and without pinholes were selected;
- ◆ All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not varied by more than ±3°C; the relative humidity (RH)was 40%; and
- Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Limited, as HOKLAS accredited laboratory, implemented comprehensive quality assurance and quality control programmes on the filters.

Field Monitoring

- The power supply was checked to ensure that the HVS was working properly;
- The filter holder and area surrounding the filter were cleaned;
- The filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid was closed and secured with an aluminum strip;
- The HVS was warmed- up for about 5 minutes to establish run- temperature conditions;
- A new flow rate record sheet was inserted into the flow recorder;
- The flow rates of the HVS was checked and adjusted to between 1.22-1.37^{m³min-³}, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 ^{m³min-³});
- The programmable timer was set for a sampling period of 24 hours ±hour, and the starting time, weather condition and filter number were recorded;
- The initial elapsed time was recorded;
- At the end of sampling, the sampled filter was removed carefully and folded in half so that only surfaces with collected particulate matter were in contact;
- The filter paper was placed in a clean plastic envelope and sealed; all monitoring information was recorded on a standard data sheet and
- The filters were sent to (Acumen Laboratory and Testing Ltd and ALS Technichem (HK) Pty Ltd) for analysis.



Maintenance and Calibration

- The HVS and their accessories were maintained in a good working condition. For example, motor brushes were replaced routinely and electrical wiring was checked to ensure a continuous power supply; and
- The flow rate of each HVS with mass flow controller was calibrated using an orifice calibrator, Initial calibrations of the dust monitoring equipment were conducted upon installation and prior to commissioning. Five- point calibration was carried out for HVS using TE-5025 Calibration Kit. HVS is calibrated bimonthly. The calibration records for the HVS is given in **Appendix F**.

Wind Data Monitoring

• The wind speed has been recorded from Hong Kong Observatory- Tai Po Kau meteorological station, along with portable wind speed meter stand by as back up if malfunction occurred or data was not recorded from HKO.

2.4. MONITORING LOCATIONS

Due to the disagreement of occupants in establishment of air quality monitoring station at their private permits, both of the original proposed dust monitoring locations were rejected. Two alternative air monitoring stations Fung Kai Liu Yun Sum Memorial School and Fanling Government School had been proposed by ET and approved by IEC. Two designated air monitoring locations were identified and agreed with IEC and EPD. Details of air monitoring stations are described in Table 2.2. The location plan of air quality monitoring stations is shown in **Appendix H**.

Table 2.2 Location of the Dust Monitoring Stations

Air Quality Monitoring Station	Dust Monitoring Station	
A10	Fung Kai Liu Yun Sum Memorial School	
A20	Fanling Government School	

2.5. Monitoring date, time, frequency and duration

A summary of impact monitoring duration, sampling parameter and frequency is presented in Table 2.3.



 Table 2.3
 Summary of Impact Monitoring Programme

Impact Monitoring	Duration	Sampling Parameter	Frequency
Dust	1-hour continuous measurement	1-hour TSP	3 times per six days
Dust	24-hour continuous sampling	24-hour TSP	Once per six days

2.6. RESULT SUMMARY

According to our field observations, the major dust source identified at the designated air quality monitoring station in the reporting month are summarised in Table 2.4.

Table 2.4 Observation at Dust Monitoring Station

Monitoring Station	Major Dust Source
A10	Nearby traffic
A20	Nearby traffic

Air quality impact monitoring for the reporting month was carried out 01, 09, 12, 18, 24 and 29 June 2020 at A10 and A20.

The results for 1-hour TSP and 24-hour TSP are summarized in Table 2.5 and Table 2.6. The measurement data and details of influencing factors such as weather conditions and site observation are presented in **Appendix I**.

Table 2.5 Summary of 1-hour TSP Monitoring Results

Monitoring Location Range(μg/m³)		Action Level(μg/m³)	Limit Level(μg/m³)	
A10	25 - 57	290	500	
A20	27 - 64	291	500	

Table 2.6 Summary of 24-hour TSP Monitoring Results

Monitoring Location	Monitoring Location Range(μg/m³)		Limit Level(µg/m³)		
A10	7 - 21	169	260		
A20	9 - 18	167	260		



3. WASTE

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in Table 3.1. Details of cumulative waste management data are presented as a waste flow table in **Appendix J.**

Table 3.1 Quantities of Waste Generated from the Project during June 2020

Reporting Month	Actua	Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of C&D Wastes Generated Monthly					
	-	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)	Chemical Waste	Others, e.g. general refuse
	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)
June 202	0 1.86	0	0	0	0	0	0	0	0	0	1.86

Notes:

(1) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



4. Summary of Monitoring Exceedance, Complaints, Notification of Summons and Prosecutions

The Environmental Complaint Handling Procedure is shown in below Figure 4.1:

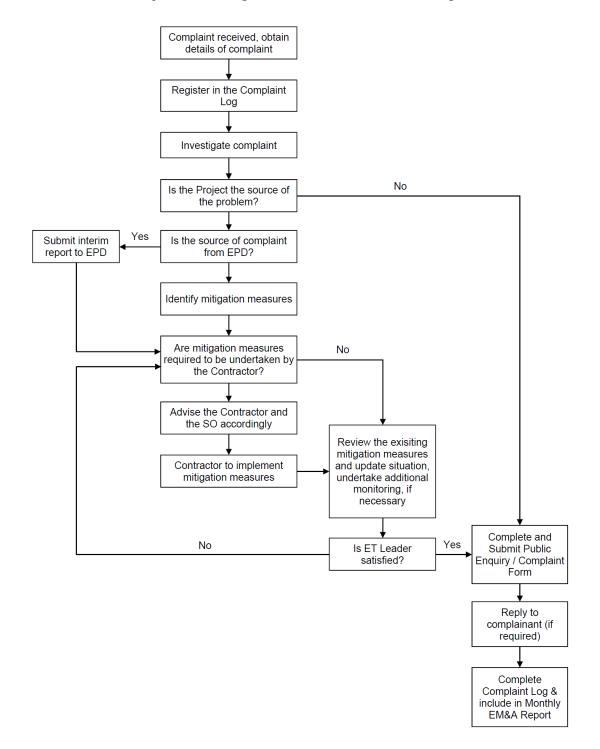


Figure 4.1 Environmental Complaint Handling Procedures



Air quality monitoring was conducted in the reporting period and no project-related exceedance of the Action Level was recorded during the reporting period.

No notification of summons and prosecution was received in the reporting period.

Statistics on complaints and regulatory compliance are summarized in **Appendix L**.



5. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 03, 10, 17 and 22 June 2020 at the site portions list in Table 5.1 below.

Table 5.1 Summaries of Site Inspection Reccord

Date	Inspected Site Portion	Time
03 June 2020	Wo Hop Shek Crematorium	10:30 - 10:45 AM
10 June 2020	Wo Hop Shek Crematorium	10:30 - 10:45 AM
17 June 2020	Wo Hop Shek Crematorium	10:10 - 10:25 AM
22 June 2020	Wo Hop Shek Crematorium	10:30 - 10:45 AM

Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 5.2**.

According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix C**.

Site inspection proforma of the reporting period is provided in **Appendix K.**



Table 5.2 Site Observations

Date	Environmental Observations	Follow-up Status
	Observation(s) and Recommendation(s)	
03 June 2020	1. No major observation was observed.	
		Nil.
(Site inspection)		
	Observation(s) and Recommendation(s)	
	1. No major observation was observed.	1. Plastic bottles on site are reminded to be put into the
10 June 2020		recycling bin.
(Site inspection)		
	Observation(s) and Recommendation(s) 1. No major observation was observed.	Housekeeping should be maintained.
17 June 2020	1. No major observation was observed.	1. Housekeeping should be maintained.
(Site inspection)		

22 June 2020 (Site inspection)



Observation(s) and Recommendation(s):

1. The exposed soil surface was not covered with impervious sheeting.



1. The exposed soil surface was covered with impervious sheeting. to mitigate construction dust pollution





6. Future Key Issues

Works to be undertaken in the next reporting month are:

- Erecting tanking block wall
- Mass filing

The major environmental impacts brought by the above construction works will include:

- Construction noise generation from block wall erection
- Wastewater generation from mass filling
- Waste generation from construction activities

The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:

- Reduction of noise from equipment and machinery on-site
- Treatment of wastewater from mass filling through sedimentation tank
- Sorting and storage of general refuse and construction waste

The impact monitoring schedule for the next reporting month to be shown at **Appendix M**.



7. CONCLUSIONS AND RECOMMENDATIONS

This is the 4th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 01 June to 30 June 2020., in accordance with the EM&A Manual and the requirement under EP – 329/2009.

Air quality monitoring was conducted in the reporting period and no project-related exceedance of the Action Level was recorded during the reporting period.

Weekly environmental site inspection was conducted during the reporting period. Some observations were observed during site inspection and rectifications had been accomplished by contractor within a week after site inspection. The environmental performance of the project was therefore considered satisfactory.

No environmental complaint was received in the reporting period.

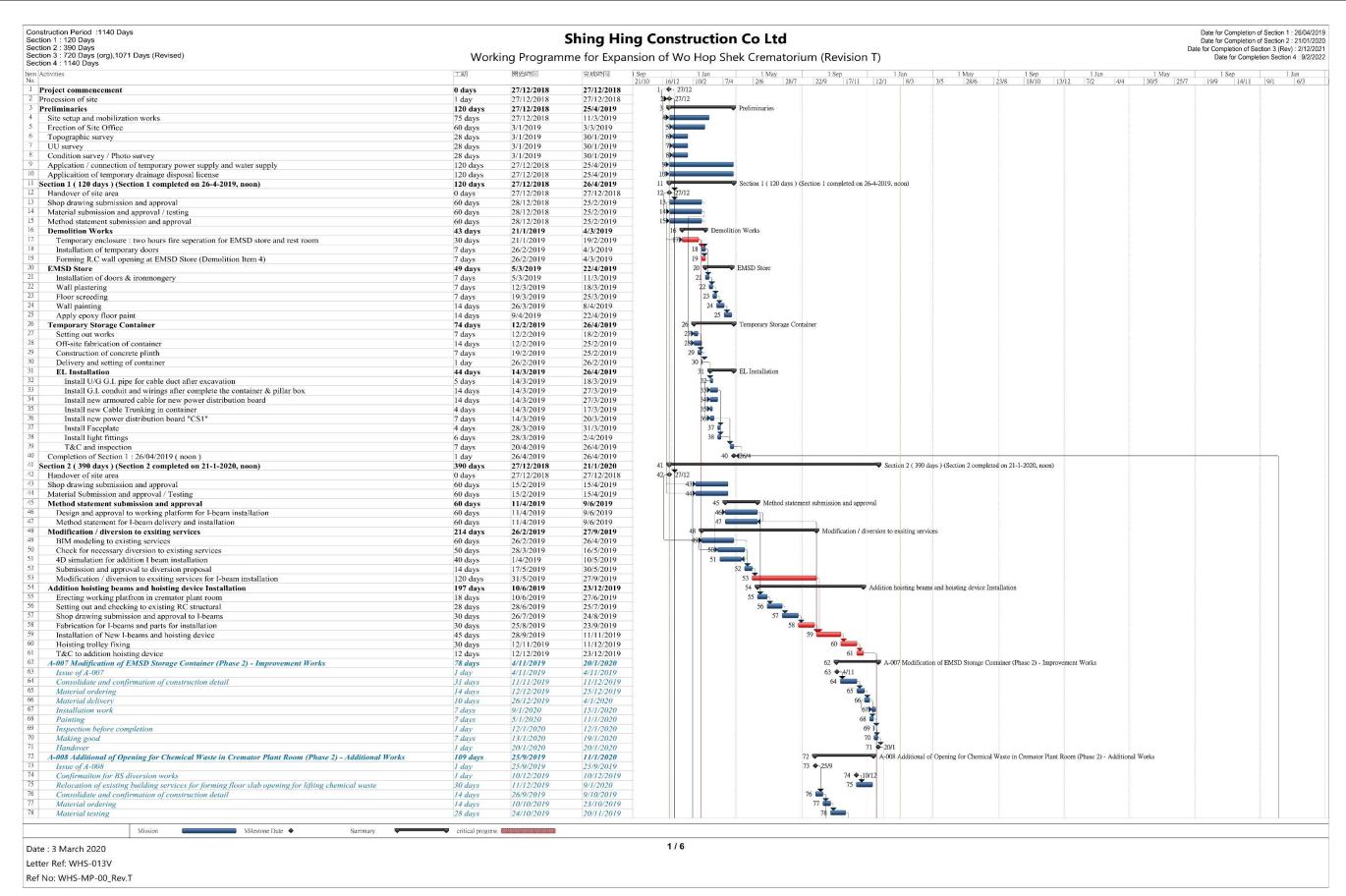
No notification of summons or prosecution was received since commencement of the Contract.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

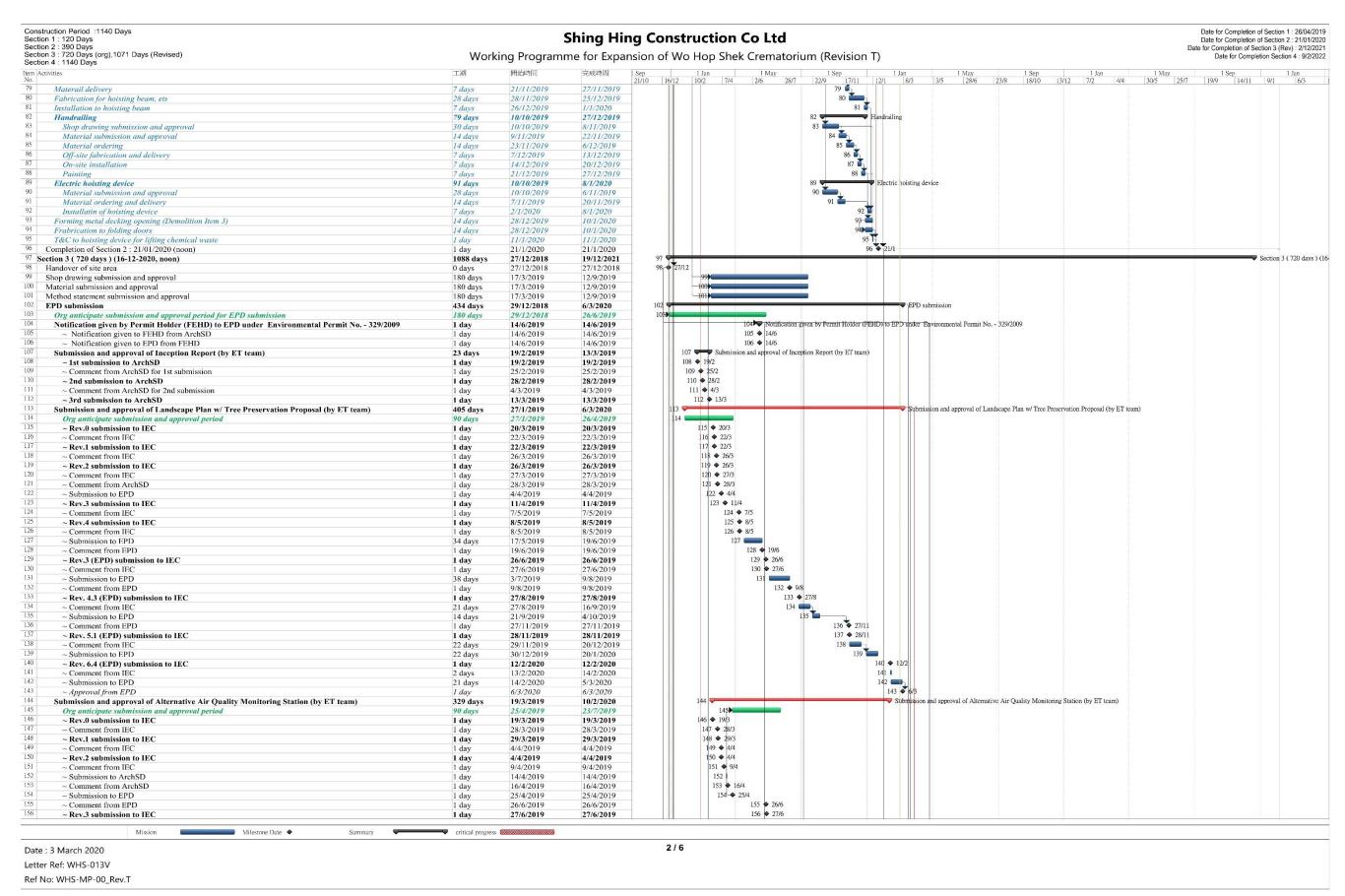


APPENDIX A: MASTER PROGRAMME

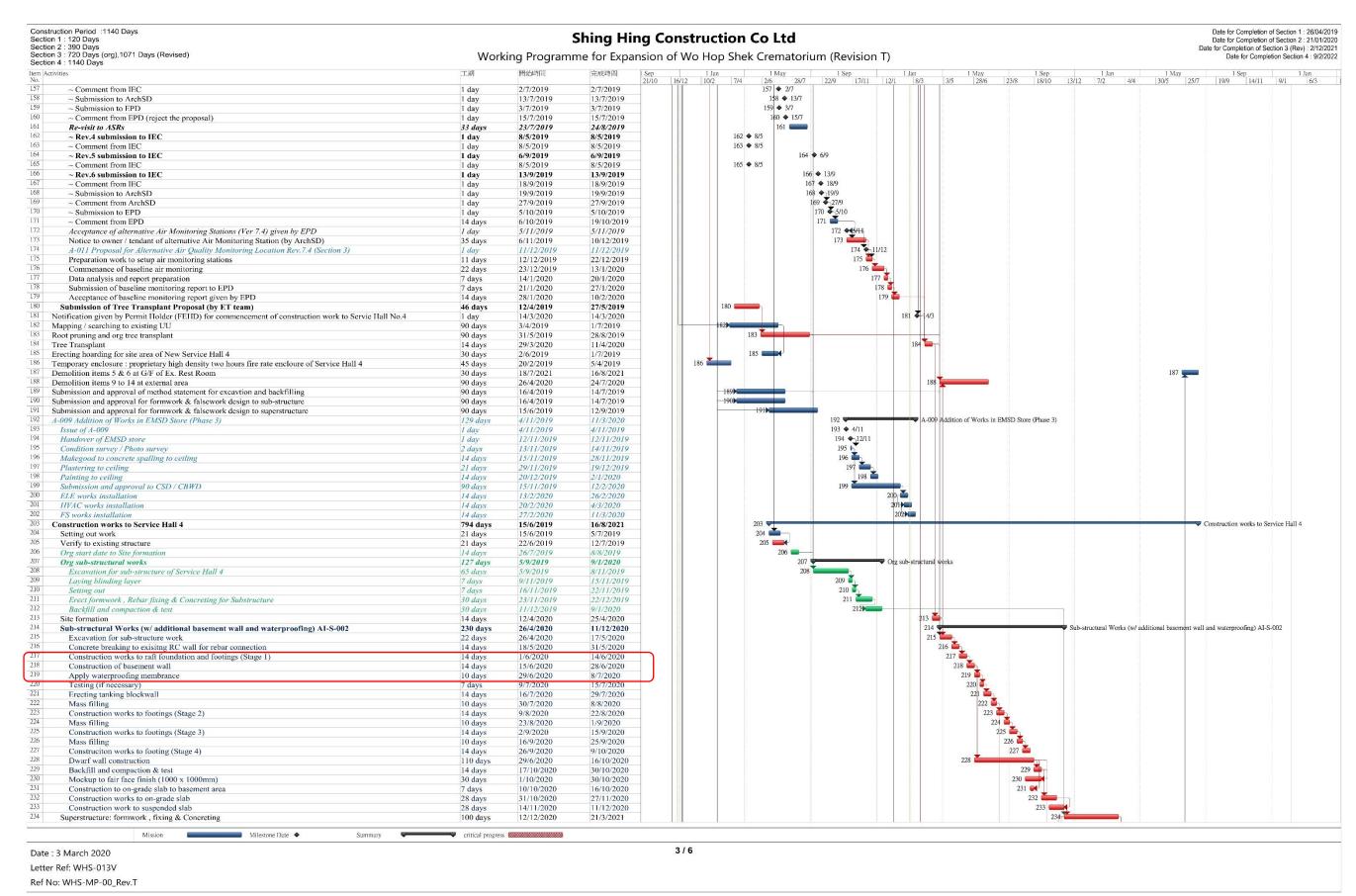




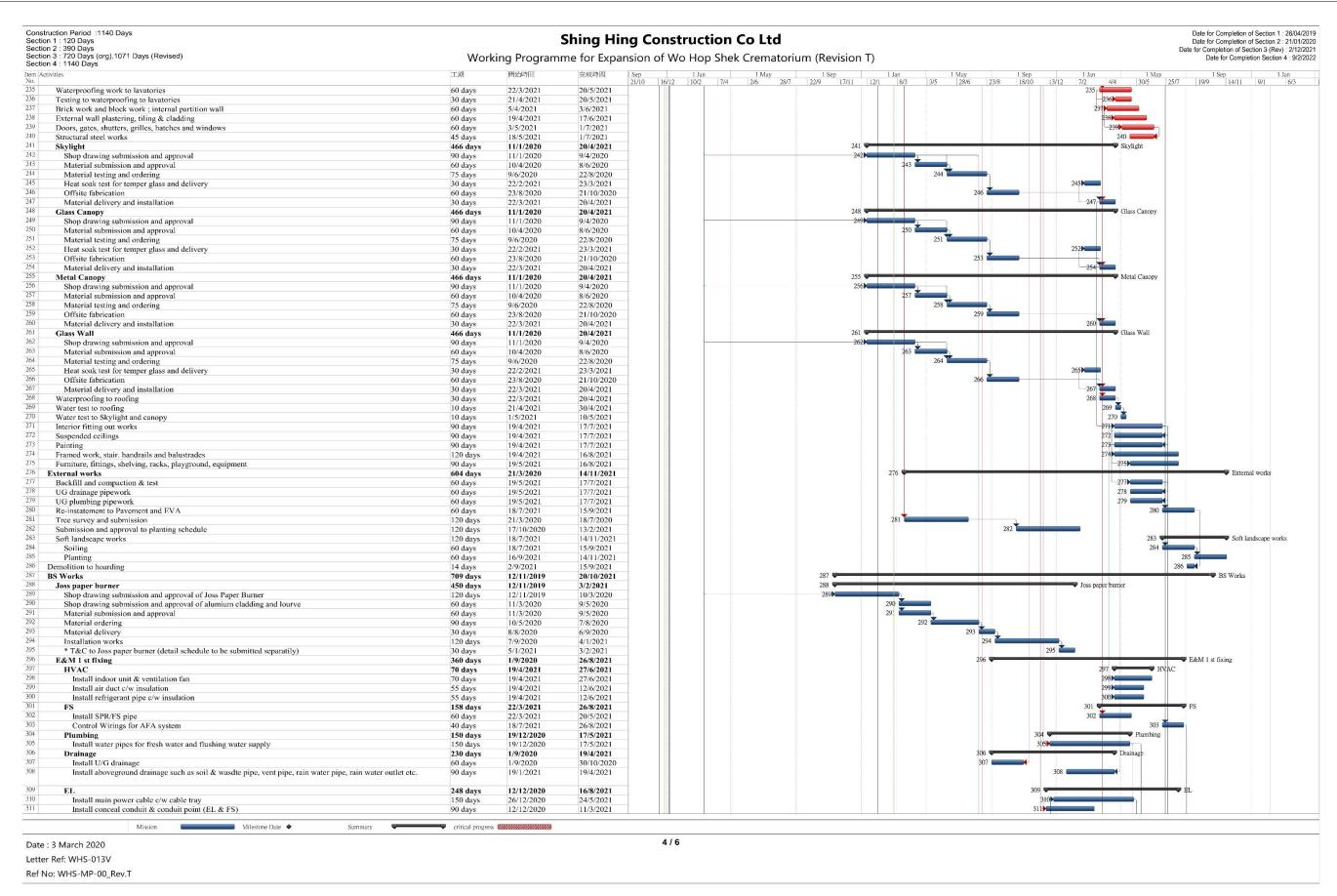




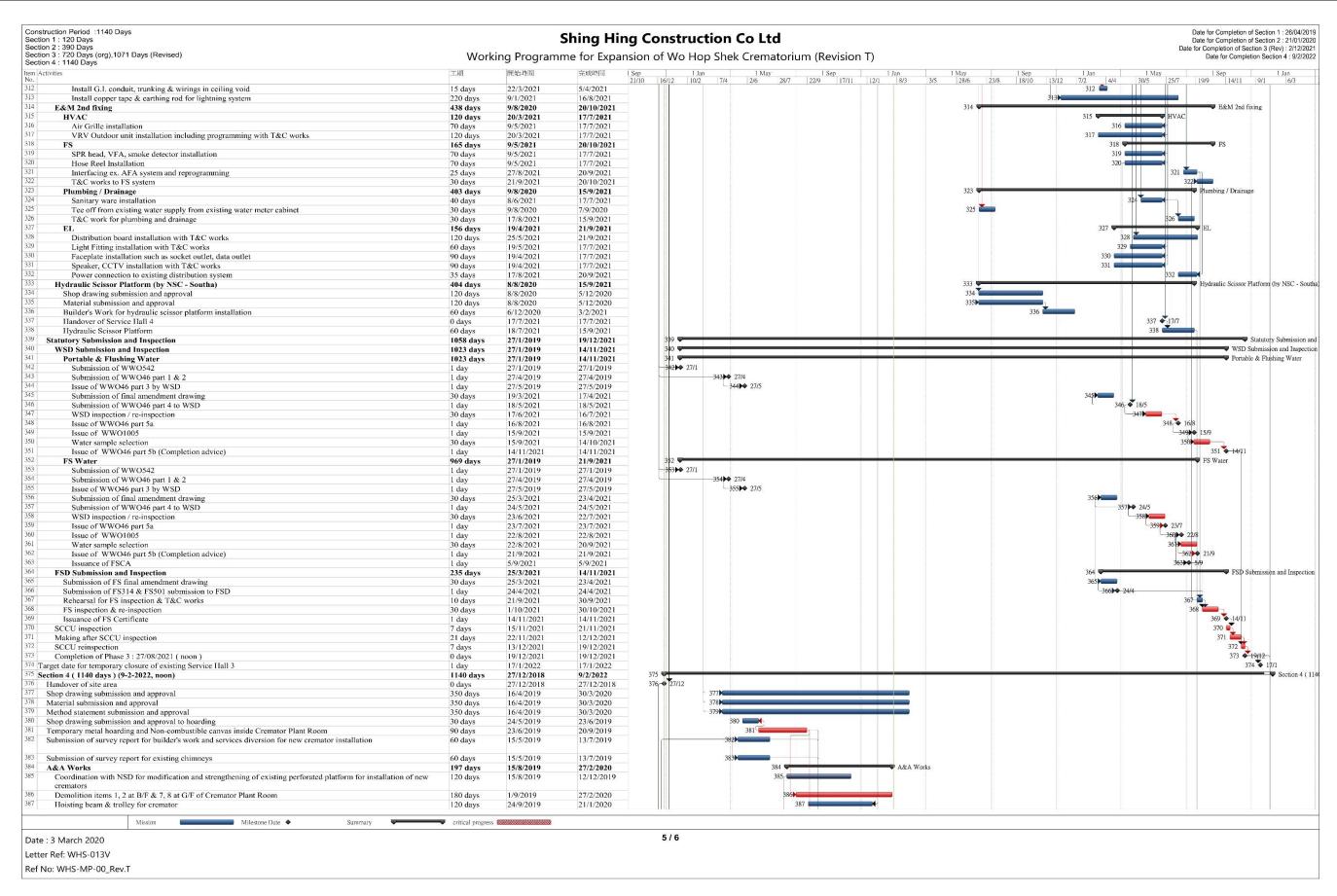




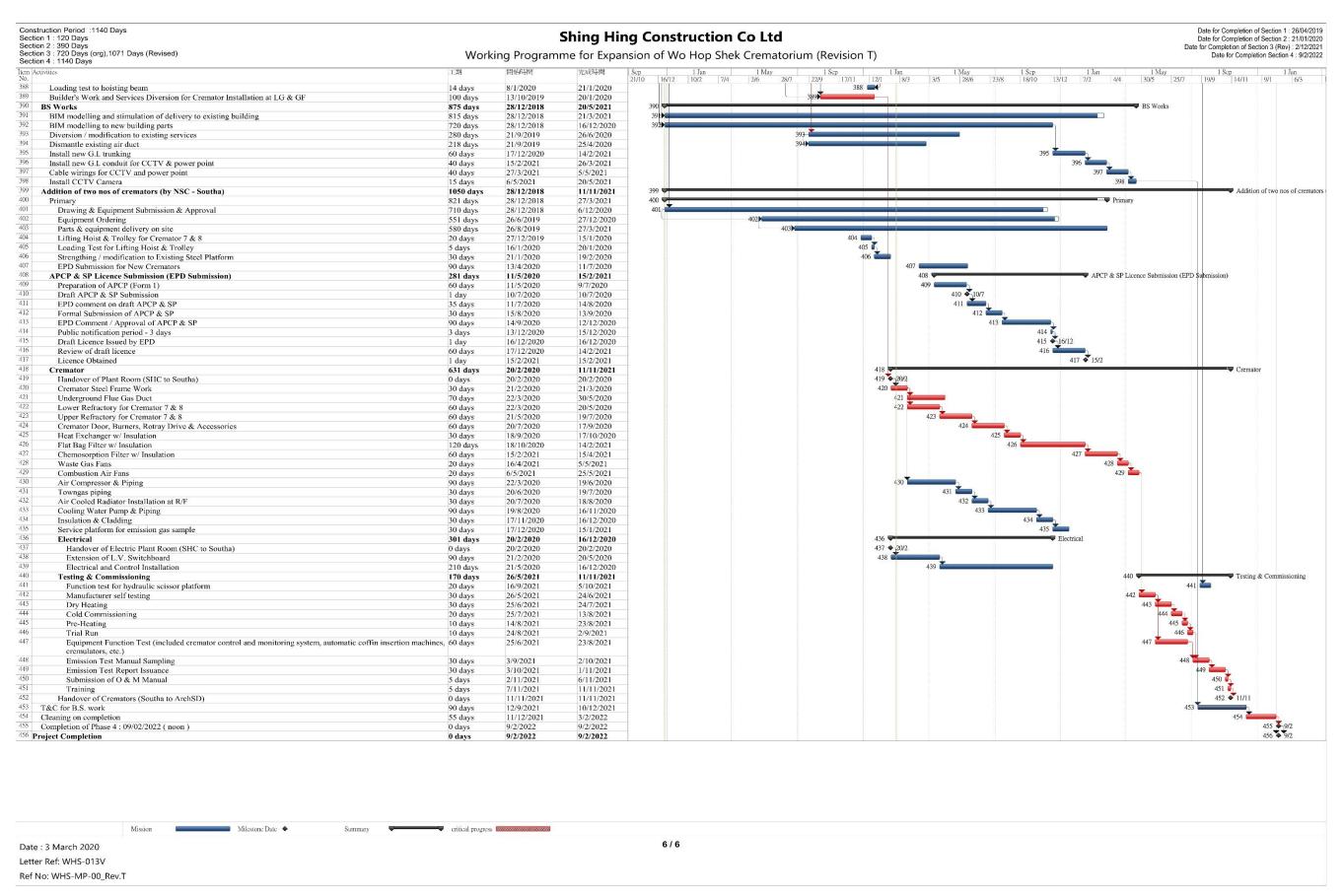








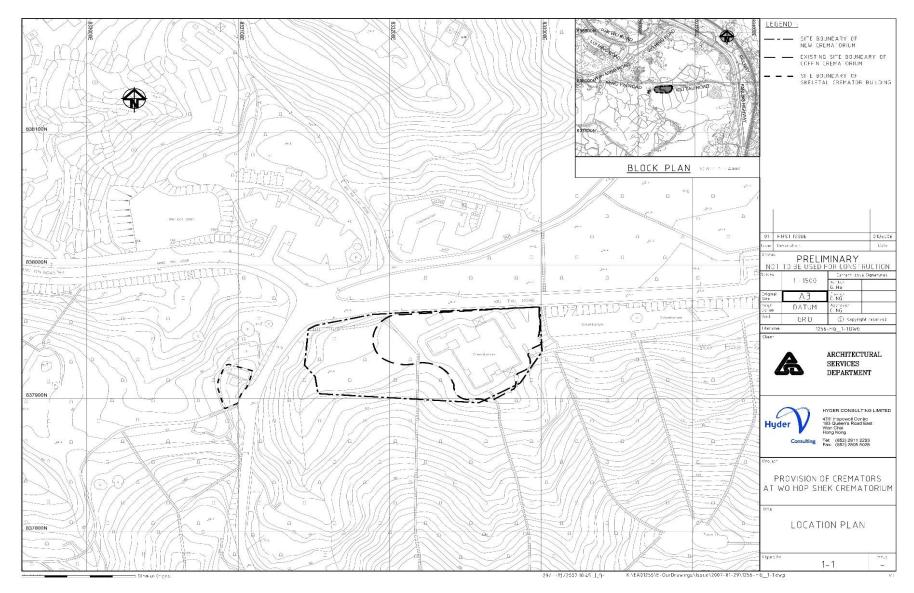






APPENDIX B: WORK AREA FOR THE CONTRACT NO. AL G513







APPENDIX C: SUMMARY OF IMPLEMENTATION STATUS OF Environmental Mitigation



EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status								
Air (Cons	truction	Phase)													
S.3.3.5		Under the Air Pollution Control (Specified Process) Regulation, an incinerator (including cremator) with an installed capacity exceeding 0.5 tonnes per hour, is classified as a specified process, and requires a Specified Process license to operate. FEHD shall apply for a specified licence under the APCO.	New Cremators in the New Crematorium / prior to operation	FEHD	Construction Phase	APCO	NA								
S.3.9		Asbestos Investigation:	Incense burner,	Arch SD,	Construction Phase	APCO	NA								
S.3.9.2		■ The incense burner, coffin and skeletal crematorium shall be thoroughly investigated prior to any demolition work commencing to ascertain the presence of any ACM. A registered asbestos consultant shall carry outan asbestos investigation report (AIR).	coffin and skeletal crematorium / Prior to any demolition work commencing	Registered Asbestos Consultant, Registered Asbestos		AIR and AAP									
S.3.9.3		■ If any ACM are identified in the existing crematorium, an asbestos abatement plan shall be submitted to EPD prior to any asbestos abatement works.		-	-		-	-	-	-	-		Contractor	r	
S.3.9.4		The following precautionary and mitigation measures shall be implemented during the removal of ACM:													
		■ Enclosure of the work area.													
		■ Containment and sealing for the asbestos containing waste.													
		■ Provision of personal decontamination facility.													
		■ Use of personal respiratory/protection equipment.													
	Use of vacuum cleaner equipped with high-efficiency air particulate (HEPA) filter for cleaning up the work area.														
		■ Carrying out air quality monitoring during the asbestos abatement works.													



	PTOTICE	ny EM&A Report No.4				CONSULTING	
EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.3.9.5		The following qualified personnel shall be appointed to carry out the asbestos abatement works:					NA
		■ Registered asbestos contractor for carrying out the asbestos removal works.					
		Registered asbestos supervisor for supervising the asbestos abatement works.					
		Registered asbestos laboratory for monitoring the air quality during the asbestos abatement works.					
		Registered asbestos consultant for supervising and certifying theasbestos abatement works.					
S.3.9.7 -		Other Site Management:					NA
S.3.9.9							
S.3.9.7		The asbestos materials in each building/premises must be abated before other contractors/trades are allowed to work in the building/premises.					NA
S.3.9.8		Tight security measures shall be taken at the asbestos abatement works site to prevent any disturbance to ACM that may result from the stealing of valuable items on site such as electrical cable and copper pipes. It is recommended that priority shall be given for the abatement of all friable ACM.					NA
S.3.9.9		As different contractors may be working on-site at the same time, the following measures should be considered:					NA
		■ If there is a sensitive receptor around the area, conduct environmentalair monitoring at this off-site receptor.					
		Submit to EPD a completion report, including photos and air monitoring results, immediately after completion of asbestos abatement work for every work zone.					
S.3.9.9		As different contractors may be working on-site at the same time, the following measures should be considered:					NA
		■ If there is a sensitive receptor around the area, conduct environmentalair monitoring at this off-site receptor.					
		■ Submit to EPD a completion report, including photos and air monitoring results, immediately after completion of asbestos abatement work for every work zone.					

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EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.3.10.1 - S.3.10.2		The contractor has a responsibility to notify EPD for undertaking any 'notifiable' works prior to the commencement of such works. In addition, the contractor is also required to fulfil specific dust control requirements given in the APCO Regulation's Schedule for specific jobs.	Prior to 'notifiable' works including Construction of the foundation of a building and construction of the superstructure of a building	Contractor	Construction Phase	Air Pollution Control (Construction Dust) Regulation APCO	Implemented
S.3.10.3	S.2.9.1 -	Good site management / practices to avoid / minimise incidences of dust emissions:	Project Site / Construction	Contractor	Construction Phase	Air Pollution Control (Construction Dust)	Implemented and rectified
S.3.10.4	S.2.9.3	Site Boundary and Entrance	and Demolition			Regulation	according to
		■ Vehicle washing facilities including a high pressure water jet shall be provided at every discernible or designated vehicle exit point.				APCO	observation
		■ The area at which vehicle washing takes place and the section of the road between the washing facilities and the exit point shall be paved with concrete, bituminous or hardcore material.					
		Access Haul Roads and Unpaved Areas					
		■ Each and every main haul road shall be paved with concrete, bituminous hardcore materials or metal plates, and kept clear of dusty materials. Or					
		■ Unpaved haul roads and areas shall be sprayed with water so as to keep the entire road surface wet.					



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EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		Excavated Materials					
		■ Any stockpile of dusty material shall be either: (a) covered entirely by impervious sheeting. (b) placed in an area sheltered on the top and the three sides. or (c) sprayed with water or a dust suppression chemical so as to maintain the entire surface wet.					
		Exposed Earth					
		■ Exposed earth shall be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six monthsafter the last construction activity on the site or part of the site where the exposed earth lies.					
		Loading, Unloading or Transfer of Dusty Materials					
		All dusty materials shall be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.					
		Debris Handling					
		■ Any debris shall be covered entirely by impervious sheeting or stored ina debris collection area sheltered on the top and the three sides.					
		■ Before debris is dumped into a chute, water shall be sprayed so that itremains wet when it is dumped.					
		Transport of Dusty Materials					
		■ Vehicles used for transporting dusty materials/spoils shall be covered with tarpaulin or similar material. The cover shall extend over the edges of the sides and tailboards.					
		Site Clearance					
		■ The working area for the uprooting of trees, shrubs, or vegetation or the removal of boulders, pole, pillars shall be sprayed with water immediately before, during and immediately after the operation so as to maintain theentire surface wet.					
		■ All demolished items shall be covered by impervious sheeting or placed in a spot with shelters on top and three sides within a day of the demolition.					
		■ Workers at all levels should be co-operative to avoid dust generation and dispersion to the surrounding environment.					



EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
Air (EM&	A for Co	nstruction Phase					
S.11.2.4 S.11.2.5	S.2.5 - S.2.6	Conduct baseline and regular 1-hr and 24-hr TSP monitoring at 2 measurement locations at a 6-day frequency	A22a and A22b / Baseline monitoring prior to construction works / Regular monitoring throughout construction period	Contractor	Construction Phase	EIAO	Implemented
Noise (Co	nstructi	on Phase)	1 1				
S.4.4.9 - S.4.4.10	S.3.2.1 - S.3.2.2	Good Site Practice and Noise Management: Only well-maintained plant shall be operated on site and the plant shall be regularly serviced during the construction works.	Work site / Construction phase	Contractor	Construction Phase	GW-TM & NCO	Implemented
		■ Plant used intermittently shall be turned off or throttled down when notin active use.					
		■ Plant that is known to emit noise strongly in one direction shall be oriented to face away from NSRs.					
		■ Silencers, mufflers and enclosures for plant shall be used where possible and maintained adequately throughout the works.					
		■ Mobile plant shall be sited away from NSRs.					
		■ Stockpiles of excavated materials and other structures such as site buildings shall be used effectively to screen noise from the works.					
		■ PME shall be well maintained and use properly on site to minimise the any excessive noise generated.					
	taminat	ion (Construction Phase)					1
S.5.7.2		Remedial Action Plan:	All areas	Contractor	Construction Phase	Waste Disposal	NA



EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		If large amounts of contaminated soil (say 500m³) are found following further site investigation after the decommissioning of the crematorium, remediation options such as bioremediation for organics should be considered. Although disposal of smallamount of contaminated soil to landfills might be considered as an economic and acceptable option for remediation, it should be considered as the last resort if all remediation options including reuse are considered to be inappropriate or infeasible.	requiring remedial works in Project site			Ordinance (Cap.354) Waste Disposal (Chemical Waste) Regulations Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes CAP	
S.5.7.3		 If disposal to landfills is chosen as the remediation measure, the criteria set primarily of Toxicity Characteristic Leaching Procedure (TCLP) limits, as stated in Annex E in the GN) should be met. At least three soil samples should be taken from the most contaminated area(s) and tested for TCLP for a full suite of 				ProPECC Note PN3/94 Dutch A, B, C Classificati-on system	NA
		parameters (16 metals) asstated in Table E1 in Annex E in the GN. If the testing result shows that any of the TCLP limits cannot be met, the soil shall be treated by cement stabilization and further tested for TCLP prior to landfill disposal or treated as chemical waste and disposed of at the Chemical Waste Treatment Centre (CWTC).				WPCO Technical Memorandum on Standards for Effluents	
S.5.7.4		All soil treated as a chemical waste, shall be collected by a registered chemical waste contractor and the Waste Disposal (Chemical Waste) Regulations under the Waste Disposal Ordinance (Cap.354) shall be observed. Reference shall be made to the Registration of Chemical Waste Producers and Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, issued by EPD.				Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM)	NA



EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.5.7.6		Confirmatory Soil Sampling					NA
		 In order to confirm the extent of the soil contamination and if the contaminated soil should be removed or treated, confirmatory soil sampling shall be carried out during the remediation works. This shall consist of five to six samples in each location where soil contamination is identified from SI works. The locations will be to the north, south, east and west of the location where contaminated soil is found. Two locations should also be above and below the location (in terms of elevation) where contaminated soil is found. If analytical results exceed the Dutch B Levels or other agreed remedialtarget suggested in a supplementary CAR, the 					
		contaminated area shall be extended and further confirmatory sampling shall be carried out until no further contamination is encountered.					
S.5.8	S.4	Further Site Investigation	Areas that are currently in use	Contractor	Construction Phase	Interim CAR and RAP	NA
S.5.8.1	S.4.1 - S.4.7	Further site investigations in areas that are currently in use and cannot be accessed are required. These areas include the transformer room, dangerous goods stores, day tank room, fuel pump room, sunken fuel pipe and cremator.	and cannot be accessed, including the transformer room, dangerous			ProPECC Note PN3/94 Guidance Notes for Investigation and Remediation of	
S.5.8.2		The demolition contractor shall carry out further site investigations, after the decommissioning of the existing crematorium and skeletal cremator building.	goods stores, day tank room, fuel pump			Contaminated Sites of Petrol Filling Stations, Boatyards	
S.5.8.3		Potential contaminants in the soils have been identified in CAP and the parameters to be analysed for soils at different locations are summarised in Table 5-3 in S.5.8.3.	room, sunken fuel pipe and cremator.			and Car	



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EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.5.8.4		Sampling and analysis plans for these investigations shall be prepared and submitted to EPD for approval prior to any of these investigation works. Supplementary CAR and RAP shall be prepared to describe the results and findings of these site investigations and, if necessary, any remedial works.	After the decommissioni ng of the existing crematorium and skeletal cremator building.			Repair / DismantlingWorkshop s	
Land Con	 taminat	ion (EM&A)					
S.11.2.9	S.4.1	Further Site Investigation:	After decommissioni	Contractor	Construction Phase	Interim CAR & RAP	NA
-	- C 4 7	Conduct further site investigation for Petroleum hydrocarbons	ng, prior to				
S.11.2.15	S.4.7	and PAH in soil samples.	construction:				
		Conduct further site investigation for PCBs in soil samples.	Existing				
		Conduct further site investigation for PAH, Dioxins and Metals	crematorium:				
		(Cr, Co, Ni, Cu, Zn, As, Mo, Cd, Sn, Ba, Hg, Pb) in soil samples.	Dangerous				
			goods store,				
			Daily tank				
			room, fuel				
			pump room and				
			sunken fuel				
			pipe				
			Skeletal Cremator				
			Building:				
			Dangerous				
			goods store				
			Existing				
			crematorium:				
			Transformer				
			room				
			Cremators				
			(residual inside				
			the cremator,				
			flue and				

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EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
			chimneys				
Waste Mar	nagemen	at (Construction Phase)		ı			
Waste Mar S.6.7.24	nagemer	Good Site Practice: Obtain the necessary waste disposal permits from the appropriate authorities, if they are required, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28). Obtain a billing account with EPD for disposal of construction waste. A Waste Management Plan (WMP), incorporated in an Environmental Management Plan (EMP) shall be prepared and submitted to the Engineer/Supervising Officer for approval. Reference shall be made to Environment, Transport and Works Bureau Technical Circular (Works) (ETWB TCW) 19/2005. Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site. Use of a waste haulier, authorised or licensed to collect specific category of waste. A trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of C&D and solid wastes at public filling facilities and landfills, and to control fly tipping. Reference shall be made to ETWB TCW No. 31/2004. Training of site personnel in proper waste management and chemical waste handling procedures. Separation of chemical wastes for special handling and appropriate treatment at a licensed facility. Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Provision of sufficient waste disposal points and regular collection for disposal. Adoption of appropriate measures to minimise windblown litter and dustduring transportation of waste, such as covering trucks or transporting wastes in enclosed containers. Implementation of a recording system for the amount of wastes	Project site/ design, construction and demolition stages	Contractor	Construction Phase	Waste Disposal Ordinance (Cap. 354) Waste Disposal (Chemical Waste) (General) Regulation Waste Disposal (Charges for Disposal of Construction Waste) Regulation	Implemented
		• Implementation of a recording system for the amount of wastes		1			



		ny Emari Report No. 1					
EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		generated, recycled and disposed of (including the disposal sites).					
S.6.7.25		 Waste Reduction Measures: 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. Encourage collection of aluminium cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separate labelled bins shall be provided to help segregate this waste from other general refuse generated by the work force. Any unused chemicals or those with remaining functional capacity shallbe recycled as far as practicable. Reuse C&D materials when possible to reduce the amount of C&D material/waste. Wood, steel and other metals shall be separated for reuse and / or recycling Prior to disposal of C&D waste to minimise the quantity of waste to be disposed of to landfill. Minimise the potential for damage or contamination of 	Project site / construction and demolition stages	Contractor	Construction Phase	WBTC No. 32/1992 WBTC No. 19/2005	Implemented
		construction material by having proper storage and site practices.Plan and stock construction materials carefully to minimise the amount of waste generated.					



		ny EMAA Report No.4					
EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.6.7.4		Excavated Material Rock and soil generated from excavation shall be reused for site formation and excavated material from foundation work reused for landscaping as far as practicable to avoid disposal off-site.	Project site / construction and demolition stages	Contractor	Construction Phase	WBTC No. 12/2000	Implemented
S.6.7.7	S.5.3.5 - S.5.3.9	 Construction and Demolition Material Reuse of the public fill and C&D waste shall be practiced on site as faras practicable. The handling of C&D materials is governed by WBTC No. 2/93. Inert C&D material (public fill) shall be directed to an approved public filling area or reclamation site, where it has the benefit of offsetting the need for removal of materials from borrow areas for reclamation purposes and helps to reduce the pressure on landfill sites. Individuals or companies who deliver public fill to public filling areas require dumping licences. Careful design, planning and good site management can minimise over- ordering and generation of waste materials such as concrete, mortar and cement grouts. The design of formwork shall maximise the use of standard wooden or metal panels so that high reuse levels can be achieved. Alternatives such as. steel formwork, plastic fencing and reusable site office structures shall be considered to increase the potential for reuse and minimise C&D waste generation. The contractor shall use as much as possible of the C&D material onsite. Proper segregation of waste types on site will increase the feasibility of certain components of the waste stream by recycling 	Project site / construction and demolition stages	ArchSD / Contractor	Construction Phase	WBTC No. 2/93 The Land (Miscellaneous Provision) Ordinance WBTC No. 19/2005	Implemented



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EIA Ref	EM&A Ref.	Environmenta	l Protection Me	asures / Mitigati	on Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.6.11.1 - S.6.11.5	S.5.3.1 0 - S.5.3.1 4	Contaminated Ma	terial – Further Co	ontamination Invest	igation	Cremators, Flues Chimneys and surrounding areas / After	FEHD, ArchSD, Contractor	Construction Phase	ProPECC PN 2/97 ProPECC PN 3/94	NA
	4	Crematorium, tl shall be carried	he following furth out to confirm the	to demolition of the er contamination in e quality and quanti treatment and disp	vestigations ty of ash waste	decommissioni ng but prior to demolition of the existing crematorium.			APCO	
		Location Investigatio Investigatio Responsible n Period Party Parameter		Crematorium.						
		Cremators / flue / chimney and surround ing areas	Asbestos (building structures)	After decommissionin g but prior to demolition of the Existing	The Contractor					
		Cremators / flue / chimney and surrounding areas	Dioxins, heavy metals, PAH (ash waste)	Crematorium						
	■ Prior to any demolition work commencing, these areas suspected to contain asbestos containing material (ACM) shall be further inspected by aregistered asbestos consultant to determine the presence of any ACM. These areas shall be thoroughly investigated and the additional findings submitted as supplementary information to the Asbestos Investigation Report.									
		■ Samples shall be according to the procedures. If the materials prese	e analysed for the e Laboratory's HO he findings of the i nt on the premise	presence and type of KLAS accredited tes investigation indica is an Asbestos Abate encement of demolit	ting te ACM ment Plan					



EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		■ It is not currently possible to conduct inspection and sampling within the cremators, chimney and flues to assess the levels of contamination due to the operation of the crematorium. It is recommended that samples shall be collected from the potential areas of contamination for testing of dioxin, heavy metal and PAH after decommissioning and prior to the demolition of the Existing Crematorium.					
S.6.9.6 - S.6.9.7	S.5.3.1 5 - S.5.3.1 7	 ■ Asbestos Containing Material ■ Asbestos wastes shall be handled in accordance with the Code of Practice on the Handling, Transportation and Disposal of Asbestos Waste issued by the Environment and Food Bureau. ■ Production, collection and disposal of Asbestos waste will follow the 'trip-ticket' system. The registered asbestos contractor shall appoint a licensed asbestos waste collector to collect the packaged asbestos waste and deliver it to the designated landfill for disposal. Notification has to be given to EPD for its disposal. EPD will normally require ten working days notice of the intention to dispose of any quantity of asbestos waste. After processing the notification, EPD will issue specific instructions and directions for disposal of the waste. The waste producer or agent must strictly follow these directions. 	Cremator room in Existing Crematorium / before demolition and after decommission	Contractor	Construction Phase	COP on Handling, Transportation and Disposal of Asbestos Waste under the Waste Disposal (Chemical Waste) (General) Regulation.	NA
		Dioxin Contaminated Materials (DCM) / Heavy Metal Contaminated Materials (HMCM) / Polyaromatic Hydrocarbon Contaminated Materials (PAHCM) from Demolition of the Existing Crematorium Proposed Contamination Classifications for Ash Waste with DCM / HMCM / PAHCM.	Cremator room in Existing Crematorium / before demolition and after decommission	Contractor	Construction Phase	ProPECC PN 3/94 APCO	NA



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EIA Ref	EM&A Ref.	Environmental Protec	tion Measures / M	itigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		Classification of Contamination	Dioxin Level in ash waste	Heavy Metal Level / Polyaromatic Hydrocarbon in Ash Waste					
		Low Contaminated DCM/HMCM/PAHCM	<1 ppb TEQ	< Dutch "B" List					
		Moderately/Severely Contaminated HMCM/PAHCM	<1 ppb TEQ	> Dutch "B" List					
		Moderately > 1 and < 10 Any Level Contaminated ppb TEQ DCM							
		Severely contaminated DCM	>10 ppbTEQ	Any Level					
S.6.9.9	S.5.3.1 9	Demolition, Handling, Trea DCM / HMCM / PAHCM fro			Cremator room in Existing Crematorium / demolition	Contractor	Construction Phase	ProPECC PN 3/94 APCO	NA
		■ Where the ash waste cor PAHCM, the contractor s during demolition. General followed. The ash waste	hall avoid ash waste l ral dust suppression i	pecoming airborne neasures shall be					
S.6.9.10 - S.6.9.14	S.5.3.2 0 - S.5.3.2 4	Demolition, Handling, Trea Severely Contaminated DC Contaminated HMCM / PAI Crematorium Site preparation procedures	M and Moderately / S HCM from Demolition s:	everely of the Existing	Cremator room in Existing Crematorium / demolition	Contractor	Construction Phase	Waste Disposal (Chemical Waste) (General) Regulation ProPECC PN 3/94	NA
		■ Except the cremators/flue/chimney, all removable contaminated items shallbe removed as far as practicable to avoid obstructing the decontamination activities.					APCO		
		Preliminary site deconta using High Efficiency Par							
		A chamber with three lay	yers of polythene she	ets shall enclose the					

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EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		top portion of the chimney above the roof.					
		■ A 3-chamber decontamination unit shall be constructed at the entrance to the cremators/flues/chimney for entry and exit from the work area. It shall comprise a dirty room, a shower room and a clean room of at least 1m x 1m base with 3 layers of fire retardant polythene sheet.					
		Workers shall carry out decontamination procedures before leaving thework area.					
		All workers shall wear full protective equipment, disposable protective overall, nitrile gloves, rubber boots, and full-face positive pressure respirator.					
		Warning signs in both Chinese and English shall be put up in conspicuous areas.					
		Site preparation procedures specific to severely contaminated DCM:					
		■ The walls, floor and ceiling of the cremator room shall be lined with 3-layers of fire retardant polythene sheets.					
		■ Air movers shall be installed at the cremator room, and at the bottom of the chimney to exhaust air from the work area. A stand by air mover shall also be installed with each of the air movers. Sufficient air movement shall be maintained to give a minimum of 6 air changes per hour to the work area.					
		■ New pre-filters and HEPA filters shall be used on the air movers.					
		■ Before commencement of the decommissioning work a smoke test with non- toxic smoke shall be carried out to ensure the air tightness of the containment.					
		Demolition and handling procedures:					
		■ The cremators/flue/chimney shall be removed from top down.					
		Scrubbing and HEPA vacuuming shall be used to remove any ash or residues attached to the cremators, flue, chimney and other building structures.					
		■ Wastes generated from the contaminant or decontamination unit including the workers protection clothing shall be disposed of at landfill site.					
		After completion of removal, all surfaces shall be decontaminated by HEPA vacuum.					
		■ If any contaminated wastewater needs to be discharged out of the					



EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		site, it shall be properly treated to WPCO requirements with prior agreements with EPDon discharge standards.					
		Demolition and handling procedures specific to severely contaminated DCM:					
		■ The contaminated detached sections of the building structures shall be wrapped with 2 layers of fire retardant polythene sheets. A third layer shall be wrapped and secured with duct tape. Wet wiping shall be used to decontaminate the outer layer.					
		After completion of removal and decontamination, spray the innermost layer of the fire retardant polythene sheet with PVA. Upon drying, peel off and dispose of at landfill site. Repeat for the other 2 layers disposing the final layer as contaminated wastes.					
		Treatment and disposal procedures:					
		■ Immobilise the ash waste by mixing with cement in the correct ratio as determined by pilot mixing and TCLP test.					
		■ Place material in polythene lined steel drums for disposal at landfill. The drums should clearly be marked with "DANGEROUS CHEMICAL WASTE" in English and Chinese. Prior agreement of the disposal criteria must be obtained from EPD and the landfill operator.					
		■ If the landfill disposal criteria cannot be met, disposal at the CWTC in TsingYi shall be considered.					
S.6.9.1	S.5.3.2	Chemical Waste	Project site /	Contractor	Construction Phase	Code of Practice on the	Implemented and
- S.6.9.2	5	■ Should any chemical waste be generated, the Contractor must register with the EPD as chemical waste producer.	demolition			Packaging, Labelling and Storage of	rectified according to
	S.5.3.7	■ All the chemical waste shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. The chemical waste shall be stored and collected by an approved contractor for disposalat a licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.				Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation.	observation
		■ Principles of reuse and recycle chemical waste on site as far as practicable shall be adopted by the Contractor.				()	



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EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.6.9.3	S.5.3.2	Containers used for the storage of chemical waste shall:					
	8	■ Be suitable for the substance they are holding, resistant to corrosion, maintained in good condition, and securely closed.					
		■ Have a capacity of less than 450 litres unless the specifications have been approved by the EPD.					
		Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation.					
S.6.9.4	S.5.3.2	The storage area for chemical waste shall:					
	9	■ Be clearly labelled and used solely for the storage of chemical waste.					
		■ Be enclosed on at least 3 sides.					
		■ Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.					
		■ Have adequate ventilation.					
		■ Be covered to prevent rainfall entering (water collected within the bundmust be tested and disposed as chemical waste if necessary).					
		Be properly arranged so that incompatible materials are adequately separated.					
S.6.9.25	S.5.3.3	Disposal of chemical waste shall be:					
	0	■ Via a licensed waste collector.					
		 A facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility at Tsing Yi, which offers a chemical waste collection service and can supply the necessary storage containers. or A waste recycling plant approved by EPD. 					
		• A waste recycling plant approved by EPD.					



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EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.6.7.27	S.5.3.3	General Refuse	Project site /	Contractor	Construction Phase		Implemented
S.6.7.28	1 - S5.3.3 2	 ■ General refuse shall be stored in enclosed bins or compaction units separate from C&D and chemical wastes. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily or every second day basis to minimise odour, pest and litter impacts. ■ Individual collectors often recover aluminium cans from the waste stream if they are segregated or easily accessible. Therefore, separately labelled bins for their deposit shall be provided if feasible. Similarly, plastic bottles and carton package material 	construction and demolition stages				
		generated on site shall be separated for recycling as far as possible. Site office waste shall be reduced through recycling of paper if					
		volumes are large enough to warrant collection. Participation in a					
		local collection scheme shall be considered if one is available.					
		ent (EM&A)	Г	Г			
S.11.2.17	0	building structures and for dioxins, heavy metals and PAH in ash/particular matter samples.	Cremators / flue / chimney and surrounding area. After decommissioning but prior to demolition	Contractor	Construction Phase	ProPECC PN 2/97 and 3/94 AIR, AMP/AAP to be submitted under APCO Future Supplementary Investigation Site Plan	NA
Landscap	e and Vi	sual (Construction Phase)					
S.7.9.2 MC 1	S.6.3.1	 Site offices and construction yards: Site offices shall have olive green roof and façade coating or colour matches with existing environment. Site offices and the construction yard shall be decommissioned after construction. 	All site offices / Design and construction phases	ArchSD's Contractor	Construction Phase		Implemented
S.7.9.2 MC 2	S.6.3.1	 Height of site offices: The height of site offices, including the rooftop shall not exceed 10m. Building services equipment such as antennas may exceed 10m and shall be coated in black. 	All site offices / Design and construction phases	ArchSD's Contractor	Construction Phase		Implemented

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EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.7.9.2 MC 3	S.6.3.1	Hoarding and screening: Where practical the site offices areas, construction yards and storage areas shall be screened using colour in harmony with the surrounding environment around the peripheries of the works area until the completion of relevant construction phases.	All site offices and construction yard areas / Design and construction phases	ArchSD's Contractor	Construction Phase		Implemented
S.7.9.2 MC 4	S.6.3.1	 Construction plant and building material: Shall be orderly and carefully stored in order to appear neat and avoid visibility from outside where practical. Excess materials shall be removed from site as soon as practical. All construction plants shall be removed from site upon completion of construction works. 	Works site / Design and construction phases	ArchSD's Contractor	Construction Phase		Implemented
S.7.9.2 MC 5	S.6.3.1	Construction light: To be oriented away from the viewing location of VSRs. All lighting facing sensitive receiver shall have frosted diffusers and reflective covers.	All construction lights / Design and construction phases	ArchSD's Contractor	Construction Phase		Implemented
S.7.9.2 MC 6	S.6.3.1	Silting trap: Silting traps shall be installed to minimise silting to streams.	Streams / Construction phase	Contractor	Construction Phase		NA
S.7.9.3 MT 1	S.6.3.1	Compensation for losses: The tree compensation to tree loss ratio shall be at least 1:1 in term of quantity.	Within the Wo Hop Shek Crematorium	ArchSD's Contractor	Construction Phase	ETWB TCW No. 2/2004 ETWB TCW No. 3/2006	NA
S.7.9.3 MT 2	S.6.3.1	Where practical, trees that require removal shall be transplanted on Site.	Work site / Design and construction phases	ArchSD's Contractor	Construction Phase	ETWB TCW No. 2/2004 ETWB TCW No. 3/2006	Implemented



	MONUTING EMIXA REPORT NO.4						
EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.7.9.3 MT 3	S.6.3.1	 Amenity planting: Planting works shall be carried out under the supervision of a specialist landscape sub-contractor. The rooftop of the cremation plant room shall be planted with lawn. Open spaces shall be included Project. Screen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road shall be carried out. New trees, shrubs and groundcover shall be carefully selected and designed to homogenize with the environment. 	As shown on mitigation measure plans / All phases	ArchSD's & FEHD's Contractor	Construction Phase	ETWB 2/2004	NA
S.7.9.3 MT 4	S.6.3.1	Woodland mix planting: ■ Woodland mix, comprising of tree seedlings and shrubs, shall be planted within the Wo Hop Shek Cemetery to enhance the ecological value and compensatory of tree loss.	Within the Wo Hop Shek Cemetery / All phases	ArchSD's Contractor	Construction Phase	ETWB TCW No. 2/2004ETWB TCW No. 3/2006	NA
S.7.9.3 MT 5	S.6.3.1	Preservation: No tree shall be transplanted or felled without prior approval by relevant Government departments. All trees that are marked for retention shall be fenced off with a 1.2mhigh fence around the dripline of trees or larger area as far as feasible. Transplant preparation works shall be carried as soon as possible after commencement of construction. Over-pruning such as hard pruning of tree crown, pollarding or topping shall be avoided. Rootball and crown pruning shall be carried out over at least 3 months. Existing shrub and ground cover planting areas that will not be removed shall be maintained in good condition and enhanced where practical.	Work site / All phases	ArchSD's Contractor	Construction Phase	ETWB TCW No. 2/2004 ETWB TCW No.	Implemented
S.7.9.4 MB 1	S.6.3.1	The 10m height headroom cremation plant room shall be half sunken to reduce the visual impact to pedestrians.	Cremation plant room / Design phase	ArchSD's Contractor	Construction Phase		NA
S.7.9.4 MB 2	S.6.3.1	The chimney shall be designed to have sculptural outlook and articulated.	Chimney / Design phase	ArchSD's Contractor	Construction Phase		NA
S.7.9.4 MB 3:	S.6.3.1	The chimney stacks shall be designed to locate at the least conspicuous location of the site to VSRs.	Chimney / Design phase	ArchSD's Contractor	Construction Phase		NA
Landscap	e and V	isual (EM&A)					



		Ty Linear Report No. 1					
EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.11.2.23 - S.11.2.24		Details of the inspection frequency and parameters will be outlined in the EM&A Manual.	Work site / Construction	Contractor	Construction Phase		NA
		onstruction Phase)					
	S.7.2.2	Construction Runoff and Drainage	Work site /	Contractor	Construction Phase	ProPECC PN 1-	Implemented
S.8.7.4		■ Wastewater shall be properly treated to meet the discharge standards set out in the relevant Water Pollution Control Ordinance (WPCO) discharge licence. No direct discharge of site runoff into the two streams shall be allowed.	Construction			94 & WPCO	·
		■ Provision of perimeter channels to intercept storm runoff from outside the Site. These shall be constructed in advance of site formation works and earthworks.					
		■ Sand/silt removal facilities such as sand traps, silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the WPCO.					
		■ Works shall be carefully programmed to minimise soil excavation works during rainy seasons.					
		Exposed soil surface shall be protected by paving as soon as possible to reduce the potential of soil erosion.					
		■ Temporary access roads shall be protected by crushed gravel and exposed slope surfaces shall be protected when rainstorms are likely to occur.					
		■ Trench excavation shall be avoided in the wet season as far as practicable, and if necessary, these trenches shall be excavated and backfilled in short sections.					
		■ Open stockpiles of construction materials on Site shall be covered with tarpaulin or similar fabric during rainstorms.					
		■ Sand and silt in the wash water from the wheel from the wheel washingfacility shall be settled out and removed before discharging into the storm drain.					
		■ Oil receptor shall be provided in the drainage system and regularly emptied to prevent the release of oil and grease into the storm drainage system after accidental spillage.					



	Monthly EMERI Report No. 1						
EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
S.8.7.5	S.7.2.3	General Construction Activities	Work site /	Contractor	Construction Phase	ProPECC PN 1-	Implemented
		■ Debris and rubbish generated on Site shall be collected, handled and disposed of properly to avoid them entering the two streams.	Construction phase			94 & WPCO	p.ee.
		■ All fuel tanks and storage areas shall 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.					
		■ Open storm water drains and culverts near the works area shall be covered to block the entrance of large debris and refuse.					
S.8.7.6	S.7.2.4	Sewage from On-site Workforce:	Work site /	Contractor	Construction Phase	WPCO	Implemented
		■ Portable chemical toilets shall handle the sewage from construction work force if the existing toilets in the Site are not adequate. Licensed contractors who shall be responsible for appropriate disposal and maintenance of these facilities shall provide appropriate and adequate portable toilets.	Construction phase				
		■ Sheet piling shall be provided at suitable location around the basement excavation to reduce the effect of lowering the water table from any dewatering process. Any discharge of groundwater pumped out from any dewatering process of the construction works shall be treated to comply with the standards set in the relevant discharge licence prior discharge. No discharge of the groundwater shall be allowed into the two streams.					
		ction Phase)		1			1
S.9.8.3 -	S.8.3.1	Mitigation to minimise impacts on habitat and vegetation loss: Layout of the Project shall be carefully designed to avoid or minimise thearea of habitat loss and the numbers to trees to be felled.	Work site particularly semi- natural woodland /	Arch SD / Contractor	Construction Phase	ETWB Technical Circular No. 3/2006	Implemented
		■ All trees shall be preserved as far as possible, especially species of conservation concern. Recommendations to be provided in the Tree Survey Report to mitigate impacts on trees shall be followed.	Design and construction phases.				
		■ Disturbance of individuals of the shrub / tree Transplantation of the two shrub / tree species of conservation concern, namely <i>Aquilaria sinensis</i> and <i>Cibotium barometz</i> , shall be avoided. Where loss of these species would be unavoidable, it is recommended to transplant them to same habitats with similar conditions. Following transplantation, regular monitoring of these trees shall be conducted by a suitable qualified botanist / horticulturist over a 12-					

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Monthly EM&A Report No.4							LIMITED
EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
22.215	0.01	month period. I Transplantation of any affected trees to grassland / scrubland within theWo Hop Shek Cemetery. Compensatory planting of the felled trees shall follow the Technical Circular No. 3/2006 issued by ETWB.			Construction Phone		
S.9.8.15 - S.9.8.16	S.8.3.1	Mitigation to construction runoff through general good site practice:	Work site / Construction phase	Contractor	Construction Phase	ETWB Technical Circular (Works) No. 5/2005.	Implemented
		■ Temporary access to the work sites shall be carefully planned and located to minimise disturbance caused to the streams and nearby habitats.					
		Use of less or smaller construction plant may be specified toreduce disturbance to the streams and nearby habitats.					
		■ Temporary sewage system shall be designed and installed to collect wastewater and prevent it from entering the streams and nearbyhabitats.					
		■ The Site inside or in the proximity of the streams and nearby habitats shall be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props, to prevent adverse impacts on these areas.					
		■ Natural bottom and existing flow in the streams shall be preserved as muchas possible to avoid disturbance to the stream habitats.					
		■ Proper locations well away from the streams and nearby habitats for temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction debris and spoil shall be identified before commencement of the works.					
		■ Stockpiling of construction materials, if necessary, shall be properly covered and located away from the streams and nearby habitats.					
		■ Construction debris and spoil shall be covered up and/or properly disposed of as soon as possible to avoid being washed into the streams and nearby habitats by rain.					
		■ Construction effluent, site runoff and sewage shall be properly collected and/or treated.					



		ny Eliteri Report No. 1					
EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		■ Proper locations for discharge outlets of wastewater treatment facilities well away from the streams and nearby habitats shall be identified.					
		■ Vehicles and other plant shall be carefully maintained and properly used to minimise the chance for accidental spillage.					
		Any spillages that do occur shall be quickly identified and appropriately cleaned up before they can contaminate streams or groundwater.					
		■ Temporary geo-textile silt fences around earth moving works shall beerected to trap any sediments being washed away and prevent them from entering surrounding areas.					
		■ Silt traps shall be installed at points where drainage from the Site enters temporary sewage system.					
		■ Exposed soil or other loose materials shall be covered with tarpaulins to prevent erosion, and then seeded and covered with a biodegradable geo- textile blanket for erosion control purposes.					
S.9.8.18		Mitigation to protect the groundwater:	Work site /	Contractor	Construction Phase		NA
		■ Basement formation or any construction activities likely to pump out a large quantity of groundwater shall be protected with sheet-piling at suitable locations around the basement footprint, or by any like method.	Construction phase				
		■ No groundwater shall be pumped back to the two stream courses to protect the natural integrity of the stream habitat and the associated organism.					
S.9.8.20	S.8.3.1	Mitigation for noise and other disturbance on ecological integrity:	Work site /	Contractor	Construction Phase		Implemented
		■ Use of sturdy 1.8 metres protective fencing shall be located at the edge of the tree canopy but not around the trunk.	Construction phase				
		■ Works beneath the tree canopy shall be avoided: If encroachment under the canopy area is unavoidable, adequate protections shall be provided to ensure no damage of any part of the tree would occur due to the encroachment.					
		■ An approved Landscape Contractor shall implement any tree transplanting and planting works. Quality control of the work shall be undertaken by a qualified Landscape Architect through site inspections and approval of works.					



EIA Ref	EM&A Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stage	Relevant Legislation and Guidelines	Implementation Status
		■ Construction works shall be restricted to works area which are clearly defined.					
		■ Woodland or other habitats that would be affected by the constructionworks shall be well-defined and minimised.					
		■ Human inference to habitats beyond the site boundary and habitats proposed to be retained shall be avoided by providing temporary barricades.					
		Works area shall be reinstated immediately after completion of the construction.					
		■ Waste and other garbage generated during the construction of the proposed development shall be dumped properly.					
		Uncontrolled fire shall be strictly prohibited. Appropriate fire control measures shall be provided in order to protect nearby habitats.					
Ecology (EM&A)						
S.9.11	S.8.2.1	Audit/Inspection:	Work site /	Contractor	Construction Phase		Implemented
& S.11.2.29		Regular site audit / inspection shall be conducted at least once a week to inspect the implementation of the recommended mitigation measures (details to be outlined in the EM&A Manual).	Construction phase				
S.11.2.32	S.8.2.2	Monitoring on Transplantation:	Work site /	Contractor	Construction Phase		Implemented
S.11.2.33	S.8.2.4	■ Trees requiring transplantation or protection shall be identified based on the information illustrated in the Tree Survey Report.	Construction phase				
		Regular monitoring after transplantation of Aquilaria sinensis and Cibotium barometz individuals shall be conducted to check on the health and conditions of the plants. Monitoring shall cover the 12-month period following transplantation. The monitoring shall be conducted by a suitably qualified botanist / horticulturist at least twice a month for the first four months after transplantation, and once a month for the remaining eight months.					



APPENDIX D: IMPACT MONITORING SCHEDULE OF THE REPORTING MONTH



Thomas Evices Re	•	Impact Monitoring Scl	hedule for Expansion of Wo Ho	op Shek Crematorium		
			Jun-20			
Sun						Sat
7		2	Weekly ET site inspection and audit	4	12 Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP	Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630
14	15	16	17 Weekly ET site inspection and audit	Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630		20
21	22	23	24	25	26	27
	Weekly ET site inspection and audit		Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630			
28	29	30				
	Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630					

^{*}Remarks: 1. This impact monitoring schedule is subject to change due to adverse weather conditions or other rationales.

^{2.} Advance notification of the changes will be given to all relevant parties at lease 48 hours prior to implementation.



APPENDIX E: EVENT/ACTION PLAN FOR DUST EXCEEDANCE



Frank		Act	ion	
Event	ET	IEC	AR	Contractor
Action Level				
1. Exceedance for one sample	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and AR; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	 Identify source; Inform IEC and AR; Advise the AR on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and AR; If exceedance stops, cease 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to AR within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.



Event		Act	ion	
Event	ET	IEC	AR	Contractor
	additional monitoring.			
Limit Level				
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, AR, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AR informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the AR on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	 Notify IEC, AR, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine 	 Discuss amongst AR, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the AR accordingly; Supervise the implementation of remedial 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under



Event		Act	ion	
Event	ET	IEC	AR	Contractor
	possible mitigation to be implemented; 6. Arrange meeting with IEC and AR to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AR informed of the results; 8. If exceedance stops, cease additional monitoring.	measures.	properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	control; 5. Stop the relevant portion of works as determined by the AR until the exceedance is abated.



APPENDIX F: DUST MONITORING EQUIPMENT CALIBRATION CERTIFICATE



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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Fung Kai Liu Yun Sum Memorial School	Site ID:	A10	Date:	01-Jun-2020
Serial No:	1049	Model:	TE-5170X	Operator:	Kelvin

Ambient Condition

Corrected Pressure (mm Hg):	756.8	Temperature (deg K):	303.7
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Calibration Orifice

Model:	TE-5028	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or	In.H2O	Qa, X-Axis	I. CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	0.72	0.523	29.4	29.06
2	1.26	0.685	32.1	31.73
3	2.47	0.951	36.2	35.78
4	3.39	1.111	38.9	38.45
5	3.96	1.200	39.9	39.44

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

3023000					
m=	15.4917	b=	21.0431	Corr. Coeff=	0.9995
Sampl	er set point(SSP)	40	CFM		
		(Calculations		
Qstd = 1/m[Sqrf	t(H2O(Pa/Pstd)(Tstd/Ta))-b]		m = sampler slope		
IC = I[Sqrt(Pa/Ps	std)(Tstd/Ta)]		b = sampler intercept		
			I = chart response		
Qstd = standard	I flow rate		Tav = average temperature		
IC = corrected c	hart response		Pav = average pressure		
I = actual chart	response				
m = calibrator (Qstd slope				
b = calibrator Q	(std intercept				

Tstd = 298 deg K
Pstd = 760 mm Hg
For subsequent calculation of sampler flo

For subsequent calculation of sampler flow: (1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)

Checked by: Kelvin Date: 01-Jun-2020



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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Fung Kai Liu Yun Sum Memorial School	Site ID:	A10	Date:	18-Jun-2020
Serial No:	1049	Model:	TE-5170X	Operator:	Kelvin

Ambient Condition

Corrected Pressure (mm Hg):	756.8	Temperature (deg K):	305.2

Calibration Orifice

Model:	TE-5028	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	0.94	0.593	21.7	21.40
2	1.63	0.775	25.6	25.24
3	2.18	0.893	28.3	27.91
4	3.67	1.153	34.5	34.02
5	4.03	1.207	36.1	35.60

7.4826

Corr. Coeff=

0.9994

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

23.1034 b=

Sampler set point(SSP)	36 CFM
	Calculations
Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]	m = sampler s
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]	b = sampler in
	I = chart respo
Qstd = standard flow rate	Lav = average t
IC = corrected chart response	Pav = average
I = actual chart response	
m = calibrator Qstd slope	
b = calibrator Qstd intercept	
Ta = actual temperature during calibration (deg	g K)
Pa = actual pressure during calibration (mm Hg	g)
Tstd = 298 deg K	
Pstd = 760 mm Hg	
For subsequent calculation of sampler flow:	
(1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]	
技	
Checked by: Kelvin	



創新科儀有限公司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Fanling Government School	Site ID:	A20	Date:	01-Jun-2020
Serial No:	1050	Model:	TE-5170X	Operator:	Kelvin

Ambient Condition

Corrected Pressure (mm Hg):	756.8	Temperature (deg K):	303.7
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Calibration Orifice

Model:	TE-5028	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis	
Test # (in)		(m3/min)	(chart)	(corrected)	
1	1.34	0.706	33.1	32.72	
2	1.86	0.828	35.1	34.70	
3	2.23	0.905	36.1	35.68	
4	3.02	1.050	38.2	37.76	
5	3.77	1.171	39.8	39.34	

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

	полительной (Ден оп п		, ,		
m=	14.1619	b=	22.8406	Corr. Coeff=	0.9993
Sample	er set point(SSP)	40	CFM		
		(Calculations		
Qstd = 1/m[Sqrte	(H2O(Pa/Pstd)(Tstd/Ta))-b]		m = sampler slope		
IC = I[Sqrt(Pa/Pst	td)(Tstd/Ta)]		b = sampler intercept		
			I = chart response		
Qstd = standard	flow rate		Tav = average temperature		
IC = corrected ch	nart response		Pav = average pressure		
I = actual chart re	esponse				
m = calibrator Q	2std slope				
b = calibrator Q	std intercept				
Ta = actual temp	erature during calibration (c	eg K)			

(1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

Tstd = 298 deg K Pstd = 760 mm Hg

Checked by: Date: 01-Jun-2020



創新科儀有限公司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location: Fanling Government School		Site ID:	A20	Date:	18-Jun-2020
Serial No:	1050	Model:	TE-5170X	Operator:	Kelvin

Ambient Condition

Corrected Pressure (mm Hg):	756.8	Temperature (deg K):	305.2
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Calibration Orifice

Model:	TE-5028	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or	In,H2O	In,H2O Qa, X-Axis		IC, Y-Axis				
Test #	(in)	(m3/min)	(chart)	(corrected)				
1	0.92	0.587	29.9	29.48				
2	1.63	0.775	32.7	32.24				
3	2.12	0.881	34.2	33.72				
4	3.23	1.083	36.7	36.19				
5	3.96	1.197	38.4	37.86				

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

Kelvin

Checked by:

m=	13.5467	b=	21.6494	Corr. Coeff=	0.9993
Samp	ler set point(SSP)	39	CFM		
		1	Calculations		
Qstd = 1/m[Sqr	t(H2O(Pa/Pstd)(Tstd/Ta))-b]		m = sampler slope		
IC = I[Sqrt(Pa/P	std)(Tstd/Ta)]		b = sampler intercept		
			I = chart response		
Qstd = standar	d flow rate		Tav = average temperature		
IC = corrected o	chart response		Pav = average pressure		
I = actual chart	response				
m = calibrator	Qstd slope				
b = calibrator (Qstd intercept				
Ta = actual tem	perature during calibration	(deg K)			
Pa = actual pre:	ssure during calibration (mn	n Hg)			
Tstd = 298 deg	K				
Pstd = 760 mm	Hg				
For subsequent	calculation of sampler flow				
(1.21*m+b)/[Sa	rt(298/Tav)(Pav/760)]				

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Date:

18-Jun-2020





RECALIBRATION DUE DATE:

October 10, 2020

Calibration Certification Information

Cal. Date: October 10, 2019

Rootsmeter S/N: 438320

°K

Ta: 296 Pa: 748.03

mm Hg

Operator: Jim Tisch Calibration Model #: TE-5028A

Calibrator S/N: 3702

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3100	4.1	1.50
2	3	4	1	1.0240	6.7	2.50
3	5	6	1	0.9260	8.0	3.00
4	7	8	1	0.8620	9.4	3.50
5	9	10	1	0.6540	16.2	6.00

Data Tabulation							
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	√∆H(Ta/Pa) (y-axis)		
0.9855	0.7523	1.2192	0.9945	0.7592	0.7704		
0.9820	0.9590	1.5739	0.9910	0.9678	0.9946		
0.9803	1.0586	1.7242	0.9893	1.0684	1.0895		
0.9784	1.1351	1.8623	0.9874	1.1455	1.1768		
0.9694	1.4823	2.4383	0.9783	1.4959	1.5409		
	m=	1.66723		m=	1.04399		
QSTD	b=	-0.03281	QA	b=	-0.02074		
45.5	r=	0.99991		r=	0.99991		

	Calculation	ns		
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)	
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime	
	For subsequent flow rat	te calculatio	ns:	
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$	

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30.

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009





SIBATA SCIENTIFIC TECHNOLOGY LTD.

1-1-62, Nakane, Soka, Saitama, 340-0005 Japan

TEL: 048-933-1582 FAX: 048-933-1591

CALIBRATION CERTIFICATE

Date: August 28th, 2019

Equipment Name : Digital Dust Indicator, Model LD-5R

 Code No.
 : 080000-72

 Quantity
 : 1 unit

 Serial No.
 : 851820

 Sensitivity
 : 0.001 mg/m3

Sensitivity Adjustment : 640

Scale Setting : August 23rd, 2019

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Tong Zhang

Overseas & New Business Group

Overseas Sales Department





SIBATA SCIENTIFIC TECHNOLOGY LTD.

1-1-62, Nakane, Soka, Saitama, 340-0005 Japan

TEL: 048-933-1582 FAX: 048-933-1591

CALIBRATION CERTIFICATE

Date: September 24th, 2019

Equipment Name : Digital Dust Indicator, Model LD-5R

 Code No.
 : 080000-72

 Quantity
 : 1 unit

 Serial No.
 : 992818

 Sensitivity
 : 0.001 mg/m3

Sensitivity Adjustment : 638CPM

Scale Setting : September 3rd, 2019

We hereby certify that the above mentioned instrment has been calibrated satisfactory.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Tong Zhang

Overseas & New Business Group

Overseas Sales Department



APPENDIX G: THE CERTIFICATION OF LABORATORY CERTIFICATE





Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界獎涌永業街1-3號忠信針織中心11樓

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 為香港認可處執行機關根據認可諮詢委員會建議而接受的

HOKLAS Accredited Laboratory 「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO / IEC 17025 : 2005 - General requirements for the competence 此實驗所符合ISO / IEC 17025: 2005 - (测試及校正實驗所能力的通用規定)所訂的要求 of testing and calibration laboratories and it has been accredited for performing specific tests or calibrations as 獲認可進行截於香港實驗所認可計劃(認可實驗所名冊)內下達測試類別中的指定 listed in the HOKLAS Directory of Accredited Laboratories within the test category of 测试或校正工作

Environmental Testing 環境測試

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory 這項認可資格淡示在指定範疇所需的技術能力及實驗所質量管理關系的運作 quality management system (see joint IAF-ILAC-ISO Communiqué). (見國際認可論壇、國際實驗所認可含作組織及國際標準化組織的聯合公配)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 香港認可處根據認可處執行機關的權限在此蓋上通用印章

CHAN Sing Sing, Terence, Executive Administrator

執行幹事 陳成城 Issue Date: 5 May 2009

簽發日期:二零零九年五月五日

註冊號碼:

Registration Number : NOMAS 066

Date of First Registration: 15 September 1995 首次註冊日期:一九九五年九月十五日

This certificate is issued subject to the terms and conditions laid down by HKAS 本證書按照香港組列應訂立的複數及條件發出

L 000552





Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ACUMEN LABORATORY AND TESTING LIMITED

浩科檢測中心有限公司

Lot 12, Tam Kon Shan Road, North Tsing Yi, New Territories, Hong Kong 香港新界青衣北担杆山路12路段

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 在認可諮詢委員會的建議下獲香港認可處執行機關接受為

> **HOKLAS** Accredited Laboratory 「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO/IEC 17025:2005 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

Environmental Testing

此實驗所符合ISO/IEC 17025:2005所訂的要求 並獲認可進行載於認可範圍內下述測試類別中的指定測試或校正工作

環境測試

This accreditation to ISO/IEC 17025:2005 demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-ILAC-ISO Communiqué).

此項 ISO/IEC 17025:2005 的認可責格證明此實驗所具備指定範疇內所須的技術能力並實施一套實驗所質量管理體系(見圖際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公發)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印章

WONG Wang-wah, Executive Administrator

執行幹事 黃宏華 Issue Date: 16 July 2014

簽發日期:二零一四年七月十六日

Registration Number: HOKLAS 241

註冊號碼:

Date of First Registration: 16 July 2014 首次註冊日期:二零一四年七月十六日

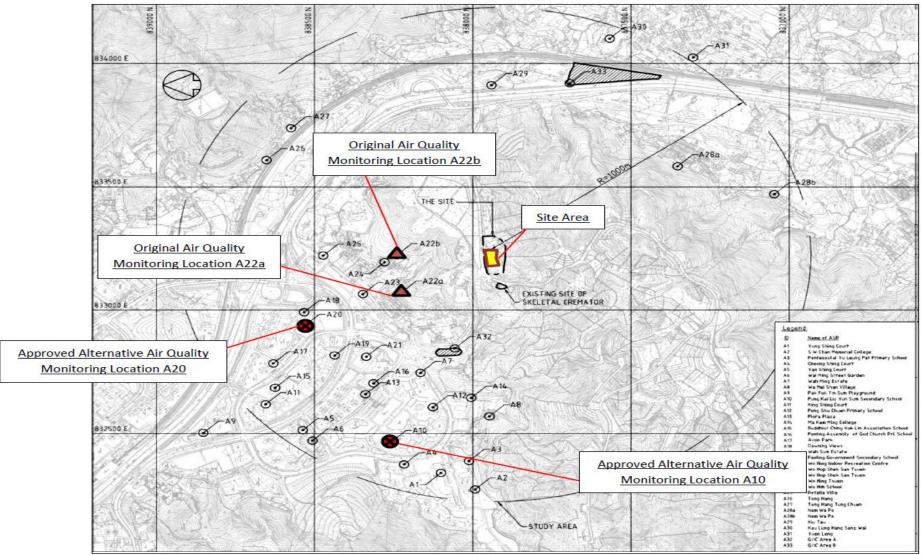
This certificate is issued subject to the terms and conditions laid down by HKAS 本語書按照香港認可處訂立的複數及條件發出

L 001195



APPENDIX H: LOCATION PLAN OF AIR QUALITY MONITORING STATION







APPENDIX I: AIR QUALITY MONITORING DATA



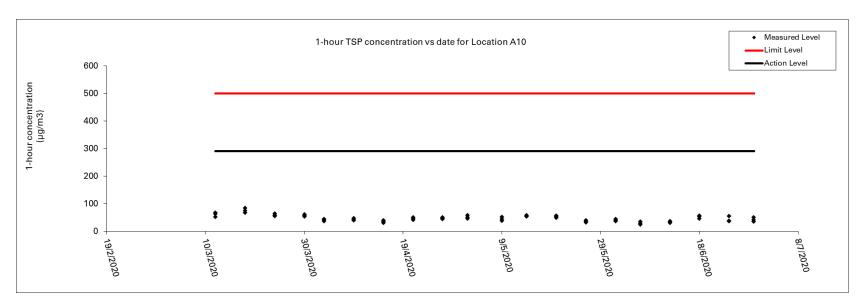
The Summary of 1-hour TSP Concentration ($\mu g/m^3$) at A10

Date	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1) μg/m³	Reading (2) μg/m³	Reading (3) μg/m³	Average μg/m³
01/06/2020	Sunny	14:30	15:30	16:30	44	37	40	40
06/06/2020	Fine	10:45	11:45	12:45	36	29	25	30
12/06/2020	Sunny	10:55	11:55	12:55	35	31	37	34
18/06/2020	Sunny	11:50	12:50	13:50	46	57	53	52
24/06/2020	Sunny	10:45	11:45	12:45	56	37	39	44
29/06/2020	Sunny	15:45	16:45	17:45	41	35	50	42

Average 1-hour TSP: 40

Max.: 57

Min.: 25





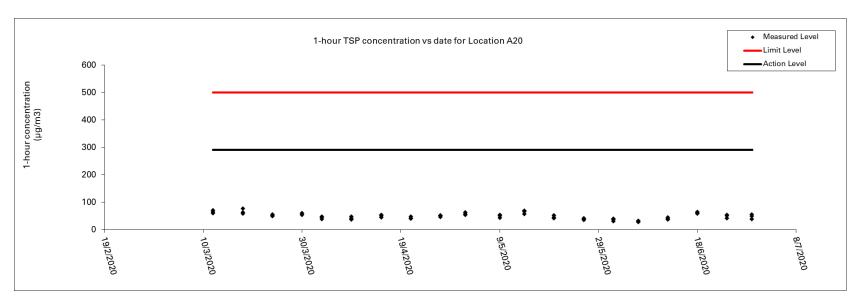
The Summary of 1-hour TSP Concentration ($\mu g/m^3$) at A20

Date	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1) μg/m³	Reading (2) μg/m³	Reading (3) μg/m³	Average μg/m³
01/06/2020	Sunny	14:10	15:10	16:10	36	31	39	35
06/06/2020	Fine	10:15	11:15	12:15	27	32	30	30
12/06/2020	Sunny	10:00	11:00	12:00	44	36	39	40
18/06/2020	Sunny	12:20	13:20	14:20	64	61	58	61
24/06/2020	Sunny	11:15	12:15	13:15	42	53	50	48
29/06/2020	Sunny	15:10	16:10	17:10	49	55	38	47

Average 1-hour TSP: 44

Max.: 64

Min.: 27





Slop =

Intercept =

15.4917

21.0431

1-Jun-20

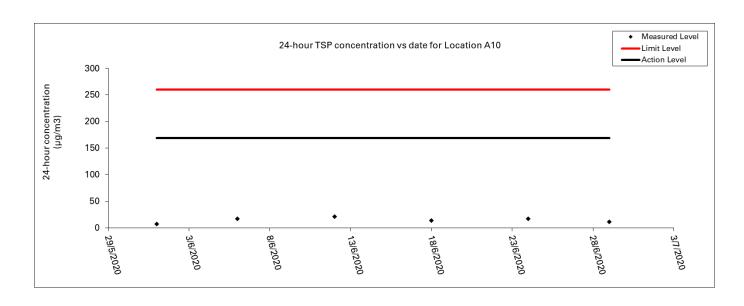
14-Jun-20

Date of Calibration:

Calibration due date:

											Calibration:	,	ın-20	Slop =	23.1034
										Calibrati	on due date:	1-Ju	l-20	Intercept =	7.4826
Start Date	Weather Condition	E	lapse Tim	ie	Ch	ıart Readi	ng	Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	_	Weight g)	Particulate weight	Conc.
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(mm Hg)	(m³/min)	(m³)	Initial	Final	(g)	(μg/m³)
01/06/2020	Sunny	6081.1	6105.1	1440.0	40	40	40.0	30.7	756.8	1.19	1712	2.7064	2.7191	0.0127	7
06/06/2020	Fine	6105.1	6129.1	1440.0	37	38	37.5	25.6	756.2	1.05	1509	2.7353	2.7616	0.0263	17
12/06/2020	Sunny	6129.1	6153.1	1440.0	36	38	37.0	32.9	754.9	0.98	1416	2.7741	2.8041	0.0300	21
18/06/2020	Sunny	6154.8	6178.8	1440.0	37	38	37.5	32.2	756.8	1.27	1833	2.7101	2.7356	0.0255	14
24/06/2020	Sunny	6178.8	6202.8	1440.0	36	37	36.5	32.4	755.2	1.23	1767	2.7389	2.7697	0.0308	17
29/06/2020	Sunny	6202.8	6226.8	1440.0	38	40	39.0	35.1	753.2	1.32	1903	2.7302	2.7517	0.0215	11

Min: 7 Max: 21 Avg: 15



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6202.9

Sunny

6226.9

1440.0

39

40

39.5

29/06/2020



Slop =

Intercept =

0.0291

14.1619

22.8406

1-Jun-20

14-Jun-20

Date of Calibration:

1791

2.7406

2.7697

Calibration due date:

									Calibration:		ın-20	Slop =	13.5467		
Start Date	Weather	E	lapse Tim	ie	Ch	ıart Readi	ng	Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	on due date: Standard Air Volume	Filter V	l-20 Weight g)	Intercept = Particulate weight	21.6494 Conc.
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(mm Hg)	(m³/min)	(m³)	Initial	Final	(g)	(μg/m³)
01/06/2020	Sunny	6081.2	6105.2	1440.0	39	39	39.0	30.7	756.8	1.10	1589	2.7045	2.7193	0.0148	9
06/06/2020	Fine	6105.2	6129.2	1440.0	39	40	39.5	25.6	756.2	1.16	1670	2.7329	2.7546	0.0217	13
12/06/2020	Sunny	6129.2	6153.2	1440.0	40	41	40.5	32.9	754.9	1.19	1715	2.7614	2.7925	0.0311	18
18/06/2020	Sunny	6154.9	6178.9	1440.0	39	39	39.0	32.2	756.8	1.23	1778	2.7562	2.7866	0.0304	17
24/06/2020	Sunny	6178.9	6202.9	1440.0	39	40	39.5	32.4	755.2	1.26	1820	2.7244	2.7559	0.0315	17

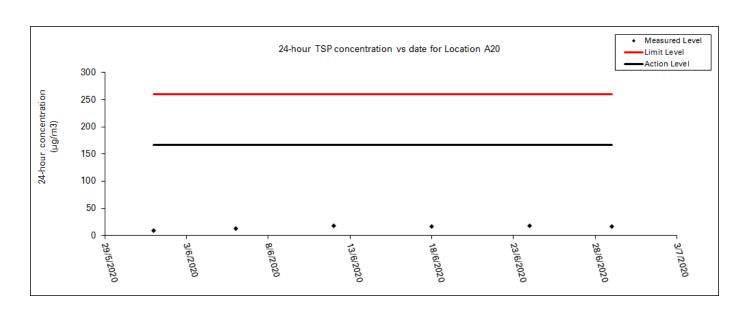
35.1

753.2

1.24

Min: 9 Max: 18 Avg: 15

16



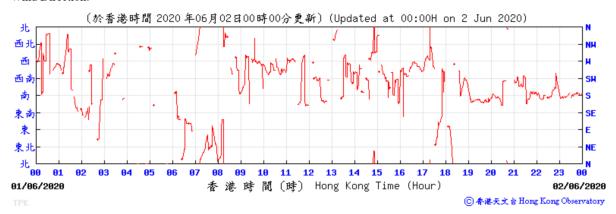
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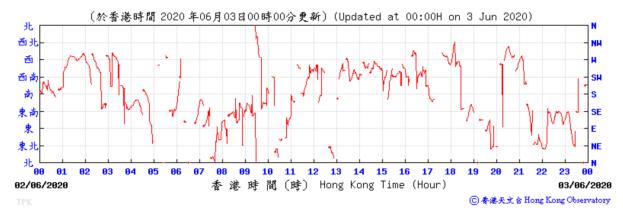


Wind direction data for 01, 06, 12, 18, 24 and 29 June 2020

A. 01/06/2020:

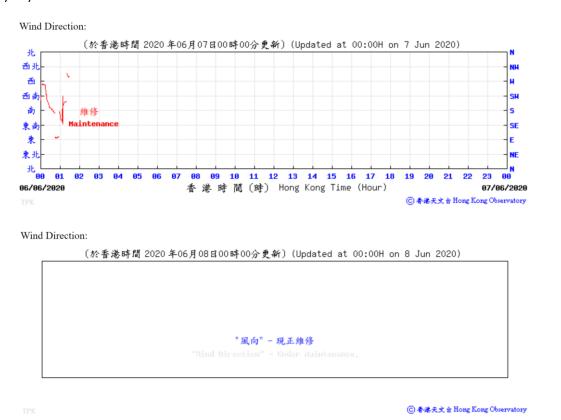
Wind Direction:



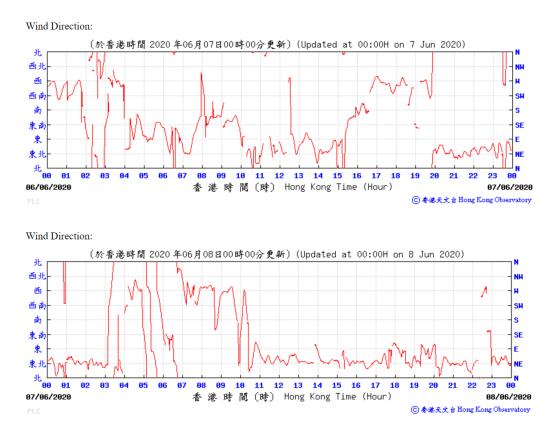




B. 06/06/2020:



*As the Tai Po Kau station was under maintenance on 6 and 7 June 2020, the data of wind direction from Tai Mei Tuk station was taken as reference:

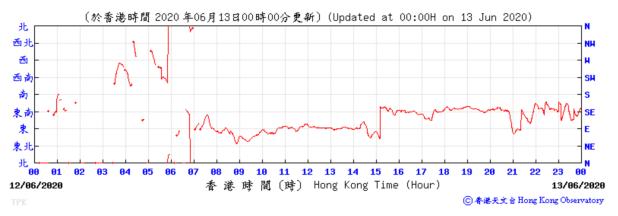


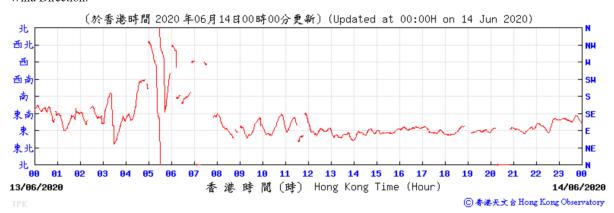
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C. 12/06/2020:

Wind Direction:

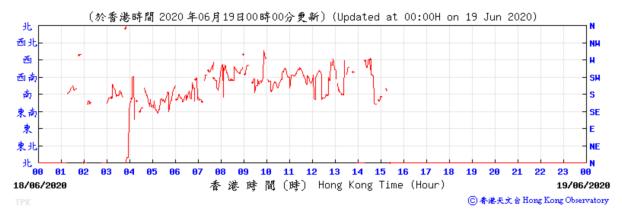


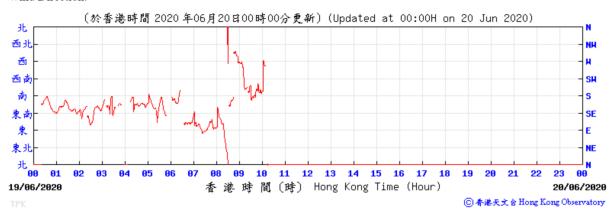




D. 18/06/2020:

Wind Direction:

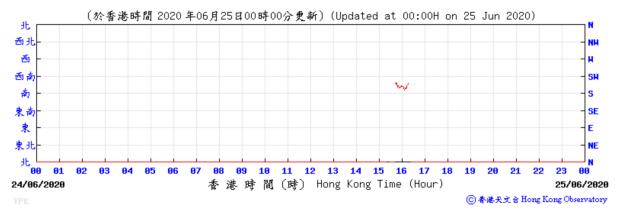


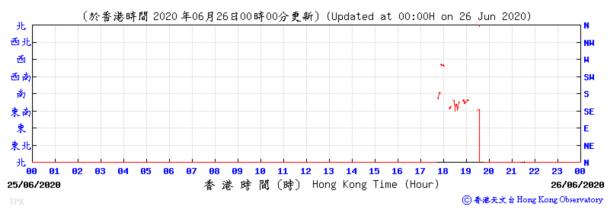




E. 24/06/2020

Wind Direction:

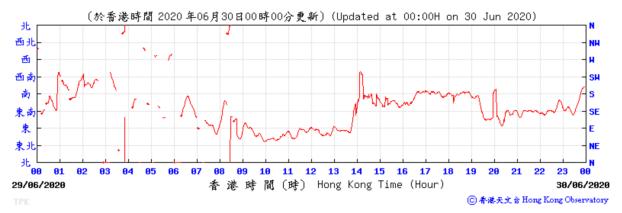


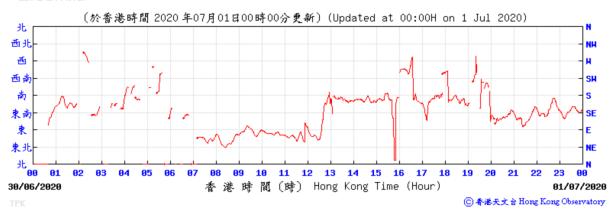




F. 29/06/2020

Wind Direction:

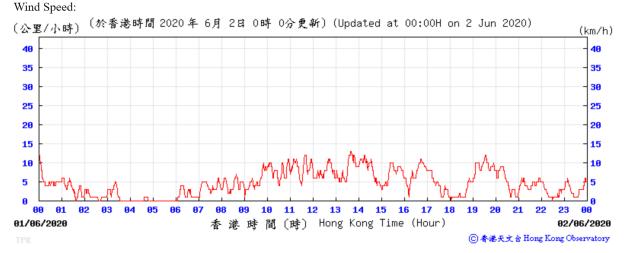




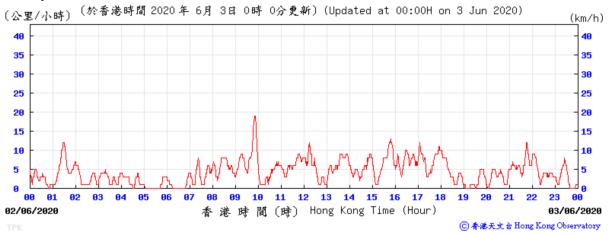


Wind speed data for 01, 06, 12, 18, 24 and 29 June 2020

A. 01/06/2020:



Wind Speed:

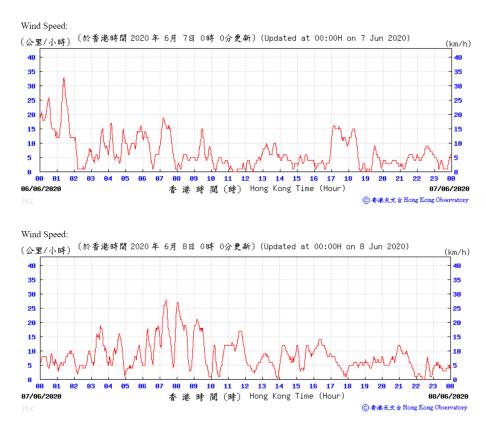




B. 06/06/2020:



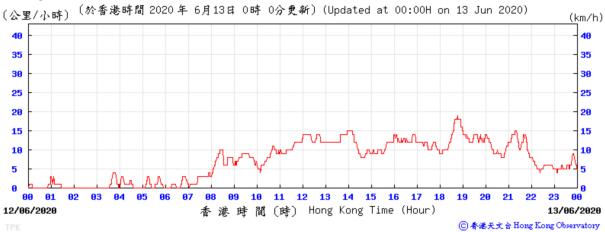
*As the Tai Po Kau station was under maintenance on 6 and 7 June 2020, the data of wind speed from Tai Mei Tuk station was taken as reference:





C. 12/06/2020:



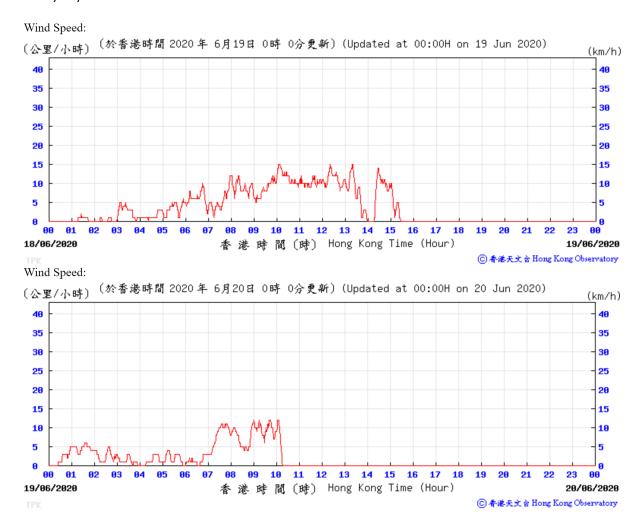


Wind Speed:





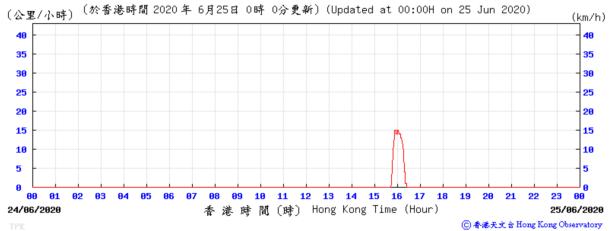
D. 18/06/2020:



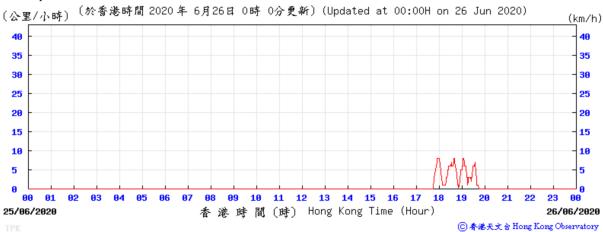


E. 24/06/2020





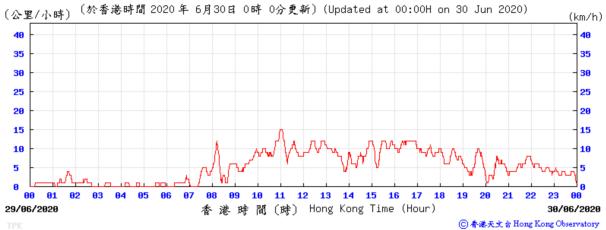
Wind Speed:



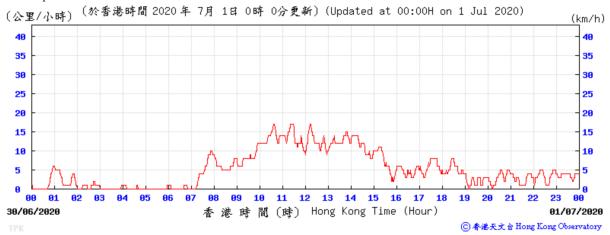


F. 29/06/2020





Wind Speed:





APPENDIX J: WASTE FLOW TABLE

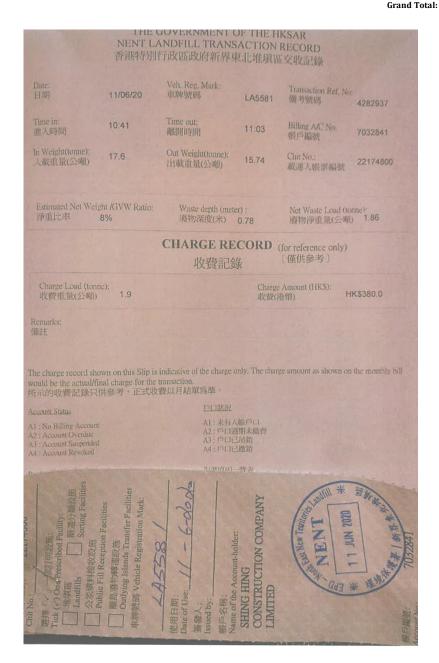


	Act	ual Quantitie	s of Inert C&I) Materials Ge	enerated Mon	thly	Actual Quantities of C&D Wastes Generated Monthly							
Reporting Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note)	Chemical Waste	Others, e.g. general refuse			
	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)			
March 2020	1.35	0	0	0	1.35	0	0	0	0	0	0			
April 2020	858.29	0	0.61	0	855.61	0	0	0	0	0	3.29			
May 2020	213.75	0	0	0	205.94	0	0	0	0	0	7.81			
June 2020	1.86	0	0	0	0	0	0	0	0	0	1.86			



Waste to Landfill (June 2020):

waste to ban	unn (june 202	20).								
Facility	Date of transaction	Vehicle No.	Account No.	Chit No.	Time-in	Time-out	Waste depth (meter)	Weight-in (tonne)	Weight-out (tonne)	Net weight (tonne)
NENT	11/06/20	LA5*81	7032841	22174800	10:41	11:03	0.78	17.6	15.74	1.86
								Crond	Total.	1.06





APPENDIX K: SITE INSPECTION PROFORMA



Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

		2///	WEEKLY EN	VIRONMENTA	AL INSPE	CTION			Т	V 1999
Inspec	tion Dat	e: 3/6/207	10	Inspected by	:	ET:	Toe	Ho	_ A	R: L. Wong
Inspec	tion Tin	10 30			Contra	ctor:	MY	Wond	IE	CC:
Weath	er							J		
Condit	tion	Sunny	☐ Fine	□ Overcast	☐ Drizzle		□ Raii	n	□ Stor	m 🗆 Hazy
Tempe	rature	31 ℃			Humidity		✓ Hig	h	□ Мос	derate
Wind		✓ Calm	□ Light	□ Breeze	☐ Strong					
	Enviro	onmental Mitigation	Measures			N/A*	N/O*	Yes*	No*	Photo/Remarks
1.00	Air (C	onstruction Phase)								
	Vehicle	e washing facilities (including a high pr	essure water jet) were	provided at					
1.01	every (discernible or designa	nted vehicle exit poir	nt.		Ш	Ш		Ш	-
	Road	between the washing	facilities and the	exit point is paved w	rith concrete,					
1.02	bitumi	nous or hardcore mat	erial.						Ш	
	Every	main haul road is p	aved with concrete,	bituminous hardcore	materials or					
1.03	metal _l	plates, and kept clear	of dusty materials. C	Or unpaved haul roads	and areas are					
	spraye	d with water to keep	the entire road surfa	ce wet.						
	Stockp	oile of dusty material	including demolishe	ed items is either:						
	a) cov	vered entirely by imp	ervious sheeting, or							
1.04	b) pla	ced in an area shelter	ed on the top and th	e three sides, or						
	c) spr	ayed with water or a	dust suppression ch	emical so as to maint	ain the entire					
	sur	face wet.								
	Expos	ed earth is properly tr	eated by compaction	, hydroseeding, vegeta	ation planting					The construction
1.05	or seat	ing with latex, vinyl	, bitumen within six	months after the last	construction					16mpleted
	activit	y on the site or part o	f the site where the	exposed earth lies.						
1.07	117		() () ()	T' and the second						
1.06	Water	is sprayed to all dust	y materials before to	ading or transfer oper	ation.		Ш		П	
7	Any c	lebris is covered en	tirely by imperviou	as sheeting or stored	in a debris	4		THE STATE OF THE S	, _	No debris was stored on-site
1.07	collect	ion area sheltered on	the top and the thre	e sides.			Ш	MA		THE WASTE
1.00	Water	is sprayed to debris b	rathers it is dummed in	nto a abuta						No debru mas stored ansite
1.08	water	is sprayed to debris t	before it is dumped in	nto a chute.		بطر				STOR OF THE STEE
1.09	Vehicl	es for transporting	dusty materials/spo	ils are covered with	tarpaulin or					
1.09	simila	r material. The cover	extends over the eda	ges of the sides and ta	ilboards.					
	Water	is sprayed immediate	ely to the working ar	ea for uprooting of tre	es, shrubs, or					
1.10	vegeta	tion or the removal	of boulders, pole, p	pillars before, during	and after the					
	operat	ion.								
1.11	Worke	ers at all levels are co-	operative to avoid d	ust generation and dis	persion to the					
6:11	surrou	nding environment.								
2.00	Noise	(Construction Phas	e)							



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
2.01	Only well-maintained plant is operated on site and the plant should be regularly serviced during the construction works			Ø		
2.02	Plant used intermittently is turned off or throttled down when not in active use.					
2.03	Plant that emits noise strongly in one direction is oriented to face away from NSRs.					
2.04	Silencers, mufflers and enclosures for plant are applied where possible and maintained adequately throughout the works					
2.05	Where possible, mobile plant is sited away from NSRs					
2.06	PME is well maintained and used properly on site to minimise any excessive noise generated.			Ø		
2.07	Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.					
3.00	Land Contamination (Construction Phase)					
	N/A to the Phase III development					
4.00	Waste Management (Construction Phase)					
4.01	The necessary waste disposal permits from the appropriate authorities are obtained, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28).					
4.02	A billing account with EPD for disposal of construction waste is obtained.					
4.03	A Waste Management Plan (WMP), incorporated in an Environmental Management Plan (EMP) is prepared and submitted to the Engineer/Supervising Officer for approval. Reference is made to Environment, Transport and Works Bureau Technical Circular (Works) (ETWB TCW) 19/2005.			Ø		
4.04	An approved person to be responsible for good site practice is nominated, including arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.			Ø		
4.05	Is authorised or licensed waste hauler used to collect specific category of waste?			otin		
4.06	A trip-ticket system is included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of C&D and solid wastes at public filling facilities and landfills, and to control fly tipping. Reference is made to ETWB TCW No. 31/2004.			a		
4.07	Training of site personnel in proper waste management and chemical waste handling procedures.			Ø		



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
4.08	Is routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors conducted?					
4.09	Are sufficient waste disposal points and regular collection for disposal provided?					
4.10	Are appropriate measures to minimise windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers adopted?			ď		
4.11	Is recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) implemented?					
4.12	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.			Þ		
4.13	Encourage collection of aluminium cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separately labelled bins are provided to help segregate this waste from other general refuse generated by the work force.					
4.14	Are C&D materials reused when possible to reduce the amount of C&D material/waste?					
4.15	Are wood, steel and other metals separated for reuse and / or recycling prior to disposal of C&D waste to minimise the quantity of waste to be disposed of to landfill?					
4.16	Minimise the potential for damage or contamination of construction material by having proper storage and site practices.			Ø		
4.17	Plan and stock construction materials carefully to minimise the amount of surplus materials.			Ø		
4.18	Rock and soil generated from excavation are reused for site formation and excavated material from foundation work reused for landscaping as far as practicable to avoid disposal off-site.					
4.19	Is reuse of the public fill and C&D waste practiced on site as far as practicable?					The inert excavated motoril would be used for hall-filling
4.20	The handling of C&D materials is governed by WBTC No. 2/93. Inert C&D material (public fill) is directed to an approved public filling area or reclamation site, where it has the benefit of offsetting the need for removal of materials from borrow areas for reclamation purposes and helps to reduce the pressure on landfill sites.					
4.21	Are individuals or companies who deliver public fill to public filling areas obtained dumping licences?			Ø		



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
4.22	Are careful design, planning and good site management adopted to minimise overordering and generation of waste materials such as concrete, mortar and cement grouts? The design of formwork maximise the use of standard wooden or metal panels so that high reuse levels can be achieved. Alternatives such as steel formwork, plastic fencing and reusable site office structures are considered to increase the potential for reuse and minimize C&D waste generation.			Ø		
4.23	The contractor uses as much as possible of the C&D material on-site. Proper segregation of waste types on site will increase the feasibility of certain components of the waste stream by recycling contractors.					
4.24	General refuse is stored in enclosed bins or compaction units separate from C&D and chemical wastes. A reputable waste collector is employed by the Contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily or every second day basis to minimise odour, pest and litter impacts.					
	Chemical Waste					
4.25	Contractor registers with the EPD as chemical waste producer if any chemical waste is generated			Ø		
4.26	All the chemical waste is handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. The chemical waste is stored and collected by an approved contractor for disposal at a licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.			Ø		
4.27	Principles of reuse and recycle chemical waste on site as far as practicable is adopted by the contractor.					
4.28	Are unused chemicals or those with remaining functional capacity reused as far as practicable?	Ø				No chemical waite was generated
4.29	Disposal of chemical waste via a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility at Tsing Yi, which offers a chemical waste collection service and can supply the necessary storage containers or a waste recycling plant approved by EPD.					No chemical waste vous generated
5.00	Landscape and Visual (Construction Phase)					
5.01	Do site offices have olive green roof and façade coating or colour that matche with existing environment?			Ø		
5.02	Are site offices and the construction yard decommissioned after construction?	\angle				The construction with bear compacted
5.03	The height of site offices, including the rooftop does not exceed 10m, except building services equipment such as antennas, which exceeds 10 m but is coated in black.			otin		



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
5.04	Is site hoarding with 2.4m height and colour in harmony with the surrounding environment erected along the site boundary until the completion of relevant construction phases?			Ø		
5.05	Are construction plants and building materials orderly and carefully stored to appear neat and avoid visibility from outside where practical?			ď		
5.06	Are excess materials removed from site as soon as practical?			Ø		
5.07	Are all construction plants removed from site upon completion of construction works?	ď				has not been completed
5.08	Are construction lights oriented away from the viewing location of VSRs?					
5.09	Are all lightings facing sensitive receiver installed with frosted diffusers and reflective covers?		ď			
5.10	Trees that require removal are transplanted on site if practical. If not practical, these trees will be transplanted in locations within the vicinity as approved by the Architect.			Ø		
5.11	Planting works are carried out under the supervision of a specialist landscape specialist.					No planting work
5.12	The rooftop of the cremation plant room is planted with lawn.	ń				The cremation plant roum has not been completed
5.13	New trees, shrubs and groundcover are carefully selected and designed to homogenize with the environment.	Ø				No planting work
5.14	No tree is transplanted or felled without prior approval by relevant Government departments.					
5.15	All trees that are marked for retention are fenced off with a 1.2m high fence around the dripline of trees or larger area as far as feasible.					
5,16	Transplant preparation works are carried out as soon as possible after the commencement of construction. Over-pruning such as hard pruning of tree crown, pollarding or topping are avoided. Rootball and crown pruning are carried out over at least 3 months.			Ø		
5.17	Existing shrub and ground cover planting areas that will not be removed are maintained in good condition and enhanced if practical.			d		
5.18	The chimney has been designed to have sculptural outlook and articulated. It is kept in proportion with the rest of the building.	Ø				The chimney has not been constructed
5.19	The chimney stack is designed to locate at the least conspicuous location of the site to VSRs.	Ø				The chimney has



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
5.20	Bi-weekly checking would be performed on the nine Terminalia mantaly trees within and outside the works area of the Project, or otherwise if the transplantations are not carried out according to the plan.			Ø		
5.21	Are silting traps installed to minimize silting to streams?			Ø		
5.22	Is the tree compensation to tree loss ratio at least 1:1 in term of quantity? About 100 trees will be planted to compensate for the loss of 54 trees 100 trees will be planted on site and others, in locations within the vicinity approved by the Architect	Ø				No planting work
5.23	Is amenity planting for open spaces included in the Project?	Þ				No planting mak
5.24	Is screen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road carried out?	Ø				No planting work
5.25	Woodland mix, comprising of tree seedlings and shrubs, are planted within the Wo Hop Shek Cemetery to enhance the ecological value and compensatory of tree loss.	Ø				No planting wok
5.26	Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians?	ď				The cremation plant room has not been constructed
6.00	Water Quality (Construction Phase)					
6.01	Wastewater is properly treated to meet the discharge standards set out in the relevant Water Pollution Control Ordinance (WPCO) discharge licence. No direct discharge of site runoff into the two streams is allowed.			Ø		
6.02	Perimeter channels are provided to intercept storm runoff from outside the site. The channels are constructed in advance of site formation works and earthworks.					
6.03	Sand/silt removal facilities such as sand traps, silt traps and sediment basins are provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the WPCO.					
6.04	Works are carefully programmed to minimise soil excavation works during rainy seasons.			Ø		
6.05	Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion.			Ø		
6.06	Temporary access roads are protected by crushed gravel and exposed slope surfaces are protected when rainstorms are likely to occur.			Ø		
6.07	Trench excavation is avoided in the wet season as far as practicable, and if necessary, these trenches are excavated and backfilled in short sections.			ď		
6.08	Open stockpiles of construction materials on site are covered with tarpaulin or similar fabric during rainstorms.			6		



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
6.09	Sand and silt in the wash water from the wheel from the wheel washing facility					
	are settled out and removed before discharging into the storm drain.					
	Oil interceptor is provided in the drainage system and regularly emptied to					
6.10	prevent the release of oil and grease into the storm drainage system after					
	accidental spillage.					
6.11	Debris and rubbishes generated on site are collected, handled and disposed of	П			П	
	properly to avoid them entering the two streams.					
6.12	All fuel tanks and storage areas are provided with locks and be sited on sealed	Ø				Mo fael was
	areas, within bunds of a capacity equal to 110% of the storage capacity of the					stored on site
	largest tank.					
Z 12	Open storm water drains and culverts near the works area are covered to block the					
6.13	entrance of large debris and refuse.					
	Portable chemical toilets handle the sewage from construction work force if the					
	existing toilets in the Site are not adequate. Licensed contractors who are					
6.14	responsible for appropriate disposal and maintenance of these facilities provide					
	appropriate and adequate portable toilets.					
	Sheet piling is provided at suitable location around the basement excavation to					
	reduce the effect of lowering the water table from any dewatering process. Any					
	discharge of groundwater pumped out from any dewatering process of the					No grandwater
6.15	construction works is treated to comply with the standards set in the relevant					No giornal water new generated
	discharge licence prior discharge. No discharge of the groundwater is allowed into					was generated
7.00	the two streams.					
7.00	Ecology (Construction Phase)					
7.01	Any affected trees are transplanted to grassland / scrubland within the Wo Hop					
	Shek Cemetery.					
7.02	Temporary accesses to the work sites are carefully planned and located to					
	minimise disturbance caused to the streams and nearby habitats.					
7.03	Less or smaller construction plants are used to reduce disturbance to the nearby	П	П	$ \overline{} $	П	
7.03	habitats.					
7.04	Vehicles and other plants are carefully maintained and properly used to minimise	П	П		П	
	the chance for accidental spillage.					
7.05	Any spillages that do occur are quickly identified and appropriately cleaned up					No coillage accord
	before they can contaminate streams or groundwater.	M		Ш	Ш	100 spirage paulou
7.06	Basement formation or any construction activities likely to pump out a large					
	quantity of groundwater are protected with sheet-piling at suitable locations					No groudanter was
	around the basement footprint, or by any like method.	6				generated
7.07	No groundwater is pumped back to the two stream courses to protect the natural	_	_	_		N \ 14
	integrity of the stream habitat and the associated organism.					My grand nter was
						y croto way



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
7.08	Sturdy 1.8 metres protective fencings are located at the edge of the tree canopy but not around the trunk.			Ø		
7.09	Works beneath the tree canopy are avoided: If encroachment under the canopy area is unavoidable, adequate protections are provided to ensure no damage of any part of the tree would occur due to the encroachment.			Ø		
7.10	Any tree transplanting and planting works are implemented by an approved Landscape Contractor. Quality control of the work is undertaken by a qualified Landscape Architect through site inspections and approval of works.					
7.11	Construction works are restricted within works area which are clearly defined.			Ø		
7.12	Woodland or other habitats that are affected by the construction works are well-defined and minimised.			Ø		
7.13	Human inference to habitats beyond the site boundary and habitats proposed to be retained are avoided by providing temporary barricades.			Ó		
7.14	Works area is reinstated immediately after completion of the construction.	d				The Construction has not been completed
7.15	Uncontrolled burning of refuse is strictly prohibited. Appropriate fire control measures are provided in order to protect nearby habitats.			p'		
7.16	Trees requiring transplantation or protection are identified based on the information illustrated in the Tree Survey Report.			Ó		
7.17	Is layout of the Project carefully designed to avoid or minimize the area of habitat loss and the numbers of trees to be felled?			Ø		
7.18	All trees are preserved as far as possible, especially species of conservation concern. Recommendations provided in the Tree Survey Report to mitigate impacts on trees shall be followed.					
7.19	Disturbance to the two plant species of conservation concern, namely Aquilaria sinensis and Cibotium barometz, is avoided. Where removal of these species is unavoidable, it is recommended to transplant them to habitats with similar conditions. Following transplantation, regular monitoring of these plants is conducted by a suitable qualified botanist / horticulturist over a 12-month period;			ď		
7.20	Compensatory planting of the felled trees follows the Technical Circular No. 3/2006 issued by ETWB.	Q				No planting work
7.21	The Site inside or in the proximity of the streams and nearby habitats is temporarily isolated, by placing of sandbags or silt curtains with lead edge at the bottom and properly supported props, to prevent adverse impacts on these areas.			Ø		



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Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
7.22	Appropriate storage locations are situated well away from the streams and nearby habitats for the temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction debris and spoil are identified before commencement of the works.					
7.23	Stockpiling of construction materials, are covered and located away from the streams and nearby habitats.			Ø		
7.24	Construction debris and spoil are covered up and/or properly disposed of as soon as possible to avoid being washed into the streams and nearby habitats by rain.					
7.25	Construction effluent, site runoff and sewage is properly collected and/or treated.					No effluent was
7.26	Proper locations for discharge outlets of any wastewater treatment facilities well away from the streams and nearby habitats are identified.			otin		
7.27	Vehicles and other plant are carefully maintained and properly used to minimise the chance for accidental spillage.			ď		
7.28	Temporary geo-textile silt fences around earth moving works are erected to trap any sediments being washed away and prevent them from entering surrounding areas.			Á		
7.29	Exposed soil or other loose materials are covered with tarpaulins to prevent erosion, and then seeded and covered with a biodegradable geotextile blanket for erosion control purposes.			4		

*Remarks:

N/A = Not applicable at current stage

N/O = Not observed in the site walk

Yes = Compliance

No = Non-compliance



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Remark / Follow up of Observation((s) and Non-compliance(s) of Last We	eekly Site Inspection:	
Obset vation	(1) \ \ \ \ (1)		
Reminder (1)	: Nil		
I/Charles	111		
Signatures:			
ET	Contractor's	Architect's	IEC's
Representative	Representative	Representative	Representative
<u> </u>	Lilà	while	
(Name: Joe)	(Name: M-T. WOAV	(Name:)	(Name:



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Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspec	tion Date: 10/6/2020	Inspected by:		ET:	Sam	Mok	A	R: L-Wong
Inspec	tion Time: 0 : 30		Contra		,	Nong		CC:
Weath								
Condi	tion Sunny Fine	□ Overcast	□ Drizzle		☐ Rair	1	□ Stor	m 🗆 Hazy
Tempe	erature 31°C		Humidity		☐ High	h	□ Mo	derate \ \ \ \ \ \ Low
Wind	☐ Calm ☐ Light	□ Breeze	☐ Strong					
	Environmental Mitigation Measures			N/A*	N/O*	Yes*	No*	Photo/Remarks
1.00	Air (Construction Phase)							
1.01	Vehicle washing facilities (including a high	pressure water jet) were p	provided at				П	
	every discernible or designated vehicle exit po	oint.						
1.02	Road between the washing facilities and the	e exit point is paved with	n concrete,	П		Ø		
	bituminous or hardcore material.							
	Every main haul road is paved with concret	e, bituminous hardcore m	naterials or			_/		
1.03	metal plates, and kept clear of dusty materials.	,	d areas are					
	sprayed with water to keep the entire road sur	face wet.						
	Stockpile of dusty material including demolis	hed items is either:						
	a) covered entirely by impervious sheeting, of	or						
1.04	b) placed in an area sheltered on the top and	the three sides, or						
	c) sprayed with water or a dust suppression of	chemical so as to maintain	the entire					
	surface wet.							
	Exposed earth is properly treated by compaction	on, hydroseeding, vegetation	on planting				_	The construction work has not been complete
1.05	or seating with latex, vinyl, bitumen within s	ix months after the last co	onstruction					has not been complete
	activity on the site or part of the site where the	e exposed earth lies.						
1.06	Water is sprayed to all dusty materials before	loading or transfer operati	on.			Ø		
1.07	Any debris is covered entirely by impervi-	<u> </u>	n a debris					
	collection area sheltered on the top and the thi	ree sides.						
1.08	Water is sprayed to debris before it is dumped	into a chute.				Ø		
1.09	Vehicles for transporting dusty materials/sp					Ø		
	similar material. The cover extends over the e							
es emen	Water is sprayed immediately to the working a				_		_	
1.10	vegetation or the removal of boulders, pole,	pillars before, during an	d after the					
	operation.							
1.11	Workers at all levels are co-operative to avoid	dust generation and disper	rsion to the			Ó		
	surrounding environment.							
2.00	Noise (Construction Phase)							



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks			
2.01	Only well-maintained plant is operated on site and the plant should be regularly serviced during the construction works			Ø					
2.02	Plant used intermittently is turned off or throttled down when not in active use.			Ø					
2.03	Plant that emits noise strongly in one direction is oriented to face away from NSRs.			Ó					
2.04	Silencers, mufflers and enclosures for plant are applied where possible and maintained adequately throughout the works			Ø					
2.05	Where possible, mobile plant is sited away from NSRs			Ø					
2.06	PME is well maintained and used properly on site to minimise any excessive noise generated.			Ø					
2.07	Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.			ď					
3.00	Land Contamination (Construction Phase)								
	N/A to the Phase III development								
4.00	Waste Management (Construction Phase)								
4.01	The necessary waste disposal permits from the appropriate authorities are obtained, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28).								
4.02	A billing account with EPD for disposal of construction waste is obtained.			ď					
4.03	A Waste Management Plan (WMP), incorporated in an Environmental Management Plan (EMP) is prepared and submitted to the Engineer/Supervising Officer for approval. Reference is made to Environment, Transport and Works Bureau Technical Circular (Works) (ETWB TCW) 19/2005.			Ø					
4.04	An approved person to be responsible for good site practice is nominated, including arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.			Ø					
4.05	Is authorised or licensed waste hauler used to collect specific category of waste?			Ø					
4.06	A trip-ticket system is included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of C&D and solid wastes at public filling facilities and landfills, and to control fly tipping. Reference is made to ETWB TCW No. 31/2004.								
4.07	Training of site personnel in proper waste management and chemical waste handling procedures.			ď					



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
4.08	Is routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors conducted?					
4.09	Are sufficient waste disposal points and regular collection for disposal provided?			Ø		
4.10	Are appropriate measures to minimise windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers adopted?			Ø		
4.11	Is recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) implemented?					
4.12	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.			ď		
4.13	Encourage collection of aluminium cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separately labelled bins are provided to help segregate this waste from other general refuse generated by the work force.			Ø		
4.14	Are C&D materials reused when possible to reduce the amount of C&D material/waste?			Ø		
4.15	Are wood, steel and other metals separated for reuse and / or recycling prior to disposal of C&D waste to minimise the quantity of waste to be disposed of to landfill?			Ø		
4.16	Minimise the potential for damage or contamination of construction material by having proper storage and site practices.			Ø		
4.17	Plan and stock construction materials carefully to minimise the amount of surplus materials.			ď		
4.18	Rock and soil generated from excavation are reused for site formation and excavated material from foundation work reused for landscaping as far as practicable to avoid disposal off-site.			Ø		
4.19	Is reuse of the public fill and C&D waste practiced on site as far as practicable?					The inert excurate material Will be used for bouk - filling.
4.20	The handling of C&D materials is governed by WBTC No. 2/93. Inert C&D material (public fill) is directed to an approved public filling area or reclamation site, where it has the benefit of offsetting the need for removal of materials from borrow areas for reclamation purposes and helps to reduce the pressure on landfill sites.					
4.21	Are individuals or companies who deliver public fill to public filling areas obtained dumping licences?			ń		



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks		
	Are careful design, planning and good site management adopted to minimise							
	overordering and generation of waste materials such as concrete, mortar and							
	cement grouts? The design of formwork maximise the use of standard wooden							
4.22	or metal panels so that high reuse levels can be achieved. Alternatives such as.	ш						
	steel formwork, plastic fencing and reusable site office structures are considered							
	to increase the potential for reuse and minimize C&D waste generation.							
	The contractor uses as much as possible of the C&D material on-site. Proper							
4.23	segregation of waste types on site will increase the feasibility of certain			Ø				
	components of the waste stream by recycling contractors.							
	General refuse is stored in enclosed bins or compaction units separate							
	from C&D and chemical wastes. A reputable waste collector is							
4.24	employed by the Contractor to remove general refuse from the site, separately							
	from C&D and chemical wastes, on a daily or every second day basis to							
	minimise odour, pest and litter impacts.							
	Chemical Waste							
	Contractor registers with the EPD as chemical waste producer if any chemical							
4.25	waste is generated							
	All the chemical waste is handled according to the Code of Practice on the							
	Packaging, Labelling and Storage of Chemical Wastes. The chemical waste is							
4.26	stored and collected by an approved contractor for disposal at a licensed facility in					***************************************		
	accordance with the Waste Disposal (Chemical Waste) (General) Regulation.							
	Principles of reuse and recycle chemical waste on site as far as practicable is							
4.27	adopted by the contractor.							
	Are unused chemicals or those with remaining functional capacity reused as far as				0.71000000	No chemical nusee		
4.28	practicable?					uns generated		
	Disposal of chemical waste via a facility licensed to receive chemical waste, such					no chemia muste		
	as the Chemical Waste Treatment Facility at Tsing Yi, which offers a chemical					no chemial muste no generated.		
4.29	waste collection service and can supply the necessary storage containers or a							
	waste recycling plant approved by EPD.							
5.00	Landscape and Visual (Construction Phase)							
	Do site offices have olive green roof and façade coating or colour that matche							
5.01	with existing environment?							
						The construction		
5.02	Are site offices and the construction yard decommissioned after construction?					work has not been		
	The height of site offices, including the rooftop does not exceed 10m, except					cumpleted		
5.03	building services equipment such as antennas, which exceeds 10 m but is coated			Ø				
0.00.2	in black.							



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
5.04	Is site hoarding with 2.4m height and colour in harmony with the surrounding environment erected along the site boundary until the completion of relevant construction phases?			Ø		
5.05	Are construction plants and building materials orderly and carefully stored to appear neat and avoid visibility from outside where practical?					
5.06	Are excess materials removed from site as soon as practical?			Ó		
5.07	Are all construction plants removed from site upon completion of construction works?					The unstruction work has not been completed
5.08	Are construction lights oriented away from the viewing location of VSRs?					
5.09	Are all lightings facing sensitive receiver installed with frosted diffusers and reflective covers?		ď			
5.10	Trees that require removal are transplanted on site if practical. If not practical, these trees will be transplanted in locations within the vicinity as approved by the Architect.					
5.11	Planting works are carried out under the supervision of a specialist landscape specialist.					No planting norks
5.12	The rooftop of the cremation plant room is planted with lawn.	Ø				the crematin prant norm has notbeen completed.
5.13	New trees, shrubs and groundcover are carefully selected and designed to homogenize with the environment.	Ø				No planting mortes
5.14	No tree is transplanted or felled without prior approval by relevant Government departments.					
5.15	All trees that are marked for retention are fenced off with a 1.2m high fence around the dripline of trees or larger area as far as feasible.			Ø		
5.16	Transplant preparation works are carried out as soon as possible after the commencement of construction. Over-pruning such as hard pruning of tree crown, pollarding or topping are avoided. Rootball and crown pruning are carried out over at least 3 months.			Ø		
5.17	Existing shrub and ground cover planting areas that will not be removed are maintained in good condition and enhanced if practical.			Í		
5.18	The chimney has been designed to have sculptural outlook and articulated. It is kept in proportion with the rest of the building.					The chimney has not beenconstructed
5.19	The chimney stack is designed to locate at the least conspicuous location of the site to VSRs.					The chimney hus not been constructed.



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
5.20	Bi-weekly checking would be performed on the nine Terminalia mantaly trees within and outside the works area of the Project, or otherwise if the transplantations are not carried out according to the plan.			ď		
5.21	Are silting traps installed to minimize silting to streams?			ď		
5.22	Is the tree compensation to tree loss ratio at least 1:1 in term of quantity? About 100 trees will be planted to compensate for the loss of 54 trees. 100 trees will be planted on site and others, in locations within the vicinity approved by the Architect					Mo planting www.
5.23	Is amenity planting for open spaces included in the Project?					No planting work
5.24	Is screen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road carried out?					No planting work
5.25	Woodland mix, comprising of tree seedlings and shrubs, are planted within the Wo Hop Shek Cemetery to enhance the ecological value and compensatory of tree loss.					No Planting mule
5.26	Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians?	Ø				As planting who. The crematin plant his not been conjusted
6.00	Water Quality (Construction Phase)					hunt been corythick
6.01	Wastewater is properly treated to meet the discharge standards set out in the relevant Water Pollution Control Ordinance (WPCO) discharge licence. No direct discharge of site runoff into the two streams is allowed.					
6.02	Perimeter channels are provided to intercept storm runoff from outside the site. The channels are constructed in advance of site formation works and earthworks.					
6.03	Sand/silt removal facilities such as sand traps, silt traps and sediment basins are provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the WPCO.					
6.04	Works are carefully programmed to minimise soil excavation works during rainy seasons.					
6.05	Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion.					
6.06	Temporary access roads are protected by crushed gravel and exposed slope surfaces are protected when rainstorms are likely to occur.					
6.07	Trench excavation is avoided in the wet season as far as practicable, and if necessary, these trenches are excavated and backfilled in short sections.					
6.08	Open stockpiles of construction materials on site are covered with tarpaulin or similar fabric during rainstorms.					



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
6.09	Sand and silt in the wash water from the wheel from the wheel washing facility are settled out and removed before discharging into the storm drain.					
	Oil interceptor is provided in the drainage system and regularly emptied to					
6.10	prevent the release of oil and grease into the storm drainage system after accidental spillage.		Ц	Ш	П	
6.11	Debris and rubbishes generated on site are collected, handled and disposed of properly to avoid them entering the two streams.					
	All fuel tanks and storage areas are provided with locks and be sited on sealed					No fuel 73 Stored
6.12	areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank.		Ц	П	Ц	on stc
6.13	Open storm water drains and culverts near the works area are covered to block the entrance of large debris and refuse.					
6.14	Portable chemical toilets handle the sewage from construction work force if the existing toilets in the Site are not adequate. Licensed contractors who are responsible for appropriate disposal and maintenance of these facilities provide appropriate and adequate portable toilets.					
6.15	Sheet piling is provided at suitable location around the basement excavation to reduce the effect of lowering the water table from any dewatering process. Any discharge of groundwater pumped out from any dewatering process of the construction works is treated to comply with the standards set in the relevant discharge licence prior discharge. No discharge of the groundwater is allowed into the two streams.					No ground unter us generated
7.00	Ecology (Construction Phase)					
7.01	Any affected trees are transplanted to grassland / scrubland within the Wo Hop Shek Cemetery.		×			
7.02	Temporary accesses to the work sites are carefully planned and located to minimise disturbance caused to the streams and nearby habitats.					
7.03	Less or smaller construction plants are used to reduce disturbance to the nearby habitats.					
7.04	Vehicles and other plants are carefully maintained and properly used to minimise the chance for accidental spillage.			Ó		
7.05	Any spillages that do occur are quickly identified and appropriately cleaned up before they can contaminate streams or groundwater.					Mo spillage occurred.
7.06	Basement formation or any construction activities likely to pump out a large quantity of groundwater are protected with sheet-piling at suitable locations around the basement footprint, or by any like method.					no groundwater was
7.07	No groundwater is pumped back to the two stream courses to protect the natural integrity of the stream habitat and the associated organism.	Ø				no granduater nus generated.



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
7.08	Sturdy 1.8 metres protective fencings are located at the edge of the tree canopy		П		П	
7.00	but not around the trunk.					
	Works beneath the tree canopy are avoided: If encroachment under the canopy					
7.09	area is unavoidable, adequate protections are provided to ensure no damage of any			/		
	part of the tree would occur due to the encroachment.					
	Any tree transplanting and planting works are implemented by an approved					
7.10	Landscape Contractor. Quality control of the work is undertaken by a qualified					
	Landscape Architect through site inspections and approval of works.					
7.11	Construction works are restricted within works area which are clearly defined.					
7.12	Woodland or other habitats that are affected by the construction works are well-	П			П	
	defined and minimised.					
7.13	Human inference to habitats beyond the site boundary and habitats proposed to be		П	\Box	П	
	retained are avoided by providing temporary barricades.					
7.14	Works area is reinstated immediately after completion of the construction.					The construction has not been completed
7.15	Uncontrolled burning of refuse is strictly prohibited. Appropriate fire control					
	measures are provided in order to protect nearby habitats.		Ш		Ш	
7.16	Trees requiring transplantation or protection are identified based on the					
7.10	information illustrated in the Tree Survey Report.		ш			
7.17	Is layout of the Project carefully designed to avoid or minimize the area of habitat					
7.17	loss and the numbers of trees to be felled?				ш	
	All trees are preserved as far as possible, especially species of conservation					
7.18	concern. Recommendations provided in the Tree Survey Report to mitigate					
	impacts on trees shall be followed.					
	Disturbance to the two plant species of conservation concern, namely Aquilaria					
	sinensis and Cibotium barometz, is avoided. Where removal of these species is					
7.19	unavoidable, it is recommended to transplant them to habitats with similar			\angle		
	conditions. Following transplantation, regular monitoring of these plants is					
	conducted by a suitable qualified botanist / horticulturist over a 12-month period;					
7.20	Compensatory planting of the felled trees follows the Technical					Down to the second
7.20	Circular No. 3/2006 issued by ETWB.		Ш	Ш	Ш	Mo planting wk.
	The Site inside or in the proximity of the streams and nearby habitats is			ď		
7.21	temporarily isolated, by placing of sandbags or silt curtains with lead edge at the					
	bottom and properly supported props, to prevent adverse impacts on these areas.					



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Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
7.22	Appropriate storage locations are situated well away from the streams and nearby habitats for the temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction debris and spoil are identified before commencement of the works.					
7.23	Stockpiling of construction materials, are covered and located away from the streams and nearby habitats.					
7.24	Construction debris and spoil are covered up and/or properly disposed of as soon as possible to avoid being washed into the streams and nearby habitats by rain.					
7.25	Construction effluent, site runoff and sewage is properly collected and/or treated.					Weffhent way generated.
7.26	Proper locations for discharge outlets of any wastewater treatment facilities well away from the streams and nearby habitats are identified.					
7.27	Vehicles and other plant are carefully maintained and properly used to minimise the chance for accidental spillage.					
7.28	Temporary geo-textile silt fences around earth moving works are erected to trap any sediments being washed away and prevent them from entering surrounding areas.					
7.29	Exposed soil or other loose materials are covered with tarpaulins to prevent erosion, and then seeded and covered with a biodegradable geotextile blanket for erosion control purposes.					

*Remarks: N/A = Not applicable at current stage

N/O = Not observed in the site walk

Yes = Compliance

No = Non-compliance



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Remark / Follow up of Observation(s	Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection:									
Reminder										
1) His Hater the recycling	Plastic bottles on bin.	site are reminded-	to be put into							
Signatures:										
ET	Contractor's	Architect's	IEC's							
Representative	Representative	Representative	Representative							
MH.	4	my the								
(Name: Swy Muk)	(Name: M. Y. WON G)	(Name: L, WON ())	(Name:)							



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WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST										
Inspe	ction Date: 1/6/2020	Inspected b	y:	ET:	Tue	40	A	AR: L. Wan		
Inspe	ction Time: 10,10		Contra	actor:	MY	Word		EC: NA		
Weat	her									
Cond	ition Sunny Fine	□ Overcast	☐ Drizzle		☐ Rai	n	☐ Stor	rm 🗆 Hazy		
Temp	erature 3 C		Humidity		☐ Hig	;h	Mo	derate □ Low		
Wind	☐ Calm	☐ Breeze	☐ Strong							
	Environmental Mitigation Measures			N/A*	N/O*	Yes*	No*	Photo/Remarks		
1.00	Air (Construction Phase)			1						
	Vehicle washing facilities (including a high p	ressure water jet) wer	e provided at							
1.01	every discernible or designated vehicle exit poi	int.								
1.02	Road between the washing facilities and the	exit point is paved v	vith concrete,							
1.02	bituminous or hardcore material.									
	Every main haul road is paved with concrete	, bituminous hardcore	materials or			-				
1.03	metal plates, and kept clear of dusty materials.	Or unpaved haul roads	and areas are							
	sprayed with water to keep the entire road surfa	ace wet.								
	Stockpile of dusty material including demolished	ed items is either:				***************************************				
	a) covered entirely by impervious sheeting, or									
1.04	b) placed in an area sheltered on the top and the	e three sides, or								
	c) sprayed with water or a dust suppression ch	nemical so as to maint	ain the entire					-		
	surface wet.									
	Exposed earth is properly treated by compaction	ı, hydroseeding, vegeta	ation planting							
1.05	or seating with latex, vinyl, bitumen within six	months after the last	construction							
	activity on the site or part of the site where the	exposed earth lies.								
1.06	Water is sprayed to all dusty materials before lo	ading or transfer opera	ation.							
	Any debris is covered entirely by impervious	us sheeting or stored	in a debris	_						
1.07	collection area sheltered on the top and the three	e sides.								
1.00	Watering									
1.08	Water is sprayed to debris before it is dumped in	nto a chute.		Ш						
1.09	Vehicles for transporting dusty materials/spo-	ils are covered with	tarpaulin or							
1.07	similar material. The cover extends over the edge	ges of the sides and tai	lboards.							
	Water is sprayed immediately to the working are	ea for uprooting of tree	es, shrubs, or							
1.10	vegetation or the removal of boulders, pole, p	illars before, during a	and after the		P					
	operation.				1			_		
1.11	Workers at all levels are co-operative to avoid du	ust generation and disp	persion to the							
1.11	surrounding environment.				Ш					
2.00	Noise (Construction Phase)									



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks				
2.01	Only well-maintained plant is operated on site and the plant should be regularly									
2.01	serviced during the construction works			<u>~</u>						
2.02	Plant used intermittently is turned off or throttled down when not in active use.			Ø						
2.03	Plant that emits noise strongly in one direction is oriented to face away from NSRs.									
2.04	Silencers, mufflers and enclosures for plant are applied where possible and maintained adequately throughout the works			Ø						
2.05	Where possible, mobile plant is sited away from NSRs									
2.06	PME is well maintained and used properly on site to minimise any excessive noise generated.			Ø						
2.07	Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.									
3.00	Land Contamination (Construction Phase)									
	N/A to the Phase III development									
4.00	Waste Management (Construction Phase)									
4.01	The necessary waste disposal permits from the appropriate authorities are obtained, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28).			7						
4.02	A billing account with EPD for disposal of construction waste is obtained.			Ø						
4.03	A Waste Management Plan (WMP), incorporated in an Environmental Management Plan (EMP) is prepared and submitted to the Engineer/Supervising Officer for approval. Reference is made to Environment, Transport and Works Bureau Technical Circular (Works) (ETWB TCW) 19/2005.			otag						
4.04	An approved person to be responsible for good site practice is nominated, including arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.			ď						
4.05	Is authorised or licensed waste hauler used to collect specific category of waste?			Ø						
4.06	A trip-ticket system is included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of C&D and solid wastes at public filling facilities and landfills, and to control fly tipping. Reference is made to ETWB TCW No. 31/2004.									
4.07	Training of site personnel in proper waste management and chemical waste handling procedures.			Ø						



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
4.08	Is routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors conducted?					
4.09	Are sufficient waste disposal points and regular collection for disposal provided?			Ø		
4.10	Are appropriate measures to minimise windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers adopted?			Ø		
4.11	Is recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) implemented?			Ø		
4.12	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.					
4.13	Encourage collection of aluminium cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separately labelled bins are provided to help segregate this waste from other general refuse generated by the work force.			Þ		
4.14	Are C&D materials reused when possible to reduce the amount of C&D material/waste?			Ø		
4.15	Are wood, steel and other metals separated for reuse and / or recycling prior to disposal of C&D waste to minimise the quantity of waste to be disposed of to landfill?					
4.16	Minimise the potential for damage or contamination of construction material by having proper storage and site practices.			Ø		
4.17	Plan and stock construction materials carefully to minimise the amount of surplus materials.			Ø		
4.18	Rock and soil generated from excavation are reused for site formation and excavated material from foundation work reused for landscaping as far as practicable to avoid disposal off-site.					
4.19	Is reuse of the public fill and C&D waste practiced on site as far as practicable?					
4.20	The handling of C&D materials is governed by WBTC No. 2/93. Inert C&D material (public fill) is directed to an approved public filling area or reclamation site, where it has the benefit of offsetting the need for removal of materials from borrow areas for reclamation purposes and helps to reduce the pressure on landfill sites.			ď		
4.21	Are individuals or companies who deliver public fill to public filling areas obtained dumping licences?			d		



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
4.22	Are careful design, planning and good site management adopted to minimise overordering and generation of waste materials such as concrete, mortar and cement grouts? The design of formwork maximise the use of standard wooden or metal panels so that high reuse levels can be achieved. Alternatives such as steel formwork, plastic fencing and reusable site office structures are considered to increase the potential for reuse and minimize C&D waste generation.			Ø		
4.23	The contractor uses as much as possible of the C&D material on-site. Proper segregation of waste types on site will increase the feasibility of certain components of the waste stream by recycling contractors.			Ø		
4.24	General refuse is stored in enclosed bins or compaction units separate from C&D and chemical wastes. A reputable waste collector is employed by the Contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily or every second day basis to minimise odour, pest and litter impacts.			ď		
	Chemical Waste					
4.25	Contractor registers with the EPD as chemical waste producer if any chemical waste is generated					
4.26	All the chemical waste is handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. The chemical waste is stored and collected by an approved contractor for disposal at a licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Ø		(M)		No waste was of No clentral muster was generated
4.27	Principles of reuse and recycle chemical waste on site as far as practicable is adopted by the contractor.	Ø				No chemical wester
4.28	Are unused chemicals or those with remaining functional capacity reused as far as practicable?	Ø				100 Chemical waster vas generated
4.29	Disposal of chemical waste via a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility at Tsing Yi, which offers a chemical waste collection service and can supply the necessary storage containers or a waste recycling plant approved by EPD.	ď				No chemical waste was generated
5.00	Landscape and Visual (Construction Phase)					
5.01	Do site offices have olive green roof and façade coating or colour that matche with existing environment?			Ø		
5.02	Are site offices and the construction yard decommissioned after construction?					The construction work has not be complete
5.03	The height of site offices, including the rooftop does not exceed 10m, except building services equipment such as antennas, which exceeds 10 m but is coated in black.			Ø		



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
5.04	Is site hoarding with 2.4m height and colour in harmony with the surrounding environment erected along the site boundary until the completion of relevant construction phases?					
5.05	Are construction plants and building materials orderly and carefully stored to appear neat and avoid visibility from outside where practical?			Ø		
5.06	Are excess materials removed from site as soon as practical?			\angle		
5.07	Are all construction plants removed from site upon completion of construction works?	Ø				The construction work
5.08	Are construction lights oriented away from the viewing location of VSRs?		Ø			
5.09	Are all lightings facing sensitive receiver installed with frosted diffusers and reflective covers?		Ø			
5.10	Trees that require removal are transplanted on site if practical. If not practical, these trees will be transplanted in locations within the vicinity as approved by the Architect.			Ø		
5.11	Planting works are carried out under the supervision of a specialist landscape specialist.			Z		
5.12	The rooftop of the cremation plant room is planted with lawn.	Ø				The premotion plat run has not been
5.13	New trees, shrubs and groundcover are carefully selected and designed to homogenize with the environment.					No planting nork
5.14	No tree is transplanted or felled without prior approval by relevant Government departments.			Ø		
5.15	All trees that are marked for retention are fenced off with a 1.2m high fence around the dripline of trees or larger area as far as feasible.			Ø		
5.16	Transplant preparation works are carried out as soon as possible after the commencement of construction. Over-pruning such as hard pruning of tree crown, pollarding or topping are avoided. Rootball and crown pruning are carried out over at least 3 months.			ď		
5.17	Existing shrub and ground cover planting areas that will not be removed are maintained in good condition and enhanced if practical.			d		
5.18	The chimney has been designed to have sculptural outlook and articulated. It is kept in proportion with the rest of the building.	ď				the chimney hay hat been construction
5.19	The chimney stack is designed to locate at the least conspicuous location of the site to VSRs.	Ø				the chimney has not been constructed



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
5.20	Bi-weekly checking would be performed on the nine Terminalia mantaly trees within and outside the works area of the Project, or otherwise if the transplantations are not carried out according to the plan.			Ø		
5.21	Are silting traps installed to minimize silting to streams?			Ø		
5.22	Is the tree compensation to tree loss ratio at least 1:1 in term of quantity? About 100 trees will be planted to compensate for the loss of 54 trees. 100 trees will be planted on site and others, in locations within the vicinity approved by the Architect	Ø				No planting work
5.23	Is amenity planting for open spaces included in the Project?	Ø				No planting work
5.24	Is screen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road carried out?	Ø				No planting work
5.25	Woodland mix, comprising of tree seedlings and shrubs, are planted within the Wo Hop Shek Cemetery to enhance the ecological value and compensatory of tree loss.	Ø				No planting work
5.26	Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians?	Ø				The crenation Han
6.00	Water Quality (Construction Phase)					
	Wastewater is properly treated to meet the discharge standards set out in the					
6.01	relevant Water Pollution Control Ordinance (WPCO) discharge licence. No direct discharge of site runoff into the two streams is allowed.					
6.02						
	discharge of site runoff into the two streams is allowed. Perimeter channels are provided to intercept storm runoff from outside the site.					
6.02	discharge of site runoff into the two streams is allowed. Perimeter channels are provided to intercept storm runoff from outside the site. The channels are constructed in advance of site formation works and earthworks. Sand/silt removal facilities such as sand traps, silt traps and sediment basins are provided to remove sand/silt particles from runoff to meet the requirements of the					
6.02	discharge of site runoff into the two streams is allowed. Perimeter channels are provided to intercept storm runoff from outside the site. The channels are constructed in advance of site formation works and earthworks. Sand/silt removal facilities such as sand traps, silt traps and sediment basins are provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the WPCO. Works are carefully programmed to minimise soil excavation works during					
6.02	discharge of site runoff into the two streams is allowed. Perimeter channels are provided to intercept storm runoff from outside the site. The channels are constructed in advance of site formation works and earthworks. Sand/silt removal facilities such as sand traps, silt traps and sediment basins are provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the WPCO. Works are carefully programmed to minimise soil excavation works during rainy seasons. Exposed soil surfaces are protected by paving as soon as possible to reduce the					
6.02 6.03 6.04 6.05	discharge of site runoff into the two streams is allowed. Perimeter channels are provided to intercept storm runoff from outside the site. The channels are constructed in advance of site formation works and earthworks. Sand/silt removal facilities such as sand traps, silt traps and sediment basins are provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the WPCO. Works are carefully programmed to minimise soil excavation works during rainy seasons. Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion. Temporary access roads are protected by crushed gravel and exposed slope					



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
6.09	Sand and silt in the wash water from the wheel from the wheel washing facility are settled out and removed before discharging into the storm drain.					
	Oil interceptor is provided in the drainage system and regularly emptied to					
6.10	prevent the release of oil and grease into the storm drainage system after			-		
0.10	accidental spillage.					
6.11	Debris and rubbishes generated on site are collected, handled and disposed of					
	properly to avoid them entering the two streams.					
	All fuel tanks and storage areas are provided with locks and be sited on sealed	4				M. C. I
6.12	areas, within bunds of a capacity equal to 110% of the storage capacity of the					the my
	largest tank.					stored onsite
6.13	Open storm water drains and culverts near the works area are covered to block the					
	entrance of large debris and refuse.			بر		
	Portable chemical toilets handle the sewage from construction work force if the					
6.14	existing toilets in the Site are not adequate. Licensed contractors who are			Ø		
	responsible for appropriate disposal and maintenance of these facilities provide	Ш				
	appropriate and adequate portable toilets.					
	Sheet piling is provided at suitable location around the basement excavation to					
	reduce the effect of lowering the water table from any dewatering process. Any					
6.15	discharge of groundwater pumped out from any dewatering process of the					0 1 4
0.15	construction works is treated to comply with the standards set in the relevant					No grown with
	discharge licence prior discharge. No discharge of the groundwater is allowed into					was generated
	the two streams.					
7.00	Ecology (Construction Phase)					
	Any affected trees are transplanted to grassland / scrubland within the Wo Hop					
7.01	Shek Cemetery.					
	Temporary accesses to the work sites are carefully planned and located to		10000000			
7.02	minimise disturbance caused to the streams and nearby habitats.					
	Less or smaller construction plants are used to reduce disturbance to the nearby					
7.03	habitats.					
	Vehicles and other plants are carefully maintained and properly used to minimise					
7.04	the chance for accidental spillage.					
	Any spillages that do occur are quickly identified and appropriately cleaned up					a. Occurce
7.05	before they can contaminate streams or groundwater.	Ø				No Spillage Car
	Basement formation or any construction activities likely to pump out a large					A second
7.06	quantity of groundwater are protected with sheet-piling at suitable locations					Va acound a few
7.06	around the basement footprint, or by any like method.		Ш	2		10 grown we fer
				1		was generated,
7.07	No groundwater is pumped back to the two stream courses to protect the natural					No grund inter
	integrity of the stream habitat and the associated organism.	W				was generated.



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		Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
	7.08	Sturdy 1.8 metres protective fencings are located at the edge of the tree canopy					
		but not around the trunk.					
		Works beneath the tree canopy are avoided: If encroachment under the canopy					
	7.09	area is unavoidable, adequate protections are provided to ensure no damage of any					
		part of the tree would occur due to the encroachment.					
		Any tree transplanting and planting works are implemented by an approved					
	7.10	Landscape Contractor. Quality control of the work is undertaken by a qualified					
		Landscape Architect through site inspections and approval of works.					
	7.11	Construction works are restricted within works area which are clearly defined.			Ø		
7.12	Woodland or other habitats that are affected by the construction works are well-	П	П	M	П		
	defined and minimised.			<i>-</i>			
	7.13	Human inference to habitats beyond the site boundary and habitats proposed to be		П	\square		
7.13	retained are avoided by providing temporary barricades.						
	7.14	Works area is reinstated immediately after completion of the construction.	d				the contention has not been completed
	Uncontrolled burning of refuse is strictly prohibited. Appropriate fire control			\Box			
	7.15	measures are provided in order to protect nearby habitats.			4		
ľ		Trees requiring transplantation or protection are identified based on the					
	7.16	information illustrated in the Tree Survey Report.			K		
		Is layout of the Project carefully designed to avoid or minimize the area of habitat			M		
-	7.17	loss and the numbers of trees to be felled?	ш				
-		All trees are preserved as far as possible, especially species of conservation					
	7.18	concern. Recommendations provided in the Tree Survey Report to mitigate					***************************************
		impacts on trees shall be followed.					
-		Disturbance to the two plant species of conservation concern, namely Aquilaria					
-		sinensis and Cibotium barometz, is avoided. Where removal of these species is					
	7.19	unavoidable, it is recommended to transplant them to habitats with similar					
		conditions. Following transplantation, regular monitoring of these plants is					
		conducted by a suitable qualified botanist / horticulturist over a 12-month period;					
		Compensatory planting of the felled trees follows the Technical					Mo alonting work
-	7.20	Circular No. 3/2006 issued by ETWB.			Ш		10 from Ours) Artic
-		The Site inside or in the proximity of the streams and nearby habitats is					
7.21	temporarily isolated, by placing of sandbags or silt curtains with lead edge at the			Ø			
	7.21	bottom and properly supported props, to prevent adverse impacts on these areas.					
- 1							



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Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
7.22	Appropriate storage locations are situated well away from the streams and nearby habitats for the temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction debris and spoil are identified before commencement of the works.			Ø		
7.23	Stockpiling of construction materials, are covered and located away from the streams and nearby habitats.					
7.24	Construction debris and spoil are covered up and/or properly disposed of as soon as possible to avoid being washed into the streams and nearby habitats by rain.			Ø		
7.25	Construction effluent, site runoff and sewage is properly collected and/or treated.			Ø		
7.26	Proper locations for discharge outlets of any wastewater treatment facilities well away from the streams and nearby habitats are identified.			d		
7.27	Vehicles and other plant are carefully maintained and properly used to minimise the chance for accidental spillage.			Ø		
7.28	Temporary geo-textile silt fences around earth moving works are erected to trap any sediments being washed away and prevent them from entering surrounding areas.			Ø		
7.29	Exposed soil or other loose materials are covered with tarpaulins to prevent erosion, and then seeded and covered with a biodegradable geotextile blanket for erosion control purposes.			Ø		

*Remarks: N/A = Not applicable at current stage

N/O = Not observed in the site walk

Yes = Compliance

No = Non-compliance



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection:								
Observation(s);			ha a iz -					
	- 10 - 11 kg	THOUGH DE	Maint	gined.				
Dur								
Signatures:	Contractor's	Architect's	IEC	"s				
ET Representative	Representative	Representative		presentative				
J.	(1)	(will						
(Name: Jue Ho)	(Name: M.T. WONG.)	(Name: L. WONG)) (Na	ame:)			



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		0 - 11 15	WEEKLY ENV	VIRONMENTA	AL INSPE	CTIO			T	
Inspec	ction Dat	-	20	Inspected by	:	ET:	Jue F	*		AR: N.S. Yeung
Inspec	ction Tin	ne: 10,30			Contra	ictor:	MY	Wond	I	AR: N.S. Yeung EC: Cherlotte Zhan
Weath	ier									
Condi	tion	✓ Sunny	☐ Fine	□ Overcast	□ Drizzle		□ Rai	n	□ Sto	rm 🗆 Hazy
Temp	erature	31 ℃			Humidity		☐ Hig	h	Mo	derate
Wind		□ Calm	Light	□ Breeze	☐ Strong					
	Enviro	onmental Mitigation	Measures			N/A*	N/O*	Yes*	No*	Photo/Remarks
1.00	Air (C	onstruction Phase)					_			
	Vehicle	e washing facilities ((including a high pres	ssure water jet) were	provided at	4	7_			
1.01	every d	discernible or designation	ated vehicle exit point			a				
1.02	Road b	between the washing	g facilities and the ex	kit point is paved w	ith concrete,					
1.02	bitumir	nous or hardcore mat	erial.							-
	Every 1	main haul road is pa	aved with concrete, b	oituminous hardcore	materials or					
1.03	metal p	plates, and kept clear	of dusty materials. Or	unpaved haul roads a	and areas are					
	sprayed	d with water to keep	the entire road surface	e wet.						
	Stockpi	ile of dusty material	including demolished	items is either:						
	a) cov	ered entirely by impe	ervious sheeting, or					0		
1.04	b) plac	ced in an area shelter	ed on the top and the	three sides, or				WAY.	N	observation O
	c) spra	ayed with water or a	dust suppression cher	mical so as to mainta	in the entire			_		
ø	surf	face wet.								
	Expose	d earth is properly tre	eated by compaction, h	nydroseeding, vegetat	tion planting					
1.05	or seati	ng with latex, vinyl,	bitumen within six n	nonths after the last	construction					The Construction work
	activity	on the site or part of	f the site where the ex	posed earth lies.				_		The construction work has not been comple
										105 HOL TOOK CIMPLE
1.06	Water is	s sprayed to all dusty	materials before load	ling or transfer opera	tion.					
	Any de	ebris is covered ent	tirely by impervious	sheeting or stored	in a debris					No debris was
1.07	collection	on area sheltered on	the top and the three s	sides.						stored on the
						_				No debris way
1.08	Water is	s sprayed to debris be	efore it is dumped into	a chute.						stred onesite
	Vehicles	s for transporting d	lusty materials/spoils	are covered with	tarpaulin or					
1.09	similar	material. The cover e	extends over the edges	s of the sides and tail	boards.					
	Water is	s sprayed immediatel	ly to the working area	for uprooting of tree	s, shrubs, or					
1.10	vegetati	ion or the removal o	of boulders, pole, pill	ars before, during a	nd after the			\mathcal{D}	П	
	operatio	on.							_	
	Workers	s at all levels are co-o	operative to avoid dust	t generation and dispe	ersion to the					
1.11	surround	ding environment.								
2.00	Noise (Construction Phase)							



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks				
2.01	Only well-maintained plant is operated on site and the plant should be regularly									
2.01	serviced during the construction works			4						
2.02	Plant used intermittently is turned off or throttled down when not in active use.									
2.03	Plant that emits noise strongly in one direction is oriented to face away from NSRs.									
2.04	Silencers, mufflers and enclosures for plant are applied where possible and maintained adequately throughout the works			Z						
2.05	Where possible, mobile plant is sited away from NSRs			Ø						
2.06	PME is well maintained and used properly on site to minimise any excessive noise generated.			Ø						
2.07	Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.			Ø						
3.00	Land Contamination (Construction Phase)									
	N/A to the Phase III development									
4.00	Waste Management (Construction Phase)									
4.01	The necessary waste disposal permits from the appropriate authorities are obtained, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28).									
4.02	A billing account with EPD for disposal of construction waste is obtained.									
4.03	A Waste Management Plan (WMP), incorporated in an Environmental Management Plan (EMP) is prepared and submitted to the Engineer/Supervising Officer for approval. Reference is made to Environment, Transport and Works Bureau Technical Circular (Works) (ETWB TCW) 19/2005.			\Box						
4.04	An approved person to be responsible for good site practice is nominated, including arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.			Ø						
4.05	Is authorised or licensed waste hauler used to collect specific category of waste?			Ø						
4.06	A trip-ticket system is included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of C&D and solid wastes at public filling facilities and landfills, and to control fly tipping. Reference is made to ETWB TCW No. 31/2004.			Ø						
4.07	Training of site personnel in proper waste management and chemical waste handling procedures.			Ø						



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
4.08	Is routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors conducted?					
4.09	Are sufficient waste disposal points and regular collection for disposal provided?					
	Are appropriate measures to minimise windblown litter and dust during					
4.10	transportation of waste, such as covering trucks or transporting wastes in enclosed containers adopted?					
4.11	Is recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) implemented?					
4.12	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.			Ø		
4.13	Encourage collection of aluminium cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separately labelled bins are provided to help segregate this waste from other general refuse generated by the work force.					
4.14	Are C&D materials reused when possible to reduce the amount of C&D material/waste?					
4.15	Are wood, steel and other metals separated for reuse and / or recycling prior to disposal of C&D waste to minimise the quantity of waste to be disposed of to landfill?			Ø		
4.16	Minimise the potential for damage or contamination of construction material by having proper storage and site practices.					
4.17	Plan and stock construction materials carefully to minimise the amount of surplus materials.			Z		
4.18	Rock and soil generated from excavation are reused for site formation and excavated material from foundation work reused for landscaping as far as practicable to avoid disposal off-site.					
4.19	Is reuse of the public fill and C&D waste practiced on site as far as practicable?			Ø		
4.20	The handling of C&D materials is governed by WBTC No. 2/93. Inert C&D material (public fill) is directed to an approved public filling area or reclamation site, where it has the benefit of offsetting the need for removal of materials from borrow areas for reclamation purposes and helps to reduce the pressure on landfill sites.					
4.21	Are individuals or companies who deliver public fill to public filling areas obtained dumping licences?					-



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
4.22	Are careful design, planning and good site management adopted to minimise overordering and generation of waste materials such as concrete, mortar and cement grouts? The design of formwork maximise the use of standard wooden or metal panels so that high reuse levels can be achieved. Alternatives such as steel formwork, plastic fencing and reusable site office structures are considered to increase the potential for reuse and minimize C&D waste generation.			Ø		
4.23	The contractor uses as much as possible of the C&D material on-site. Proper segregation of waste types on site will increase the feasibility of certain components of the waste stream by recycling contractors.			Ø		
4.24	General refuse is stored in enclosed bins or compaction units separate from C&D and chemical wastes. A reputable waste collector is employed by the Contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily or every second day basis to minimise odour, pest and litter impacts.			⊿		
	Chemical Waste					
4.25	Contractor registers with the EPD as chemical waste producer if any chemical waste is generated			Q		
4.26	All the chemical waste is handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. The chemical waste is stored and collected by an approved contractor for disposal at a licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.			Ø		
4.27	Principles of reuse and recycle chemical waste on site as far as practicable is adopted by the contractor.					No chemial vate
4.28	Are unused chemicals or those with remaining functional capacity reused as far as practicable?					No clenial mute was generated
4.29	Disposal of chemical waste via a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility at Tsing Yi, which offers a chemical waste collection service and can supply the necessary storage containers or a waste recycling plant approved by EPD.	Ø				No chanted mister
5.00	Landscape and Visual (Construction Phase)					
5.01	Do site offices have olive green roof and façade coating or colour that matche with existing environment?			Ø		
5.02	Are site offices and the construction yard decommissioned after construction?	Ø				work has not been completed
5.03	The height of site offices, including the rooftop does not exceed 10m, except building services equipment such as antennas, which exceeds 10 m but is coated in black.					
		-				



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
5.04	Is site hoarding with 2.4m height and colour in harmony with the surrounding environment erected along the site boundary until the completion of relevant construction phases?			Ø		
5.05	Are construction plants and building materials orderly and carefully stored to appear neat and avoid visibility from outside where practical?					
5.06	Are excess materials removed from site as soon as practical?			Q'		
5.07	Are all construction plants removed from site upon completion of construction works?	Ø				The contention rule has not been
5.08	Are construction lights oriented away from the viewing location of VSRs?		Ø			
5.09	Are all lightings facing sensitive receiver installed with frosted diffusers and reflective covers?		Ø			
5.10	Trees that require removal are transplanted on site if practical. If not practical, these trees will be transplanted in locations within the vicinity as approved by the Architect.			ď		
5.11	Planting works are carried out under the supervision of a specialist landscape specialist.	ď				No planting work
5.12	The rooftop of the cremation plant room is planted with lawn.	Ø				The eneration plat not been constructed
5.13	New trees, shrubs and groundcover are carefully selected and designed to homogenize with the environment.			Ø		
5.14	No tree is transplanted or felled without prior approval by relevant Government departments.			Ø		
5.15	All trees that are marked for retention are fenced off with a 1.2m high fence around the dripline of trees or larger area as far as feasible.					
5.16	Transplant preparation works are carried out as soon as possible after the commencement of construction. Over-pruning such as hard pruning of tree crown, pollarding or topping are avoided. Rootball and crown pruning are carried out over at least 3 months.					
5.17	Existing shrub and ground cover planting areas that will not be removed are maintained in good condition and enhanced if practical.			Ø		
5.18	The chimney has been designed to have sculptural outlook and articulated. It is kept in proportion with the rest of the building.					The chimney has
5.19	The chimney stack is designed to locate at the least conspicuous location of the site to VSRs.					The chinary has not help contented



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
5.20	Bi-weekly checking would be performed on the nine Terminalia mantaly trees within and outside the works area of the Project, or otherwise if the transplantations are not carried out according to the plan.			Ø		
5.21	Are silting traps installed to minimize silting to streams?					
5.22	Is the tree compensation to tree loss ratio at least 1:1 in term of quantity? About 100 trees will be planted to compensate for the loss of 54 trees. 100 trees will be planted on site and others, in locations within the vicinity approved by the Architect	Ø				No plan truy verk
5.23	Is amenity planting for open spaces included in the Project?	Ø				No plantily work
5.24	Is screen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road carried out?	卢				Mylantin work
5.25	Woodland mix, comprising of tree seedlings and shrubs, are planted within the Wo Hop Shek Cemetery to enhance the ecological value and compensatory of tree loss.	Ø				No planting work
5.26	Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians?	Ø				the creantin plut room has not been constructed
6.00	Water Quality (Construction Phase)					
6.01	Wastewater is properly treated to meet the discharge standards set out in the relevant Water Pollution Control Ordinance (WPCO) discharge licence. No direct discharge of site runoff into the two streams is allowed.					
6.02	Perimeter channels are provided to intercept storm runoff from outside the site. The channels are constructed in advance of site formation works and earthworks.			ď		
6.03	Sand/silt removal facilities such as sand traps, silt traps and sediment basins are provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the WPCO.			Ø		
6.04	Works are carefully programmed to minimise soil excavation works during rainy seasons.					
6.05	Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion.					Observation O
6.06	Temporary access roads are protected by crushed gravel and exposed slope surfaces are protected when rainstorms are likely to occur.			Ø		
6.07	Trench excavation is avoided in the wet season as far as practicable, and if necessary, these trenches are excavated and backfilled in short sections.			Ø		
6.08	Open stockpiles of construction materials on site are covered with tarpaulin or					



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
6.09	Sand and silt in the wash water from the wheel from the wheel washing facility					
0.09	are settled out and removed before discharging into the storm drain.				Ш	
	Oil interceptor is provided in the drainage system and regularly emptied to					
6.10	prevent the release of oil and grease into the storm drainage system after					
	accidental spillage.					
6.11	Debris and rubbishes generated on site are collected, handled and disposed of					
6.11	properly to avoid them entering the two streams.					
	All fuel tanks and storage areas are provided with locks and be sited on sealed					
6.12	areas, within bunds of a capacity equal to 110% of the storage capacity of the					No fivel was street
	largest tank.					on-site
(12	Open storm water drains and culverts near the works area are covered to block the			_		
6.13	entrance of large debris and refuse.					
	Portable chemical toilets handle the sewage from construction work force if the					
6.14	existing toilets in the Site are not adequate. Licensed contractors who are			_/	_	
	responsible for appropriate disposal and maintenance of these facilities provide	Ш				
	appropriate and adequate portable toilets.					
	Sheet piling is provided at suitable location around the basement excavation to					
	reduce the effect of lowering the water table from any dewatering process. Any					
	discharge of groundwater pumped out from any dewatering process of the		_			M. d. A. I.
6.15	construction works is treated to comply with the standards set in the relevant	Ц				No grandnater was generated
	discharge licence prior discharge. No discharge of the groundwater is allowed into					was generated
	the two streams.					
7.00	Ecology (Construction Phase)					
7.01	Any affected trees are transplanted to grassland / scrubland within the Wo Hop			_/	_	
7.01	Shek Cemetery.			\square	Ш	
7.03	Temporary accesses to the work sites are carefully planned and located to					
7.02	minimise disturbance caused to the streams and nearby habitats.			\square	Ш	
7.03	Less or smaller construction plants are used to reduce disturbance to the nearby					
7.03	habitats.	Ш	Ш	K		
7.04	Vehicles and other plants are carefully maintained and properly used to minimise			M		
7.04	the chance for accidental spillage.	Ш			Ш	
7.05	Any spillages that do occur are quickly identified and appropriately cleaned up					Nospillage Occured
7.05	before they can contaminate streams or groundwater.		Ц		Ш	10 - Sp 111 rays Occurred
	Basement formation or any construction activities likely to pump out a large	,				
7.06	quantity of groundwater are protected with sheet-piling at suitable locations					No grandinter
	around the basement footprint, or by any like method.					was generated
7.07	No groundwater is pumped back to the two stream courses to protect the natural					
7.07	integrity of the stream habitat and the associated organism.	Ц		\Box		



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	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
7.08	Sturdy 1.8 metres protective fencings are located at the edge of the tree canopy					
	but not around the trunk.				-	
7.09	Works beneath the tree canopy are avoided: If encroachment under the canopy					
	area is unavoidable, adequate protections are provided to ensure no damage of any					
	part of the tree would occur due to the encroachment.					
	Any tree transplanting and planting works are implemented by an approved					
7.10	Landscape Contractor. Quality control of the work is undertaken by a qualified			Z		
	Landscape Architect through site inspections and approval of works.					
7.11	Construction works are restricted within works area which are clearly defined.			Ø		
	Woodland or other habitats that are affected by the construction works are well-					
7.12	defined and minimised.				ш	
	Human inference to habitats beyond the site boundary and habitats proposed to be					
7.13	retained are avoided by providing temporary barricades.	Ш			Ш	
7.14	Works area is reinstated immediately after completion of the construction.					
	Uncontrolled burning of refuse is strictly prohibited. Appropriate fire control					
7.15	measures are provided in order to protect nearby habitats.			Į,	Ш	
	Trees requiring transplantation or protection are identified based on the					
7.16	information illustrated in the Tree Survey Report.			\Box		
	Is layout of the Project carefully designed to avoid or minimize the area of habitat					
7.17						
	loss and the numbers of trees to be felled?					
	All trees are preserved as far as possible, especially species of conservation					
7.18	concern. Recommendations provided in the Tree Survey Report to mitigate					
	impacts on trees shall be followed.	1				
	Disturbance to the two plant species of conservation concern, namely Aquilaria					
	sinensis and Cibotium barometz, is avoided. Where removal of these species is	_	-			
7.19	unavoidable, it is recommended to transplant them to habitats with similar					
	conditions. Following transplantation, regular monitoring of these plants is					
	conducted by a suitable qualified botanist / horticulturist over a 12-month period;					
7.20	Compensatory planting of the felled trees follows the Technical					No plating was
7.20	Circular No. 3/2006 issued by ETWB.	4				1 V Provides
	The Site inside or in the proximity of the streams and nearby habitats is					
7.21	temporarily isolated, by placing of sandbags or silt curtains with lead edge at the			Ø		
	bottom and properly supported props, to prevent adverse impacts on these areas.					
Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow						



Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

	Environmental Mitigation Measures	N/A*	N/O*	Yes*	No*	Photo/Remarks
7.22	Appropriate storage locations are situated well away from the streams and nearby habitats for the temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction debris and spoil are identified before commencement of the works.					
7.23	Stockpiling of construction materials, are covered and located away from the streams and nearby habitats.					
7.24	Construction debris and spoil are covered up and/or properly disposed of as soon as possible to avoid being washed into the streams and nearby habitats by rain.					
7.25	Construction effluent, site runoff and sewage is properly collected and/or treated.					
7.26	Proper locations for discharge outlets of any wastewater treatment facilities well away from the streams and nearby habitats are identified.					
7.27	Vehicles and other plant are carefully maintained and properly used to minimise the chance for accidental spillage.					
7.28	Temporary geo-textile silt fences around earth moving works are erected to trap any sediments being washed away and prevent them from entering surrounding areas.			Ø		
7.29	Exposed soil or other loose materials are covered with tarpaulins to prevent erosion, and then seeded and covered with a biodegradable geotextile blanket for erosion control purposes.				Ø	Observation P

*Remarks:

N/A = Not applicable at current stage

N/O = Not observed in the site walk

Yes = Compliance

No = Non-compliance



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection:						
240 bservation (s)	: 1. The exposed	soil salsur	face vas not			
S.	covered with	importions shed	eting.			
			J			
Remindences i	Nel					
Lewin Man (2)	IV ([·					
Signatures:						
ET	Contractor's	Architect's	IEC's			
Representative	Representative	Representative	Representative			
	Latio	13	1			
(Name: The H	(Name: M) (W())	(Name: 11 . S. Yeung)	(Name: of end He Then)			



APPENDIX L: STATISTICS ON COMPLAINT, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS



Statistical Summary of Exceedances

Air Quality									
Location	Action Level	Limit Level	Total						
A10	0	0	0						
A20	0	0	0						

Statistical Summary of Environmental Complaints

Reporting	Envir	Environmental Complaint Statistics			
Period	Frequency	Cumulative	Complaint Nature		
01 June 2020 - 30 June 2020	0	0	N/A		

Statistical Summary of Environmental Non-compliance

Reporting Period	Environmental Non-compliance Statistics Frequency Cumulative Details					
	Frequency	Cumulative	Details			
01 June 2020 - 30 June 2020	0	0	N/A			

Statistical Summary of Environmental Summons

Reporting	Envi	Environmental Summons Statistics				
Period	Frequency	Cumulative	Details			
01 June 2020 - 30 June 2020	0	0	N/A			

Statistical Summary of Environmental Prosecution

Reporting	Enviro	Environmental Prosecution Statistics			
Period	Frequency	Cumulative	Details		
01 June 2020 - 30 June 2020	0	0	N/A		



APPENDIX M: Impact Monitoring Schedule of Next Reporting Month



	<u> </u>	Impact Monitoring Sc	hedule for Expansion of Wo H	op Shek Crematorium		
			Jul-20			
Sun	Mon	Tue				Sat
			1	2	3	4
						Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630
5	6	7	8	9	10	11
			Weekly ET site inspection and audit		Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630	
12	13	14	15	16	17	18
			Weekly ET site inspection and audit	Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630		
19	20	21	22	23	24	25
			Weekly ET site inspection and audit Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630			
26	27	28	29	30	31	
		Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630	Weekly ET site inspection and audit			

^{*}Remarks: 1. This impact monitoring schedule is subject to change due to adverse weather conditions or other rationales.

^{2.} Advance notification of the changes will be given to all relevant parties at lease 48 hours prior to implementation.



APPENDIX N: LAB REPORT

Acumen Laboratory and Testing Limited Lot 12, Tam Kon Shan Road, Tsing Yi (N), Hong Kong

Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

Page 1 of 2

Report Number

: Q200003aR200517

Job Number

: R200517

Issue Date

: 02/07/2020

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung

Sha Wan, Kowloon, Hong Kong

Project Name

: ASCL-2018028 Expansion of Wo Hop Shek Crematorium

Sample Description

: Total Suspended Particulates

Laboratory ID

: R200517/1-2

Date of Sampling

: 01/06/2020

Date Received

: 01/06/2020

Test Period

: 01/06/2020 - 02/06/2020

Test Required

: 1. Total Suspended Particulates (TSP)

Method Used

: 1. Gravimetric method

Test Result

: Refer to the results on page 2.

For and on behalf of

Acumen Laboratory and Testing Limited

Authorized Signature:

Hui Wai Fung, Huntington

Laboratory Manager

Chemical Division

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Test Report

Page 2 of 2

Report Number

: Q200003aR200517

Job Number

: R200517

Issue Date

: 02/07/2020

Test Result:

Lab ID	Date of Sampling	Client Sample ID	Initial Weight (g)	Final Weight (g)	Total Suspended Particulates (g)
R200517/1	01/06/2020	Fung Kai Liu Yun Sum Memorial School	2.7064	2.7191	0.0127
R200517/2	01/06/2020	Fanling Government Secondary School	2.7045	2.7193	0.0148

Note:

- 1. < indicates less than.
- 2. > indicates more than.
- 3. NA indicates Not Applicable.

End of Report

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Test Report

Page 1 of 2

Report Number

: Q200003aR200521

Job Number

: R200521

Issue Date

: 02/07/2020

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung

Sha Wan, Kowloon, Hong Kong

Project Name

: ASCL-2018028 Expansion of Wo Hop Shek Crematorium

Sample Description

: Total Suspended Particulates

Laboratory ID

: R200521/1-2

Date of Sampling

: 06/06/2020

Date Received

: 06/06/2020

Test Period

: 06/06/2020 - 07/06/2020

Test Required

: 1. Total Suspended Particulates (TSP)

Method Used

: 1. Gravimetric method

Test Result

: Refer to the results on page 2.

For and on behalf of

Acumen Laboratory and Testing Limited

Authorized Signature:

Hui Wai Fung, Huntington

Laboratory Manager

Chemical Division

Hong Kong Accreditation Service (HKAS) has accredited Acumen Laboratory and Testing Limited (Reg. No. HOKLAS 241 - TEST) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. This report is issued subject to Acumen Laboratory and Testing Limited standard TERMS AND CONDITIONS, and shall not be reproduced except in full or with written approval by Acumen Laboratory and Testing Limited. The result(s) of this report are applied to the sample(s) submitted only.

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Test Report

Page 2 of 2

Report Number

: Q200003aR200521

Job Number

: R200521

Issue Date

: 02/07/2020

Test Result:

Lab ID	Date of Sampling	Client Sample ID	Initial Weight (g)	Final Weight (g)	Total Suspended Particulates (g)
R200521/1	06/06/2020	Fung Kai Liu Yun Sum Memorial School	2.7353	2.7616	0.0263
R200521/2	06/06/2020	Fanling Government Secondary School	2.7329	2.7546	0.0217

Note:

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- 2. > indicates more than.
- 3. NA indicates Not Applicable.

End of Report

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Test Report

Page 1 of 2

Report Number

: Q200003aR200544

Job Number

: R200544

Issue Date

: 06/07/2020

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung

Sha Wan, Kowloon, Hong Kong

Project Name

: ASCL-2018028 Expansion of Wo Hop Shek Crematorium

Sample Description

: Total Suspended Particulates

Laboratory ID

: R200544/1-2

Date of Sampling

: 12/06/2020

Date Received

: 12/06/2020

Test Period

: 12/06/2020 - 13/06/2020

Test Required

: 1. Total Suspended Particulates (TSP)

Method Used

: 1. Gravimetric method

Test Result

: Refer to the results on page 2.

For and on behalf of

Acumen Laboratory and Testing Limited

Authorized Signature:

Hui Wai Fung, Huntington

Laboratory Manager

Chemical Division

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Test Report

Page 2 of 2

Report Number

: Q200003aR200544

Job Number

: R200544

Issue Date

: 06/07/2020

Test Result:

100111000111					
Lab ID	Date of Sampling	Client Sample ID	Initial Weight (g)	Final Weight (g)	Total Suspended Particulates (g)
R200544/1	12/06/2020	Fung Kai Liu Yun Sum Memorial School	2.7741	2.8041	0.0300
R200544/2	12/06/2020	Fanling Government Secondary School	2.7614	2.7925	0.0311

Note:

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- 2. > indicates more than.
- 3. NA indicates Not Applicable.

End of Report

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Test Report

Page 1 of 2

Report Number

: Q200003aR200545

Job Number

: R200545

Issue Date

: 06/07/2020

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung

Sha Wan, Kowloon, Hong Kong

Project Name

: ASCL-2018028 Expansion of Wo Hop Shek Crematorium

Sample Description

: Total Suspended Particulates

Laboratory ID

: R200545/1-2

Date of Sampling

: 18/06/2020

Date Received

: 18/06/2020

Test Period

: 18/06/2020 - 19/06/2020

Test Required

: 1. Total Suspended Particulates (TSP)

Method Used

: 1. Gravimetric method

Test Result

: Refer to the results on page 2.

For and on behalf of

Acumen Laboratory and Testing Limited

Authorized Signature:

Hui Wai Fung, Huntington

Laboratory Manager Chemical Division

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Test Report

Page 2 of 2

Report Number

: Q200003aR200545

Job Number

: R200545

Issue Date

: 06/07/2020

Test Result:

Lab ID	Date of Sampling	Client Sample ID	Initial Weight (g)	Final Weight (g)	Total Suspended Particulates (g)
R200545/1	18/06/2020	Fung Kai Liu Yun Sum Memorial School	2.7101	2.7356	0.0255
R200545/2	18/06/2020	Fanling Government Secondary School	2.7562	2.7866	0.0304

Note:

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- 2. > indicates more than.
- 3. NA indicates Not Applicable.

End of Report

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Test Report

Page 1 of 2

Report Number

: Q200003aR200547

Job Number

: R200547

Issue Date

: 06/07/2020

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung

Sha Wan, Kowloon, Hong Kong

Project Name

: ASCL-2018028 Expansion of Wo Hop Shek Crematorium

Sample Description

: Total Suspended Particulates

Laboratory ID

: R200547/1-2

Date of Sampling

: 24/06/2020

Date Received

: 24/06/2020

Test Period

: 24/06/2020 - 25/06/2020

Test Required

: 1. Total Suspended Particulates (TSP)

Method Used

: 1. Gravimetric method

Test Result

: Refer to the results on page 2.

For and on behalf of

Acumen Laboratory and Testing Limited

Authorized Signature:

Hui Wai Fung, Huntington

Laboratory Manager

Chemical Division

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Test Report

Page 2 of 2

Report Number

: Q200003aR200547

Job Number

: R200547

Issue Date

: 06/07/2020

Test Result:

Lab ID	Date of Sampling	Client Sample ID	Initial Weight (g)	Final Weight (g)	Total Suspended Particulates (g)
R200547/1	24/06/2020	Fung Kai Liu Yun Sum Memorial School	2.7389	2.7697	0.0308
R200547/2	24/06/2020	Fanling Government Secondary School	2.7244	2.7559	0.0315

Note:

- 1. < indicates less than.
- 2. > indicates more than.
- 3. NA indicates Not Applicable.

End of Report

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Acumen Laboratory and Testing Limited

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Test Report

Page 1 of 2

Report Number

: Q200003aR200551

Job Number

: R200551

Issue Date

: 06/07/2020

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung

Sha Wan, Kowloon, Hong Kong

Project Name

: ASCL-2018028 Expansion of Wo Hop Shek Crematorium

Sample Description

: Total Suspended Particulates

Laboratory ID

: R200551/1-2

Date of Sampling

: 29/06/2020

Date Received

: 29/06/2020

Test Period

: 29/06/2020 - 30/06/2020

Test Required

: 1. Total Suspended Particulates (TSP)

Method Used

: 1. Gravimetric method

Test Result

: Refer to the results on page 2.

For and on behalf of

Acumen Laboratory and Testing Limited

Authorized Signature:

Hui Wai Fung, Huntington

Laboratory Manager

Chemical Division

Hong Kong Accreditation Service (HKAS) has accredited Acumen Laboratory and Testing Limited (Reg. No. HOKLAS 241 - TEST) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. This report is issued subject to Acumen Laboratory and Testing Limited standard TERMS AND CONDITIONS, and shall not be reproduced except in full or with written approval by Acumen Laboratory and Testing Limited. The result(s) of this report are applied to the sample(s) submitted only.

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Test Report

Page 2 of 2

Report Number

: Q200003aR200551

Job Number

: R200551

Issue Date

: 06/07/2020

Test Result:

Lab ID	Date of Sampling	Client Sample ID	Initial Weight (g)	Final Weight (g)	Total Suspended Particulates (g)
R200551/1	29/06/2020	Fung Kai Liu Yun Sum Memorial School	2.7302	2.7517	0.0215
R200551/2	29/06/2020	Fanling Government Secondary School	2.7406	2.7697	0.0291

Note:

- 1. < indicates less than.
- 2. > indicates more than.
- 3. NA indicates Not Applicable.

End of Report

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