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Contract No. AL G513

Expansion of Wo Hop Shek Crematorium

Monthly EM&A Report No.22 (Period from 01 December to 31 December 2021)

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Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22



CONTENTS

| Exe | cutive Sumi | nary1 | | |
|-----|-------------|--------------------------------------------------------------------------------------|--|--|
| 1. | Basic Proje | ect Information3 | | |
| 2. | Monitorin | Monitoring Results9 | | |
| 3. | Waste | Waste | | |
| 4. | Ecological | Monitoring | | |
| 5. | Landscape | And Visual Impacts | | |
| 6. | = | of Monitoring Exceedance, Complaints, Notification of Summons and Prosecutions 19 | | |
| 7. | | Inspection21 | | |
| 8. | | z Issues | | |
| 9. | Conclusion | ns and Recommendations25 | | |
| | | | | |
| Ap | pendix A | Master Programme | | |
| Ap | pendix B | Work Area for the Contract No. AL G513 | | |
| Ap | pendix C | Summary of Implementation Status of Environmental Mitigation | | |
| Ap | pendix D | Impact Monitoring Schedule of the Reporting Month | | |
| Ap | pendix E | Event/Action Plan for Dust Exceedance | | |
| Ap | pendix F | Dust Monitoring Equipment Calibration Certificate | | |
| Ap | pendix G | The Certification of Laboratory with HOKLAS Accredited Analytical Tests | | |
| Ap | pendix H | Location Plan of Air Quality Monitoring Station | | |
| Ap | pendix I | Dust Monitoring Data | | |
| Ap | pendix J | Waste Flow Table | | |
| Ap | pendix K | Site Inspection Proforma | | |
| Ap | pendix L | Statistics on Complaint, Notifications of Summons and Successful Prosecutions | | |
| Ap | pendix M | Impact Monitoring Schedule of Next Reporting Month | | |
| Ap | pendix N | Transportation Routes to/from the site | | |
| Ap | pendix 0 | Lab Report | | |



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 22nd 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 December 2021 to 31 December 2021.
- 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:
 - Fitting out
 - 1. Interior fitting out works
 - 2. External wall plastering, tiling & cladding
 - 3. Steel and metal works
 - Construction to pedestrian pavement
- A6. The major environmental impacts brought by the above construction works include:
 - Construction noise generation from fitting out and pedestrian pavement activities
 - Wastewater generation from pedestrian pavement activities
 - Waste generation from fitting out and pedestrian pavement activities
- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Reducing noise from equipment and machinery on-site by enclosing the construction site with plastic barrier and moving equipment and machinery inside the constructed building
 - Treatment of wastewater from pedestrian pavement activities through sedimentation tank, wastewater was reused on-site and was not discharged
 - 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 01, 08, 15, 20 and 29 December 2021 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:
 - Fitting out
 - 1. Interior fitting works
 - 2. Steel and metal works
 - 3. Suspended ceiling
 - 4. Painting
 - Construction to pedestrian pavement
 - Re-instate to pedestrian pavement & EVA

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

- Construction noise generation from fitting out and pedestrian pavement activities
- Wastewater generation from pedestrian pavement activities
- Waste generation from fitting out and pedestrian pavement activities
- A15. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
 - Reducing noise from equipment and machinery on-site by enclosing the construction site with plastic barrier and moving equipment and machinery inside the constructed building
 - Treatment of wastewater from pedestrian pavement activities through sedimentation tank, wastewater would be reused on-site and not be discharged
 - 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.

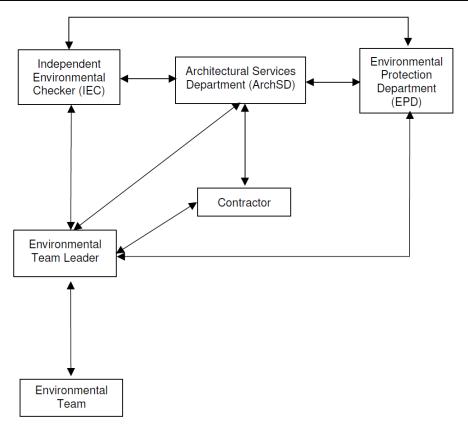
1.2. THE REPORTING SCOPE

This is the 22nd Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 01 December to 31 December 2021.

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) | Franki Chiu | 2268-3207 |



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. The Condition 2.4 under the EP (EP-329/2009) was conducted not in this stage of the project.

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

| EP/FEP Condition (EP-329/2009) | 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 2.5 | Landscape Plan with Tree Preservation Proposal | 14 Feb 2018 |
| Condition 5.2a | Baseline Monitoring Report | 21 Jan 2020 |
| Condition 5.2b | Alternative Air Quality Monitoring Station | 05 Oct 2019 |
| Condition 5.4 | Monthly EM&A Report (December 2021) | 14 Jan 2022 |

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) (Renewal) | GW-RN0401-21 | 13 Jul 2021 – 12 Jan 2022 | - |
| 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, 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 | 761173 | 01 Jul 2021 |
| 1-hour TSP | LD-5R Digital Dust Indicator | 761174 | 01 Jul 2021 |
| 24-hour TSP | TE-5170X High Volume Sampler | 1049 | 01 & 17 Dec 2021 |
| 24-hour TSP | TE-5170X High Volume Sampler | 1050 | 01 & 17 Dec 2021 |



| Monitoring Parameter | Monitoring Equipment | Serial Number | Date of Calibration |
|-------------------------|--------------------------|---------------|---------------------|
| 24-hour TSP | TE-5028A Calibration Kit | 3702 | 03 Aug 2021 |

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 $\pm 3^{\circ}$ 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 1.13-1.19 m³min⁻¹, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 m³min⁻¹);
- 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 on 01, 07, 13, 17, 23 and 29 December 2021 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 | 41 - 53 | 290 | 500 |
| A20 | 44 - 58 | 291 | 500 |

Table 2.6 Summary of 24-hour TSP Monitoring Results

| Monit Loca | _ | Range(μg/m³) | Action Level(μg/m³) | Limit Level(μg/m³) |
|---------------|----|--------------|------------------------|--------------------|
| A1 | .0 | 54 - 71 | 169 | 260 |
| A2 | 0 | 38 - 63 | 167 | 260 |



3. WASTE

3.1. WASTE RECORD OF REPORTING MONTH

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 December 2021

| | Actual Quantities of Inert C&D Materials Generated Monthly | | | 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) |
| December 2021 | 14.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14.85 |

Notes:

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



3.2. MITIGATION MEASURES TO WASTE PRODUCTION

Mitigation measures adopted for reducing waste production are summarized in Table 3.2.

Table 3.2 Mitigation measures adopted for waste reduction

| | Table 5.2 Mitigation measures adopted for waste reduction | | | | |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Types of Waste | Mitigation Measures | | | | |
| Non-inert C&D Wastes | 1. On-site segregation was adopted to wastes to enhance the reuse and recycling of non-inert C&D wastes. Separated containers are provided for temporary storage of different types of non-inert wastes, including the deployment of three-colour recycle bins for paper, aluminium cans, and plastic bottle recycling. Three-colour recycle bins Enclosed rubbish bin for general waste | | | | |



| Types of Waste | Mitigation Measures | | |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| | Skip for non-inert C&D waste | | |
| | Careful design and planning with good site management to minimize over ordering and generation of waste materials. | | |
| | 3. Reuse non-inert C&D materials when possible to reduce the amount of C&D waste. The timber for formwork was reused onsite. | | |
| | Timber for formwork was reused on-site | | |
| | 1. Excavated inert C&D materials were separately stored for subsequent backfilling, approximately 614 tonnes of excavated inert materials were stored in construction material storage area with coverage of impervious sheeting for on-site backfilling. | | |
| Inert C&D Wastes | No excavated material was stored at material storage area in the | | |
| | reporting month. | | |



| Types of Waste | Mitigation Measures | |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | Surplus excavated materials were delivered to public fill reception facilities. | |
| Chemical Wastes | Unused chemicals or chemicals with remaining functional capacity were reused as far as practicable. Chemical with remaining functional capacity was stored in a designated area and reused on-site. | |



4. ECOLOGICAL MONITORING

The ecological monitoring was completed in August 2010 by China-Hong Kong Ecology Consultants Co. who was employed by Allied Environmental Consultants Ltd to conduct tree monitoring and advice on tree maintenance during construction period of "Provision of Cremators at Wo Hop Shek Crematorium" starting from September 2009.

5. LANDSCAPE AND VISUAL IMPACTS

No deficiency was observed during landscape and visual impact inspection carried out on 01, 15 and 29 December 2021.



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

The Environmental Complaint Handling Procedure is shown in below Figure 6.1:

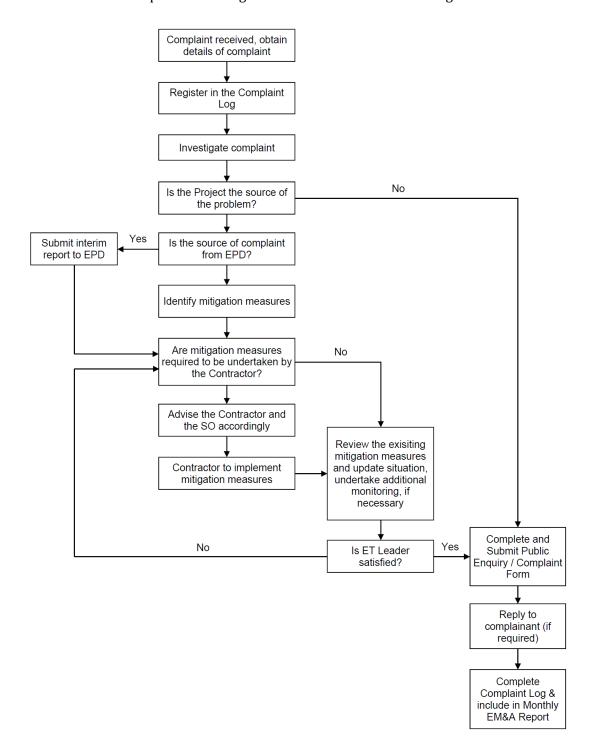


Figure 6.1 Environmental Complaint Handling Procedures

Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22



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**.



7. 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 01, 08, 15, 20 and 29 December 2021 at the site portions list in Table 7.1 below.

Table 7.1 Summaries of Site Inspection Record

| Date | Inspected Site Portion | Time |
|------------------|---------------------------------------|------------------|
| 01 December 2021 | Wo Hop Shek Crematorium | 10:00 - 10:20 AM |
| 08 December 2021 | Wo Hop Shek Crematorium | 09:30 - 09:50 PM |
| 15 December 2021 | Wo Hop Shek Crematorium | 10:00 – 10:15 AM |
| 20 December 2021 | Wo Hop Shek Crematorium | 10:30 - 10:45 AM |
| 29 December 2021 | December 2021 Wo Hop Shek Crematorium | |

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**.

According to the Environmental Permit (EP) clause 3.6, route 2 and route 5 shall not be used as transportation routes during construction, which was attached in **Appendix N**. The measures implemented to comply with the EP's requirement are listed as follows:

- 1. Induction training including the proper transportation routes use
- 2. Posting extracts of the transportation route to/from the site outside the entrance
- 3. Toolbox training provided to the drivers entering the site

Measure no.2 of the above was observed during the site inspections.

In order to comply with the requirement of the EP clause 3.5, the implementation of all landscaping and visual mitigation measures in accordance with the landscape plan approved was audited in the reporting period. The detailed status of the implementation is provided in the section 5 in **Appendix K** of each site inspection.

Bi-weekly checking for the transplanted tree was conducted during the site inspections. No major observation was found related to the landscaping and visual.

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



Table 7.2 Site Observations

| Date | Environmental Observations | Follow-up Status |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 01 Dec 2021 (Site inspection) | Observation(s) 1. No major observation was observed. Reminder(s) 1. Housekeeping should be maintained. | Nil. |
| 08 Dec 2021 (Site inspection) | Observation(s) 1. Chemical material should be placed on drip tray. Reminder(s) Nil | 1. Chemicals were removed. |
| 15 Nov 2021 (Site inspection) | Observation(s) 1. No major observation was observed. Reminder(s) 1. Housekeeping should be maintained. 2. Chemical in-use should be placed on drip tray. | Nil. |
| 20 Dec 2021 (Site inspection) | Observation(s) 1. No major observation was observed. Reminder(s) 1. Housekeeping should be maintained. | Nil. |
| 29 Dec 2021 (Site inspection) | Observation(s) | Nil. |

Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22



| Date | Environmental Observations | Follow-up Status |
|------|----------------------------------------------------|------------------|
| | 1. No major observation was observed. | |
| | Reminder(s) 1. Housekeeping should be maintained. | |



8. FUTURE KEY ISSUES

Works to be undertaken in the next reporting month are:

- Fitting out
 - 1. Interior fitting works
 - 2. Steel and metal works
 - 3. Suspended ceiling
 - 4. Painting
- Construction to pedestrian pavement
- Re-instate to pedestrian pavement & EVA

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

- Construction noise generation from fitting out and pedestrian pavement activities
- Wastewater generation from pedestrian pavement activities
- Waste generation from fitting out and pedestrian pavement activities

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

- Reducing noise from equipment and machinery on-site by enclosing the construction site with plastic barrier and moving equipment and machinery inside the constructed building
- Treatment of wastewater from pedestrian pavement activities through sedimentation tank, wastewater would be reused on-site and not be discharged
- Sorting and storage of general refuse and construction waste

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



9. CONCLUSIONS AND RECOMMENDATIONS

This is the 22nd Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 01 December to 31 December 2021, 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.

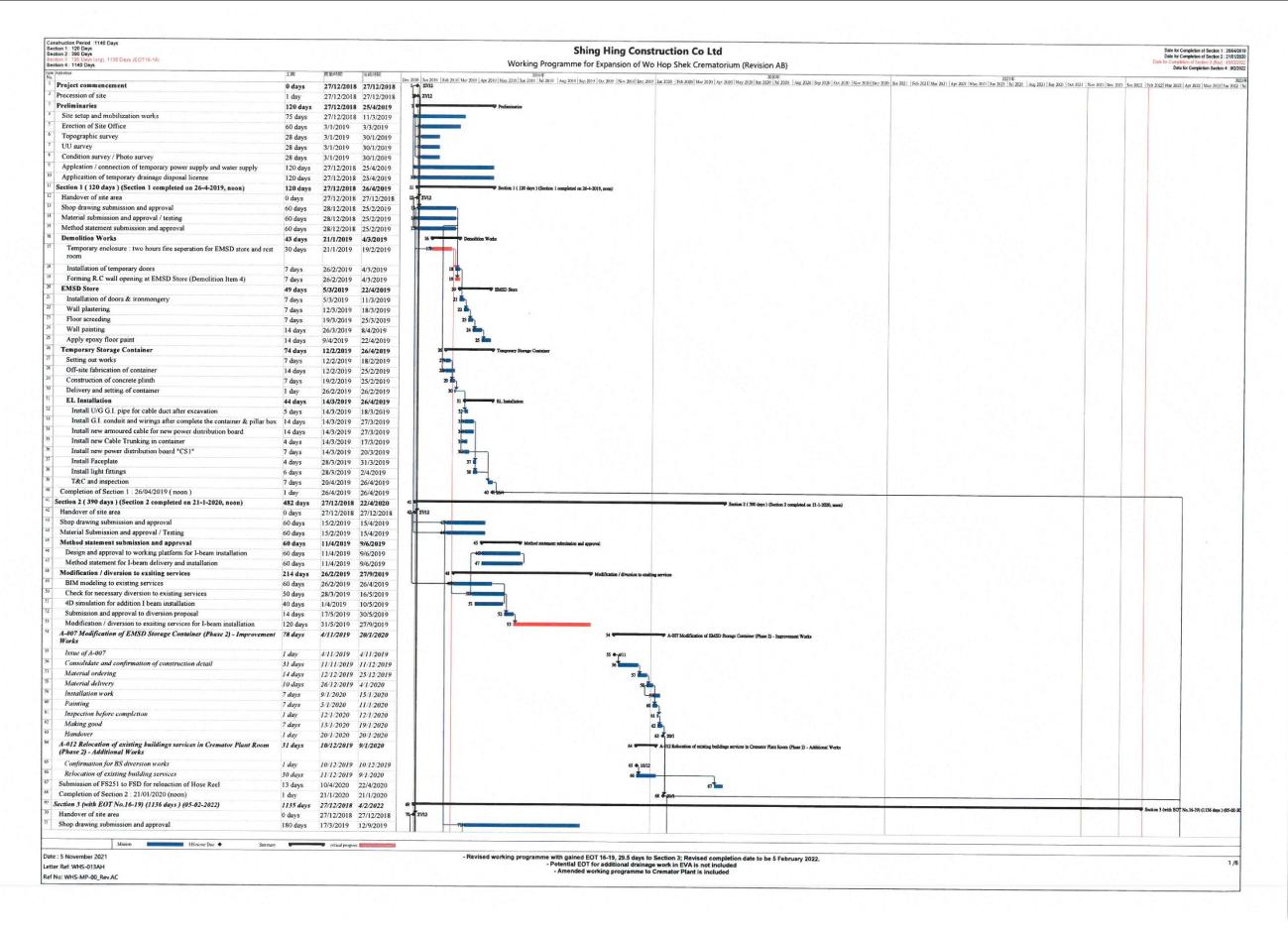
The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22

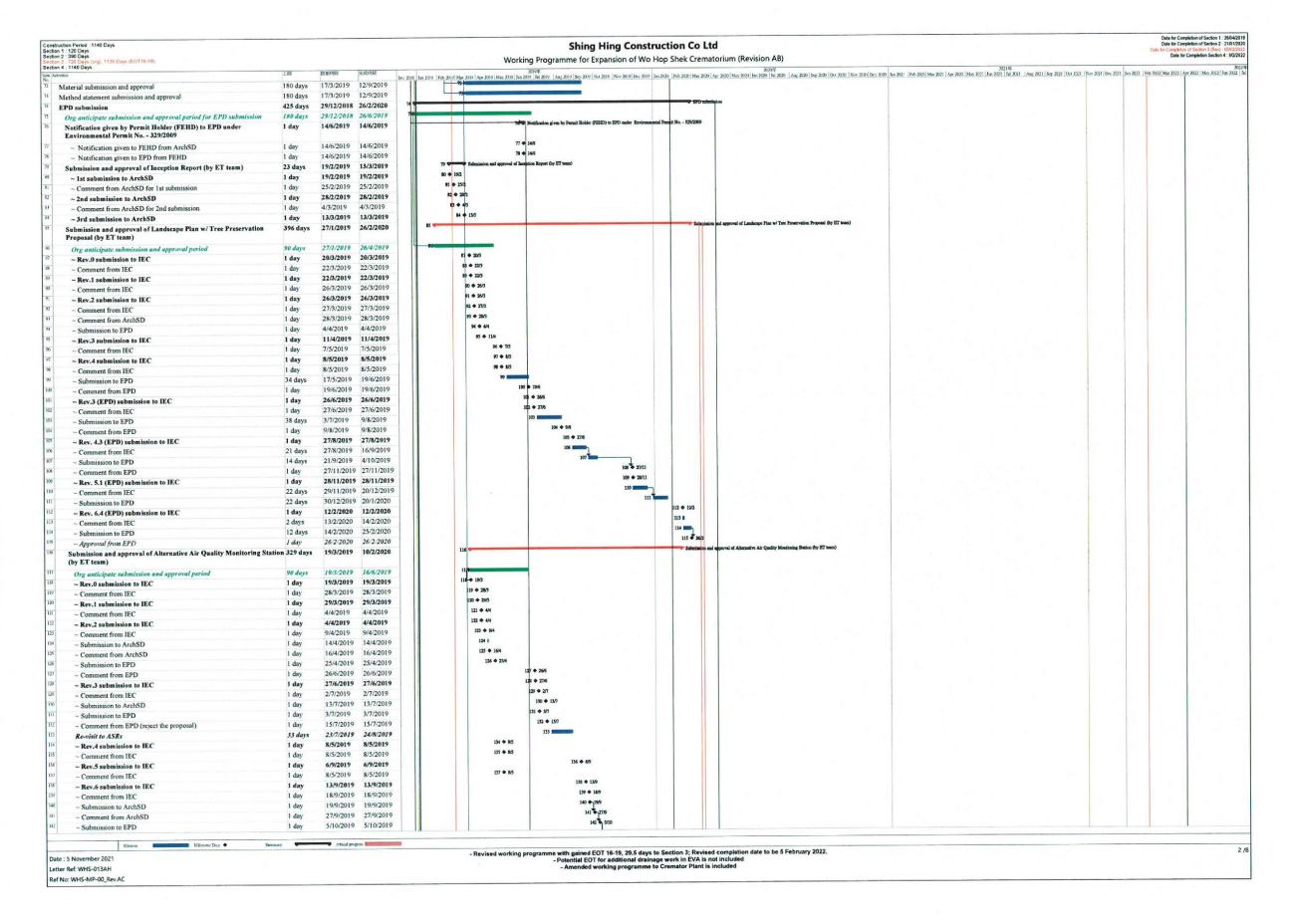


APPENDIX A: MASTER PROGRAMME

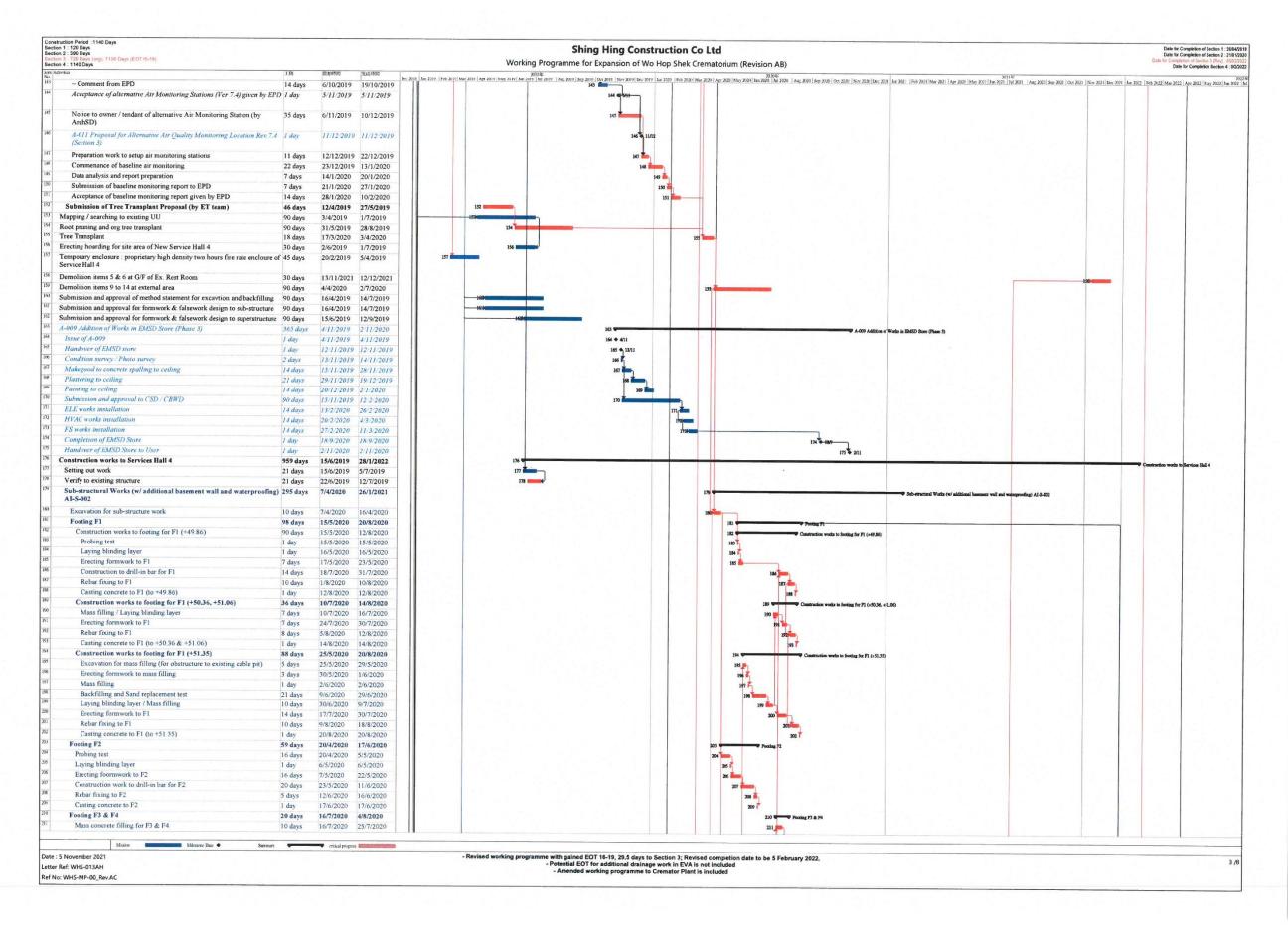




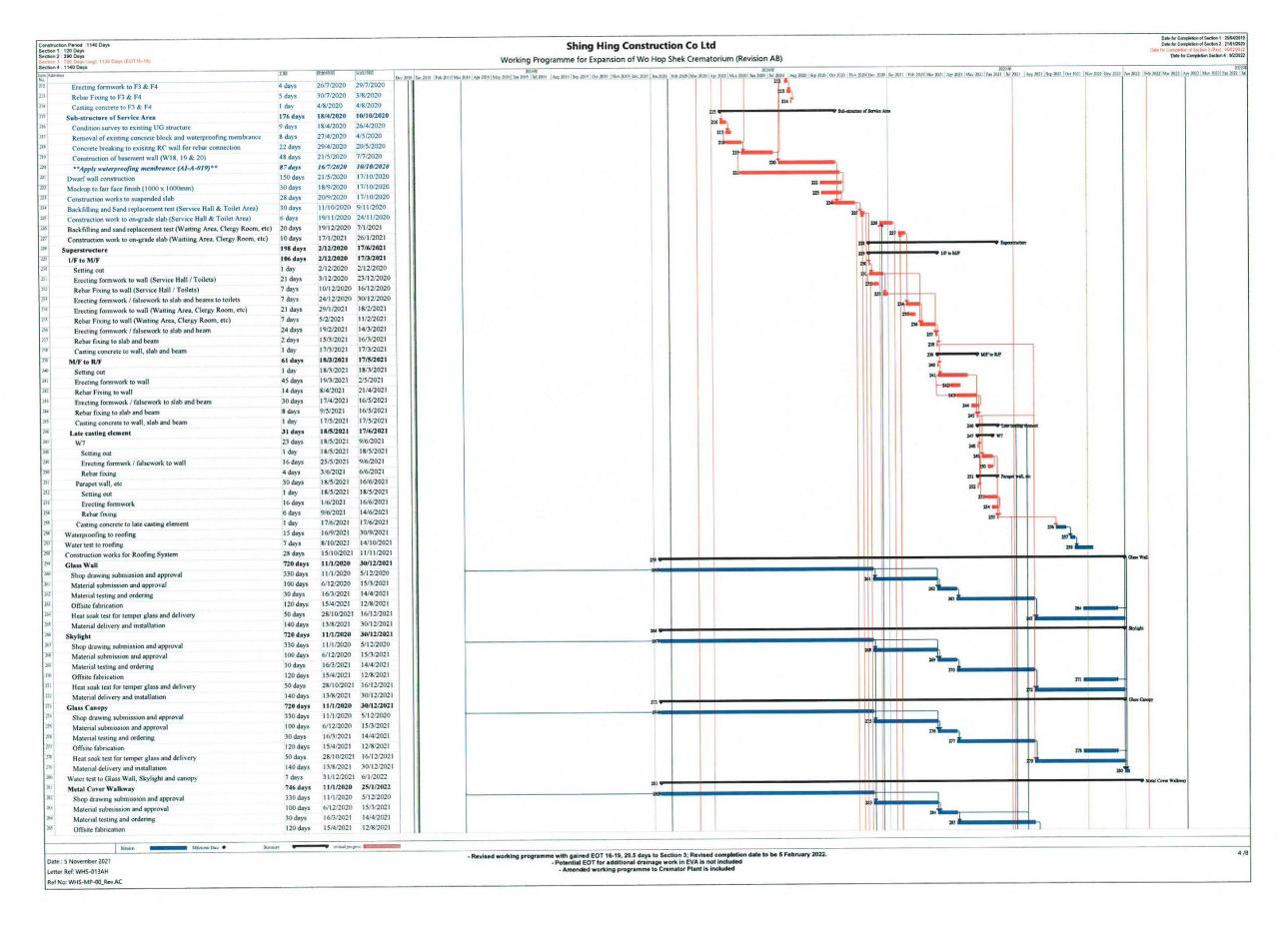




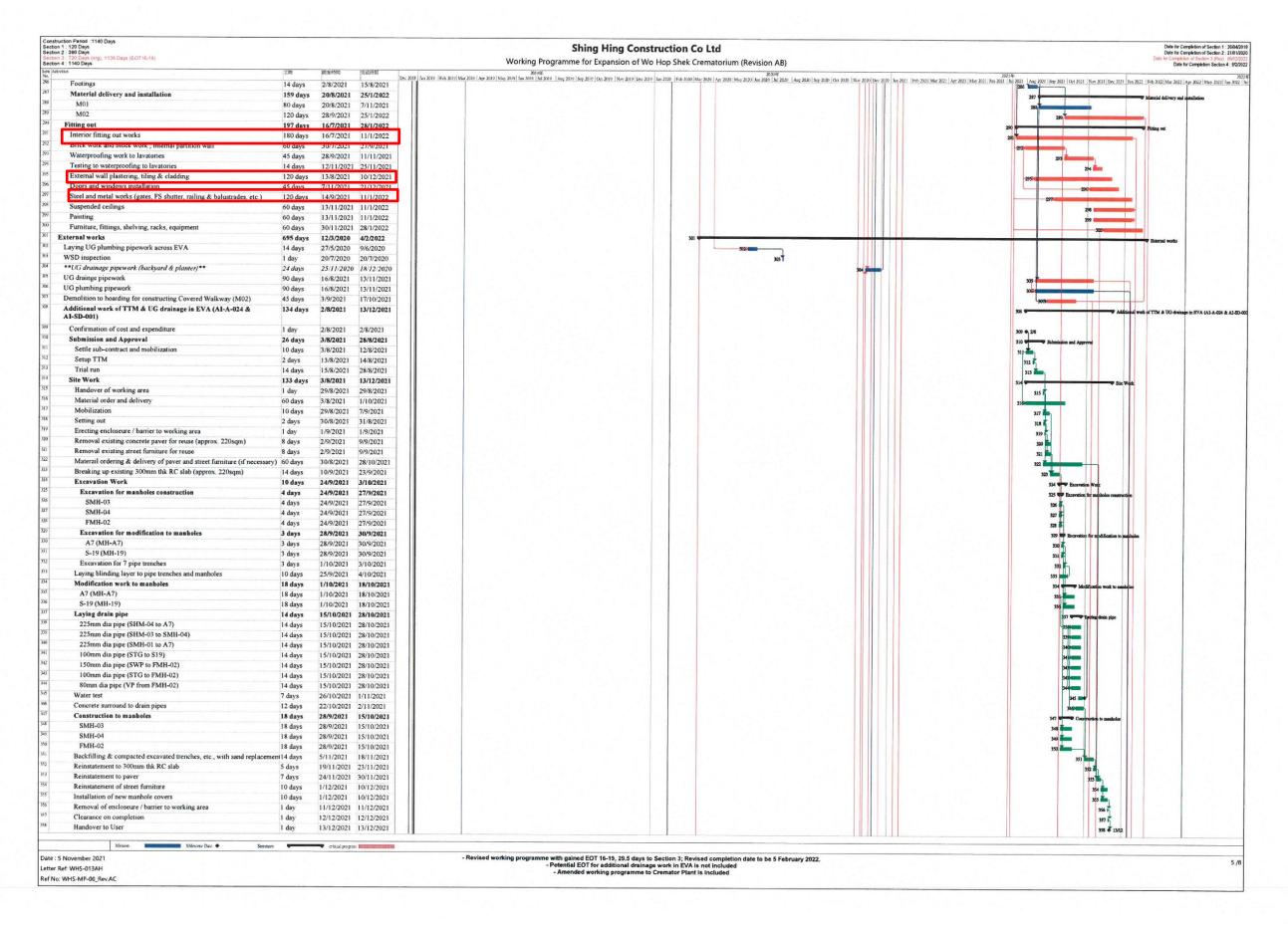




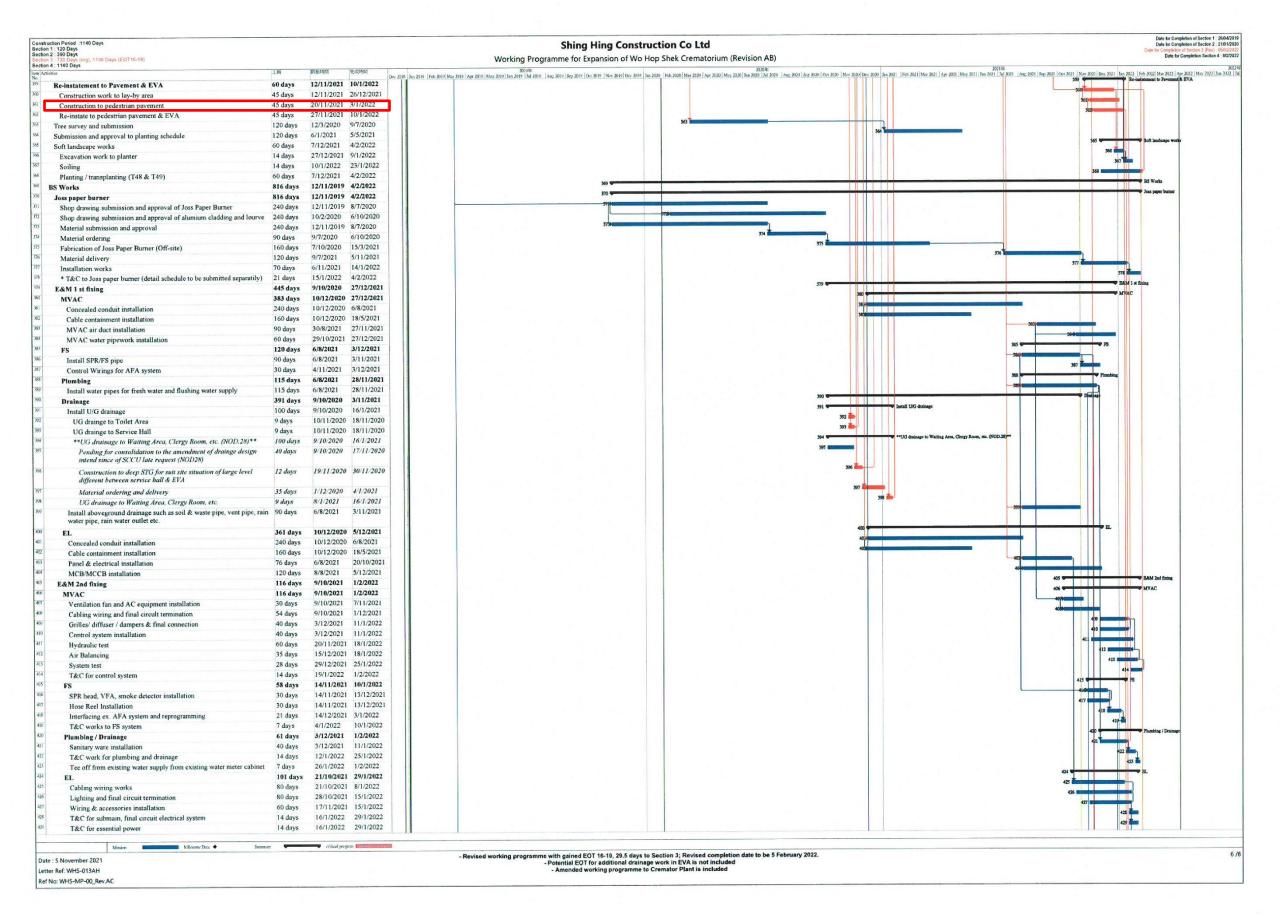




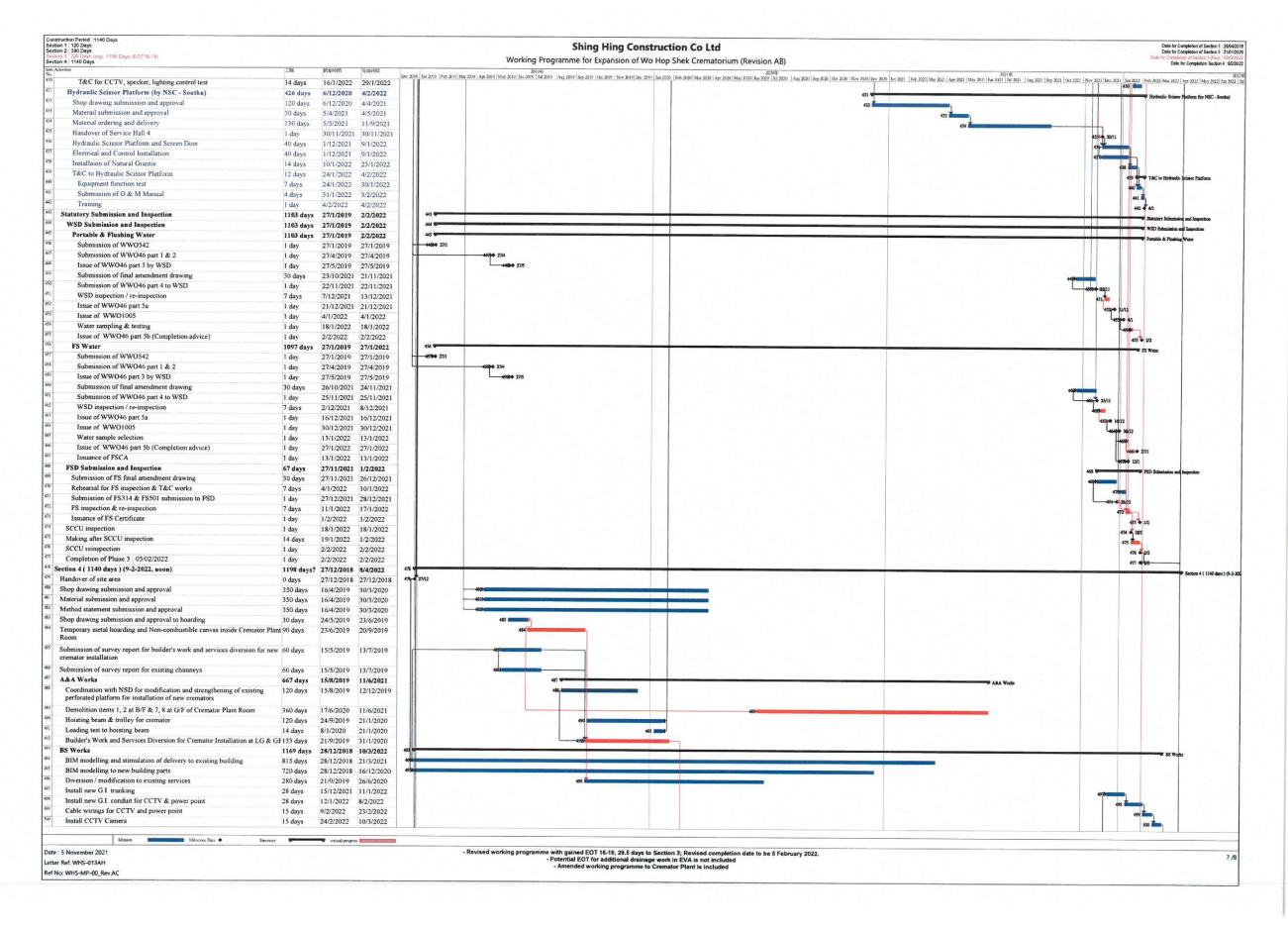




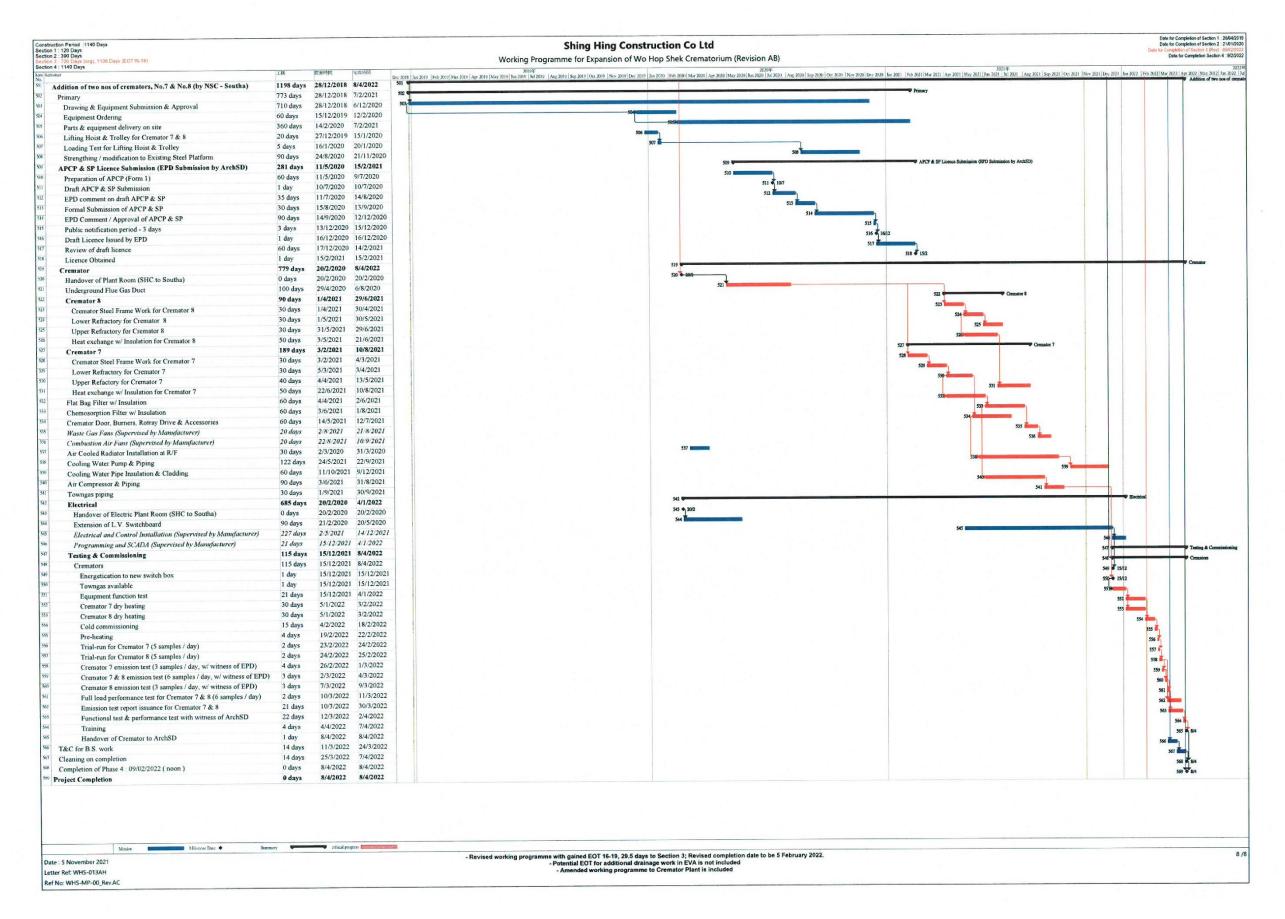








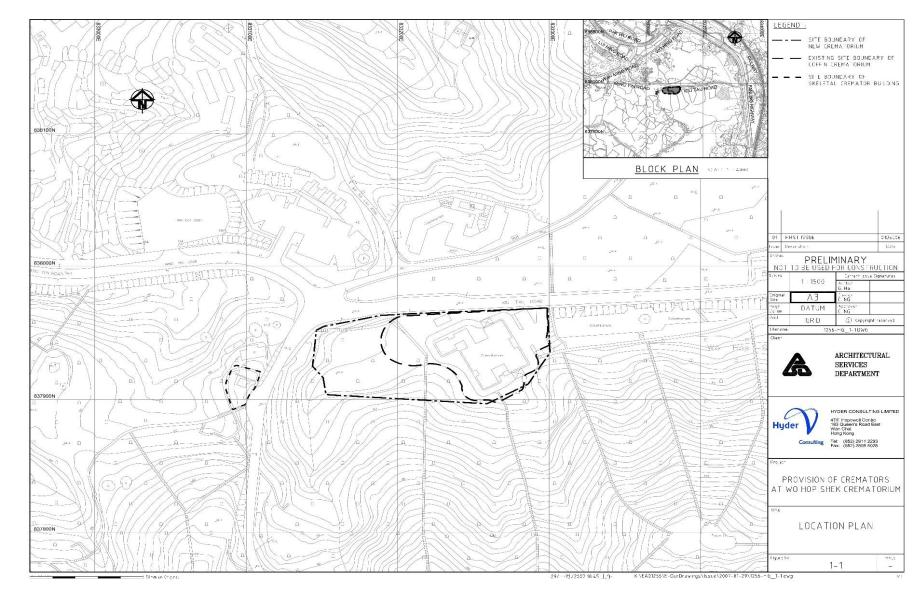






APPENDIX B: WORK AREA FOR THE CONTRACT NO. AL G513







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 | 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 | | coffin and skeletal crematorium / Prior to any demolition | 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. | work commencing | Contractor | | | |
| 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. | | | | | |



| | Month | ny EMRA Report No.22 | | | | CONSULTING | LIMITED |
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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.3.9.5 | | 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. | | | | | |



| EIA Ref | EM&A Ref. | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stage | Relevant Legislation and Guidelines | Implementation Status |
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| 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.3.10.4 | S.2.9.1 - S.2.9.3 | Good site management / practices to avoid / minimise incidences of dust emissions: Site Boundary and Entrance Vehicle washing facilities including a high pressure water jet shall be provided at every discernible or designated vehicle exit point. 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. | Project Site / Construction and Demolition | Contractor | Construction Phase | Air Pollution Control (Construction Dust) Regulation APCO | Implemented |



| EIA Ref Re | | Location / Timing | Implementation Agent | Implementation Stage | Relevant Legislation and Guidelines | Implementation Status |
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| | 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 in a 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 the entire 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 | | | |
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| Air (EM&A for Construction 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 | | | |
| | | on Phase) | T | T | | | | | | |
| 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 shallbe 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. | | | | | | | | |
| Land Con | taminat | ion (Construction Phase) | T | T | | | T | | | |
| | | Remedial Action Plan: | All areas | Contractor | Construction Phase | Waste Disposal | | | | |



| EIA Ref | EM&A Ref. | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stage | Relevant Legislation and Guidelines | Implementation Status |
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| S.5.7.2 | | 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 | NA |
| 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. | | | | ProPECC Note PN3/94 Dutch A, B, C | NA |
| | | ■ At least three soil samples should be taken from the most contaminated area(s) and tested for TCLP for a full suite of parameters (16 metals) asstated in Table E1 in Annex E in the GN. | | | | Classificati-on system | |
| | | ■ 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 |



| | Figure 1 Report No.22 | | | | | | |
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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.5.7.6 | | 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, Boatvards | |
| 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 Cor | taminat | ion (EM&A) | | | | | | |
| S.11.2.9 - S.11.2.15 | S.4.1 - S.4.7 | Further Site Investigation: Conduct further site investigation for Petroleum hydrocarbons and PAH in soil samples. Conduct further site investigation for PCBs in soil samples. Conduct further site investigation for PAH, Dioxins and Metals | After decommissioni ng, prior to construction: | Contractor | Construction Phase | Interim CAR & RAP | NA | |
| | | (Cr, Co, Ni, Cu, Zn, As, Mo, Cd, Sn, Ba, Hg, Pb) in soil samples. | crematorium: 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 | | | | | |



| EIA Ref | EM&A Ref. | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stage | Relevant Legislation and Guidelines | Implementation Status |
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| | | | chimneys | | | | |
| Waste Mar | nagemen | t (Construction Phase) | | | | | |
| S.6.7.24 | | Good Site Practice: | Project site/ | Contractor | Construction Phase | Waste Disposal | Implemented and |
| | | ■ 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). | design, construction and demolition stages | | | Ordinance (Cap. 354) Waste Disposal (Chemical Waste) (General) Regulation | rectified according to observation |
| | ■ 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. | | | | Waste Disposal (Charges for Disposal of Construction Waste) Regulation | |
| | | 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 chemicalwaste 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 | | | | | |



| | EMERI Report No.22 | | | | | |
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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 |
| | 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 construction material by having proper storage and site practices. Plan and stock construction materials carefully to minimise the amount of waste generated. | Project site / construction and demolition stages | Contractor | Construction Phase | WBTC No. 32/1992 WBTC No. 19/2005 | Implemented |



| EIA Ref | EM&A Ref. | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stage | Relevant Legislation and Guidelines | Implementation Status | |
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| 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. | Environmental | Environmental Protection Measures / Mitigation Measures | | | | 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 | | | | | Cremators, Flues Chimneys and surrounding areas / After decommissioni ng but prior to | ding After dissioni | Construction Phase ProPECC PN 2/97 ProPECC PN 3/94 APCO | | NA |
| | | | | e quality and quanti treatment and disp Investigatio n Period | | ng but prior to demolition of the existing 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 | | | | | | |
| | | to contain asbes inspected by are presence of any and the addition | stos containing ma egistered asbestos ACM. These areas nal findings submi | nmencing, these area aterial (ACM) shall b s consultant to deter s shall be thoroughly atted as supplements stigation Report. | e further mine the investigated | | | | | |
| | | Information to the Asbestos Investigation Report. ■ Samples shall be analysed for the presence and type of asbestos according to the Laboratory's HOKLAS accredited testing procedures. If the findings of the investigation indicate ACM materials present on the premises an Asbestos Abatement Plan must be prepared prior to commencement of demolition works. | | | | | | | | |



| EIA Ref | EM&A Ref. | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stage | Relevant Legislation and Guidelines | Implementation Status |
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| | | ■ 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 Protecti | ion Measures / M | litigation 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 Contaminated DCM | > 1 and < 10 ppb TEQ | Any Level | | | | | |
| | | Severely contaminated DCM | >10 ppbTEQ | Any Level | | | | | |
| S.6.9.9 | S.5.3.1 9 | Demolition, Handling, Treats DCM / HMCM / PAHCM fron | | | Cremator room in Existing Crematorium / demolition | Contractor | Construction Phase | ProPECC PN 3/94 APCO | NA |
| | | ■ Where the ash waste cont PAHCM, the contractor sh- during demolition. General followed. The ash waste ca | all avoid ash waste l al dust suppression : | becoming airborne measures shall be | | | | | |
| S.6.9.10 - S.6.9.14 | S.5.3.2 0 - S.5.3.2 4 | Demolition, Handling, Treati Severely Contaminated DCM Contaminated HMCM / PAHo Crematorium Site preparation procedures: | and Moderately / S CM from Demolition | Severely | Cremator room in Existing Crematorium / demolition | Contractor | Construction Phase | Waste Disposal (Chemical Waste) (General) Regulation ProPECC PN 3/94 | NA |
| | | ■ Except the cremators/flue items shallbe removed as decontamination activities | far as practicable to | | | | | APCO | |
| | | Preliminary site decontain using High Efficiency Part | | | | | | | |
| | | ■ A chamber with three laye | ers of polythene she | ets shall enclose the | | | | | |



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| EIA Ref | | 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 |
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| | | 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 shallbe 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 |
| S.6.9.2 | 5 - | ■ Should any chemical waste be generated, the Contractor must registerwith the EPD as chemical waste producer. | demolition | | | Packaging, Labelling and Storage of | |
| | 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. | |
| | | ■ Principles of reuse and recycle chemical waste on site as far as practicable shall be adopted by the Contractor. | | | | (denotal) negalation | |



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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. | | | | | |



| | Monthly Livery Report No.22 | | | | | | | |
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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 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. | construction and demolition stages | | | | | |
| Waste Ma | nageme | ent (EM&A) | | | | | | |
| S.11.2.17 | S.5.3.1 0 | Supplementary site investigations shall be conducted for asbestos in building structures and for dioxins, heavy metals and PAH in ash/particular matter samples. | Cremators / flue / chimney and surrounding area. After decommissioni ng 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 | |



| 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 |



| | | donemy Livier Report No.22 | | | | | |
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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.7.9.3 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 |
| 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 Vi | sual (EM&A) | | | | | |



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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.11.2.23 - S.11.2.24 | S.6.2 | Details of the inspection frequency and parameters will be outlined in the EM&A Manual. | Work site / Construction | Contractor | Construction Phase | | NA | |
| | alita (C | on atmostica Diago | | | | | | |
| | S.7.2.2 | onstruction Phase) Construction Runoff and Drainage | Work site / | Contractor | Construction Phase | ProPECC PN 1- | Implemented and | |
| 3.0.7.1 | 3.7.2.2 | <u> </u> | Construction | Contractor | Constituction i mase | 94 & WPCO | rectified | |
| 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. | Consultation | | | 71 & WI GO | according to observation | |
| | | ■ Provision of perimeter channels to intercept storm runoff from outside the Site. These shall be constructed in advance of site formation works andearthworks. | | | | | | |
| | | ■ 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 washing facility 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. | | | | | | |



| | Working Livery Report No.22 | | | | | | |
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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.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 | |
| | | 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 storagecapacity 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. | | | | | |
| Ecology (| Constru | ction Phase) | | | | | |
| 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. 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. Disturbance of individuals of the shrub / tree Transplantation of the two shrub / tree species of conservation concern, namely Aquilaria sinensis and Cibotium barometz, shall be avoided. Where loss of | Work site particularly semi- natural woodland / Design and construction phases. | Arch SD / Contractor | Construction Phase | ETWB Technical Circular No. 3/2006 | Implemented |
| | | 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- | | | | | |



| | 1 101101 | ly Linear Report No.22 | | | | 100000000000000000000000000000000000000 | |
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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 |
| | | month period. 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. | | | | | |
| 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 shallbe 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. | | | | | |



| | Monthly Eviden Report No.22 | | | | | | |
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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 |
| | | ■ 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 |
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| | | ■ 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



| Impact Monitoring Schedule for Expansion of Wo Hop Shek Crematorium Dec-21 | | | | | | |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----|
| Sun | Mon | Tue | | Thur | Fri | Sat |
| Suil | Non | lue | 1 | | | 4 |
| | | | Weekly ET site inspection and audit Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630 | | | |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630 | Weekly ET site inspection and audit | | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630 | | 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 | |
| | | | Weekly ET site inspection and audit 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



| Event | Action | | | | | |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Event | ET | IEC | AR | Contractor | | |
| Action Level | | | | | | |
| Exceedance for one sample Exceedance for two or more consecutive samples | 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. Identify source; Inform IEC and AR; Advise the AR on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring | Check monitoring data submitted by ET; Check Contractor's working method. 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 | Notify Contractor. Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. | Rectify any unacceptable practice; Amend working methods if appropriate. Submit proposals for remedial to AR within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate. | | |
| | frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and AR; | measures; 5. Supervise Implementation o remedial measures. | | | | |



| Event | Action | | | | | |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Event | ET | IEC | AR | Contractor | | |
| | 8. If exceedance stops, cease 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 | 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; | 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; | Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; | | |



| Event | Action | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Event | I | EC | AR | Contractor | | |
| procedures to possible mitig implemented; 6. Arrange meeti and AR to disc remedial actio taken; 7. Assess effective Contractor's reactions and kee and AR informations; 8. If exceedance additional more | ing with IEC cuss the cons to be veness of emedial cep IEC, EPD ned of the stops, cease | tion of remedial | Ensure remedial measures properly implemented; 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. | 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion o works as determined by the AR until the exceedance is abated. | | |



APPENDIX F: DUST MONITORING EQUIPMENT CALIBRATION CERTIFICATE



創新科儀有限公司

| | | Site | Information | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------|--------------------------------|--------------|--------|
| | Fung Kai Liu Yun Sum | | | 5. | 01.5 | 2001 |
| Location: | Memorial School | Site ID: | A10 | Date: | 01-Dec-2 | 2021 |
| Serial No: | 1049 | Model: | TE-5170X | Operator: | Casey I | Lau |
| | | | | | | |
| Corrected Pres | ssure (mm Hg): | 766.1 | tent Conditio | | 290.3 | |
| Corrected Fres | saire (mm 11g). | 700.1 | Temperature (| ucg K). | 290.3 | , |
| | | Calib | ration Orific | e | | |
| Model: | | 1 | ΓΕ-5028A | Slope: | 1.6455 | 4 |
| Serial No.: | | | 3702 | Intercept: | -0.0036 | 58 |
| Calibration Du | e Date: | | 3-Aug-21 | Corr. Coeff: | 0.9997 | 75 |
| | | ~ | | | | |
| Plate or | In,H2O | | bration Data a, X-Axis | I, CFM | IC, Y-A | \ vic |
| Test # | (in) | + | m3/min) | (chart) | (correct | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1.54 | | 0.770 | 31.5 | 32.08 | |
| 2 | 2.33 | | 0.947 | 34.4 | 35.00 | |
| 3 | 3.53 | | 1.164 | 38.1 | 38.72 | |
| 4 | 4.73 | | 1.346 | 40.6 | 41.34 | , |
| 5 | 5.74 | 1.484 | | 42.9 | 43.60 |) |
| Sampler Calibta | ation Relationship (Qa on x-ax | s, IC on y-ax | ris) | | | |
| m= | 16.1064 | b= | 19.7527 | _ | Corr. Coeff= | 0.9996 |
| San | npler set point(SSP) | 39 | CFM | | | |
| | , | | | | | |
| | | (| Coloulations | | | |
| | t(H2O(Pa/Pstd)(Tstd/Ta))-bl | (| Calculations m = sampler s | lope | | |
| Qstd = 1/m[Sqr | t(H2O(Pa/Pstd)(Tstd/Ta))-b] estd)(Tstd/Ta)] | (| Calculations m = sampler s b = sampler ir | • | | |
| Qstd = 1/m[Sqr | | (| m = sampler s | ntercept | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/F Qstd = standar | std)(Tstd/Ta)] d flow rate | (| m = sampler s b = sampler ir l = chart respo Tav = average t | ntercept onse emperature | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/P Qstd = standar IC = corrected (| std)(Tstd/Ta)] d flow rate chart response | (| m = sampler s b = sampler ir l = chart respo | ntercept onse emperature | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/F Qstd = standar IC = corrected (I = actual chart | d flow rate chart response response | (| m = sampler s b = sampler ir l = chart respo Tav = average t | ntercept onse emperature | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/F Qstd = standar IC = corrected of I = actual chart m = calibrator | d flow rate chart response cresponse Qstd slope | (| m = sampler s b = sampler ir l = chart respo Tav = average t | ntercept onse emperature | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/F Qstd = standar IC = corrected of I = actual chart m = calibrator b = calibrator | d flow rate chart response cresponse Qstd slope | | m = sampler s b = sampler ir l = chart respo Tav = average t | ntercept onse emperature | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/F Qstd = standar IC = corrected (I = actual chart m = calibrator b = calibrator Ta = actual tem | d flow rate chart response cresponse Qstd slope Qstd intercept | deg K) | m = sampler s b = sampler ir l = chart respo Tav = average t | ntercept onse emperature | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/F Qstd = standar IC = corrected (I = actual chart m = calibrator b = calibrator Ta = actual tem | std)(Tstd/Ta)] d flow rate chart response response Qstd slope Qstd intercept sperature during calibration (mossure during calibration (mossur | deg K) | m = sampler s b = sampler ir l = chart respo Tav = average t | ntercept onse emperature | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/Pa/Pa/Pa/Pa/Pa/Pa/Pa/Pa/Pa/Pa/Pa/Pa/P | d flow rate chart response cresponse Cresponse Qstd slope Qstd intercept perature during calibration (mm | deg K) | m = sampler s b = sampler ir l = chart respo Tav = average t | ntercept onse emperature | | |
| Qstd = 1/m[Sqr IC = I[Sqrt(Pa/Pa Qstd = standar IC = corrected of I = actual chart m = calibrator b = calibrator Ta = actual tem Pa = actual pre Tstd = 298 deg Pstd = 760 mm For subsequent | d flow rate chart response cresponse Cresponse Qstd slope Qstd intercept operature during calibration (mm K Hg t calculation of sampler flow: | deg K) | m = sampler s b = sampler ir l = chart respo Tav = average t | ntercept onse emperature | | |



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| H | IVOL SAMPLER | CALI | BRATION | I DATA SI | HEET (TSP |) |
|---------------------|---------------------------------------------------------|--------------|--------------------------------|--------------|--------------|---------|
| | | Site | Information | <u> </u> | | |
| Location: | Fung Kai Liu Yun Sum Memorial School | Site ID: | A10 | Date: | 17-Dec | :-2021 |
| Serial No: | 1049 | Model: | TE-5170X | Operator: | Casey | / Lau |
| | | Amb | ient Conditio | nn | | |
| Corrected Pressu | Corrected Pressure (mm Hg): | | Temperature (| | 294 | 1.7 |
| | | Calil | oration Orific | e | | |
| Model: | | | TE-5028A | Slope: | 1.64 | 554 |
| Serial No.: | | | 3702 | Intercept: | -0.00 | 368 |
| Calibration Due | Date: | | 3-Aug-21 | Corr. Coeff: | 0.99 | 975 |
| | | a 1 | | | | |
| Plate or | In,H2O | | ibration Data Qa, X-Axis | I, CFM | IC, Y | _ Δ vic |
| Test # | (in) | | (m3/min) | (chart) | (corre | |
| 1 | 1.52 | , | 0.757 | 31.1 | 31. | |
| 2 | 2.30 | | 0.931 | 34.0 | 34. | |
| 3 | 3.48 | | 1.145 | 37.6 | 37. | 89 |
| 4 | 4.66 | | 1.326 | 40.0 | 40. | 33 |
| 5 | 5.67 | 1.461 | | 42.3 | 42. | 67 |
| Sampler Calibtation | on Relationship (Qa on x-ax | s, IC on y-a | xis) | | | |
| m= | 15.8431 | b= | 19.5142 | <u> </u> | Corr. Coeff= | 0.9994 |
| Sampl | er set point(SSP) | 38 | CFM | _ | | |
| | | | Calculations | | | |
| Qstd = 1/m[Sqrt(H | H2O(Pa/Pstd)(Tstd/Ta))-b] | | m = sampler | slope | | |
| IC = I[Sqrt(Pa/Psto | d)(Tstd/Ta)] | | b = sampler i | • | | |
| Ostd = standard f | llaurrata | | I = chart resp | | | |
| IC = corrected cha | | | Tav = average Pav = average | • | | |
| I = actual chart re | • | | rav average | pressure | | |
| m = calibrator Q | | | | | | |
| b = calibrator Qs | · | | | | | |
| | erature during calibration (| | | | | |
| | ure during calibration (mm | Hg) | | | | |
| Tstd = 298 deg K | | | | | | |
| | 3 alculation of sampler flow: (298/Tav)(Pav/760)] | | | | | |
| | À. | | | _ | | |
| Checked by: _ | | | | Date: | 17-Dec | :-2021 |



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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

| _ | II VOL SAMI LEI | CILLI | DIGITION | <i>D</i> 11111 01 | ILLI (IDI) |
|-----------------------------------|------------------------------------------------------|----------|-----------------------------|-------------------|---------------------|
| | | Site | Information | | |
| Location: | Fanling Government School | Site ID: | A20 | Date: | 01-Dec-2021 |
| Serial No: | 1050 | Model: | TE-5170X | Operator: | Casey Lau |
| | | Amb | ient Conditio | n | |
| Corrected Pres | sure (mm Hg): | 766.1 | | | 290.3 |
| | | Calil | oration Orific | e | |
| Model: | | | TE-5028A | Slope: | 1.64554 |
| Serial No.: | | | 3702 | Intercept: | -0.00368 |
| Calibration Du | e Date: | | 3-Aug-21 | Corr. Coeff: | 0.99975 |
| | | Co1 | ibration Data | | |
| Plate or | In,H2O | | loration Data (a, X-Axis | I, CFM | IC, Y-Axis |
| Test # | (in) | _ | (m3/min) | (chart) | (corrected) |
| 1 | 1.55 | | 0.772 | 33.4 | 33.96 |
| 2 | 2.72 | | 1.023 | 37.4 | 38.05 |
| 3 | 3.85 | | 1.215 | 40.1 | 40.80 |
| 4 | 4.47 | | 1.309 | 41.4 | 42.10 |
| 5 | 5.04 | | 1.390 | 42.6 | 43.30 |
| | tion Relationship (Qa on x-ax | | | | |
| m= | 15.0393 | b= | 22.4750 | _ | Corr. Coeff= 0.9994 |
| Sam | pler set point(SSP) | 40 | CFM | _ | |
| | | | Calculations | | |
| | t(H2O(Pa/Pstd)(Tstd/Ta))-b] | | m = sampler s | | |
| IC = I[Sqrt(Pa/Ps | std)(Tstd/Ta)] | | b = sampler ir | | |
| 0-14 -14 | l fl t | | I = chart respo | | |
| Qstd = standard | | | Tav = average t | • | |
| IC = corrected c I = actual chart | • | | Pav = average | pressure | |
| m = calibrator | · | | | | |
| b = calibrator (| • | | | | |
| | perature during calibration (| deg K) | | | |
| | ssure during calibration (mn | | | | |
| Tstd = 298 deg k | < | | | | |
| Pstd = 760 mm | Hg | | | | |
| • | calculation of sampler flow rt(298/Tav)(Pav/760)] | : | | | |
| | à. | | | | |
| Checked by: | ٧ | | <u> </u> | Date: | 01-Dec-2021 |



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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

| ŀ | HIVOL SAMPLER | CALI. | BRATION | DATA SI | HEET (TSP) |
|------------------------------------|----------------------------------------------------------|---------------|---------------------------|--------------|---------------------|
| | | Site | Information | 1 | |
| Location: | Fanling Government School | Site ID: | A20 | Date: | 17-Dec-2021 |
| Serial No: | 1050 | Model: | TE-5170X | Operator: | Casey Lau |
| | | Amb | ient Conditio | n | |
| Corrected Pressure (mm Hg): | | 764.2 | Temperature (| deg K): | 294.7 |
| | | Calib | ration Orific | e | |
| Model: | | | ΓΕ-5028A | Slope: | 1.64554 |
| Serial No.: | | | 3702 | Intercept: | -0.00368 |
| Calibration Du | e Date: | | 3-Aug-21 | Corr. Coeff: | 0.99975 |
| | | Cali | hustian Data | | |
| Plate or | In,H2O | | bration Data a, X-Axis | I, CFM | IC, Y-Axis |
| Test # | (in) | + | m3/min) | (chart) | (corrected) |
| 1 | 1.52 | | 0.758 | 33.0 | 33.27 |
| 2 | 2.69 | | 1.007 | 37.0 | 37.34 |
| 3 | 3.79 | | 1.196 | 39.7 | 40.03 |
| 4 | 4.41 | | 1.289 | 41.0 | 41.29 |
| 5 | 5.01 | 1.374 | | 42.1 | 42.45 |
| Sampler Calibta | ation Relationship (Qa on x-ax | is, IC on y-a | cis) | | |
| m= | 14.8765 | b= | 22.1451 | _ | Corr. Coeff= 0.9991 |
| Sam | npler set point(SSP) | 40 | CFM | <u> </u> | |
| | | (| Calculations | | |
| Qstd = 1/m[Sqr | t(H2O(Pa/Pstd)(Tstd/Ta))-b] | | m = sampler s | lope | |
| IC = I[Sqrt(Pa/P | std)(Tstd/Ta)] | | b = sampler ir | | |
| | 1.0 | | I = chart respo | | |
| Qstd = standar | | | Tav = average t | | |
| IC = corrected of I = actual chart | | | Pav = average | pressure | |
| m = calibrator | | | | | |
| b = calibrator | | | | | |
| | perature during calibration (| deg K) | | | |
| Pa = actual pre | ssure during calibration (mm | Hg) | | | |
| Tstd = 298 deg | K | | | | |
| Pstd = 760 mm | Hg | | | | |
| | t calculation of sampler flow: rt(298/Tav)(Pav/760)] | | | | |
| | à.I | | | | |
| Checked by: | | | _ | Date: | 17-Dec-2021 |





RECALIBRATION DUE DATE:

August 3, 2022

Certificate of Calibration

Calibration Certification Information

Cal. Date: August 3, 2021

Calibration Model #: TE-5028A

Rootsmeter S/N: 438320

Ta: 295 Pa: 750.57 °K

Operator: Jim Tisch

Calibrator S/N: 3702

mm Hg

| Run | Vol. Init (m3) | | | ΔTime (min) | ΔP (mm Hg) | ΔH (In H2O) | |
|-----|-------------------|----|---|----------------|---------------|----------------|--|
| 1 | 1 | 2 | 1 | 1.3170 | 4.1 | 1.50 | |
| 2 | 3 | 4 | 1 | 1.0350 | 6.7 | 2.50 | |
| 3 | 5 | 6 | 1 | 0.9420 | 8.0 | 3.00 | |
| 4 | 7 | 8 | 1 | 0.8650 | 9.3 | 3.50 | |
| 5 | 9 | 10 | 1 | 0.6540 | 16.2 | 6.00 | |

| | Data Tabulation | | | | | | | | | |
|--------|-----------------|---------------------------------------------------------------------------|--------|----------|------------|--|--|--|--|--|
| Vstd | Qstd | $\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ | | Qa | √∆H(Ta/Pa) | | | | | |
| (m3) | (x-axis) | (y-axis) | Va | (x-axis) | (y-axis) | | | | | |
| 0.9922 | 0.7534 | 1.2233 | 0.9945 | 0.7552 | 0.7678 | | | | | |
| 0.9887 | 0.9553 | 1.5793 | 0.9911 | 0.9576 | 0.9913 | | | | | |
| 0.9870 | 1.0478 | 1.7300 | 0.9893 | 1.0503 | 1.0859 | | | | | |
| 0.9853 | 1.1390 | 1.8686 | 0.9876 | 1.1417 | 1.1729 | | | | | |
| 0.9761 | 1.4925 | 2.4466 | 0.9784 | 1.4960 | 1.5356 | | | | | |
| | m= | 1.64554 | | m= | 1.03041 | | | | | |
| QSTD[| b= | -0.00368 | QA | b= | -0.00231 | | | | | |
| | r= | 0.99975 | | r= | 0.99975 | | | | | |

| | Calculation | s | | | |
|-------|----------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------|--|--|
| Vstd= | ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta) | Va= | ΔVol((Pa-ΔP)/Pa) | | |
| Qstd= | Vstd/∆Time | Qa= | Va/ΔTime | | |
| | For subsequent flow rate | e 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.

Fisch Environmental, Inc. 145 South Miami Avenue village of Cleves, OH 45002 www.tisch-env.com

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









Website: www.acuityhk.com



Unit C, 11/F, Ford Glory Plaza, Nos. 57-39 Wing Hong Street, Cheung Sha Wan, Kowloon.

Tel. : (852) 2698 68 Fax.: (852) 2698 93

Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Verification Test Date: 27-Jun-21 to 1-Jul-21

Next Verification Test Date: 1-Jul-22
Unit-under-Test- Model No. Sibata LD-5R
Unit-under-Test Serial No. 761173
Our Report Refrence No. RPT-21-HVS-0003

| Standard Equipment Information | | | |
|--------------------------------|-----|-------------|------------|
| | | Tisch's TSP | Tish HVS |
| Verification Equipment Type | | HVS | Calibrator |
| Standard Equipment Model No. | | TE-517(X | TE-5028 |
| Equipment serial no. | MFC | 1049 | 1050 |
| Last Calibration Date | | 17-Jun 21 | 24-Sep-20 |
| Next Calibration Date | | 17-Aug 21 | 24-Sep-21 |

| Verification | Date | | Time | | K-Factur | Counts/ Minute (R) | Total Counts | 75P S/.mple | Dust Concentration (ug/m3), (C) |
|--------------|-----------|---------------------|----------------------------|------------------|----------|-----------------------|-----------------|-------------|---------------------------------------|
| Test No. | | Start-time End-time | Elapsed ime (in min) | K-Factor (K-C/R) | x-axis | (IC) | JS No. | y axis | |
| 1 | 27/6/2021 | 125,4.37 | 1257.37 | 180.00 | 0.00119 | 27.90 | 2652 | R210872/1 | 33.33 |
| 2 | 27/6/2021 | 1'.58 44 | 1261.44 | 180.00 | 0.00090 | 61.70 | 1539 | R210872/2 | 59.26 |
| 3 | 27/6/2021 | 1 262.31 | 1265.31 | 193.00 | 0.00097 | 10.00 | 1983 | R210872/3 | 9.72 |
| 4 | 1/7/2021 | 1. 65.8 1 | 1268.84 | 180.00 | 0 00093 | 78.30 | 2313 | R210887/1 | 73.15 |
| 5 | 1/7/2021 | 12(9.10 | 1272.10 | 180.00 | 0.00096 | 14.40 | 1407 | R210887/2 | 13.89 |
| 6 | 1/7/2021 | 1272.50 | 1275.50 | 1.50.00 | 0.00084 | 28.50 | 1299 | R210887/3 | 24.07 |
| | | | | | 0.00098 | | | | |

K-Factor to be inputted in LD-5R (corrected 1 decimal point):

1.0

By Linear Regression of y on x:

slope, mh= 0.9280 intercept,ch= 1.4222

Corr lation Coemicion R= 0.9917

Verification Test Result: Strong Correlation, Results were accepted.

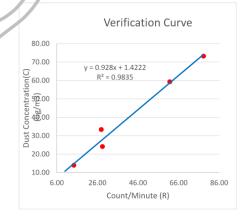
* If the Correlation Coefficient, R is <0.5. Checking and

Re-verification are required

Verified By:

Technical Manager

Date: 20-07-2021









Website: www.couityh

Unit C, 11/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowlcon.

Tel.: [852] 2698 6855 Fox.: [852] 2698 9583

Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Verification Test Date: 27-Jun-21 to 1-Jul-21

Next Verification Test Date: 1-Jul-22
Unit-under-Test- Model No. Sibata LD-5R
Unit-under-Test Serial No. 761174
Our Report Refrence No. RPT-21-HVS-0004

| Standard Equipment Information | | |
|--------------------------------|----------------------|--------------|
| Verification Equipment Type | Tisch's T | Tish HVS |
| verification Equipment Type | HVS | Calibrator |
| Standard Equipment Model No. | TE-517 | X TE-5028 |
| Equipment serial no. | MFC 104) | 1050 |
| Last Calibration Date | 17-Jur -2 | 24-Sep-20 |
| Next Calibration Date | 17-Au -2 | 21 24-Sep-21 |

| Verification Test No. | Date | | Time | | K-Factor | Counts/ Minute (R) | Total Counts | iSP Sample | Dust Concentration (ug/m3), (C) |
|--------------------------|-----------|-------------|---------|-----------------------------|------------------|-----------------------|-----------------|------------|---------------------------------------|
| | | Start-tim.e | Fd-ume | Elapsed Time (in min) | K-Factor ("=C/R) | x-axis | (IC) | | y axis |
| 1 | 27/6/2021 | 17 54 57 | 1257.37 | 180.00 | 0.00098 | 34.00 | 6120 | R210872/1 | 33.33 |
| 2 | 27/6/2021 | 1 258 .44 | 1261.44 | 180.00 | 0.00035 | 62.33 | 11220 | R210872/2 | 59.26 |
| 3 | 27/6/2021 | 262 31 | 1265.31 | 150.00 | 0.00122 | 8.00 | 1440 | R210872/3 | 9.72 |
| 4 | 1/7/2021 | 1265.24 | 1268.84 | 180.00 | 0.00100 | 73.33 | 13200 | R210887/1 | 73.15 |
| 5 | 1/7/2021 | 1259.10 | 1272.10 | 180.00 | 0.00116 | 12.00 | 2160 | R210887/2 | 13.89 |
| 6 | 1/7/2021 | 127∠ 50 | 1275.50 | 180.00 | 0.00103 | 23.33 | 4200 | R210887/3 | 24.07 |
| | | | | | 0.00106 | | | | |

K-Factor to be inputted in LD-5R (corrected 1 decimal point):

By Linear Regression of y on x:

slope, mh= 0.9476 intercept,ch= 1.9320

*Correlation Coemiciant R= 0.9989

Verification Test Result: Strong Correlation, Results were accepted.

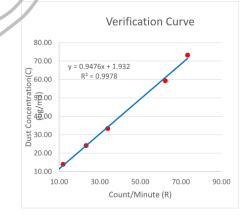
* If the Correlation Coefficient, R is <0.5. Checking and

Re-verification are required

Verified By:

Technical Manager

Date: 20-07-2021





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 香港新界葵涌永業街1-3號忠信針織中心11樓

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 獲香港認可應根據ISO/IEC 17025:2017認可 進行戰於認可範圍內下逃測試類別中的指定實驗所活動

Environmental Testing

環境測試

This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communiqué). 此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並

實施一套與實驗所運作相關的營理體系 (見國際認可論項、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of HKAS 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

SHUM Wai-leung, Executive Administrator

執行幹事 沈偉良 Issue Date: 28 February 2020

簽發日期:二零二零年二月二十八日

Registration Number : HOKLAS 066

註冊號碼:

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 本館書按照香港認可處訂立的條款及條件發出

L001934





Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此間明

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

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 獲香港認可處根據ISO/IEC 17025:2017認可 进行截於認可範圍內下巡測試類別中的指定實驗所活動

Environmental Testing

環境測試

This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communiqué).

此项 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並 實施一套與實驗所逐作相談的管理體系 (見國際認可論達、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of HKAS 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

SHOM Well-leung, Executive Administrator 執行幹事 沈偉良

Issue Date: 2 December 2019 簽發日期:二零一九年十二月二日

註冊號碼:

Registration Number: HOKLAS 241

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

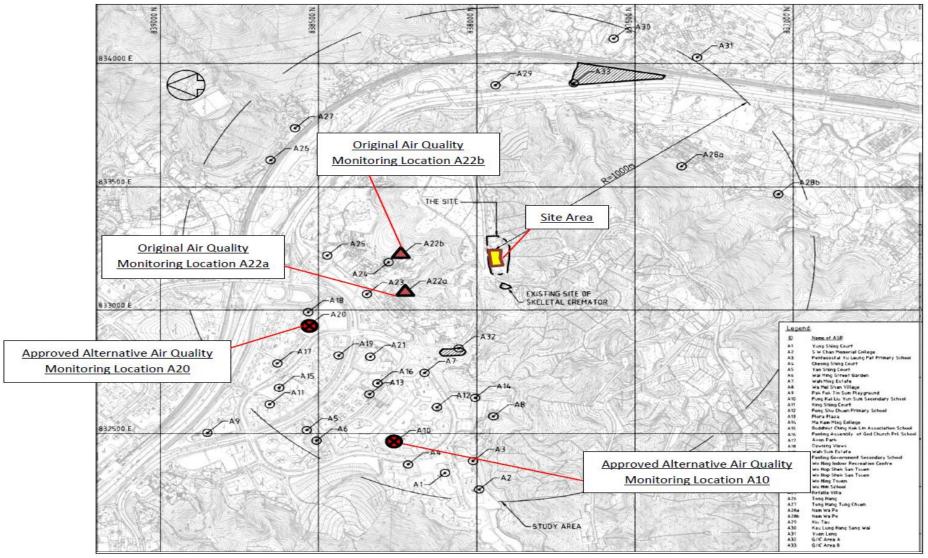
This certificate is issued subject to the terms and conditions laid down by HKAS 本證書授閱書潛認可處訂立的經散及條件發出

L001875



APPENDIX H: LOCATION PLAN OF AIR QUALITY MONITORING STATION







APPENDIX I: AIR QUALITY MONITORING DATA



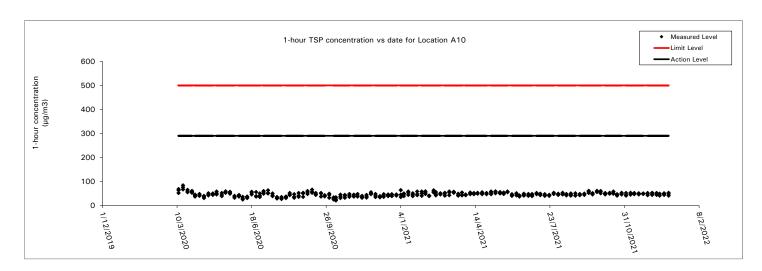
The Summary of 1-hour TSP Concentration ($\mu g/m^3$) at A10

| Date | Weather | Sampling Time (1) | Sampling Time (2) | Sampling Time (3) | Reading (1) | Reading (2) μg/m ³ | Reading (3) μg/m³ | Average μg/m³ |
|------------|---------|----------------------|----------------------|----------------------|-------------|----------------------------------|----------------------|------------------|
| 1/12/2021 | Sunny | 14:08 | 15:08 | 16:08 | 43 | 49 | 52 | 48 |
| 7/12/2021 | Sunny | 10:21 | 11:21 | 12:21 | 44 | 53 | 48 | 48 |
| , , | Sullily | 10:21 | 11:21 | | 44 | | 40 | 40 |
| 13/12/2021 | Sunny | 13:04 | 14:04 | 15:04 | 49 | 52 | 44 | 48 |
| 17/12/2021 | Fine | 09:54 | 10:54 | 11:54 | 41 | 49 | 48 | 46 |
| 23/12/2021 | Sunny | 9:55 | 10:55 | 11:55 | 44 | 51 | 49 | 48 |
| 29/12/2021 | Sunny | 9:56 | 10:56 | 11:56 | 41 | 53 | 48 | 47 |

Average 1-hour TSP: 48

Max.: 53

Min.: 41





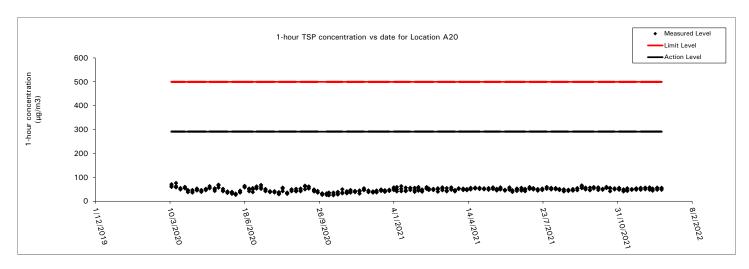
The Summary of 1-hour TSP Concentration (µg/m³) at A20

| | | | <u>, , </u> | | 2011 (P08/ 111) tri | _ | | |
|------------|---------|----------------------|-----------------------------------------------|----------------------|----------------------|----------------------|----------------------|------------------|
| 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 |
| 1/12/2021 | Sunny | 13:29 | 14:29 | 15:29 | 48 | 53 | 56 | 52 |
| 7/12/2021 | Sunny | 9:48 | 10:48 | 11:48 | 50 | 57 | 56 | 54 |
| 13/12/2021 | Sunny | 13:32 | 14:32 | 15:32 | 53 | 58 | 48 | 53 |
| 17/12/2021 | Fine | 09:20 | 10:20 | 11:20 | 44 | 53 | 49 | 49 |
| 23/12/2021 | Sunny | 9:27 | 10:27 | 11:27 | 48 | 57 | 55 | 53 |
| 29/12/2021 | Sunny | 9:27 | 10:27 | 11:27 | 48 | 56 | 53 | 52 |

Average 1-hour TSP: 52

Max.: 58

Min.: 44

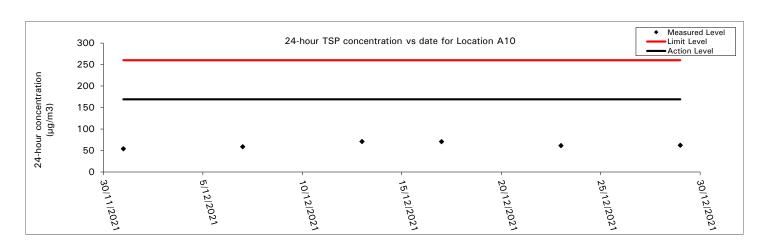




| Date of Calibration: | 01-Dec-21 | Slope = | 16.1064 |
|-----------------------|-----------|-------------|---------|
| Calibration due date: | 14-Dec-21 | Intercept = | 19.7527 |
| Date of Calibration: | 17-Dec-21 | Slope = | 15.8431 |
| Calibration due date: | 30-Dec-21 | Intercent = | 19 5142 |

| | | | | | | | | | | Gairbraci | on auc autc. | 30 D | CC D I | micrept - | 17.5112 |
|------------|----------------------|---------|-----------|--------------|-----|-----------|------|-----------------|--------------------------------|-----------|---------------------------|----------|---------------|-----------------------|---------|
| Start Date | Weather Condition | E | lapse Tim | ie | Ch | art Readi | ng | Avg Air Temp | Avg Atmospheric Pressure | Flow Rate | Standard Air Volume | Filter W | eight (g) | Particulate weight | Conc. |
| | Condition | Initial | Final | Actual (min) | Min | Max | Avg | (°C) | (mm Hg) | (m³/min) | (m³) | Initial | Final | (g) | (μg/m³) |
| 01/12/2021 | Sunny | 8146.0 | 8170.0 | 1440.0 | 38 | 39 | 38.5 | 17.3 | 766.1 | 1.21 | 1750 | 2.7570 | 2.8515 | 0.0945 | 54 |
| 07/12/2021 | Sunny | 8170.0 | 8194.0 | 1440.0 | 38 | 39 | 38.5 | 19.9 | 765.7 | 1.20 | 1732 | 2.7815 | 2.8832 | 0.1017 | 59 |
| 13/12/2021 | Sunny | 8194.0 | 8218.0 | 1440.0 | 39 | 39 | 39.0 | 19.4 | 766.2 | 1.24 | 1783 | 2.7849 | 2.9111 | 0.1262 | 71 |
| 17/12/2021 | Fine | 8218.4 | 8242.4 | 1440.0 | 38 | 39 | 38.5 | 21.7 | 764.2 | 1.23 | 1765 | 2.7858 | 2.9106 | 0.1248 | 71 |
| 23/12/2021 | Sunny | 8242.4 | 8266.4 | 1440.0 | 39 | 40 | 39.5 | 19.9 | 762.6 | 1.29 | 1860 | 2.7436 | 2.8578 | 0.1142 | 61 |
| 29/12/2021 | Sunny | 8266.4 | 8290.4 | 1440.0 | 39 | 40 | 39.5 | 18.4 | 767.4 | 1.31 | 1892 | 2.7626 | 2.8802 | 0.1176 | 62 |

Min: 54 Max: 71 Avg: 63

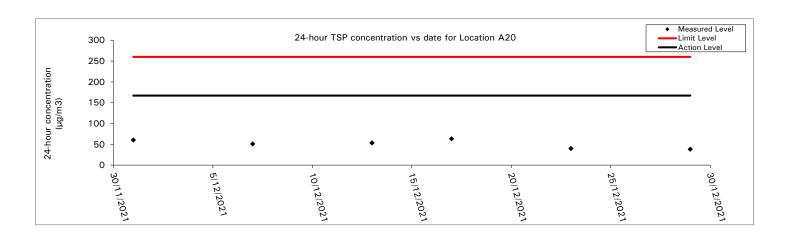




Date of Calibration: Slope = 15.0393 01-Dec-21 14-Dec-21 22.4750 Calibration due date: Intercept = Slope = **Date of Calibration:** 17-Dec-21 14.8765 Calibration due date: 30-Dec-21 22.1451 Intercept =

| | | | | | | | | | | Calibratio | ii due date. | ת-טכ | CC-Z1 | miercept – | 22.1431 |
|------------|-----------|---------|-----------|--------------|-----|-----------|------|-----------------|--------------------------------|------------|---------------------------|----------|-----------|-----------------------|---------|
| Start Date | Weather | E | lapse Tim | ne | Ch | art Readi | ng | Avg Air Temp | Avg Atmospheric Pressure | Flow Rate | Standard Air Volume | Filter W | eight (g) | Particulate weight | Conc. |
| | Condition | Initial | Final | Actual (min) | Min | Max | Avg | (°C) | (mm Hg) | (m³/min) | (m³) | Initial | Final | (g) | (μg/m³) |
| 01/12/2021 | Sunny | 8410.9 | 8434.9 | 1440.0 | 40 | 40 | 40.0 | 17.3 | 766.1 | 1.22 | 1760 | 2.7841 | 2.8905 | 0.1064 | 60 |
| 07/12/2021 | Sunny | 8434.9 | 8458.9 | 1440.0 | 39 | 40 | 39.5 | 19.9 | 765.7 | 1.17 | 1691 | 2.7715 | 2.8577 | 0.0862 | 51 |
| 13/12/2021 | Sunny | 8458.9 | 8482.9 | 1440.0 | 39 | 40 | 39.5 | 19.4 | 766.2 | 1.18 | 1697 | 2.7729 | 2.8637 | 0.0908 | 53 |
| 17/12/2021 | Fine | 8483.2 | 8507.2 | 1440.0 | 40 | 40 | 40.0 | 21.7 | 764.2 | 1.23 | 1771 | 2.7677 | 2.8798 | 0.1121 | 63 |
| 23/12/2021 | Sunny | 8507.2 | 8531.2 | 1440.0 | 39 | 40 | 39.5 | 19.9 | 762.6 | 1.20 | 1726 | 2.7457 | 2.8149 | 0.0692 | 40 |
| 29/12/2021 | Sunny | 8531.2 | 8555.2 | 1440.0 | 39 | 40 | 39.5 | 18.4 | 767.4 | 1.22 | 1761 | 2.7554 | 2.8225 | 0.0671 | 38 |

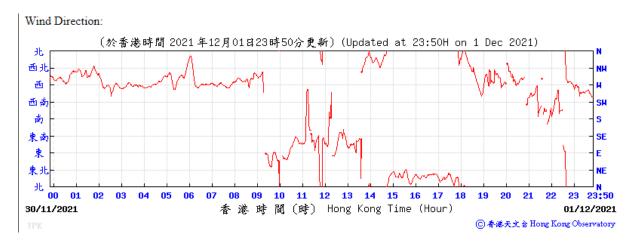
Min: 38 Max: 63 Avg: 51

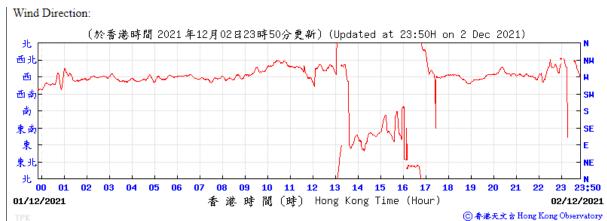




Wind direction data for 01, 07, 13, 17, 23 and 29 December 2021

A. 01/12/2021:







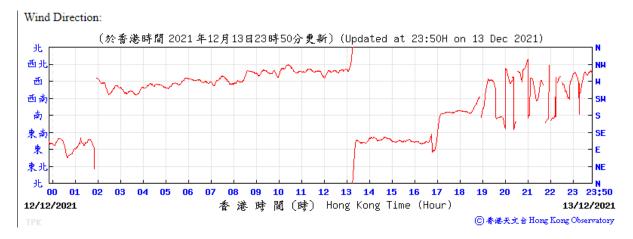
B. 07/12/2021:







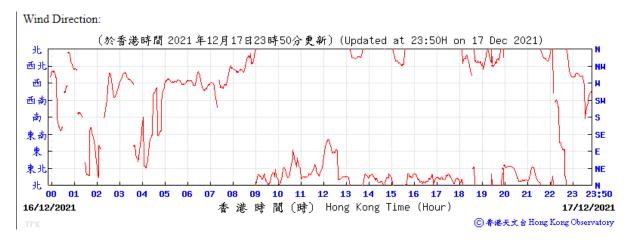
C. 13/12/2021:

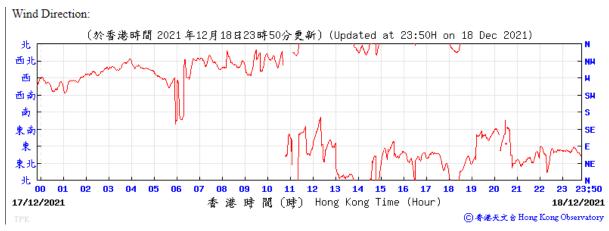






D. 17/12/2021:







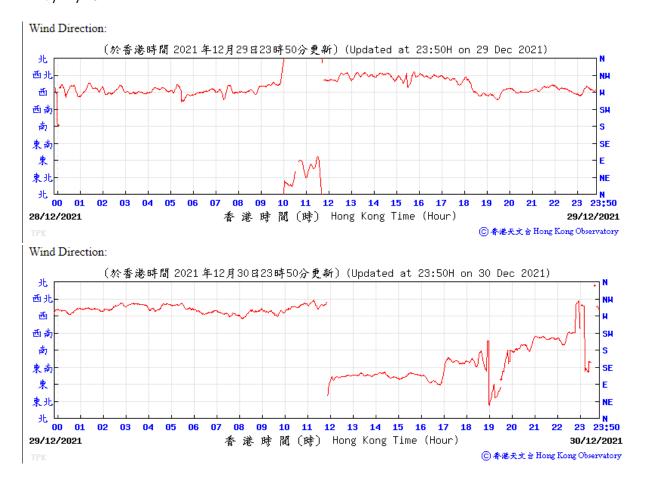
E. 23/12/2021







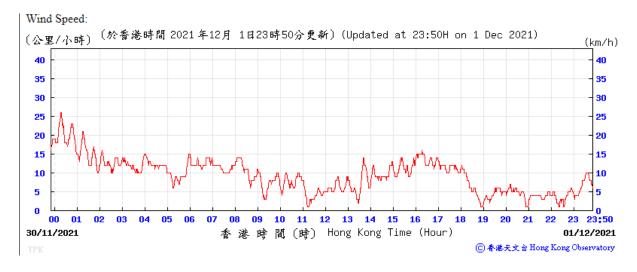
F. 29/12/2021

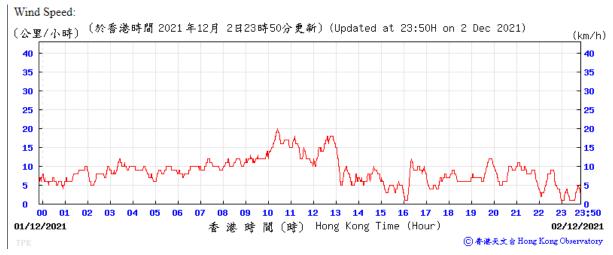




Wind speed data for 01, 07, 13, 17, 23 and 29 December 2021

A. 01/12/2021:

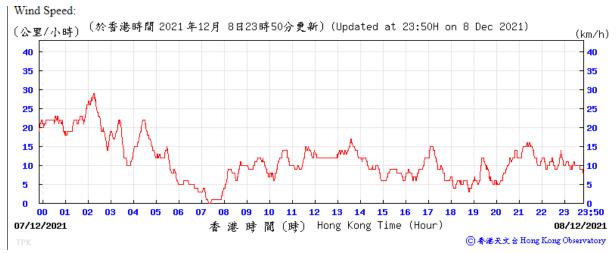






B. 07/12/2021:







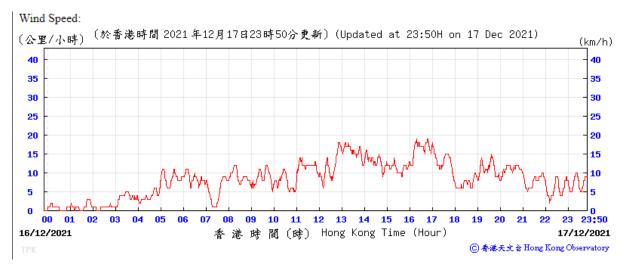
C. 13/12/2021:

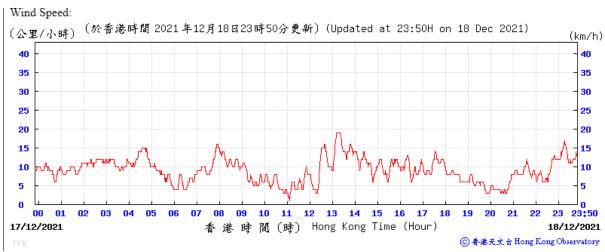






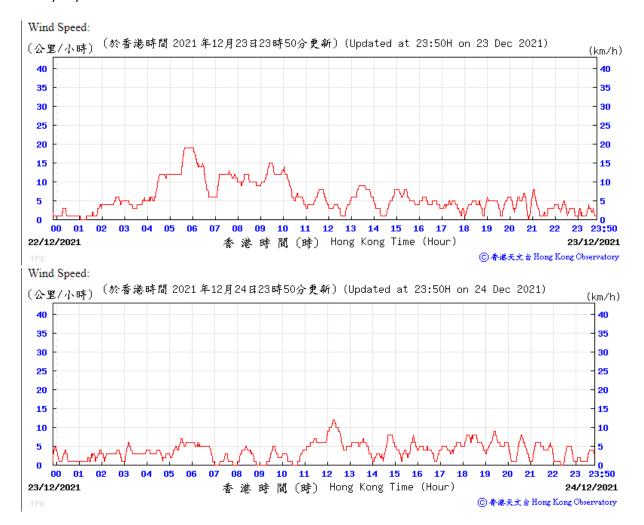
D. 17/12/2021:





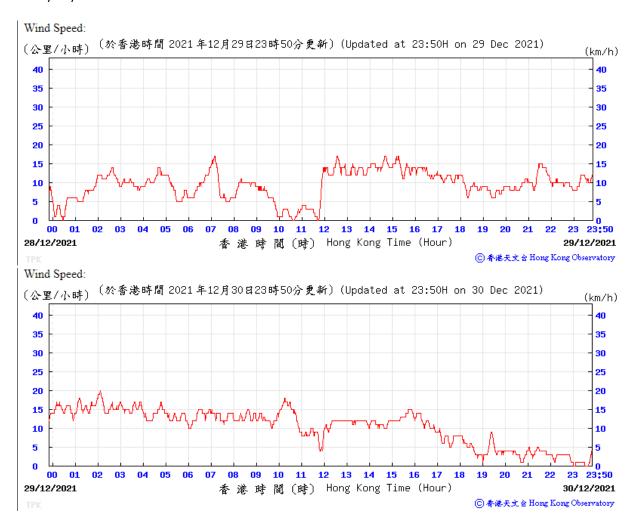


E. 23/12/2021





F. 29/12/2021





APPENDIX J: WASTE FLOW TABLE



| | | Actual Qua | ntities of Ine | rt C&D Mateı | rials Generat | ed Monthly | Actual | Quantities of | f C&D Wastes | Generated M | Ionthly |
|-----------------|--------------------------------|----------------------------------------------|------------------------------|--------------------------------|-------------------------------|------------------|-------------|-----------------------------------|------------------------|-------------------|-----------------------------------|
| 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 | 1472.9 | 0 | 614.00 | 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 |
| July 2020 | 4.95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.95 |
| August 2020 | 308.99 | 0 | 0 | 0 | 306.38 | 0 | 0 | 0 | 0 | 0 | 2.61 |
| September 2020 | 31.11 | 0 | 0 | 0 | 22.38 | 0 | 0 | 0 | 0 | 0 | 8.73 |
| October 2020 | 18.08 | 0 | 0 | 0 | 14.33 | 0 | 0 | 0 | 0 | 0 | 3.75 |
| November 2020 | 1.42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.42 |
| December 2020 | 16.99 | 0 | 0 | 0 | 14.88 | 0 | 0 | 0 | 0 | 0 | 2.11 |



| | | Actual Qua | ntities of Ine | rt C&D Mateı | rials Generat | ed Monthly | Actual | Quantities of | C&D Wastes | Generated M | Ionthly |
|-----------------|--------------------------------|----------------------------------------------|------------------------------|--------------------------------|-------------------------------|------------------|-------------|-----------------------------------|------------------------|-------------------|-----------------------------------|
| 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) |
| January 2021 | 25.87 | 0 | 0 | 0 | 22.12 | 0 | 0 | 0 | 0 | 0 | 3.75 |
| February 2021 | 2.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.00 |
| March 2021 | 3.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.79 |
| April 2021 | 7.40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.40 |
| May 2021 | 8.30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8.30 |
| June 2021 | 11.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11.12 |
| July 2021 | 19.70 | 0 | 0 | 0 | 7.73 | 0 | 0 | 0 | 0 | 0 | 11.97 |
| August 2021 | 20.29 | 0 | 0 | 0 | 14.95 | 0 | 0 | 0 | 0 | 0 | 5.34 |
| September 2021 | 219.20 | 0 | 0 | 0 | 214.71 | 0 | 0 | 0 | 0 | 0 | 4.49 |
| October 2021 | 23.59 | 0 | 0 | 0 | 14.62 | 0 | 0 | 0 | 0 | 0 | 8.97 |
| November 2021 | 59.40 | 0 | 0 | 0 | 52.88 | 0 | 0 | 0 | 0 | 0 | 6.52 |
| December 2021 | 14.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14.85 |



Remarks: The major excavation works were conducted in April and May 2020, approximately 1675.55 tonnes of inert excavated materials were generated. 614 tonnes of excavated materials were stored in the material storage area for the subsequent backfilling. Due the limited space and the construction of basement and other substructure works, the remaining 1061.55 tonnes of excavated material were delivered to public fill reception facilities. Some minor excavation works may be conducted in the later work processes.

Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22 Waste to Landfill (December 2021):



| 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 | 02/12/21 | NP7*6 | 7032841 | 24458022 | 09:35 | 10:04 | 1.2 | 18.94 | 14.98 | 3.96 |
| NENT | 04/12/21 | NP7*6 | 7032841 | 24458023 | 14:52 | 15:16 | 1.36 | 16.49 | 15.13 | 1.36 |
| NENT | 11/12/21 | LA5*81 | 7032841 | 24458024 | 15:01 | 15:31 | 1.24 | 19.31 | 15.79 | 3.52 |
| NENT | 20/12/21 | NP7*6 | 7032841 | 24458025 | 13:44 | 14:08 | 0.85 | 16.51 | 15.15 | 1.36 |
| NENT | 29/12/21 | LA5*81 | 7032841 | 24458026 | 09:36 | 10:02 | 1.1 | 20.41 | 15.76 | 4.65 |
| | | | | | | | | Grand | Total: | 14.85 |

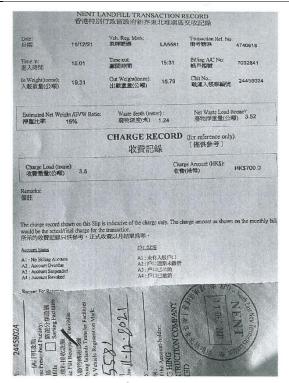


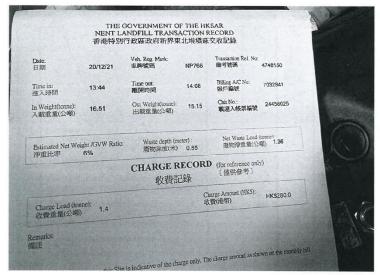
| Date: 日期 | 02/12/21 | Veh. Reg. Mark: 車牌號碼 | NP766 | Transaction Ref. No 備考號碼 | 4731778 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|--------------------------------|--------------------|
| Time in: 進入時間 | 09:35 | Time out: 雞開時間 | 10:04 | Billing A/C No: 帳戶編號 | 7032841 |
| in Weight(tonne): 入載重量(公噸) | 18.94 | Out Weight(tonne): 出載重量(公頃) | 14.98 | Chit No.: 載運入帳票編號 | 24458022 |
| Fatimated Net Wei 淨重比率 | ght /GVW Ratio: 16% | Waste depth (met 廢物深度(米) | cr): 1.2 | Net Waste Load (to 廢物淨重量(公啤 | |
| | | CHARGE RE | | (for reference only) 〔僅供參考〕 | |
| 200 10 1000 | | 收費記述 | | | |
| Charge Load (tons 收費重量(公噸) | ne): | | | e Amount (HK\$): | HK\$800.0 |
| Remarks: 葡註 | | | 収賞 | (港幣) | 11,3600.0 |
| Remarks: 葡註 ne charge record she vald be the actual/fi 元本的收費記錄只 | own on this Slip is inal charge for the | indicative of the charge ransaction. 費以月結單爲準。 | | (क्षार) | |
| Remarks: 葡苣 ne charge record she could be the actual/fi | own on this Slip is inal charge for the | ransaction. | | (क्षार) | |
| temarks: 簡註 me charge record sh orda be the actual/fi from no me actual/fi from no me actual/fi sanjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, so | own on this Slip is iral charge for the 供参考,正式收 | ransaction. 曹以月結單爲準 | only. The cha | (क्षार) | |
| temarks: 簡註 me charge record sh orda be the actual/fi from no me actual/fi from no me actual/fi sanjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, sonjulose, so | own on this Slip is iral charge for the 供参考,正式收 | ransaction. 曹以月結單爲準。 | only. The cha | (क्षार) | n the monthly bill |
| Remarks: 衛註 ne charge record sh ord to the actual/fi rrac的收費記錄只 ccount Status | o Fred lines on this Slip is that charge for the 供養者。正式故 watter market and the same fred the same f | ransaction. 曹以月結單爲準。 | only. The cha | rge amount as shown o | 188201 189200 op |

THE GOVERNMENT OF THE HKSAR NENT LANDFILL TRANSACTION RECORD 香港特別行政區政府新界東北堆填區交收記錄

| | 04/12/21 | Veh. Reg. Mark: 車牌號碼 | NP766 | Transaction Ref. No 備考號碼 | 4734302 |
|------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|------------------------------------------------|--------------------------------|--------------------|
| Time in: 進入時間 | 14:52 | Time out: 羅開時間 | 15:16 | Billing A/C No: 帳戶編號 | 7032841 |
| In Weight(tonne): 入載重量(公噸) | 16.49 | Out Weight(tonne): 出載重量(公噸) | 15.13 | Chit No.: 載運入帳票編號 | 24458023 |
| Estimated Net Wei 滑重北率 | ight /GVW Ratio: 6% | Waste depth (nuete 廢物深度(米) | r): 1.36 | Net Waste Load (to 廢物淨重量(公哨 | |
| | | CHARGE RE 收費記録 | | (for reference only) 〔僅供參考〕 | |
| Charge Load (ton 收費重量(公期) | | | Charg 收費 | te Amount (HKS): (港幣) | IK\$280.0 |
| would be the actual/fi | mal charge for the | indicative of the charge e | only. The cha | rge amount as shown or | the monthly bill |
| The charge record sh would be the actual/fi 听示的收費記錄只 Account Status | mal charge for the | ransaction. | only. The cha | rge amount as shown er | the monthly bill |
| would be the actual/fi 所示的收費記錄只 Account Status | mal charge for the | transaction. 費以月結單爲準。 | only. The cha | rge amount as shown or | de monthly bill |
| would be the actual/in | inal charge for the l 供参考、正式收 | ransaction. 費以月結單爲準。 戶口批及 | | rge amount as shown er | de monthly till |
| would be the actual/in 所示的收費記錄只 Account Status | inal charge for the l 供参考、正式收 | ransaction. 費以月結單爲準。 戶口批及 | e Generated Site: | rge amount as shown on | o the monthly bill |
| would be the actualiny 所示的收費記錄只 Account Status ### Account Status ### Account Status ### Account Status | mal charge for the | ransaction. 費以月結單爲準。 戶口批及 | Construction Waste Generated Site: WO HOP SHEK | rge amount as shown en | _5 |











Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22



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

Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspec | ction Date: Dec | 2021 | Inspected b | y: | ET: | Johnny | Kwone | A | AR: _ | L. Wong | _ |
|---------|-----------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------|--------|---------------|--------|---------------------------------------|---|
| Inspec | ction Time: 10 _ 0 (|) | | Contra | actor: | MY | Wone | _ 11 | EC: _ | | _ |
| Weatl | her | | | | | | | | | | |
| Condi | ition Sunny | ☐ Fine | □ Overcast | □ Drizzle | | ☐ Rain | n | ☐ Stor | m | □ Hazy | |
| Temp | erature <u>187</u> ℃ | | | Humidity | | ☐ Hig | h | □Mo | derate | □ Low | |
| Wind | □ Calm | Light | ☐ Breeze | ☐ Strong | | | | | | | |
| | T | | | | | | | | | | |
| | Environmental Mitigatio | n Measures | | | N/A* | N/O* | Yes* | No* | | Photo/Remarks | į |
| 1.00 | Air (Construction Phase) | | New York Control of the Control of t | | | | | | | | |
| 1.01 | Vehicle washing facilities | (including a high | pressure water jet) wer | re provided at | П | П | | П | | | |
| | every discernible or design | nated vehicle exit po | oint. | | | | | | | | |
| 1.02 | Road between the washin | | e exit point is paved v | with concrete, | | | | | _ | | |
| | bituminous or hardcore ma | | | # F | | | | | | | |
| 88 9321 | Every main haul road is p | | | | | _ | -/ | | | | |
| 1.03 | metal plates, and kept clear | | • | s and areas are | ш | Ш | | ш | _ | | _ |
| | sprayed with water to keep | | | | | | | | | | |
| | Stockpile of dusty material | 0.770 | | | | | | | | | |
| 1.04 | a) covered entirely by imp | | | | | | | | | | |
| 1.04 | b) placed in an area shelte | | | tain the autine | | Ц | | ш | _ | | |
| | c) sprayed with water or a surface wet. | a dust suppression (| memical so as to main | tain the entire | | | | | | | |
| | Exposed earth is properly to | reated by compactic | n hydroseeding veget | ation planting | | | | | - | ***** | |
| 1.05 | or seating with latex, viny | | | 2000 | П | П | | \neg | | | |
| 1.00 | activity on the site or part of | Services Inc. | | - vonou avenon | | ш | ب | _ | _ | | _ |
| | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 1.06 | Water is sprayed to all dust | ty materials before | loading or transfer open | ration. | | | P | | _ | | |
| | Any debris is covered er | ntirely by impervi | ous sheeting or stored | d in a debris | | _ | | | | | |
| 1.07 | collection area sheltered or | the top and the thr | ee sides. | | | | LY. | | _ | | |
| | | | | | | | | | | | |
| 1.08 | Water is sprayed to debris | before it is dumped | into a chute. | | Ш | П | 14 | ш | - | | _ |
| 1.09 | Vehicles for transporting | dusty materials/sp | oils are covered with | tarpaulin or | | | M | | | | |
| 1.09 | similar material. The cover | extends over the e | dges of the sides and ta | ilboards. | ш | Ц | | | _ | | |
| | Water is sprayed immediate | ely to the working a | area for uprooting of tre | ees, shrubs, or | | | 1 | | | | |
| 1.10 | vegetation or the removal | of boulders, pole, | pillars before, during | and after the | | | \Box | | _ | | |
| | operation. | | - | | | | | | | | |
| 1.11 | Workers at all levels are co | -operative to avoid | dust generation and dis | spersion to the | | | abla | | | | |
| | surrounding environment. | | | | | | | | | | |
| 2.00 | Noise (Construction Phas | se) | 40 | | | | 200 0 | W No appropri | | | |



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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 | | | d | | | | | |
| | serviced during the construction works | | | - | | | | | |
| 2.02 | Plant used intermittently is turned off or throttled down when not in active use. | | | \square | | | | | |
| 2.03 | Plant that emits noise strongly in one direction is oriented to face away from NSRs. | | | Ø | | | | | |
| 2.04 | Silencers, mufflers and enclosures for plant are applied where possible and maintained adequately throughout the works | | | P | | | | | |
| 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. | | | P | | | | | |
| 2.07 | Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works. | | | P | | | | | |
| 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). | | | 6 | | | | | |
| 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. | | | 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. | | | 6 | | | | | |
| 4.07 | Training of site personnel in proper waste management and chemical waste handling procedures. | | | 6 | | | | | |



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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? | | | Ø | | |
| 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? | | | Þ | | |
| 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. | | | 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. | | | 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. | | | 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. | | | Ø | | |
| 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. | | | Ø | | |
| 4.21 | Are individuals or companies who deliver public fill to public filling areas obtained dumping licences? | | | P | | |



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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. | | | 7 | | |
| 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. | | | P | | |
| | 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. | | | P | | |
| 4.28 | Are unused chemicals or those with remaining functional capacity reused as far as practicable? | | | Ø | | |
| 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. | | | Þ | | |
| 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 | | | | |
| 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? | Ø | | | | site handing mas removed but the plentic harrier has been in |
| 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? | | | Ø | | |
| 5.07 | Are all construction plants removed from site upon completion of construction works? | Ø | | | | The custodin none has not been conflicted yet. |
| 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? | | | | | |
| 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. | | | Ø | | |
| 5.12 | The rooftop of the cremation plant room is planted with lawn. | | | | | plenter |
| 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. | | | 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 | | | | has appleted |
| 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. | | | 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. | | | P | | |
| 5.19 | The chimney stack is designed to locate at the least conspicuous location of the site to VSRs. | | | 7 | | |



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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 more |
| 5.23 | Is amenity planting for open spaces included in the Project? | Ø | | | | No plantie nork |
| 5.24 | Is screen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road carried out? | d | | | | No plenting 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? | | | P | | |
| 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. | | | P | | |
| 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. | Ø | | | | No excavatia none |
| 6.05 | Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion. | Ø | | | | No exantin nock |
| 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 | | | | No expanction mark |
| 6.08 | Open stockpiles of construction materials on site are covered with tarpaulin or similar fabric during rainstorms. | | | Ø | | |



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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. | | | Ø | | |
| | Oil interceptor is provided in the drainage system and regularly emptied to | | - | | 6 | |
| 6.10 | prevent the release of oil and grease into the storm drainage system after | | П | | | |
| | accidental spillage. | - | _ | | _ | |
| | Debris and rubbishes generated on site are collected, handled and disposed of | | | | / | |
| 6.11 | properly to avoid them entering the two streams. | | | Ø | | |
| | 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 | | | | | · |
| | largest tank. | | | | | |
| (12 | Open storm water drains and culverts near the works area are covered to block the | | | | | |
| 6.13 | entrance of large debris and refuse. | | Ш | | Ш | |
| | Portable chemical toilets handle the sewage from construction work force if the | | (4) | | | |
| 6.14 | existing toilets in the Site are not adequate. Licensed contractors who are | П | П | | П | |
| 0.14 | responsible for appropriate disposal and maintenance of these facilities provide | | Ш | 7 | Ш | |
| | appropriate and adequate portable toilets. | | | | | |
| | Sheet piling is provided at suitable location around the basement excavation to | | | | | |
| 6.15 | reduce the effect of lowering the water table from any dewatering process. Any | | | | | No sundates was senerated. |
| | discharge of groundwater pumped out from any dewatering process of the | | | П | П | was observated. |
| 0.13 | construction works is treated to comply with the standards set in the relevant | | ш | ш | ш | Jefford 1 |
| | discharge licence prior discharge. No discharge of the groundwater is allowed into | ÷ | | | | |
| | the two streams. | | | | | |
| 7.00 | Ecology (Construction Phase) | | | | | |
| 7.01 | Any affected trees are transplanted to grassland / scrubland within the Wo Hop | П | | П | П | |
| | Shek Cemetery. | | | | _ | |
| 7.02 | Temporary accesses to the work sites are carefully planned and located to | | П | | | |
| | 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. | | | / | | |
| 7.05 | Any spillages that do occur are quickly identified and appropriately cleaned up | Ø | | | | No spillage occured |
| | before they can contaminate streams or groundwater. | 1 | | 107 | | de a detur |
| 7.06 | Basement formation or any construction activities likely to pump out a large | | | | | No gindinal. |
| 7.06 | quantity of groundwater are protected with sheet-piling at suitable locations | | Ш | Ц | Ш | was therefore. |
| | around the basement footprint, or by any like method. | | | | | No grandvett |
| 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. | ď | | | | nas penerate! |
| | integrity of the stream natival and the associated organism. | | | | | J |



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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. | | | 7 | | |
| 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. | | | Ø | | |
| 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. | | | Ø | | |
| 7.14 | Works area is reinstated immediately after completion of the construction. | Ø | | | | The construction work 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. | | | Ø | | |
| 7.16 | Trees requiring transplantation or protection are identified based on the information illustrated in the Tree Survey Report. | | | Ø | | |
| 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? | | | P | | |
| 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. | | | ď | | |
| 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; | Þ | | | | |
| 7.20 | Compensatory planting of the felled trees follows the Technical Circular No. 3/2006 issued by ETWB. | Ø | | | | No plenting 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. | | | Ø | | |
| 7.23 | Stockpiling of construction materials, are covered and located away from the streams and nearby habitats. | | | d | | - |
| 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. | | | 6 | | - |
| 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. | | | 4 | | |
| 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 Wo | eekly Site Inspection: | |
|-----------------------------------------------------------------------|-----------------------------|----------------------|
| Observation (S): | | |
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| Reminder (S) = - House keeping should be maintain | (Jan) | |
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| Note: Figure 4,5 regarding to displayed at the entrance of | Clarke 3.000 | 01 103 22 1 |
| Note of the entrance of | the site. | |
| displayed at | | |
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| | | |
| Signatures: | Anahitaatla | IEC'lo |
| ET Contractor's Representative Representative | Architect's Representative | IEC's Representative |
| | , | • |
| VV Los |) (Name: WONG) | |
| (Name: Johnny Knong) (Name: n. T. ylon6 |) (Name: Lewonh | (Name: |



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Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspection Date: 0 RC 2021 | Inspected by: | : | ET: | John | Kwoho | _ A | AR: L. Wong |
|---------------------------------------------------------|---------------------------|---------------|--------|-------|--------|--------|----------------|
| Inspection Time: 09-30 | | Contra | actor: | M.Y. | Wong | _ 11 | ec: Hilton Tam |
| Weather | | | | |) | | |
| Condition Sunny Fine | □ Overcast | □ Drizzle | | □ Rai | n | ☐ Stor | rm 🗆 Hazy |
| Temperature 23.2 °C | | Humidity | | ☐ Hig | h | □ Mo | derate |
| Wind □ Calm □ Light | ☐ Breeze | ☐ Strong | | | | | |
| | | | | | | | |
| Environmental Mitigation Measures | | | N/A* | N/O* | Yes* | No* | Photo/Remarks |
| 1.00 Air (Construction Phase) | | | | - | | | |
| Vehicle washing facilities (including a high pro | essure water jet) were | provided at | | | / | | |
| 1.01 every discernible or designated vehicle exit point | ıt. | | | | Ø | | |
| Road between the washing facilities and the | | th concrete | | | | | |
| 1.02 bituminous or hardcore material. | | | | | D | | |
| Every main haul road is paved with concrete, | hituminaus bardaars | motorials or | | | | | |
| 1.03 metal plates, and kept clear of dusty materials. O | | | | | | | |
| | • | nd areas are | Ш | | Ы | ш | - |
| sprayed with water to keep the entire road surface | ll 80 | | | | | | |
| Stockpile of dusty material including demolished | d items is either: | | | | | | |
| a) covered entirely by impervious sheeting, 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 che | emical so as to maintai | in the entire | | | | | |
| surface wet. | and the same | | | | | | |
| Exposed earth is properly treated by compaction, | hydroseeding, vegetati | ion planting | | | / | | |
| 1.05 or seating with latex, vinyl, bitumen within six | months after the last of | construction | | | \Box | | |
| activity on the site or part of the site where the e | xposed earth lies. | | | | | | |
| 1.06 Water is sprayed to all dusty materials before loa | ding or transfer energy | ion | | | \Box | | |
| water is sprayed to all dusty materials before loa | ding of transfer operat | ion. | | ш | 4 | _ | |
| Any debris is covered entirely by impervious | s sheeting or stored | in a debris | | | | | |
| collection area sheltered on the top and the three | sides. | | Ц | ш | | | |
| 1.08 Water is sprayed to debris before it is dumped in | to a abuta | | | | | | |
| water is sprayed to debris before it is dumped in | to a chute. | | Ц | Ц | | | |
| Vehicles for transporting dusty materials/spoil | s are covered with t | arpaulin or | | | | | |
| similar material. The cover extends over the edge | es of the sides and tailb | ooards. | | Ц | 4 | | |
| Water is sprayed immediately to the working are | a for uprooting of trees | s, shrubs, or | | | / | | |
| 1.10 vegetation or the removal of boulders, pole, pi | llars before, during ar | nd after the | | | Ø | | |
| operation. | | | | | | | |
| Workers at all levels are co-operative to avoid du | st generation and dispe | rsion to the | | | | | |
| surrounding environment. | | | Ш | Ш | | 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 serviced during the construction works. | | | Ø | | | | | |
| 2.02 | Plant used intermittently is turned off or throttled down when not in active use. | | | d | | | | | |
| 2.03 | Plant that emits noise strongly in one direction is oriented to face away from NSRs. | | | Ø | | | | | |
| 2.04 | Silencers, mufflers and enclosures for plant are applied where possible and maintained adequately throughout the works | | | P | | | | | |
| 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. | | | P | | | | | |
| 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) | Welve one | | | | | | | |
| 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). | | | D | | | | | |
| 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. | | | 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. | | | 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? | | | 6 | | |
| 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? | | | d | | |
| 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. | | | 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. | | | 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. | | | P | | |
| 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. | | | p | | |
| 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. | | | Ø | | |
| 4.21 | Are individuals or companies who deliver public fill to public filling areas obtained dumping licences? | | | p/ | | |



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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. | | | Þ | | |
| 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. | | | Þ | | |
| 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. | | | Ø | | |
| | Chemical Waste | | | | | |
| 4.25 | Contractor registers with the EPD as chemical waste producer if any chemical waste is generated | | | d | | |
| 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. | | | Ø | | |
| 4.28 | Are unused chemicals or those with remaining functional capacity reused as far as practicable? | | | Ø | | |
| 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 | | |
| 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? | Þ | | | | |
| 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 | | |
| | | | | | | Water - West |



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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 | | | | site hoanting was remad but the plastic barrier has been in |
| 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? | | | Ø | | |
| 5.07 | Are all construction plants removed from site upon completion of construction works? | Ø | | | | |
| 5.08 | Are construction lights oriented away from the viewing location of VSRs? | | | P | | |
| 5.09 | Are all lightings facing sensitive receiver installed with frosted diffusers and reflective covers? | | | Þ | | |
| 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. | | | Ø | | |
| 5.12 | The rooftop of the cremation plant room is planted with lawn. | Ø | | | | hann his not bean |
| 5.13 | New trees, shrubs and groundcover are carefully selected and designed to homogenize with the environment. | Ø | | | | No plenting work |
| 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 | | | | My thous long work |
| 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. | | | | | |
| 5.18 | The chimney has been designed to have sculptural outlook and articulated. It is kept in proportion with the rest of the building. | | | 7 | | |
| 5.19 | The chimney stack is designed to locate at the least conspicuous location of the site to VSRs. | | | Ø | | |
| | | | | | | |



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| 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 plant. 221 Are silting traps installed to minimize silting to streams? 222 Is the tree compensation to tree loss ratio at least 1.1 in term of quantity? 222 About 100 trees will be planted on silting and others, in locations within the vicinity approved by the Architect 223 Is amenity planting for open spaces included in the Project? 224 Is streem planting such as planting a roll of trees along the site boundary butting Kin Tau Road carried out? 225 Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Voodland mix, comprising of tree seedlings and shrubs, are planted within the Voodland mix of the Voodland with the Voodland wi | | Environmental Mitigation Measures | N/A* | N/O* | Yes* | No* | Photo/Remarks |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-----|--------------------|
| 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 \$4 trees. 100 trees will be planted on site and others, in locations within the vicinity approved by the Architect 523 Is amenity planting for open spaces included in the Project? 524 Is screen planting such as planting a roll of trees along the site boundary butting Kin Tau Road arriand out? Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the Cook Woodland mix, comprising of tree seedlings and shrubs, are planted within the Cook Woodland mix, comprising of tree seedlings and shrubs, are planted within the Cook Woodland mix, comprising of tree seedlings and shrubs, are planted within the Cook Woodland mix, comprising of tree seedlings and shrubs, are planted within the Cook Woodland mix, comprising of tree seedlings and shrubs, are planted within the Cook Woodland mix, comprising to the description of the Cook Woodland mix, comprising to the description of the Cook Woodland mix, comprising to the description of the Cook Woodland mix, comprising to the description of the Cook Woodland mix, comprising to the Cook Woodland mix, comprising to the Cook Woodland mix, comprising to the | 5.20 | within and outside the works area of the Project, or otherwise if the | | | P | | |
| About 100 trees will be planted to compensate for the loss of \$4 trees. 100 trees will be planted on site and others, in locations within the vicinity approved by the Architect 5.23 Is amenity planting for open spaces included in the Project? 5.24 Is serveen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road carried out? Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. 5.25 We Hop Shek Cemetery to enhance the ecological value and compensatory of tree loss. 5.26 Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians? 6.09 Water Quality (Construction Phase) 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. 6.01 Perimeter channels are provided to intercept storm runoff from outside the site. The channels are constructed in advance of site formation works and earthworks. 6.02 Sand/slit 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. 6.05 Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion. 6.06 Exposed soil surfaces are protected by crushed gravel and exposed slope surfaces are protected when rainstorms are likely to occur. 6.07 Temporary access roads are protected by crushed gravel and exposed slope surfaces are protected when rainstorms are likely to occur. | 5.21 | Are silting traps installed to minimize silting to streams? | | | Ø | | · |
| Is screen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road carried out? Woodland mix, comprising of tree seedlings and shrubs, are planted within the Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss have been loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted within the loss. Woodland mix, comprising of tree seedlings and shrubs, are planted to enter the two freeduces and sick are provided to minimise soil excavation works and earthworks. Woodland mix and ard under the WPCO. Works are carefully programmed to minimise soil excavation works during rainy seasons. Woodland mix and 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. Woodland mix and are provided to reduce the potential of soil crossion. Woodland mix and are provided to reduce the potential of soil crossion. Woodland mix and are provided to red | 5.22 | 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 | Ø | | | | |
| butting Kiu Tau Road carried out? 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. 1 sthe 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians? 6.00 Water Quality (Construction Phase) 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. 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. 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 | 5.23 | Is amenity planting for open spaces included in the Project? | Ø | | | | |
| S.25 Wo Hop Shek Cemetery to enhance the ecological value and compensatory of tree loss. S.26 Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians? S.26 Water Quality (Construction Phase) Water Quality (Construction Phase) Water Pollution Control Ordinance (WPCO) discharge licence. No direct 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. S. 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 crosion. Temporary access roads are protected by crushed gravel and exposed slope surfaces are protected when rainstorms are likely to occur. Trench excavation is avoided in the wet season as far as practicable, and if necessary, these trenches are excavated and backfilled in short sections. Open stockpiles of construction materials on site are covered with tarpaulin or | 5.24 | | Ø | | | | No planting work |
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| 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 surfaces are protected when rainstorms are likely to occur. Trench excavation is avoided in the wet season as far as practicable, and if necessary, these trenches are excavated and backfilled in short sections. Open stockpiles of construction materials on site are covered with tarpaulin or | 6.03 | provided to remove sand/silt particles from runoff to meet the requirements of the | | | Ø | | |
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| 6.08 | 6.07 | | P | | | | No execution non |
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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

| 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 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 properly to avoid them entering the two streams. All fuel tanks and storage areas are 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. 6.13 Open storm water drains and culverts near the works area are covered to block the 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 responsible for appropriate disposal and maintenance of these facilities provide appropriate and adequate portable toilets. Sheet pilling is provided at suitable location around the basement excavation to reduce the effect of lowering the water table 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. 7.00 Ecology (Construction Phase) Any affected trees are transplanted to grassland / scrubland within the Wo Hop Shek Cemetery. Temporary accesses to the work sites are carefully planned and located to minimise disturbance caused to the streams and nearby habitats. 7.01 Less or smaller construction plants are used to reduce disturbance to the nearby habitats. 7.02 Temporary accesses to the work sites are carefully maintained and properly used to minimise the chance for accidental spillage. 8. Sheet pilling is that do occur are quickly identified and appropriately cleaned up before they can contaminate streams or groundwater. 8. Basement formation or any c | | Environmental Mitigation Measures | N/A* | N/O* | Yes* | No* | Photo/Remarks |
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| 7.07 | | around the basement footprint, or by any like method. | | | | | No aponducta |
| integrity of the stream habitat and the associated organism. | 7.07 | No groundwater is pumped back to the two stream courses to protect the natural | | | | | No granducta |



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

| | 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. | | | P | | |
| 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. | | | Ø | | |
| 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. | | | Ø | | |
| 7.14 | Works area is reinstated immediately after completion of the construction. | Ø | | | | The construct nak. |
| 7.15 | Uncontrolled burning of refuse is strictly prohibited. Appropriate fire control measures are provided in order to protect nearby habitats. | | | | | |
| 7.16 | Trees requiring transplantation or protection are identified based on the information illustrated in the Tree Survey Report. | | | Ø | | |
| 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. | | | 6 | | |
| 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; | P | | | | |
| 7.20 | Compensatory planting of the felled trees follows the Technical Circular No. 3/2006 issued by ETWB. | Ø | | | | 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. | | | d | | |
| 7.23 | Stockpiling of construction materials, are covered and located away from the streams and nearby habitats. | | | P | | |
| 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. | | | d | | |
| 7.26 | Proper locations for discharge outlets of any wastewater treatment facilities well away from the streams and nearby habitats are identified. | | | Ø | | |
| 7.27 | Vehicles and other plant are carefully maintained and properly used to minimise the chance for accidental spillage. | | | D | | |
| 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. | | | Þ | | |
| 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 |) and Non-compliance(s) o | f Last Weekly Site Ir | spection: | |
|-------------------------------------|---------------------------|-----------------------|------------|--------------------|
| Observation (S): | | | | |
| - Chemical material | should be | placed on | drip tray | |
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| 2 2 1 (1) | | | | |
| Reninder (5): | | | | |
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| | | | | 2 21 |
| Note: Figure 4,5 at the entrance | regarding to | clause 3 | .6 of EP h | as been displayed |
| Note: I guare | of the site. | | | |
| at the entrance | 0- | | | |
| | | | | |
| | | | | <i>e</i> . |
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| | | | | |
| | | | | |
| Signatures: | | : | | |
| ET ET | Contractor's | Archite | ct's | IEC's |
| Representative | Representative | Represe | | Representative |
| | | | | <u> </u> |
| | Inter | | Lh Ok | 72 |
| (Name: Johns Kurs) | (Name: M.Y. WODE |) (Name: | Liwonl) | (Name: Hottan TAM) |



Inspection Date: 15 Dec 2021

Acuity Sustainability Consulting Limited

* Y.C. Chui

AR:

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ET: Johns Knohe

Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspec | tion Tim | ne: ():00 | | | Contra | ictor: | MXXM | Jane 3 | IE | C: _ | / | |
|--------|-----------|-------------------------|-----------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-----------|---------|----------|---------------|---|
| Weath | ier | | | | | | | | | | | |
| Condit | tion | Sunny | ☐ Fine | □ Overcast | ☐ Drizzle | | ☐ Rai | n | ☐ Storn | m | ☐ Hazy | |
| Tempe | erature | 241 ℃ | | | Humidity | | ☐ Hig | ;h | □Mod | erate | □ Low | |
| Wind | | □ Calm | Light | □ Breeze | ☐ Strong | | | | | | | |
| | | | | | | | | | | | | |
| | Enviro | onmental Mitigatio | n Measures | | | N/A* | N/O* | Yes* | No* | | Photo/Remarks | |
| 1.00 | Air (Co | onstruction Phase) | | | | | | | | | | |
| | Vehicle | washing facilities | (including a high p | oressure water jet) wer | re provided at | | | | | | | |
| 1.01 | every d | liscernible or design | ated vehicle exit po | pint. | | Ш | Ш | | ш | _ | | _ |
| 1.02 | Road b | between the washin | g facilities and the | exit point is paved v | with concrete, | | | | | | | |
| 1.02 | bitumir | nous or hardcore ma | terial. | | | Ш | | | | - | | |
| | Every 1 | main haul road is p | paved with concrete | e, bituminous hardcore | e materials or | | | / | | | | |
| 1.03 | metal p | lates, and kept clear | of dusty materials. | Or unpaved haul roads | s and areas are | | | \Box | | _ | | _ |
| | sprayed | d with water to keep | the entire road sur | face wet. | | | | | | | | |
| | Stockpi | ile of dusty material | including demolish | ned items is either: | | | | | | 222.02 | | |
| | a) cov | ered entirely by imp | pervious sheeting, o | r | | | | | | | | |
| 1.04 | b) plac | ced in an area shelte | red on the top and t | he three sides, or | | | | Ø | | | | _ |
| | c) spra | ayed with water or a | dust suppression of | chemical so as to main | tain the entire | | | 1.52 | | | | |
| | surf | face wet. | | | | | | | | | | |
| | Expose | ed earth is properly to | reated by compaction | on, hydroseeding, veget | tation planting | | | / | | | | |
| 1.05 | or seati | ing with latex, vinyl | l, bitumen within s | ix months after the las | t construction | | | Ø | | - | | _ |
| | activity | on the site or part of | of the site where the | exposed earth lies. | | | | | | | | |
| 1.06 | Water i | s sprayed to all dust | v materials before | loading or transfer oper | ration | | | \square | | | | |
| 1.00 | | o opia) ca to an aust | y materials service | outing of transfer oper | | | | | | | | _ |
| 1.07 | Any de | ebris is covered er | ntirely by impervio | ous sheeting or stored | d in a debris | П | | d | | | | |
| | collecti | ion area sheltered or | the top and the thr | ee sides. | | | | | _ | | | |
| 1.08 | Water i | s sprayed to debris l | before it is dumped | into a chute. | | | | Ø | | | | |
| | | | | | | | | | | | | |
| 1.09 | | | | oils are covered with | or setting allowed the second | | | \square | | - | | |
| | | | | dges of the sides and ta | | | | | | | 1117 | |
| | | | | area for uprooting of tre | The state of the s | | | 1 | | | | |
| 1.10 | | | of boulders, pole, | pillars before, during | and after the | Ш | Ш | | | _ | | _ |
| | operation | | | | | | | | | | | |
| 1.11 | | | operative to avoid | dust generation and dis | spersion to the | | | | | | | _ |
| | | nding environment. | | | | | | 6727 | | 10000900 | | |
| 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. | | | | | |
| 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. | | | Ø | | |
| 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. | | | 7 | | |
| 3.00 | Land Contamination (Construction Phase) | | | | | |
| | N/A to the Phase III development | | · | | | |
| 4.00 | Waste Management (Construction Phase) | - PH-4116 | | | | |
| 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). | | | Ø | | |
| 4.02 | A billing account with EPD for disposal of construction waste is obtained. | | | P | | |
| 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. | | | Ø | | |
| 4.07 | Training of site personnel in proper waste management and chemical waste handling procedures. | | | d | | |



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|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------------|-----|---------------|
| 4.08 | Is routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors conducted? | | | Ø | | |
| 4.09 | Are sufficient waste disposal points and regular collection for disposal provided? | | | \(\sigma'\) | | |
| 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? | | | | | |
| 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. | | | 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. | | | 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. | | | d | | |
| 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. | | | ď | | |
| 4.19 | Is reuse of the public fill and C&D waste practiced on site as far as practicable? | | | d | | |
| 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. | | | Ø | | |
| 4.21 | Are individuals or companies who deliver public fill to public filling areas obtained dumping licences? | | | 76 | | - |



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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|-----|---------------|
| 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. | | | Ø | | |
| | Chemical Waste | | | | | |
| 4.25 | Contractor registers with the EPD as chemical waste producer if any chemical waste is generated | | | P | | |
| 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. | | | P | | |
| 4.27 | Principles of reuse and recycle chemical waste on site as far as practicable is adopted by the contractor. | | | Þ | | |
| 4.28 | Are unused chemicals or those with remaining functional capacity reused as far as practicable? | | | Ø | | |
| 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 | | |
| 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? | | | P | | |
| 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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|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-----|---------------------------------------------------------------------------|
| 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 | | | | site boarding was bennied but the plastic burnier has bea in use |
| 5.05 | Are construction plants and building materials orderly and carefully stored to appear neat and avoid visibility from outside where practical? | | | d | | |
| 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? | Ø | | | | No plentiles 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? | | | d | | |
| 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. | | | Ø | | |
| 5.12 | The rooftop of the cremation plant room is planted with lawn. | d | | | | planted |
| 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. | | | 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 | | | | All thee plantly nonk was completed |
| 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. | | | 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. | | | P | | |
| 5.19 | The chimney stack is designed to locate at the least conspicuous location of the site to VSRs. | | | Ø | | |
| | | | | | | |



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|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-----|--------------------|
| 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 plating nork. |
| 5.24 | Is screen planting such as planting a roll of trees along the site boundary butting Kiu Tau Road carried out? | d | | | | No plentie norte |
| 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. | 7 | | | | No planting work |
| 5.26 | Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians? | | | Ø | | |
| 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. | | | 7 | | |
| 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. | | | Ø | | |
| 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. | Ø | | | | No exaction work |
| 6.05 | Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion. | d | | | | No examplion nort |
| 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 | | | | No expanction work |
| 6.08 | Open stockpiles of construction materials on site are covered with tarpaulin or similar fabric during rainstorms. | | | Ø | | |



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|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-----|--------------------------------|
| 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. | | | 6 | | |
| 6.10 | Oil interceptor is provided in the drainage system and regularly emptied to prevent the release of oil and grease into the storm drainage system after accidental spillage. | | | Ø | | |
| 6.11 | Debris and rubbishes generated on site are collected, handled and disposed of properly to avoid them entering the two streams. | | | 6 | | |
| 6.12 | All fuel tanks and storage areas are 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. | | | ø | | |
| 6.13 | Open storm water drains and culverts near the works area are covered to block the entrance of large debris and refuse. | | | Ø | | |
| 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. | | | Ø | | |
| 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. | Ø | | | | No grandiates vas generated |
| 7.00 | Ecology (Construction Phase) | | | | | |
| 7.01 | Any affected trees are transplanted to grassland / scrubland within the Wo Hop Shek Cemetery. | | | Ø | | |
| 7.02 | Temporary accesses to the work sites are carefully planned and located to minimise disturbance caused to the streams and nearby habitats. | | | ď | | |
| 7.03 | Less or smaller construction plants are used to reduce disturbance to the nearby habitats. | | | Ø | | |
| 7.04 | Vehicles and other plants are carefully maintained and properly used to minimise the chance for accidental spillage. | | | Ø | | |
| 7.05 | Any spillages that do occur are quickly identified and appropriately cleaned up before they can contaminate streams or groundwater. | Ø | | | | No spillage occured |
| 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. | Ø | | | | No Srundmater was generated |
| 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. | d | | | | No Srondware nos generated |



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|------|--------------------------------------------------------------------------------------|------|------|------|-----|------------------------|
| 7.08 | Sturdy 1.8 metres protective fencings are located at the edge of the tree canopy | | | | | |
| | but not around the trunk. | | | 7 | | |
| | 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 | | | Ø | | |
| | 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 | | | | | | |
| 7.11 | Construction works are restricted within works area which are clearly defined. | | Ш | | П | - |
| 7.12 | Woodland or other habitats that are affected by the construction works are well- | | | | | |
| 7.12 | defined and minimised. | ш | Ш | u | Ц | |
| 7.12 | Human inference to habitats beyond the site boundary and habitats proposed to be | | | | | |
| 7.13 | retained are avoided by providing temporary barricades. | Ш | Ц | Д | П | - |
| | | | _ | _ | | The constricts work |
| 7.14 | Works area is reinstated immediately after completion of the construction. | | Ш | П | П | has not been completed |
| | Uncontrolled burning of refuse is strictly prohibited. Appropriate fire control | | | | _ | 1 |
| 7.15 | measures are provided in order to protect nearby habitats. | Ц | Ш | | П | |
| | Trees requiring transplantation or protection are identified based on the | | | | | |
| 7.16 | information illustrated in the Tree Survey Report. | | Ш | | П | |
| | 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 | Ш | | П | |
| | All trees are preserved as far as possible, especially species of conservation | | | | | |
| 7.18 | concern. Recommendations provided in the Tree Survey Report to mitigate | | | Ø | | |
| | 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 | 7 | _ | | _ | |
| | conducted by a suitable qualified botanist / horticulturist over a 12-month period; | | | | | |
| | Compensatory planting of the felled trees follows the Technical | | / | | | 1/ 1 15 |
| 7.20 | Circular No. 3/2006 issued by ETWB. | P | | | | No planting work |
| | The Site inside or in the proximity of the streams and nearby habitats is | | | | · | , J |
| 7.21 | temporarily isolated, by placing of sandbags or silt curtains with lead edge at the | П | | | | |
| | bottom and properly supported props, to prevent adverse impacts on these areas. | | | 4 | | |
| | octon and property supported props, to prevent adverse impacts on tilese areas. | | | | | L |



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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. | | | ď | | |
| 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. | | | P | | |
| 7.27 | Vehicles and other plant are carefully maintained and properly used to minimise the chance for accidental spillage. | | | P | | |
| 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. | | | d | | |

*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 Week | dy Site Inspection: | |
|-----------------------------------------------------|---------------------------------------|-----------------------------|----------------|
| Reminder (S) | | 9 | |
| Observation (S) | `` | | |
| Nil | | | |
| 7011 | | | |
| | | | |
| | | | |
| | | · / | |
| | | | |
| | | | |
| Remin der (S): - Chamical meter - Housekeeping sh | ich should be melitei | placed on drip to | iny |
| Note: Figuere displayed at | 4,5 regarding to | o clare 3.6 of the site. | EP has been |
| Signatures: | | | |
| ET | Contractor's | Architect's | IEC's |
| Representative | Representative | Representative | Representative |
| | Lylis | Ag. | |
| (Name: T) | (Name: 4 | (Name: 7 1 1) / 1 1) | (Name: |



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Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| | ction Date: 20 lec | 2021 | Inspected by | ': | ET: | Johnny | Knohe | | AR: | L. Wong | |
|-------|---------------------------------|------------------------|-------------------------------|---------------|--------|--------|--------------|--------|---------|--------------|----|
| Inspe | ction Time: 10 23 | · U | | Contr | actor: | K. S. | Lee | 1 | EC: _ | | |
| Weat | her | | | | | | | | | | |
| Cond | , | Fine | ☐ Overcast | □ Drizzle | | □ Ra | in | □ Sto | orm | ☐ Hazy | |
| Temp | erature <u>20.7</u> ℃ | | | Humidity | | ☐ Hig | gh | □Мо | oderate | □ Low | |
| Wind | □ Calm | Light | □ Breeze | ☐ Strong | | | | | | | |
| | 7 | | | | | | | | | | |
| | Environmental Mitigation | Measures | | | N/A* | N/O* | Yes* | No* | | Photo/Remark | ks |
| 1.00 | Air (Construction Phase) | | | | | | | | | | |
| 1.01 | Vehicle washing facilities (| including a high pro | essure water jet) were | provided at | | | | | | | |
| 1.01 | every discernible or designa | ited vehicle exit poir | nt. | | Ш | Ш | | Ш | - | | |
| 1.02 | Road between the washing | facilities and the | exit point is paved wi | ith concrete, | | | | | | | |
| 1.02 | bituminous or hardcore mate | erial. | | | Ш | Ш | | Ш | _ | | |
| | Every main haul road is pa | eved with concrete, | bituminous hardcore | materials or | | | | | | | |
| 1.03 | metal plates, and kept clear | of dusty materials. O | or unpaved haul roads a | and areas are | | | D | | _ | | |
| | sprayed with water to keep t | he entire road surfac | ce wet. | | | | | | | | |
| | Stockpile of dusty material i | ncluding demolishe | d items is either: | 10 | | | | | | | |
| | a) covered entirely by impe | rvious sheeting, or | | | | | | | | | |
| 1.04 | b) placed in an area sheltere | ed on the top and the | three sides, or | | | | | | | | |
| | c) sprayed with water or a | dust suppression che | emical so as to mainta | in the entire | | | 2 | | | | |
| | surface wet. | | 500 H. Harris (National Inc.) | | | | | | | | |
| | Exposed earth is properly tre | ated by compaction, | hydroseeding, vegetat | ion planting | | | , | | | | |
| 1.05 | or seating with latex, vinyl, | bitumen within six | months after the last of | construction | | | Ø | | _ | | |
| | activity on the site or part of | the site where the e | xposed earth lies. | | | | | | | | |
| 1.06 | Water is sprayed to all dusty | materials before los | eding or transfer operat | tion | | | | | | | - |
| 1.00 | water is sprayed to an dusty | materials before loa | uning of transfer operat | HOII. | Ш | Ш | بكر | ш | _ | | _ |
| 1.07 | Any debris is covered enti- | rely by impervious | s sheeting or stored | in a debris | | | | | | | |
| | collection area sheltered on t | he top and the three | sides. | | | | يع | | _ | | _ |
| 1.08 | Water is sprayed to debris be | fore it is dumped in | to a chute | | | | | | | | |
| | | | | | | | | | | | |
| 1.09 | Vehicles for transporting de | usty materials/spoil | s are covered with t | arpaulin or | | | | \Box | | | |
| | similar material. The cover e | xtends over the edge | es of the sides and tailb | ooards. | | | / | | | | |
| | Water is sprayed immediately | to the working area | a for uprooting of trees | s, shrubs, or | | | 1 | | | | |
| 1.10 | vegetation or the removal or | f boulders, pole, pi | llars before, during an | nd after the | | | | | | | |
| | operation. | | | | | | | | | | |
| 1.11 | Workers at all levels are co-o | perative to avoid dus | st generation and dispe | ersion to the | | | | | | | |
| | surrounding environment. | | | | | | بخر | | | | _ |
| 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 | | | \not | | |
| 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. | | | Ø | | |
| 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 | | | p | | |
| 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). | | | Ø | | |
| 4.02 | A billing account with EPD for disposal of construction waste is obtained. | | | 6 | | |
| 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. | | | 9 | | |
| 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 | | | 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? | | | Ø | | |
| 4.09 | Are sufficient waste disposal points and regular collection for disposal provided? | | | ď | | |
| 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? | | | 7 | | |
| 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. | | | 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. | | | D | | |
| 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? | | | 9 | | |
| 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. | | | Ø | | |
| 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. | | | 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. | | | Ø | | |
| | 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. | | | d | | |
| 4.27 | Principles of reuse and recycle chemical waste on site as far as practicable is adopted by the contractor. | | | Ø | | |
| 4.28 | Are unused chemicals or those with remaining functional capacity reused as far as practicable? | | | Ø | | |
| 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. | | | 7 | | |
| 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? | | | P | | |
| 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? | P | | | | site health was remined but the plastic barrier has been in use. |
| 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? | | | Ø | | |
| 5.07 | Are all construction plants removed from site upon completion of construction works? | d | | | | No planting nork. |
| 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? | | | d | | |
| 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. | | | Ø | | |
| 5.12 | The rooftop of the cremation plant room is planted with lawn. | Ø | | | | Lann has not been planted |
| 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. | | | 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 | | | | All two place to north |
| 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. | | | Ø | | |
| 5.19 | The chimney stack is designed to locate at the least conspicuous location of the site to VSRs. | | | Ó | | |



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| 20000 | 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 nork |
| 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 norte |
| 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 platis work |
| 5.26 | Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians? | | | P | | |
| 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. | | | P | | |
| 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. | | | Ø | | |
| 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 | | | | No example work |
| 6.05 | Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion. | Ø | | | | No exercation work |
| 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 | | | | No extraction mont. |
| 6.08 | Open stockpiles of construction materials on site are covered with tarpaulin or | | | | | |
| 0.08 | similar fabric during rainstorms. | | Ц | /LI | | |



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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. | | | Ø | | |
| 6.10 | Oil interceptor is provided in the drainage system and regularly emptied to prevent the release of oil and grease into the storm drainage system after accidental spillage. | | | Ø | | |
| 6.11 | Debris and rubbishes generated on site are collected, handled and disposed of properly to avoid them entering the two streams. | | | Ø | | |
| 6.12 | All fuel tanks and storage areas are 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. | | | d | | |
| 6.13 | Open storm water drains and culverts near the works area are covered to block the entrance of large debris and refuse. | | | Ø | | |
| 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. | | | Ø | | |
| 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. | 9 | | | | No groudents was generated |
| 7.00 | Ecology (Construction Phase) | | | | | |
| 7.01 | Any affected trees are transplanted to grassland / scrubland within the Wo Hop Shek Cemetery. | | | Ø | | |
| 7.02 | Temporary accesses to the work sites are carefully planned and located to minimise disturbance caused to the streams and nearby habitats. | | | Ø | | |
| 7.03 | Less or smaller construction plants are used to reduce disturbance to the nearby habitats. | | | Ø | | |
| 7.04 | Vehicles and other plants are carefully maintained and properly used to minimise the chance for accidental spillage. | | | Ø | | |
| 7.05 | Any spillages that do occur are quickly identified and appropriately cleaned up before they can contaminate streams or groundwater. | P | | | | No 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 granduata was generated |
| 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. | d | | | | No gronductor 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 | | | Q | | |
| | but not around the trunk. | | | | | |
| | Works beneath the tree canopy are avoided: If encroachment under the canopy | | | / | Av | |
| 7.09 | area is unavoidable, adequate protections are provided to ensure no damage of any | | | 9 | | |
| | 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 | | | Ó | | |
| | Landscape Architect through site inspections and approval of works. | | | | | |
| 7.11 | Construction works are restricted within works area which are clearly defined. | | | 7 | | |
| | Woodland or other habitats that are affected by the construction works are well- | | | | | |
| 7.12 | defined and minimised. | | Ш | | ш | |
| | Human inference to habitats beyond the site boundary and habitats proposed to be | | | | | |
| 7.13 | retained are avoided by providing temporary barricades. | | \Box | \mathcal{A} | | |
| | | | | | | the construction work |
| 7.14 | Works area is reinstated immediately after completion of the construction. | Ø | | | | has not been completed |
| | Uncontrolled burning of refuse is strictly prohibited. Appropriate fire control | | | | | |
| 7.15 | measures are provided in order to protect nearby habitats. | | Ш | | ш | |
| | Trees requiring transplantation or protection are identified based on the | | | | | |
| 7.16 | information illustrated in the Tree Survey Report. | | П | | ш | |
| | 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 | Щ | П | |
| | All trees are preserved as far as possible, especially species of conservation | | | / | | |
| 7.18 | concern. Recommendations provided in the Tree Survey Report to mitigate | | | Ø | | |
| | 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 | _/ | | | | Al- N I- N |
| 7.20 | Circular No. 3/2006 issued by ETWB. | | | | | 100 planting work |
| | 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. | | | 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. | | | 4 | | |
| 7.23 | Stockpiling of construction materials, are covered and located away from the streams and nearby habitats. | | | P | | |
| 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. | | | 7 | | |
| 7.26 | Proper locations for discharge outlets of any wastewater treatment facilities well away from the streams and nearby habitats are identified. | | | Ø | | |
| 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) a | and Non-compliance(s) of Last Weekly | Site Inspection: | |
|----------------------------------------|--------------------------------------|------------------|----------------|
| Observation (s): | | | |
| Nil | | | |
| | | | |
| Reminder (S): - Gernal Housekeeping | should be mainte | | |
| Note: Figure 4. displayed at the | to entrance of | clause 7.6 e8 = | ip has been |
| Signatures: | | | |
| | Contractor's | Architect's | IEC's |
| | Representative | Representative | Representative |
| (Name: Johnn Kra) (| SWW (Name: Y & CBS) | (Name: L.work) | (Name:) |



2.00

Noise (Construction Phase)

Acuity Sustainability Consulting Limited

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Contract no. AL G513 Expansion of Wo Hop Shek Crematorium

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST Inspected by: Johnny Knono Inspection Time: Weather Condition ☐ Fine □ Overcast ☐ Drizzle ☐ Rain ☐ Storm ☐ Hazy Temperature Humidity ☐ High Moderate □ Low Wind ☐ Calm ☐ Breeze ☐ Strong **Environmental Mitigation Measures** N/A* N/O* Ves* No* Photo/Remarks 1.00 Air (Construction Phase) Vehicle washing facilities (including a high pressure water jet) were provided at 1.01 every discernible or designated vehicle exit point. Road between the washing facilities and the exit point is paved with 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 surface wet. Stockpile of dusty material including demolished items is either: a) covered entirely by impervious sheeting, 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 chemical so as to maintain the entire surface wet. Exposed earth is properly treated by compaction, hydroseeding, vegetation 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 loading or transfer operation. Any debris is covered entirely by impervious sheeting or stored in a debris 1.07 collection area sheltered on the top and the three sides. 1.08 Water is sprayed to debris before it is dumped into a chute. Vehicles for transporting dusty materials/spoils are covered with tarpaulin or 1.09 similar material. The cover extends over the edges of the sides and tailboards. Water is sprayed immediately to the working area for uprooting of trees, shrubs, or 1.10 vegetation or the removal of boulders, pole, pillars before, during and after the Workers at all levels are co-operative to avoid dust generation and dispersion to the 1.11 surrounding environment.



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| Only well-maintained plant is operated on site and the plant should be regularly serviced during the construction works 2.02 Plant used intermittently is turned off or throttled down when not in active use. | | Environmental Mitigation Measures | N/A* | N/O* | Yes* | No* | Photo/Remarks |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-----|---------------|
| Plant used intermittently is named off or throttled down when not in active use. | 2.01 | Only well-maintained plant is operated on site and the plant should be regularly | | | 9 | | |
| 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. 2.07 Sockpiles 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) The necessary waste disposal permits from the appropriate authorities are obtained, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chernical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28) 4.01 A billing account with EPD for disposal of construction waste is obtained. 4.02 A billing account with EPD for disposal of construction waste is obtained. 4.03 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. 4.05 Is authorised or licensed waste hauler used to collect specific category of waste? 4.06 S Is authorised or licensed waste hauler used to collect specific category of waste? 4.07 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. | 2.02 | | | | Ø | | |
| 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. 2.07 Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works. 3.08 Land Contamination (Construction Phase) N/A to the Phase III development 4.00 Waste Management (Construction Phase) The necessary waste disposal permits from the uppropriate 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). 4.01 A billing account with EPD for disposal of construction waste is obtained. A Waste Management Plan ((MP)), 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. 4.03 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. 4.05 Is authorised or licensed waste hauler used to collect specific category of waste? 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 | 2.03 | Plant that emits noise strongly in one direction is oriented to face away from NSRs. | | | Ø | | |
| PME is well maintained and used properly on site to minimise any excessive noise generated. Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works. 3.90 Land Contamination (Construction Phase) N/A to the Phase III development 4.00 Waste Management (Construction Phase) 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). 4.01 A billing account with EPD for disposal of construction waste is obtained. 4.02 A billing account with EPD for disposal of construction waste is obtained. 4.03 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. 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. 4.05 Is authorised or licensed waste hauler used to collect specific category of waste? 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 | 2.04 | | | | Ø | | |
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| 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. Training of site personnel in proper waste management and chemical waste | 4.05 | | | | P | | |
| Training of site personnel in proper waste management and chemical waste | 4.06 | 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. | | I 🗆 | Þ | | |
| | 4.07 | Training of site personnel in proper waste management and chemical waste | | | 6 | | |



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| | Environmental Mitigation Measures | | rev. Authorisani | | | T |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|--------|-----|---------------|
| | | N/A | * N/O | * Yes* | No* | Photo/Remarks |
| 4.08 | Is routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors conducted? | | | Ø | | |
| 4.09 | Are sufficient waste disposal points and regular collection for disposal provided? | | | d | | |
| | 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? | | | 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. | | | 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. | | | 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. | | | 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. | | | Ø | | |
| 4.19 | Is reuse of the public fill and C&D waste practiced on site as far as practicable? | | | Ø | | |
| 4.20 s | 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 corrow areas for reclamation purposes and helps to reduce the pressure on landfill sites. | | | ń | | |
| .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 |
|------|---------------------------------------------------------------------------------------|------|------------|------|----------|---------------|
| -+ | 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. | | | | | |
| | 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 | | | P | | |
| 4.23 | 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 | | | 7 | | |
| 4.24 | employed by the Contractor to remove general refuse from the site, separately | | | Ø | | |
| 7.20 | 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 | | | Щ | | |
| | 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 | | | لكإ | | |
| | 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. | | Ц | لعر | | |
| | Are unused chemicals or those with remaining functional capacity reused as far a | s n | | | | |
| 4.28 | practicable? | | Ц | لكو | | |
| - | 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 | | | П | / \Box | |
| 4.29 | | | I L | 7 | ш | |
| | waste recycling plant approved by EPD. | | | | | |
| 5.00 | Dhase) | | | | | |
| | Do site offices have olive green roof and façade coating or colour that matche | | 1 - | ı K | | |
| 5.0 | | _ | , <u> </u> | | | |
| | | | 1 [| 1 7 | / _ | |
| 5.0 | Are site offices and the construction yard decommissioned after construction? | | | | | |
| | The height of site offices, including the rooftop does not exceed 10m, except | | | | /_ | |
| 5.0 | 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 | | | | site hooging was remoded but the plantic beniles has been in use. |
| 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? | | | Ø | | |
| 5.07 | Are all construction plants removed from site upon completion of construction works? | Ø | | | | No plenting 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. | | | Ø | | |
| 5.12 | The rooftop of the cremation plant room is planted with lawn. | P | | | | Lam has not been planted |
| 5.13 | New trees, shrubs and groundcover are carefully selected and designed to homogenize with the environment. | Ø | | | | No planting worls. |
| 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 | | | | All the plants made was completed |
| 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. | | | _D | | |
| 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. | | | D / | | |
| 5.19 | The chimney stack is designed to locate at the least conspicuous location of the site to VSRs. | | | 7 | | |



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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 | Þ | | | | No plentie work |
| 5.23 | Is amenity planting for open spaces included in the Project? | Ø | | | | No plenty 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 cork |
| 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 nork |
| 5.26 | Is the 10m height headroom cremation plant room half-sunken to reduce the visual impact to pedestrians? | | | Ø | | |
| 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. | | | Ø | | |
| 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 | | |
| 6.04 | Works are carefully programmed to minimise soil excavation works during rainy seasons. | Ø | | | | No execution Lork |
| 6.05 | Exposed soil surfaces are protected by paving as soon as possible to reduce the potential of soil erosion. | Ø | | | | No expanation monk |
| 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 | | | | No example mork |
| 6.08 | Open stockpiles of construction materials on site are covered with tarpaulin or similar fabric during rainstorms. | | | Ø | | |



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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 | | | Ø | | |
| | are settled out and removed before discharging into the storm drain. | | 24.52.53.83 | | | |
| 6.10 | 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 | ш | Ш | | Ш | |
| | 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. | | | 7 | | |
| | 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 | | | Ø | | |
| | largest tank. | | | | | |
| 6.13 | Open storm water drains and culverts near the works area are covered to block the | | | | | |
| 0.13 | entrance of large debris and refuse. | | | | ш | |
| | 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 | | | | | |
| 6.14 | 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 | | | | | No granduate |
| | discharge of groundwater pumped out from any dewatering process of the | / | < | | | No granduate |
| 6.15 | construction works is treated to comply with the standards set in the relevant | Д | Ш | | | was generated |
| | discharge licence prior discharge. No discharge of the groundwater is allowed into | | | | | 100 |
| | the two streams. | | | | | |
| 7.00 | Ecology (Construction Phase) | | | | | |
| | Any affected trees are transplanted to grassland / scrubland within the Wo Hop | | | / | | |
| 7.01 | Shek Cemetery. | | | Ø | | |
| | Temporary accesses to the work sites are carefully planned and located to | | | | | |
| 7.02 | minimise disturbance caused to the streams and nearby habitats. | | | Ø | | |
| | Less or smaller construction plants are used to reduce disturbance to the nearby | | | | | |
| 7.03 | habitats. | | | \Box | | |
| | Vehicles and other plants are carefully maintained and properly used to minimise | | | | | |
| 7.04 | the chance for accidental spillage. | | | Ø | | |
| | Any spillages that do occur are quickly identified and appropriately cleaned up | | | 4 | | 11 |
| 7.05 | before they can contaminate streams or groundwater. | | | | | No spillage oralle. |
| | Constitution of the Property of the Constitution of the Constituti | | | | | 1 3 |
| 7.06 | Basement formation or any construction activities likely to pump out a large | ď | | | | No Standnote |
| | quantity of groundwater are protected with sheet-piling at suitable locations | | Ш | | | was generated. |
| | around the basement footprint, or by any like method. | | | | | 11- orinduate |
| 7.07 | No groundwater is pumped back to the two stream courses to protect the natural | 6 | | | | was renerted |
| | integrity of the stream habitat and the associated organism. | () () | | | | |



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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. | | S 3 | | | |
| | 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 | | | Ø | | |
| | 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 | | | Ø | | |
| | Landscape Architect through site inspections and approval of works. | | | | | я |
| 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. | | | 7 | | |
| 7.13 | Human inference to habitats beyond the site boundary and habitats proposed to be | | | | | |
| | retained are avoided by providing temporary barricades. | | | | | To 1 15 As |
| 7.14 | Works area is reinstated immediately after completion of the construction. | Ø | | | | The constitution work has not been completed |
| 7.15 | Uncontrolled burning of refuse is strictly prohibited. Appropriate fire control | | | | | |
| 7.13 | measures are provided in order to protect nearby habitats. | | | 7 | | |
| 7.16 | Trees requiring transplantation or protection are identified based on the | П | | | | |
| 7.10 | information illustrated in the Tree Survey Report. | | | | | |
| 7.17 | Is layout of the Project carefully designed to avoid or minimize the area of habitat | | | $ \overline{} $ | | |
| 7.17 | loss and the numbers of trees to be felled? | | | | | 1 |
| | All trees are preserved as far as possible, especially species of conservation | | | | | |
| 7.18 | concern. Recommendations provided in the Tree Survey Report to mitigate | | | \Box | | |
| | 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 | Ø | | | | |
| | 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 | | | | | No plantin nork. |
| 7.20 | Circular No. 3/2006 issued by ETWB. | | | Ц | Ш | Jan Harring Market |
| | 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 | | | 7 | | |
| | 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. | | | d | | |
| 7.23 | Stockpiling of construction materials, are covered and located away from the streams and nearby habitats. | | | Þ | | |
| 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. | | | Ø | | |
| 7.27 | Vehicles and other plant are carefully maintained and properly used to minimise the chance for accidental spillage. | | | d | | |
| 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. | | | d | | |
| 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. | | | 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 Week | ly Site Inspection: | |
|-------------------------------------|--------------------------------------|----------------------------|----------------------|
| Observation (S) | | | |
| Nil | | | |
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| displayed at | t, 5 regarding to | | |
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| | | | |
| Signatures: | Contractor | A I de at- | IFO's |
| ET Representative | Contractor's Representative | Architect's Representative | IEC's Representative |
| | | | |
| | 4/2 | Az | |
| (Name: Johnny Knob a) | (Name: M. Y. MAN) | (Name: J-C-Chul Alan) | (Name:) |

Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22



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 | Environmental Complaint Statistics | | | | |
|----------------------------------------------|------------------------------------|------------|------------------|--|--|
| Period | Frequency | Cumulative | Complaint Nature | | |
| 01 December 2021 – 31 December 2021 | 0 | 0 | N/A | | |

Statistical Summary of Environmental Non-compliance

| Reporting | Environmental Non-compliance Statistics | | | | |
|----------------------------------------------|-----------------------------------------|------------|---------|--|--|
| Period | Frequency | Cumulative | Details | | |
| 01 December 2021 – 31 December 2021 | 0 | 0 | N/A | | |

Statistical Summary of Environmental Summons

| Reporting | Environmental Summons Statistics | | | | |
|----------------------------------------------|----------------------------------|------------|---------|--|--|
| Period | Frequency | Cumulative | Details | | |
| 01 December 2021 – 31 December 2021 | 0 | 0 | N/A | | |

Statistical Summary of Environmental Prosecution

| Reporting | Environmental Prosecution Statistics | | | | |
|----------------------------------------------|--------------------------------------|------------|---------|--|--|
| Period | Frequency | Cumulative | Details | | |
| 01 December 2021 – 31 December 2021 | 0 | 0 | N/A | | |

Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22



APPENDIX M: IMPACT MONITORING SCHEDULE OF NEXT REPORTING MONTH



| Impact Monitoring Schedule for Expansion of Wo Hop Shek Crematorium | | | | | | | | | |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|--|--|
| Sun | Jan-22 Sun Mon Tue Wed Thur Fri Sat | | | | | | | | |
| Sun | Mon | lue | wed | inur | FI | Sat 1 | | | |
| | | | | | | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| | | Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630 | Weekly ET site inspection and audit | | | Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630 | | | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | |
| 16 | 17 | 18 | Weekly ET site inspection and audit | 20 | Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630 | 22 | | | |
| 16 | 1/ | 18 | Weekly ET site inspection and audit | Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630 | | | | | |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 | | | |
| | | | Weekly ET site inspection and audit Air monitoring for A10, A20 for 1-hr TSP and 24-hr TSP Monitoring Time: 0900-1630 | | | | | | |
| 30 | 31 | | | | | | | | |
| | 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.

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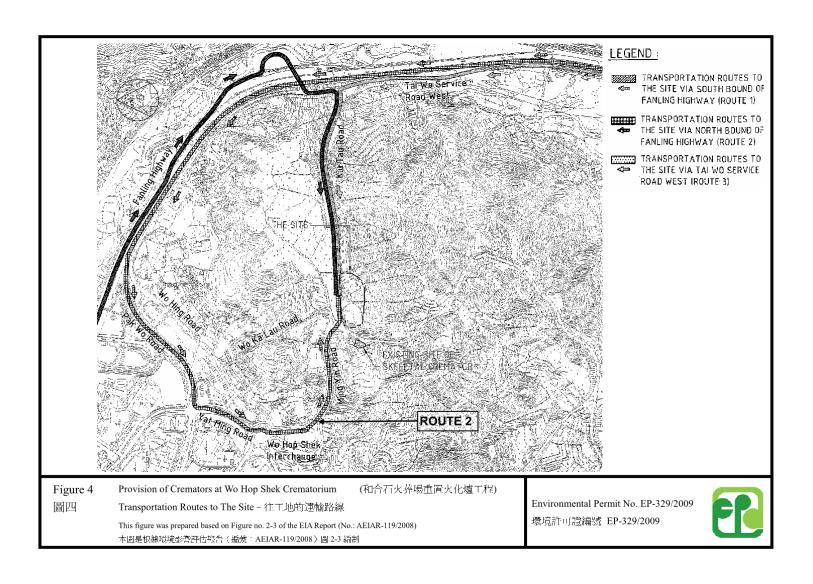
^{2.} Advance notification of the changes will be given to all relevant parties at lease 48 hours prior to implementation.

Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22

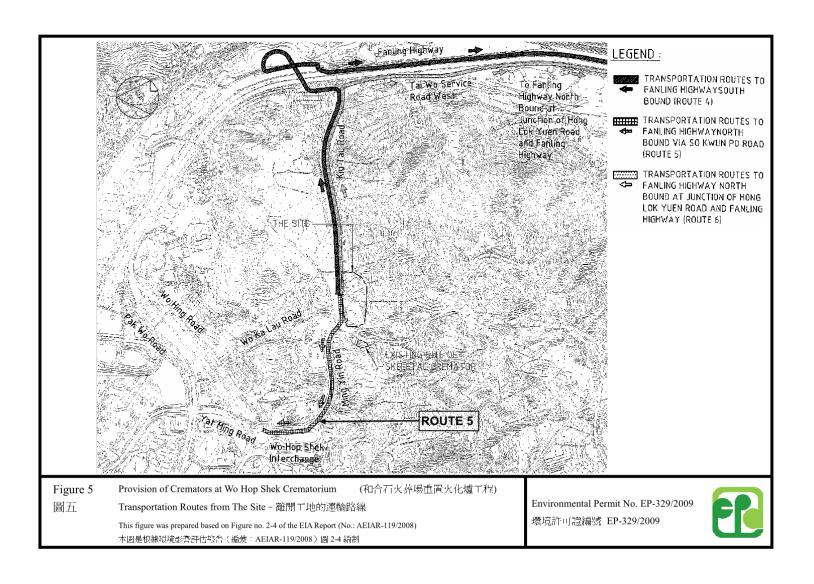


APPENDIX N: TRANSPORTATION ROUTES TO/FROM THE SITE









Contract No. AL G513 Expansion of Wo Hop Shek Crematorium Monthly EM&A Report No.22



APPENDIX O: LAB REPORT



Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

Page 1 of 2

Report Number

: Q210003aR211694

Job Number

: R211694

Issue Date

: 09/12/2021

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit E, 12/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

: R211694/1-2

Date of Sampling

: 01/12/2021

Date Received

: 01/12/2021

Test Period

: 01/12/2021 - 02/12/2021

Test Required

: Total Suspended Particulates (TSP)

Method Used

: 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



Acumen Laboratory and Testing Limited Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

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

Test Report

Page 2 of 2

Report Number

: Q210003aR211694

Job Number

: R211694

Issue Date

: 09/12/2021

Test Result:

| Lab ID | Date of Sampling | Client Sample ID | Initial Weight (g) | Final Weight (g) | Total Suspended Particulates (g) |
|-----------|------------------|----------------------------------------------|--------------------|------------------|-------------------------------------|
| R211694/1 | 01/12/2021 | Fung Kai Liu Yun Sum Memorial School | 2.7570 | 2.8515 | 0.0945 |
| R211694/2 | 01/12/2021 | Fanling Government Secondary School | 2.7841 | 2.8905 | 0.1064 |

Note:

1. < indicates less than.

2. > indicates more than.

3. NA indicates Not Applicable.

End of Report



Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

Page 1 of 2

Report Number

: Q210003aR211741

Job Number

: R211741

Issue Date

: 14/12/2021

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit E, 12/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

: R211741/1-2

Date of Sampling

: 07/12/2021

Date Received

: 07/12/2021

Test Period

: 07/12/2021 - 08/12/2021

Test Required

: Total Suspended Particulates (TSP)

Method Used

: 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



Acumen Laboratory and Testing Limited Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

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

Test Report

Page 2 of 2

Report Number

: Q210003aR211741

Job Number

: R211741

Issue Date

: 14/12/2021

Test Result:

| Lab ID | Date of Sampling | Client Sample ID | Initial Weight (g) | Final Weight (g) | Total Suspended Particulates (g) |
|-----------|------------------|----------------------------------------------|--------------------|------------------|----------------------------------|
| R211741/1 | 07/12/2021 | Fung Kai Liu Yun Sum Memorial School | 2.7815 | 2.8832 | 0.1017 |
| R211741/2 | 07/12/2021 | Fanling Government Secondary School | 2.7715 | 2.8577 | 0.0862 |

Note:

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

End of Report



Acumen Laboratory and Testing Limited
Unit D, 12/f-, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

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

Test Report

Page 1 of 2

Report Number

: Q210003aR211782

Job Number

: R211782

Issue Date

: 21/12/2021

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit E, 12/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

: R211782/1-2

Date of Sampling

: 13/12/2021

Date Received

: 13/12/2021

Test Period

: 13/12/2021 - 14/12/2021

Test Required

: Total Suspended Particulates (TSP)

Method Used

: 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



Acumen Laboratory and Testing Limited Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

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Test Report

Page 2 of 2

Report Number

: Q210003aR211782

Job Number

: R211782

Issue Date

: 21/12/2021

Test Result:

| Lab ID | Date of Sampling | Client Sample ID | Initial Weight (g) | Final Weight (g) | Total Suspended Particulates (g) |
|-----------|------------------|----------------------------------------------|--------------------|------------------|-------------------------------------|
| R211782/1 | 13/12/2021 | Fung Kai Liu Yun Sum Memorial School | 2.9111 | 2.7849 | 0.1262 |
| R211782/2 | 13/12/2021 | Fanling Government Secondary School | 2.7729 | 2.8637 | 0.0908 |

Note:

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

End of Report



Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

Page 1 of 2

Report Number

: Q210003aR211833

Job Number

: R211833

Issue Date

: 28/12/2021

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit E, 12/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

: R211833/1-2

Date of Sampling

: 17/12/2021

Date Received

: 17/12/2021

Test Period

: 17/12/2021 - 18/12/2021

Test Required

: Total Suspended Particulates (TSP)

Method Used

: 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



Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

Page 2 of 2

Report Number

: Q210003aR211833

Job Number

: R211833

Issue Date

: 28/12/2021

Test Result:

| Lab ID | Date of Sampling | Client Sample ID | Initial Weight (g) | Final Weight (g) | Total Suspended Particulates (g) |
|-----------|------------------|----------------------------------------------|--------------------|------------------|----------------------------------|
| R211833/1 | 17/12/2021 | Fung Kai Liu Yun Sum Memorial School | 2.7858 | 2.9106 | 0.1248 |
| R211833/2 | 17/12/2021 | Fanling Government Secondary School | 2.7677 | 2.8798 | 0.1121 |

Note:

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

End of Report



Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

Page 1 of 2

Report Number

: Q210003aR211834

Job Number

: R211834

Issue Date

: 28/12/2021

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit E, 12/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

: R211834/1-2

Date of Sampling

: 23/12/2021

Date Received

: 23/12/2021

Test Period

: 23/12/2021 - 24/12/2021

Test Required

: Total Suspended Particulates (TSP)

Method Used

: 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



Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

Page 2 of 2

Report Number

: Q210003aR211834

Job Number

: R211834

Issue Date

: 28/12/2021

Test Result:

| Lab ID | Date of Sampling | Client Sample ID | Initial Weight (g) | Final Weight (g) | Total Suspended Particulates (g) |
|-----------|------------------|----------------------------------------------|--------------------|------------------|-------------------------------------|
| R211834/1 | 23/12/2021 | Fung Kai Liu Yun Sum Memorial School | 2.7436 | 2.8578 | 0.1142 |
| R211834/2 | 23/12/2021 | Fanling Government Secondary School | 2.7457 | 2.8149 | 0.0692 |

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

: Q220003aR220035

Job Number

: R220035

Issue Date

: 06/01/2022

Name of Applicant

: Acuity Sustainability Consulting Limited

Address of Applicant

: Unit E, 12/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

: R220035/1-2

Date of Sampling

: 29/12/2021

Date Received

: 04/01/2022

Test Period

: 04/01/2022 - 05/01/2022

Test Required

: Total Suspended Particulates (TSP)

Method Used

: 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



Unit D, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

Page 2 of 2

Report Number

: Q220003aR220035

Job Number

: R220035

Issue Date

: 06/01/2022

Test Result:

| Lab ID | Date of Sampling | Client Sample ID | Initial Weight (g) | Final Weight (g) | Total Suspended Particulates (g) |
|-----------|------------------|--------------------------------------------|--------------------|------------------|----------------------------------|
| R220035/1 | 29/12/2021 | Fung Kai Liu Yun Sum Memorial School | 2.7626 | 2.8802 | 0.1176 |
| R220035/2 | 29/12/2021 | Fanling Government Secondary School | 2.7554 | 2.8225 | 0.0671 |

Note:

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

End of Report