

Expansion of Hong Kong International Airport into a Three-Runway System

Construction Phase Monthly EM&A Report No.6
(For June 2016)

July 2016

Airport Authority Hong Kong



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HKIA Tower, 1 Sky Plaza Road, Hong Kong International Airport, Lantau, Hong Kong

**This Monthly EM&A Report No. 6 has been reviewed and certified by
the Environmental Team Leader (ETL) in accordance with
Condition 3.5 of Environmental Permit No. EP-489/2014.**

Certified by:



Terence Kong
Environmental Team Leader (ETL)
Mott MacDonald Hong Kong Limited

Date 14 July 2016

Our Ref : 60440482/C/JCHL160714

By Email

Airport Authority Hong Kong
HKIA Tower, 1 Sky Plaza Road
Hong Kong International Airport
Lantau, Hong Kong

Attn: Mr. Lawrence Tsui, Senior Manager

14 July 2016

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Monthly EM&A Report No.6 (June 2016)

Reference is made to the Environmental Team's submission of Monthly EM&A Report No.6 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 July 2016.

We would like to inform you that we have no adverse comment on the captioned submission. Therefore we write to verify the captioned submission in accordance with the requirement stipulated in Condition 3.5 of EP-489/2014.

Should you have any query, please feel free to contact our Isabella Yeung at 3922 9348 or the undersigned at 3922 9376.

Yours faithfully,
AECOM Asia Co. Ltd.



Jackel Law
Independent Environmental Checker

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Executive Summary

The “Expansion of Hong Kong International Airport into a Three-Runway System” (the Project) serves to meet the future air traffic demands at Hong Kong International Airport (HKIA). On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual.

This is the 6th Construction Phase Monthly EM&A Report for the Project which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 June 2016 to 30 June 2016.

Key Construction Activities in the Reporting Month

The key construction activities of the Project carried out in the reporting month were related to Contract P560(R) Aviation Fuel Pipeline Diversion Works (Contract P560(R)) which involved installation of horizontal directional drilling (HDD) casing and stockpiling of excavated materials from HDD operation. Dust suppression measures including wheel washing, watering and covering of excavated materials and establishment of site hoarding have been implemented.

No construction work was carried out on Sheung Sha Chau Island during the ardeid’s breeding season in the reporting month in accordance with the Updated EM&A Manual.

EM&A Activities Conducted in the Reporting Period

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual of the Project. During the reporting period, the ET conducted thirty-nine sets of air quality measurements, twenty-two sets of construction noise measurements, as well as five environmental site inspections, landscape & visual and waste monitoring for the Project’s construction works.

On the implementation of the SkyPier Plan, the daily movements of all SkyPier HSFs in June 2016 were within the maximum daily cap number. A total of 816 HSF movements under SkyPier Plan were recorded. All HSFs had travelled through the SCZ with prevailing speed under 15 knots (8.2 to 14.3 knots) in compliance with the SkyPier Plan, except one deviation case, where HSF prevailing speed of 15.7 knots was recorded. This case also did not strictly follow the diverted route. HSF captain reported that he had to give way to other vessels for safety reason. Ferry operator was requested to provide further supporting evidence as justification. Follow up action will be taken if valid reasons / supporting evidence cannot be provided. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigation or actions accordingly.

One skipper training was held on 2 June 2016 as refresher trainings to ferry captains about the requirements of the SkyPier Plan.

Results of Impact Monitoring

All scheduled 1-hour total suspended particulate (TSP), noise and waste monitoring were completed in the reporting period for the relevant construction activities. No exceedance of the Action/ Limit Levels was recorded.

Summary of Upcoming Key Issues

Major site activities anticipated in the next reporting period for the Project will be under Contract P560(R) including:

- HDD casing pipe installation;
- Pilot hole drilling; and
- Stockpiling of excavated materials from HDD operation.

The key environmental issues will be associated with dust and noise generation, surface runoffs and construction waste management. The implementation of required mitigation measures by the Contractor will be monitored by the ET. No construction works will be carried out on Sheung Sha Chau Island during the ardeids' breeding season between April and July in accordance with the Updated EM&A Manual.

Summary of Other Key Environmental Issues

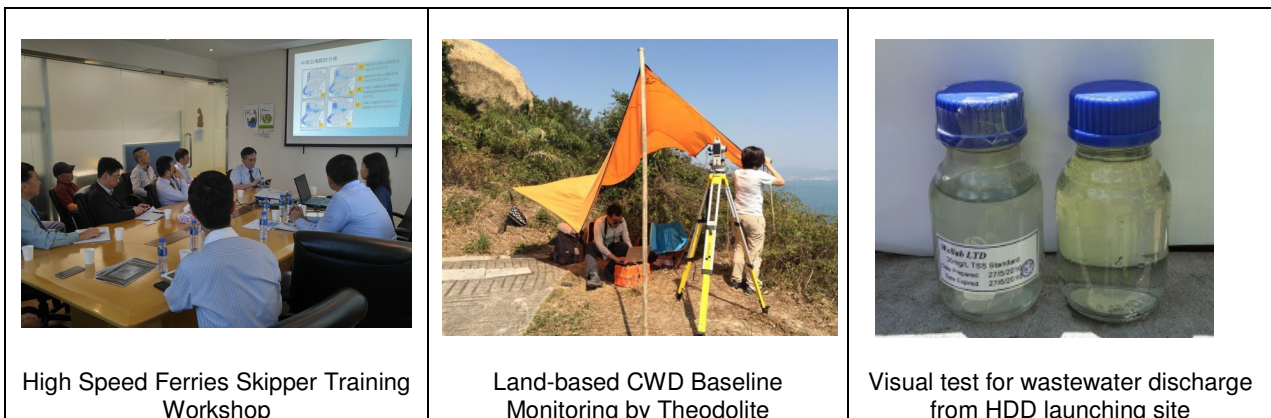
The progress of other related environmental surveys and baseline monitoring in this reporting month are as follows:

Completed:

- Baseline monitoring of Chinese White Dolphin (CWD) by passive acoustic monitoring (PAM) was on-going.

Completed:

- Land-based and vessel-based CWD baseline monitoring had been completed in June 2016.



Summary Table

The following table summarizes the key findings of the EM&A programme during the reporting period from 1 to 30 June 2016:

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breaches of Limit Level [^]		✓	No exceedance of project-related limit level was recorded.	Nil
Breaches of Action Level [^]		✓	No exceedance of project-related action level was recorded.	Nil
Complaints Received		✓	No construction activities related complaints were received.	Nil
Notification of any summons and status of prosecutions		✓	Neither notifications of summons nor prosecution were received.	Nil
Changes that affect the EM&A		✓	There were no changes to the construction works that may affect the EM&A	Nil

Remarks: [^] only exceedance of action/ limit level related to Project works will be highlighted.

1 Introduction

1.1 Background

On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the “Expansion of Hong Kong International Airport into a Three-Runway System” (the Project) was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual) submitted under EP Condition 3.1. The Manual is available on the Project’s dedicated website (accessible at: <http://env.threerunwaysystem.com/en/index.html>). AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

The Project covers the expansion of the existing airport into a three-runway system (3RS) with key project components comprising land formation of about 650 ha and all associated facilities and infrastructure including taxiways, aprons, aircraft stands, a passenger concourse, an expanded Terminal 2, all related airside and landside works and associated ancillary and supporting facilities. The existing submarine aviation fuel pipelines and submarine power cables also require diversion as part of the works.

Construction of the Project is to proceed in the general order of diversion of the submarine aviation fuel pipelines, diversion of the submarine power cables, land formation, and construction of infrastructure, followed by construction of superstructures. The land-based construction works of the Contract P560(R) Aviation Fuel Pipeline Diversion Works (Contract P560(R)) commenced on 28 December 2015 on the airport island.

The overall phasing programme of all construction works and the contract information of Contract P560(R) can be referred to Appendix A of the Construction Phase Monthly EM&A Report No. 1. Any changes/updates of the construction programme and contract information will be reported in the Monthly EM&A report when necessary. Notably, on 29 April 2016, AAHK received the Chief Executive-in-Council’s approval for draft Chek Lap Kok Outline Zoning Plan, as well as the authorization of the reclamation under the Foreshore and Sea-bed (Reclamations) Ordinance for the expansion of HKIA into a 3RS.

1.2 Scope of this Report

This is the 6th Construction Phase Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 to 30 June 2016.

1.3 Project Organisation

The Project’s organization structure remained unchanged during the reporting month. The Project’s organization structure and the contact details of the key personnel can be referred to Appendix B and Table 1.1 respectively of the Construction Phase Monthly EM&A Report No.1.

1.4 Summary of Construction Works

During the reporting period, key construction activities of the Project were related to the Contract P560(R) Aviation Fuel Pipeline Diversion Works (Contract P560(R)) which involved installation of horizontal directional drilling (HDD) casing pipe at the HDD launching site located at the west part of the airport.

The excavated materials from HDD operation were stockpiled at the stockpile area located near Chun Ming Road adjacent to Tradeport Logistic Centre on the airport island.

The HDD launching site and stockpiling area are around 3 km and 900m away respectively from the nearest air and noise sensitive receivers in Tung Chung and the villages in North Lantau. The locations of the Contract P560(R) works areas are presented in **Figure 1**.

1.5 Summary of EM&A Programme Requirements

As presented in the Updated EM&A Manual, the environmental aspects of interest for the Project include air quality, noise, water quality, waste management, land contamination, terrestrial ecology, marine ecology, fisheries, landscape & visual, sewage and sewerage, and hazard to human life.

The status for all environmental aspects is presented in **Table 1.1**. The EM&A requirements remained unchanged during the reporting period and details can be referred to Table 1.2 of the Construction Phase Monthly EM&A Report No. 1.

Table 1.1: Summary of status for all environmental aspects under the Updated EM&A Manual

Parameters	Status
Air Quality	
Baseline Monitoring	The baseline air quality monitoring result has been reported in Baseline Monitoring Report (Version 1) and submitted to EPD on 14 December 2015 under EP Condition 3.4.
Impact Monitoring	On-going
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report (Version 1) and submitted to EPD on 14 December 2015 under EP Condition 3.4.
Impact Monitoring	On-going
Water Quality	
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	The baseline water quality monitoring had been completed in May 2016. The baseline water quality monitoring result will be presented in a separate Baseline Monitoring Report for the marine works.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	To be commenced with the relevant construction works
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	To be commenced with the relevant construction works

Parameters	Status
Regular DCM Water Quality Monitoring	To be commenced with the relevant construction works
Waste Management	
Waste Monitoring	On-going
Land Contamination	
Supplementary Contamination Assessment Plan (CAP)	To be submitted with the relevant construction works
Contamination Assessment Report (CAR) for Golf Course	The CAR for Golf Course was submitted to EPD on 17 March 2016. EPD had no adverse comment on the CAR for Golf Course on 6 April 2016.
Terrestrial Ecology	
Pre-construction Egret Survey Plan	The revised Egret Survey Plan was submitted and approved by EPD on 25 April 2016 under EP Condition 2.14.
Ecological Monitoring	No construction work was carried out on Sheung Sha Chau Island during the ardeid's breeding season in the reporting month in accordance with the Updated EM&A Manual. No ecological monitoring was conducted during the reporting month.
Marine Ecology	
Pre-Construction Phase Coral Dive Survey	The Coral Translocation Plan was approved by EPD on 6 June 2016 under EP Condition 2.12.
Chinese White Dolphins (CWD)	
Vessel survey, land-based theodolite track and passive acoustic monitoring (PAM)	
Baseline Monitoring	Baseline monitoring of CWD by passive acoustic monitoring (PAM) was on going. The land-based and vessel-based CWD baseline monitoring had been completed in June 2016.
Impact Monitoring	To be commenced with the relevant construction works
Landscape & Visual	
Baseline Monitoring	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report (Version 1) and submitted to EPD on 14 December 2015 under EP Condition 3.4.
Impact Monitoring	On-going
Environmental Auditing	
Regular site inspection	On-going
SkyPier High Speed Ferries (HSF) implementation measures	On-going
Construction and Associated Vessels Implementation measures	To be commenced with the relevant construction works
Complaint Hotline and Email channel	On-going
Environmental Log Book	On-going

Taking into account that the construction works in this reporting month were mainly land-based works of Contract P560(R), the required impact monitoring focused on air quality, noise, waste management and landscape & visual. The EM&A programme also involved weekly site inspections and related auditing

conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report.

The EM&A programme has been following 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 A**.

2 Air Quality Monitoring

2.1 Monitoring Stations

Air quality monitoring was conducted at two representative monitoring stations in the vicinity of air sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Updated EM&A Manual. **Table 2.1** describes the details of the monitoring stations. **Figure 2** shows the locations of the monitoring stations.

Table 2.1: Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location
AR1A	Man Tung Road Park
AR2	Village House at Tin Sum

2.2 Monitoring Requirements and Schedule

In accordance with the Updated EM&A Manual, baseline 1-hour total suspended particulate (TSP) levels at the two air quality monitoring stations were established as presented in the Baseline Monitoring Report (Version 1 dated December 2015). Impact 1-hour TSP monitoring was conducted for three times every 6 days. The Action and Limit Levels of the air quality monitoring are provided in **Table 2.2**. The air quality monitoring schedule involved in the reporting period is provided in **Appendix C**.

Table 2.2: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AR1A	306	500
AR2	298	

2.3 Monitoring Equipment

Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. The brand and model of the equipment are given in **Table 2.3**.

Table 2.3: Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (Laser dust monitor)	SIBTA LD-3B-002 (Serial No. 974350)

2.4 Monitoring Methodology

2.4.1 Measuring Procedure

The measurement procedures involved in the impact 1-hr TSP monitoring can be summarised as follows:

- a. The portable direct reading dust meter was mounted on a tripod at a height of 1.2 m above the ground.
- b. Prior to the measurement, the equipment was set up for 1 minute span check and 6 second background check.

- c. The one hour dust measurement was started. Site conditions and dust sources at the nearby area were recorded on a record sheet.
- d. When the measurement completed, the “Count” reading per hour was recorded for result calculation.

2.4.2 Maintenance and Calibration

The portable direct reading dust meter is calibrated every year against high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. The calibration certificates of the portable direct reading dust meter are provided in **Appendix B**. The corresponding calibration record of the HVS is also given in **Appendix B**.

2.5 Analysis and Interpretation of Monitoring Results

The monitoring results for 1-hour TSP are summarized in **Table 2.4**. Detailed impact monitoring results are presented in **Appendix D**.

Table 2.4: Summary of 1-hour TSP Monitoring Results

Monitoring Station	1-hr TSP Concentration Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AR1A	4- 35	306	500
AR2	4- 34	298	

No exceedance of the Action /Limit Level was recorded at all monitoring stations in the reporting period.

General meteorological conditions throughout the impact monitoring period were recorded. Wind data for each monitoring day including wind speed and wind direction was collected from the Chek Lap Kok Wind Station.

3 Noise Monitoring

3.1 Monitoring Stations

Noise monitoring was conducted at five representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Updated EM&A Manual. **Figure 2** shows the locations of the monitoring stations and these are described in **Table 3.1** below. As described in Section 4.3.3 of the Updated EM&A Manual, monitoring at NM2 will commence when the future residential buildings in Tung Chung West Development become occupied.

Table 3.1: Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Type of measurement
NM1A	Man Tung Road Park	Free field
NM2 ⁽¹⁾	Tung Chung West Development	To be determined
NM3A	Site Office	Facade
NM4	Ching Chung Hau Po Woon Primary School	Free field
NM5	Village House in Tin Sum	Free field
NM6	House No. 1, Sha Lo Wan	Free field

Note: (1) As described in Section 4.3.3 of the Updated EM&A Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West Development.

3.2 Monitoring Requirements and Schedule

In accordance with the Updated EM&A Manual, baseline noise levels at the noise monitoring stations were established as presented in the Baseline Monitoring Report (Version 1 dated December 2015). Impact noise monitoring was conducted once per week in the form of 30-minute measurements of L_{eq} , L_{10} and L_{90} levels recorded at each monitoring station between 0700 and 1900 on normal weekdays. The Action and Limit levels of the noise monitoring are provided in **Table 3.2**. The construction noise monitoring schedule involved in the reporting period is provided in **Appendix C**.

Table 3.2: Action and Limit Levels for Construction Noise

Monitoring Stations	Time Period	Action Level	Limit Level, $L_{eq(30mins)}$ dB(A)
NM1A, NM2, NM3A, NM4, NM5 and NM6	0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75 dB(A) ⁽ⁱ⁾

Note: ⁽ⁱ⁾ reduce to 70dB(A) for school and 65dB(A) during school examination periods.

3.3 Monitoring Equipment

Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was used to check the sound

level meters by a known sound pressure level for field measurement. The brand and model of the equipment are given in **Table 3.3**.

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238 (Serial No. 2800932)
	B&K 2238 (Serial No. 2381580)
Acoustic Calibrator	B&K 4231 (Serial No. 3003246)
	B&K 4231 (Serial No. 3004068)

3.4 Monitoring Methodology

3.4.1 Monitoring Procedure

The monitoring procedures involved in the noise impact monitoring can be summarised as follows:

- a. The sound level meter was set on a tripod at least a height of 1.2 m above the ground for free-field measurements at monitoring stations NM1A, NM4, NM5 and NM6. A correction of +3 dB(A) was applied to the free field measurements.
- b. Façade measurements were made at the monitoring station NM3A.
- c. Parameters such as frequency weighting, time weighting and measurement time were set.
- d. Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- e. During the monitoring period, L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a record sheet.
- f. Noise measurement results were corrected with reference to the baseline monitoring levels.
- g. Observations were recorded when high intrusive noise (e.g. dog barking, helicopter noise) was observed during the monitoring.

3.4.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

- a. The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- b. The meter and calibrator were sent to the supplier or laboratory accredited under Hong Kong Laboratory Accreditation Scheme (HOKLAS) to check and calibrate at yearly intervals.

Calibration certificates of the sound level meters and acoustic calibrators used in the noise monitoring are provided in **Appendix B**.

3.5 Analysis and Interpretation of Monitoring Results

The construction noise monitoring results are summarized in **Table 3.4** and the detailed monitoring data are provided in **Appendix D**.

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A)	Limit Level, dB(A)
	L_{eq} (30 mins)	L_{eq} (30 mins)
NM1A ⁽ⁱ⁾	71- 73	75
NM3A	61- 63	75
NM4 ⁽ⁱ⁾	60- 66	70 ⁽ⁱⁱ⁾
NM5 ⁽ⁱ⁾	55- 66	75
NM6 ⁽ⁱ⁾	66- 71	75

Note: (i) +3 dB(A) Façade correction included;
 (ii) Reduced to 65 dB(A) during school examination periods.

As the construction activities were small in scale during the reporting period and far away from the monitoring stations, major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were aircraft noise at NM3A and NM5, aircraft noise and helicopter noise at NM6, road traffic noise at NM1A and school activities at NM4 in this reporting month.

No exceedance of the Action/ Limit Level was recorded at all monitoring stations in the reporting period.

4 Waste Monitoring

4.1 Monitoring Requirements

In accordance with the Updated EM&A Manual, the waste generated from construction activities was audited once per week to determine if wastes are being managed in accordance with the Waste Management Plan (WMP) prepared for the Project, contract-specific WMP, and any statutory and contractual requirements. All aspects of waste management including waste generation, storage, transportation and disposal were assessed during the audits. The Action and Limit levels of the construction waste are provided in **Table 4.1**.

Table 4.1: Action and Limit Levels for Construction Waste

Monitoring Stations	Action Level	Limit Level
Construction Area	When one valid documented complaint is Received	Non-compliance of the WMP, contract-specific WMPs, any statutory and contractual requirements

4.2 Waste Management Status

Weekly monitoring of the Project construction works was carried out by the ET on 1, 8, 13, 22 and 29 June 2016 to check and monitor the implementation of proper waste management practices during the construction phase.

For Contract P560(R) Aviation Fuel Pipeline Diversion Works, recommendations were provided during monitoring including proper plugging of drip tray to avoid any leakage on 1 June 2016, proper segregation and sorting of general refuse on 29 June 2016, and provision of personal protective equipment in the spill kit on sites on 8 and 29 June 2016. The contractor had followed up with implementation of mitigation measures.

The P560(R) Contractor was advised to properly maintain a recording system, maximize the reuse of C&D materials and properly maintain site tidiness.

Based on the updated information, about 87.73 m³ excavated materials were produced from the HDD launching site in June 2016. The generated excavated materials were temporarily stored at storage and stockpiling area at Chun Ming Road adjacent to Tradeport Logistic Centre on the airport island. The excavated material will be reused in the Project.

In addition, 2.23 tonnes of general refuse were disposed of to the West New Territories (WENT) Landfill in June 2016. No Construction and Demolition (C&D) material was disposed off-site during the reporting month. No exceedances of the Action and Limit Levels were recorded in the reporting period.

5 Environmental Site Inspection and Audit

5.1 Weekly Environmental Site Inspection

Weekly site inspection of the construction works was carried out by the ET on 1, 8, 13, 22 and 29 June 2016 to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. The site inspection on 13 June 2016 was an ad-hoc EPD inspection conducted by the EPD's inspectors. Site inspections were also conducted independently by the Project's Independent Environmental Checker (IEC) on 10, 13 and 22 June 2016. Observations have been recorded in the site inspection checklists and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

The key observations from site inspection and associated recommendations were related to the improvement of efficiency of wastewater treatment facilities, proper maintenance of noise barrier and drip tray, proper segregation and sorting of general refuse, and provision of personal protective equipment in the spill kits on sites.

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 A**.

5.2 Audit of Route Diversion and Speed Control of the SkyPier High Speed Ferries

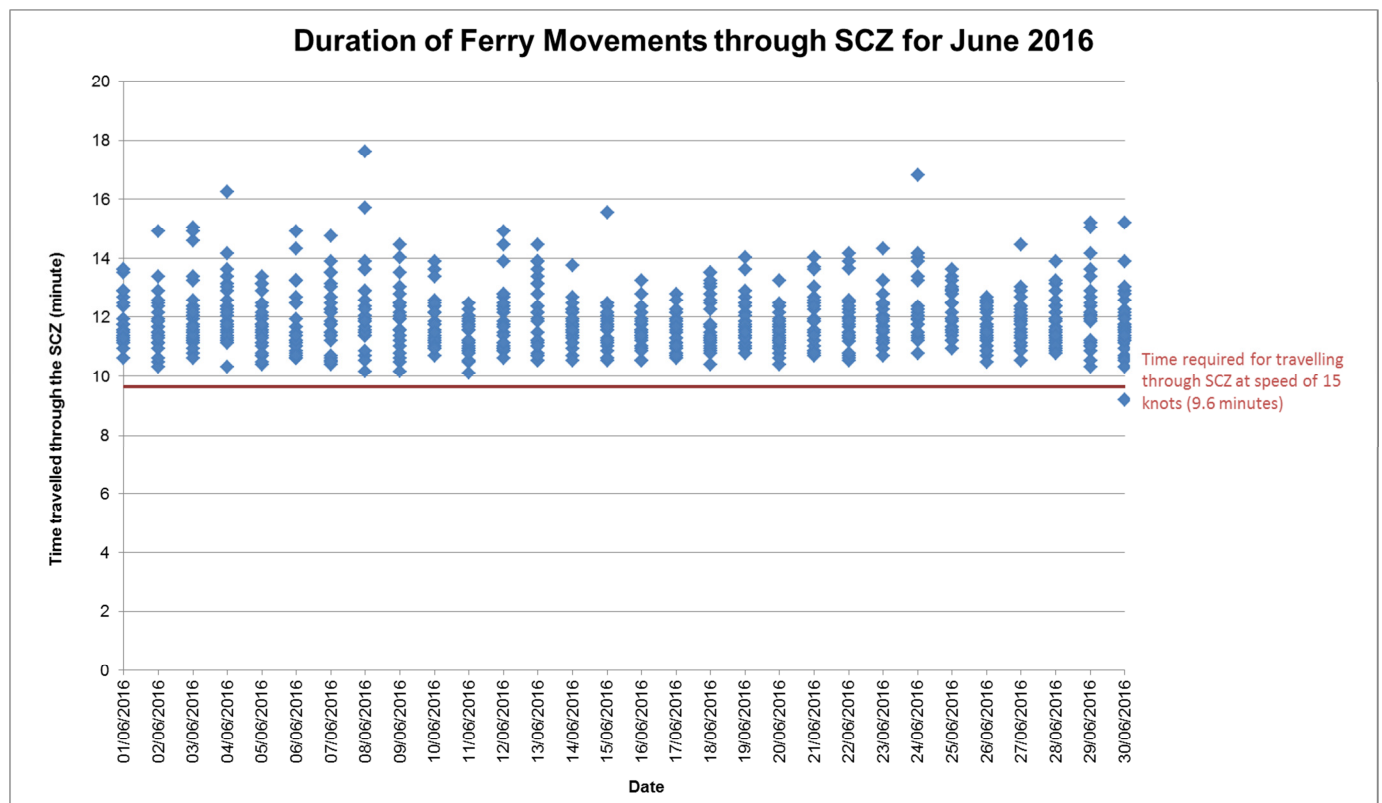
The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) has been submitted to the Advisory Council on the Environment (ACE) for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on the dedicated website of the Project. In the SkyPier Plan, AAHK committed to implementing the mitigation measure of requiring high speed ferries (HSFs) of SkyPier travelling between HKIA and Zhuhai / Macau to start diverting the route with an associated speed control across an area (i.e. Speed Control Zone (SCZ)) with high Chinese White Dolphin (CWD) abundance. The route diversion and speed restriction at the SCZ have been implemented since 28 December 2015.

Key audit findings for the SkyPier HSFs travelling to/from Zhuhai and Macau against the requirements of the SkyPier Plan during the reporting period are summarized in **Table 5.1**. The daily movements of all SkyPier HSFs in June 2016 were within the maximum daily cap number. Status of compliance with annual daily average of 99 movements will be further reviewed in the annual EM&A Report.

In total, 816 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in June 2016 and the data are presented in **Appendix G**. The time spent for the SkyPier HSFs travelled through the SCZ in June were presented in **Figure 5-1**. It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowed speed of 15-knot within the SCZ. **Figure 5-1** shows that all the SkyPier HSFs spent more than 9.6 minutes to travel through the SCZ and the SkyPier HSFs had travelled through the SCZ with prevailing speeds ranging from 8.2 to 14.3 knots, except one vessel on 30 June 2016 which spent less than 9.6 minutes with 15.7 knots prevailing speed. The HSF captain reported that he had to give way to other vessels for safety reason. Ferry operator is requested to provide further reasons / supporting evidence for ET justification. Follow up action will be taken if valid reasons / supporting evidence cannot

be provided.

Figure 5-1 Duration of the SkyPier HSFs travelled through the SCZ for June 2016



Five ferry movements were not strictly following the diverted route as recorded on 13, 14, 17, 21 and 30 June 2016. Notices were sent to the ferry operators and the investigation results revealed that they were related to safety / emergency situations presented as follows:

- Cases on 13, 14 and 17 June 2016: the HSF captains reported that they had to give way to other vessels for safety reason and were not able to enter the SCZ through the gate access points. Then the HSF returned to the normal route following the SkyPier Plan.
- Case on 21 June 2016: This case is under investigation.
- Case on 30 June 2016: The HSF captain reported that he had to give way to other vessels for safety reason. Ferry operator was requested to provide further supporting evidence as justification. Follow up action will be taken if valid reasons / supporting evidence cannot be provided.

One skipper workshop was held on 2 June 2016 as refresher trainings to ferry captains about the requirements of the SkyPier Plan.

Table 5.1: Summary of Key Audit Findings against the SkyPier Plan

Requirements in the SkyPier Plan	1 June to 30 June 2016
Total number of ferry movements recorded and audited	816
Use diverted route and enter / leave SCZ through Gate Access Points	5 deviations (4 deviations related to safety/emergency) 1 deviation is under investigation
Speed control in speed control zone	All HSFs were within 15 knots (8.2 knots to 14.3 knots), which complied with the SkyPier Plan, except one deviation case with 15.7 knots prevailing speed. The time used by HSF to travel through SCZ is presented in Figure 5-1 .
Daily Cap (including all SkyPier HSFs)	88 to 96 daily movements (within maximum daily cap - 125 daily movements)

5.3 Status of Submissions under Environmental Permits

The current status of submissions under the EP up to the reporting period is presented in **Table 5.2**.

Table 5.2: Status of Submissions under Environmental Permit

EP Condition	Submission	Status
2.1	Complaint Management Plan	
2.4	Management Organizations	
2.5	Construction Works Schedule and Location Plans	
2.7	Marine Park Proposal	
2.8	Marine Ecology Conservation Plan	
2.9	Marine Travel Routes and Management Plan for Construction and Associated Vessels	Accepted / approved by EPD
2.10	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier	
2.11	Marine Mammal Watching Plan	
2.12	Coral Translocation Plan	
2.13	Fisheries Management Plan	
2.14	Egrettry Survey Plan	
2.15	Silt Curtain Deployment Plan	Submitted to EPD
2.17	Detailed Plan on Deep Cement Mixing	
2.16	Spill Response Plan	
2.19	Waste Management Plan	Accepted / approved by EPD
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Report	

5.4 Compliance with Other Statutory Environmental Requirements

During the reporting period, environmental related licenses and permits required for the construction activities were checked. No non-compliance with environmental statutory requirements was recorded. The environmental licenses and permits which are valid in the reporting month are presented in **Appendix E**.

5.5 Analysis and Interpretation of Complaints, Notification of Summons and Status of Prosecutions

5.5.1 Complaints

During the reporting period, no construction activities related complaints were received.

5.5.2 Notifications of Summons or Status of Prosecution

During the reporting period, neither notifications of summons nor prosecution were received.

5.5.3 Cumulative Statistics

Cumulative statistics on complaints, notifications of summons and status of prosecutions are summarized in **Appendix F**.

6 Future Key Issues and Other EIA & EM&A Issues

6.1 Construction Programme for the Coming Reporting Period

Major site activities anticipated in the next reporting period for the Project are expected to be associated with the implementation of the P560(R) Contract and these will include:

- HDD casing pipe installation;
- Pilot hole drilling; and
- Stockpiling of excavated materials from HDD operation.

No construction works will be carried out on Sheung Sha Chau Island during the ardeids' breeding season between April and July in accordance with the Updated EM&A Manual.

6.2 Key Environmental Issues for the Coming Reporting Period

The key environmental issues for the Project in the coming reporting period are expected to be associated with the construction activities of the P560(R) Contract and these include:

- Generation of dust from construction works;
- Noise impact from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles;
- Sorting, recycling, storage and disposal of general refuse and construction waste; and
- Management of chemicals and avoidance of oil spillage on-site.

6.3 Monitoring Schedule for the Coming Reporting Period

A tentative schedule of the planned environmental monitoring work in the next reporting period is provided in **Appendix C**.

6.4 Other EIA / EM&A Issues

6.4.1 On-going and Fore-coming Baseline Monitoring

Baseline monitoring of CWD by passive acoustic monitoring (PAM) was on-going. Land-based and vessel-based CWD baseline monitoring had been completed in June 2016. The baseline monitoring results will be presented in a separate Baseline Monitoring Report for the marine works.

7 Conclusion and Recommendation

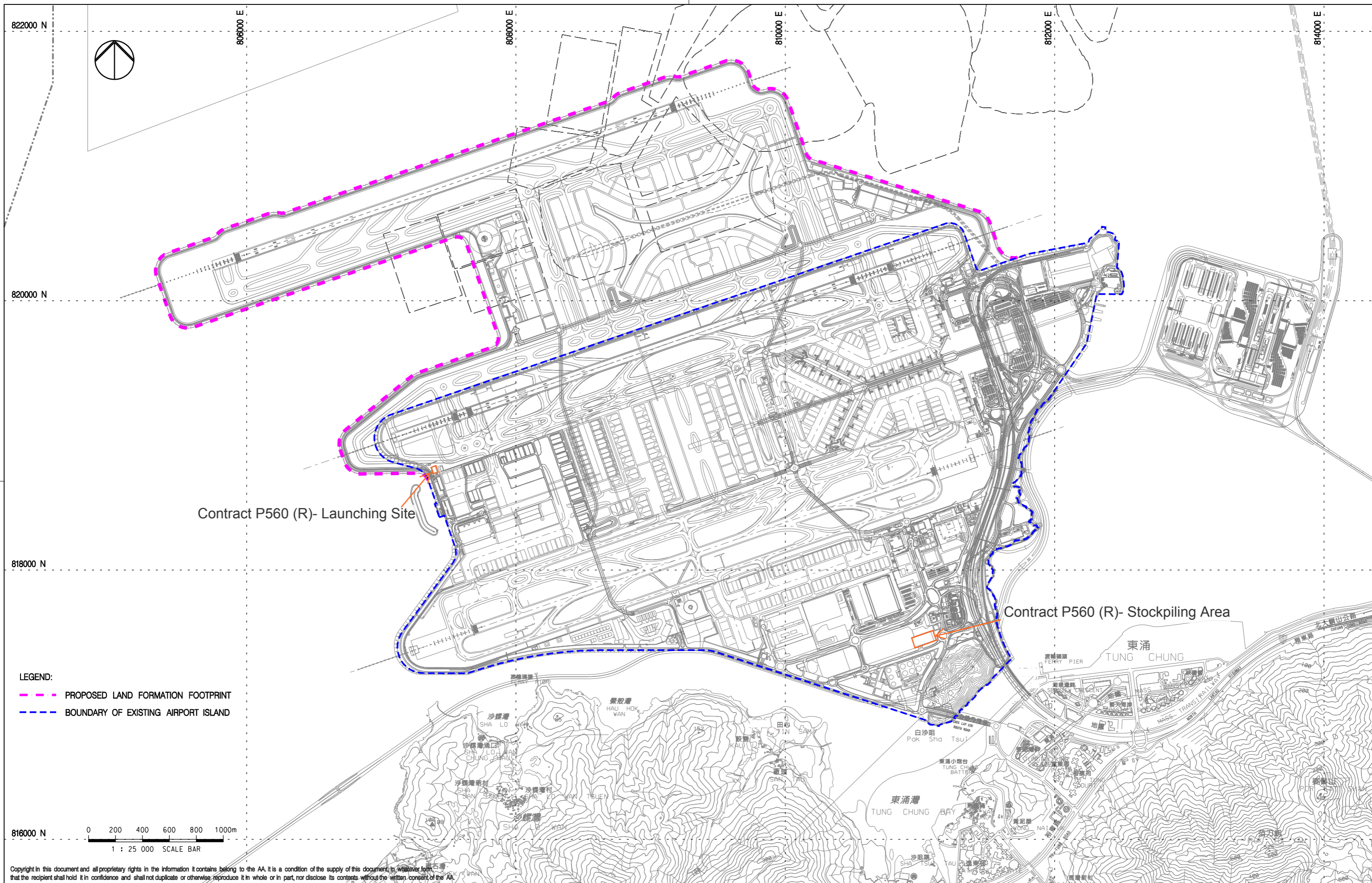
The key construction activities of the Project carried out in the reporting month were related to the Contract P560 Aviation Fuel Pipeline Diversion Works which involved installation of HDD casing and stockpiling of excavated materials from HDD operation. Dust suppression measures including wheeling washing, watering and covering of excavated materials and establishment of site hoarding have been implemented.

Construction dust, noise and waste monitoring were carried out in the reporting period. No breach of the Action or Limit Levels in relation to the air quality, construction noise and waste monitoring were recorded in the reporting month. All site observations made by the ET were recorded in the site inspection checklists and passed to the Contractor together with the recommended follow-up actions.

On the implementation of the SkyPier Plan, the daily movements of all SkyPier HSFs in June 2016 were within the maximum daily cap number. A total of 816 HSF movements under SkyPier Plan were recorded. All HSFs had travelled through the SCZ with prevailing speed under 15 knots (8.2 to 14.3 knots) in compliance with the SkyPier Plan, except one deviation case, where HSF prevailing speed of 15.7 knots was recorded. This case also did not strictly follow the diverted route. HSF captain reported that he had to give way to other vessels for safety reason. Ferry operator was requested to provide further supporting evidence as justification. Follow up action will be taken if valid reasons / supporting evidence cannot be provided. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigation or actions accordingly.

One skipper training was held on 2 June 2016 as refresher trainings to ferry captains about the requirements of the SkyPier Plan.

Figures



LEGEND:
 - - - - - PROPOSED LAND FORMATION FOOTPRINT
 - - - - - BOUNDARY OF EXISTING AIRPORT ISLAND

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Rev.	Date	Description	Checked
A	11DEC15	FIRST ISSUE	RO



Title
LOCATIONS OF KEY CONSTRUCTION ACTIVITIES IN THIS REPORTING PERIOD

Consultant's Signatures for Approval		Date
Design	AM	11DEC15
Checkers	AM / TK	11DEC15
Approver	EC	11DEC15

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	FIGURE 1
Scale at A3	1 : 25000
Rev.	A



808000 E.

808000 E.

810000 E.

812000 E.

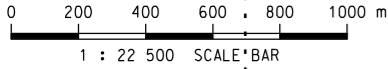
814000 E.

820000 N.

818000 N.

LEGEND:

- - - PROPOSED RECLAMATION AREA
- NOISE MONITORING STATION (UPDATED EM&A MANUAL)
- ▲ AIR QUALITY MONITORING STATION (UPDATED EM&A MANUAL)
- + CHEK LAP KOK WIND STATION



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Rev.	Date	Description	Checked
A	06JAN16	FIRST ISSUE	RO
B	29JAN16	GENERAL REVISION	RO
C	11FEB16	GENERAL REVISION	RO



Title
LOCATIONS OF AIR AND NOISE MONITORING STATIONS AND CHEK LAP KOK WIND STATION

Consultant's Signatures for Approval		Date
Design	AM	11FEB16
Checkers	AM / TK	11FEB16
Approver	EC	11FEB16

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	FIGURE 2
Scale at A3	1 : 22500
Rev.	C

Appendix A. Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

Appendix A Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
Air Quality Impact – Construction Phase					
5.2.6.2	2.1	-	Dust Control Measures <ul style="list-style-type: none"> Water spraying for 12 times a day or once every two hours for 24-hour working at all active works area. 	Within construction site / Duration of the construction phase	I
5.2.6.3	2.1	-	<ul style="list-style-type: none"> Covering of at least 80% of the stockpiling area by impervious sheets. Water spraying of all dusty materials immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling. 	Within construction site / Duration of the construction phase	I
5.2.6.4	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include: Good Site Management <ul style="list-style-type: none"> Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. Disturbed Parts of the Roads <ul style="list-style-type: none"> Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. Exposed Earth <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting 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. Loading, Unloading or Transfer of Dusty Materials <ul style="list-style-type: none"> All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. Debris Handling	Within construction site / Duration of the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			<ul style="list-style-type: none"> ▪ Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides; and ▪ Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. <p>Transport of Dusty Materials</p> <ul style="list-style-type: none"> ▪ Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. <p>Wheel washing</p> <ul style="list-style-type: none"> ▪ Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. <p>Use of vehicles</p> <ul style="list-style-type: none"> ▪ The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site; ▪ Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and ▪ Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. <p>Site hoarding</p> <ul style="list-style-type: none"> ▪ Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 		
5.2.6.5	2.1	-	<p>Best Practices for Concrete Batching Plant</p> <p>The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 as well as in the future Specified Process licence should be adopted. The best practices are recommended to be applied to both the land based and floating concrete batching plants. Best practices include:</p> <p>Cement and other dusty materials</p> <ul style="list-style-type: none"> ▪ The loading, unloading, handling, transfer or storage of cement, pulverised fuel ash (PFA) and/or other equally dusty materials shall be carried in a totally enclosed system acceptable to EPD. All dust-laden air or waste gas generated by the process operations shall be properly extracted and vented to fabric filtering system to meet the required emission limit; ▪ Cement, PFA and/or other equally dusty materials shall be stored in storage silo fitted with audible high level alarms to warn of over-filling. The high-level alarm indicators shall be interlocked with the material filling line such that in the event of the silo approaching an overfilling condition, an audible alarm will 	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			<p>operate, and after 1 minute or less the material filling line will be closed;</p> <ul style="list-style-type: none"> ▪ Vents of all silos shall be fitted with fabric filtering system to meet the required emission limit; ▪ Vents of cement/PFA weighing scale shall be fitted with fabric filtering system to meet the required emission limit; and ▪ Seating of pressure relief valves of all silos shall be checked, and the valves re-seated if necessary, before each delivery. <p>Other raw materials</p> <ul style="list-style-type: none"> ▪ The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rock, sand, stone aggregate, shall be carried out in such a manner to prevent or minimize dust emissions; ▪ The materials shall be adequately wetted prior to and during the loading, unloading and handling operations. Manual or automatic water spraying system shall be provided at all unloading areas, stock piles and material discharge points; ▪ All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices; ▪ The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance; ▪ All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals; ▪ Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface; ▪ Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed; ▪ Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used; ▪ The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side; ▪ Aggregates with a nominal size greater than 5 mm should preferably be stored in a totally enclosed structure. If open stockpiling is used, the stockpile shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; and ▪ The opening between the storage bin and weighing scale of the materials shall be fully enclosed. <p>Loading of materials for batching</p>		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			<ul style="list-style-type: none"> ▪ Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented: <ul style="list-style-type: none"> (a) Pre-mixing the materials in a totally enclosed concrete mixer before loading the materials into the concrete truck is recommended. All dust-laden air generated by the pre-mixing process as well as the loading process shall be totally vented to fabric filtering system to meet the required emission limit; and (b) If truck mixing batching or other types of batching method is used, effective dust control measures acceptable to EPD shall be adopted. The dust control measures must have been demonstrated to EPD that they are capable to collect and vent all dust-laden air generated by the material loading/mixing to dust arrestment plant to meet the required emission limit. ▪ The loading bay shall be totally enclosed during the loading process. <p>Vehicles</p> <ul style="list-style-type: none"> ▪ All practicable measures shall be taken to prevent or minimize the dust emission caused by vehicle movement; and ▪ All access and route roads within the premises shall be paved and adequately wetted. <p>Housekeeping</p> <ul style="list-style-type: none"> ▪ A high standard of housekeeping shall be maintained. All spillages or deposits of materials on ground, support structures or roofs shall be cleaned up promptly by a cleaning method acceptable to EPD. Any dumping of materials at open area shall be prohibited. 		
5.2.6.6	2.1	-	<p>Best Practices for Asphaltic Concrete Plant</p> <p>The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Tar and Bitumen Works (Asphaltic Concrete Plant) BPM 15 (94) as well as in the future Specified Process licence should be adopted. These include:</p> <p>Design of Chimney</p> <ul style="list-style-type: none"> ▪ The chimney shall not be less than 3 metres plus the building height or 8 metres above ground level, whichever is the greater; ▪ The efflux velocity of gases from the main chimney shall not be less than 12 m/s at full load condition; ▪ The flue gas exit temperature shall not be less than the acid dew point; and ▪ Release of the chimney shall be directed vertically upwards and not be restricted or deflected. <p>Cold feed side</p> <ul style="list-style-type: none"> ▪ The aggregates with a nominal size less than or equal to 5 mm shall be stored in totally enclosed structure such as storage bin and shall not be handled in open area; ▪ Where there is sufficient buffer area surrounding the plant, ground stockpiling may be used. The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side. If 	Within Concrete Batching Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
		-	<p>these aggregates are stored above the feeding hopper, they shall be enclosed at least on top and three sides and be wetted on the surface to prevent wind-whipping;</p> <ul style="list-style-type: none"> ▪ The aggregates with a nominal size greater than 5 mm should preferably be stored in totally enclosed structure. Aggregates stockpile that is above the feeding hopper shall be enclosed at least on top and three sides. If open stockpiling is used, the stockpiles shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; ▪ Belt conveyors shall be enclosed on top and two sides and provided with a metal board at the bottom to eliminate any dust emission due to the wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can be achieve the same performance; ▪ Scrapers shall be provided at the turning points of all belt conveyors inside the chute of the transfer points to remove dust adhered to the belt surface; ▪ All conveyor transfer points shall be totally enclosed. Openings for the passages of conveyors shall be fitted with adequate flexible seals; and ▪ All materials returned from dust collection system shall be transferred in enclosed system and shall be stored inside bins or enclosures. <p>Hot feed side</p> <ul style="list-style-type: none"> ▪ The inlet and outlet of the rotary dryer shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter. The particulate and gaseous concentration at the exhaust outlet of the dust collector shall not exceed the required limiting values; ▪ The bucket elevator shall be totally enclosed and the air be extracted and ducted to a dust collection system to meet the required particulates limiting value; ▪ All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings; ▪ Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside. They shall be inspected daily for leakages; ▪ All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and ▪ Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units). <p>Material transportation</p> <ul style="list-style-type: none"> ▪ The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions; ▪ Roadways from the entrance of the plant to the product loading points and/or any other working areas 		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
			<p>where there are regular movements of vehicles shall be paved or hard surfaced; and</p> <ul style="list-style-type: none"> ▪ Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers. <p>Control of emissions from bitumen decanting</p> <ul style="list-style-type: none"> ▪ The heating temperature of the particular bitumen type and grade shall not exceed the corresponding temperature limit of the same type listed in Appendix 1 of the Guidance Note; ▪ Tamper-free high temperature cut-off device shall be provided to shut off the fuel supply or electricity in case the upper limit for bitumen temperature is reached; ▪ Proper chimney for the discharge of bitumen fumes shall be provided at high level; ▪ The emission of bitumen fumes shall not exceed the required emission limit; and ▪ The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles. <p>Liquid fuel</p> <ul style="list-style-type: none"> ▪ The receipt, handling and storage of liquid fuel shall be carried out so as to prevent the release of emissions of organic vapours and/or other noxious and offensive emissions to the air. <p>Housekeeping</p> <ul style="list-style-type: none"> ▪ A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis. 		
5.2.6.7	2.1	-	<p>Best Practices for Rock Crushing Plants</p> <p>The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include:</p> <p>Crushers</p> <ul style="list-style-type: none"> ▪ The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter; ▪ The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping; ▪ Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and ▪ Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure. <p>Vibratory screens and grizzlies</p>	Within Crushing Plant / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			<ul style="list-style-type: none"> ▪ All vibratory screens shall be totally enclosed in a housing. Screenhouses shall be rigid and reasonably dust tight with self-closing doors or close-fitted entrances and exits for access. Where conveyors pass through the screenhouse, flexible covers shall be installed at entries and exits of the conveyors to the housing. Where containment of dust within the screenhouse structure is not successful then a dust extraction and collection system shall be provided; and ▪ All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas. <p>Belt conveyors</p> <ul style="list-style-type: none"> ▪ Except for those conveyors which are placed within a totally enclosed structure such as a screenhouse or those erected at the ground level, all conveyors shall be totally enclosed with windshield on top and 2 sides; ▪ Effective belt scraper such as the pre-cleaner blades made by hard wearing materials and provided with pneumatic tensioner, or equivalent device, shall be installed at the head pulley of designated conveyor as required to dislodge fine dust particles that may adhere to the belt surface and to reduce carry-back of fine materials on the return belt. Bottom plates shall also be provided for the conveyor unless it has been demonstrated that the corresponding belt scraper is effective and well maintained to prevent falling material from the return belt; and ▪ Except for those transfer points which are placed within a totally enclosed structure such as a screenhouse, all transfer points to and from conveyors shall be enclosed. Where containment of dust within the enclosure is not successful, then water sprayers shall be provided. Openings for any enclosed structure for the passage of conveyors shall be fitted with flexible seals. <p>Storage piles and bins</p> <ul style="list-style-type: none"> ▪ Where practicable, free falling transfer points from conveyors to stockpiles shall be fitted with flexible curtains or be enclosed with chutes designed to minimize the drop height. Water sprays shall also be used where required. ▪ The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable; ▪ All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or ▪ The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls. ▪ Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly. <p>Rock drilling equipment</p> <ul style="list-style-type: none"> • Appropriate dust control equipment such as a dust extraction and collection system shall be used during 		

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
			rock drilling activities.		
Hazard to Human Life – Construction Phase					
Table 6.40	3.2	-	<ul style="list-style-type: none"> Precautionary measures should be established to request barges to move away during typhoons. 	Construction Site / Construction Period	N/A
Table 6.40	3.2	-	<ul style="list-style-type: none"> An appropriate marine traffic management system should be established to minimize risk of ship collision. 	Construction Site / Construction Period	N/A
Table 6.40	3.2	-	<ul style="list-style-type: none"> Location of all existing hydrant networks should be clearly identified prior to any construction works. 	Construction Site / Construction Period	N/A
Noise Impact – Construction Phase					
7.5.6	4.3	-	<p>Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:</p> <ul style="list-style-type: none"> only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; mobile plant should be sited as far away from NSRs as possible; and material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	<p>Adoption of QPME</p> <ul style="list-style-type: none"> QPME should be adopted as far as applicable. 	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	<p>Use of Movable Noise Barriers</p> <ul style="list-style-type: none"> Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs. 	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	<p>Use of Noise Enclosure/ Acoustic Shed</p> <ul style="list-style-type: none"> Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator. 	Within the Project site / During construction phase / Prior to	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
commencement of operation					
Water Quality Impact – Construction Phase					
8.8.1.2 and 8.8.1.3	5.1	2.26	<p>Marine Construction Activities</p> <p><u>General Measures to be Applied to All Works Areas</u></p> <ul style="list-style-type: none"> ▪ Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; ▪ Use of Lean Material Overboard (LMOB) systems shall be prohibited; ▪ Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved; ▪ Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; ▪ Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; ▪ All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; ▪ The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and ▪ For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the waste water meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted. <p><u>Specific Measures to be Applied to All Works Areas</u></p> <ul style="list-style-type: none"> ▪ The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; ▪ A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document; ▪ An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities; ▪ Closed grab dredger shall be used to excavate marine sediment; ▪ Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and ▪ The Silt Curtain Deployment Plan shall be implemented. 	Within construction site / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			<p><u>Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works</u></p> <ul style="list-style-type: none"> Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains; Double layer silt curtains to enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and The silt curtains and silt screens should be regularly checked and maintained. <p><u>Specific Measures to be Applied to Land Formation Activities during Marine Filling Works</u></p> <ul style="list-style-type: none"> Double layer 'Type II' or 'Type III' silt curtains to be applied around the eastern openings between partially completed seawalls prior to commencement of marine filling activities. The silt curtains shall be configured to minimise SS release during ebb tides; Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities; Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and The silt curtains and silt screens should be regularly checked and maintained. <p><u>Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion</u></p> <ul style="list-style-type: none"> Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping and Sea Ordinance (DASO) permit conditions; and Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure. 		
8.8.1.4	5.1	-	<p>Modification of the Existing Seawall</p> <ul style="list-style-type: none"> Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works. 	At the existing northern seawall / Duration of the construction phase	N/A
8.8.1.5	5.1	-	<p>Construction of New Stormwater Outfalls and Modifications to Existing Outfalls</p> <ul style="list-style-type: none"> During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations. 	Within construction site / Duration of the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
8.8.1.6 8.8.1.7	5.1	2.27	<p>Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons</p> <p>Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.</p> <p><u>For construction of the eastern approach lights at the CMPs</u></p> <ul style="list-style-type: none"> ▪ Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; ▪ Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; ▪ The excavated materials shall be removed using a closed grab within the steel casings; ▪ No discharge of the cement mixed materials into the marine environment will be allowed; and ▪ Excavated materials shall be treated and reused on-site. 	Within construction site / Duration of the construction phase	N/A
8.8.1.8	5.1	-	<p>Construction Site Runoff and Drainage</p> <p>The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:</p> <ul style="list-style-type: none"> ▪ Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform); ▪ Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction; ▪ All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly; ▪ Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities; ▪ In the event that contaminated groundwater is identified at excavation areas, this should be treated on-site using a suitable wastewater treatment process. The effluent should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge to foul sewers or collected for 	Within construction site / Duration of the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
			<p>proper disposal off-site. No direct discharge of contaminated groundwater is permitted;</p> <ul style="list-style-type: none"> All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge; Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system; Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events. 		
8.8.1.9	5.1	-	<p>Sewage Effluent from Construction Workforce</p> <ul style="list-style-type: none"> Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. 	Within construction site / During construction phase	I
8.8.1.10 8.8.1.11	5.1		<p>General Construction Activities</p> <ul style="list-style-type: none"> Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. 	Within construction site / During construction phase	I
8.8.1.12 8.8.1.13	5.1	2.28	<p>Drilling Activities for the Submarine Aviation Fuel Pipelines</p> <p>To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:</p> <ul style="list-style-type: none"> A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau; No bulk storage of chemicals shall be permitted; and 	Within construction site / During construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
<ul style="list-style-type: none"> ▪ A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas. <p>At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:</p> <ul style="list-style-type: none"> ▪ During pipe cleaning, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meet the WPCO/TM requirements before discharge; and ▪ Drilling fluid used in drilling activities should be reconditioned and reused as far as possible. Temporary enclosed storage locations should be provided on-site for any unused chemicals that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 					
Waste Management Implication – Construction Phase					
10.5.1.1	7.1	-	<p>Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended:</p> <ul style="list-style-type: none"> ▪ The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials; ▪ Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government’s PFRF as fill materials for the proposed land formation works; ▪ Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work; ▪ Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and ▪ For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development. 	Project Site Area / During design and construction phase	I
10.5.1.1	7.1	-	<p>The following good site practices should be performed during the construction activities include:</p> <ul style="list-style-type: none"> ▪ Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; ▪ Training of site personnel in proper waste management and chemical waste handling procedures; 	Project Site Area / Construction Phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			<ul style="list-style-type: none"> ▪ Provision of sufficient waste disposal points and regular collection for disposal; ▪ Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks by tarpaulin/ similar material or by transporting wastes in enclosed containers. The cover should be extended over the edges of the sides and tailboards; ▪ Stockpiles of C&D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust; ▪ All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the barging points/ stockpile areas; ▪ C&D materials to be delivered to and from the project site by barges or by trucks should be kept wet or covered to avoid wind-blown dust; ▪ The speed of the trucks including dump trucks carrying C&D or waste materials within the site should be controlled to about 10 km/hour in order to reduce the adverse dust impact and secure the safe movement around the site; and ▪ To avoid or minimise dust emission during transport of C&D or waste materials within the site, each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 		
10.5.1.3	7.1	-	<p>The following practices should be performed to achieve waste reduction include:</p> <ul style="list-style-type: none"> ▪ Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; ▪ Adoption of repetitive design to allow reuse of formworks as far as practicable; ▪ 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, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; ▪ Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; ▪ Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	Project Site Area / Construction Phase	I
10.5.1.5	7.1		<ul style="list-style-type: none"> ▪ Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials. 	Project Site Area / Construction Phase	I
10.5.1.5	7.1	-	<ul style="list-style-type: none"> ▪ Any recyclable materials should be segregated from the non-inert C&D materials for collection by 	Project Site Area /	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
			reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Construction Phase	
10.5.1.6	7.1	-	<ul style="list-style-type: none"> A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping. 	Project Site Area / Construction Phase	I
10.5.1.6	7.1	2.32	<ul style="list-style-type: none"> The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices. 	Construction Phase	I
10.5.1.16	7.1	-	<p>The following mitigation measures are recommended during excavation and treatment of the sediments:</p> <ul style="list-style-type: none"> On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions; The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions; All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission; Good housekeeping should be maintained at all times at the sediment treatment facility and storage area; Treated and untreated sediment should be clearly separated and stored separately; and Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge. 	Project Site Area / Construction Phase	N/A
10.5.1.18	7.1	-	<p>The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:</p> <ul style="list-style-type: none"> Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 	Project Site Area / Construction Phase	N/A
10.5.1.19	7.1	-	<p>Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:</p> <ul style="list-style-type: none"> Good quality containers compatible with the chemical wastes should be used; Incompatible chemicals should be stored separately; Appropriate labels must be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc; and 	Project Site Area / Construction Phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
			<ul style="list-style-type: none"> The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 		
10.5.1.20	7.1	-	<ul style="list-style-type: none"> General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material. 	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	<ul style="list-style-type: none"> The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse. 	Project Site Area / Construction Phase	N/A
Land Contamination – Construction Phase					
11.10.1.2 to 11.10.1.3	8.1	2.32	<p>For areas inaccessible during site reconnaissance survey</p> <ul style="list-style-type: none"> Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas. Subject to further site reconnaissance findings, a supplementary Contamination Assessment Plan (CAP) for additional site investigation (SI) (if necessary) may be prepared and submitted to EPD for endorsement prior to the commencement of SI at these areas. After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room. Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively. 	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	N/A
11.8.1.2	8.1	-	<p>If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):</p> <ul style="list-style-type: none"> To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; Stockpiling of contaminated excavated materials on site should be avoided as far as possible; The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and/or 	Project Site Area / Construction Phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ?^
			<p>release of contaminated wastewater;</p> <ul style="list-style-type: none"> Truck bodies and tailgates should be sealed to prevent any discharge; Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; Speed control for trucks carrying contaminated materials should be exercised. 8km/h is the recommended speed limit; Strictly observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and Maintain records of waste generation and disposal quantities and disposal arrangements. 		
Terrestrial Ecological Impact – Construction Phase					
12.10.1.1	9.2	2.14	<p>Pre-construction Egretty Survey</p> <ul style="list-style-type: none"> Conduct ecological survey for Sha Chau egretty to update the latest boundary of the egretty. 	Breeding season (April - July) prior to commencement of HDD drilling works at HKIA	I
12.7.2.3 and 12.7.2.6	9.1	2.30	<p>Avoidance and Minimisation of Direct Impact to Egretty</p> <ul style="list-style-type: none"> The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretty. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretty; In any event, controls such as demarcation of construction site boundary and confining the lighting within the site will be practised to minimise disturbance to off-site habitat at Sheung Sha Chau Island; and The containment pit at the daylighting location shall be covered or camouflaged. 	During construction phase at Sheung Sha Chau Island	I
12.7.2.5	9.1	2.30	<p>Preservation of Nesting Vegetation</p> <ul style="list-style-type: none"> The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved. 	During construction phase at Sheung Sha Chau Island	I
12.7.2.4 and 12.7.2.6	9.1	2.30	<p>Timing the Pipe Connection Works outside Ardeid's Breeding Season</p> <ul style="list-style-type: none"> All HDD and related construction works on Sheung Sha Chau Island will be scheduled outside the ardeids' breeding season (between April and July). No night-time construction work will be allowed on Sheung Sha Chau Island during all seasons. 	During construction phase at Sheung Sha Chau Island	I
12.10.1.1	9.3	-	<p>Ecological Monitoring</p> <ul style="list-style-type: none"> During the HDD construction works period from August to March, ecological monitoring will be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found. 	at Sheung Sha Chau Island	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
Marine Ecological Impact – Pre-construction Phase					
13.11.4.1	10.2.2	-	<ul style="list-style-type: none"> Pre-construction phase Coral Dive Survey. 	HKIAAA artificial seawall	I
Marine Ecological Impact – Construction Phase					
13.11.1.3 to 13.11.1.6	-	-	Minimisation of Land Formation Area <ul style="list-style-type: none"> Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population. 	Land formation footprint / during detailed design phase to completion of construction	N/A
13.11.1.7 to 13.11.1.10	-	2.31	Use of Construction Methods with Minimal Risk/Disturbance <ul style="list-style-type: none"> Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment; Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; Avoid bored piling during CWD peak calving season (Mar to Jun); Prohibition of underwater percussive piling; and Use of horizontal directional drilling (HDD) method and water jetting methods for placement of submarine cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources. 	During construction phase at marine works area	N/A
13.11.2.1 to 13.11.2.7	-	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality <ul style="list-style-type: none"> Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources. 	All works area during the construction phase	N/A
13.11.1.12	-	-	Strict Enforcement of No-Dumping Policy <ul style="list-style-type: none"> A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would 	All works area during the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
			<p>potentially be harmful to dolphins and/or their habitat in the work area;</p> <ul style="list-style-type: none"> ▪ Mandatory educational programme of the no-dumping policy be made available to all construction site personnel for all project-related works; ▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented. 		
13.11.1.13	-	-	<p>Good Construction Site Practices</p> <ul style="list-style-type: none"> ▪ Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; ▪ Keep the number of working or stationary vessels present on-site to the minimum anytime; and ▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 	All works area during the construction phase	N/A
13.11.5.4 to 13.11.5.13	10.3.1	-	<p>SkyPier High Speed Ferries' Speed Restrictions and Route Diversions</p> <ul style="list-style-type: none"> ▪ SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and ▪ A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times. <p>Other mitigation measures</p> <ul style="list-style-type: none"> ▪ The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and ▪ The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed. 	Area between the footprint and SCLKC Marine Park during construction phase	I
13.11.5.14 to 13.11.5.18	10.3.1	2.31	<p>Dolphin Exclusion Zone</p> <ul style="list-style-type: none"> ▪ Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas; ▪ A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and ▪ A DEZ would also be implemented during bored piling work but as a precautionary measure only. 	Marine waters around land formation works area during construction phase	N/A
13.11.5.19	10.4	2.31	<p>Acoustic Decoupling of Construction Equipment</p> <ul style="list-style-type: none"> ▪ Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically-decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and 	Around coastal works area during construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
			<ul style="list-style-type: none"> Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works. 		
13.11.5.20	10.6.1	2.29	<p>Spill Response Plan</p> <ul style="list-style-type: none"> An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage. 	Construction phase	I
13.11.5.21 to 13.11.5.23	10.6.1	-	<p>Construction Vessel Speed Limits and Skipper Training</p> <ul style="list-style-type: none"> A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities; and Vessels traversing through the work areas should be required to use predefined and regular routes (which would presumably become known to resident dolphins) to reduce disturbance to cetaceans due to vessel movements. Specific marine routes shall be specified by the Contractor prior to construction commencing. 	All areas north and west of Lantau Island during construction phase	N/A
Fisheries Impact – Construction Phase					
14.9.1.2 to 14.9.1.5	-	-	<p>Minimisation of Land Formation Area</p> <ul style="list-style-type: none"> Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources. 	Land formation footprint / during detailed design phase to completion of construction	N/A
14.9.1.6	-	-	<p>Use of Construction Methods with Minimal Risk/Disturbance</p> <ul style="list-style-type: none"> Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment; Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 	During construction phase at marine works area	N/A
14.9.1.11	-	-	<p>Strict Enforcement of No-Dumping Policy</p> <ul style="list-style-type: none"> A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; Mandatory educational programme of the no-dumping policy be made available to all construction site personnel for all project-related works; 	All works area during the construction phase	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
			<ul style="list-style-type: none"> Fines for infractions should be implemented; and Unscheduled, on-site audits shall be implemented. 		
14.9.1.12	-		<p>Good Construction Site Practices</p> <ul style="list-style-type: none"> Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; Keep the number of working or stationary vessels present on-site to the minimum anytime; and Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 	All works area during the construction phase	N/A
14.9.1.13 to 14.9.1.18	-		<p>Mitigation for Indirect Disturbance due to Deterioration of Water Quality</p> <ul style="list-style-type: none"> Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 	All works area during the construction phase	N/A
Landscape and Visual Impact – Construction Phase					
Table 15.6	12.3	-	CM1 - The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	CM4 - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	completion of works. All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases	N/A
Table 15.6	12.3	-	CM6 - Avoidance of excessive height and bulk of site buildings and structures.	New passenger concourse, terminal 2 expansion and other proposed airport related buildings and structures under the project; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	CM7 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases	N/A
Table 15.6	12.3	-	CM8 - All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas.	All existing trees to be retained; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM9 - Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	CM10 - Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works;	N/A

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented ? [^]
				Upon handover and completion of works.	
Cultural Heritage Impact – Construction Phase					
	-		Not applicable.		
Health Impact – Aircraft Emissions					
	-		Not applicable.		
Health Impact – Aircraft Noise					
	-		Not applicable.		

Notes:

I= implemented where applicable; N/A= not applicable to the construction works implemented during the reporting month.

[^] Checked by ET during site inspection



Appendix B. Calibration Certificates

EQUIPMENT CALIBRATION RECORD

Type :	Laser Dust Monitor
Manufacturer / Brand :	SIBATA
Model No.:	LD-3B
Equipment No.:	LD-3B-002
Serial No.:	974350
Sensitivity Adjustment Scale Setting :	622 CPM

Standard Equipment

Equipment :	MFC High Volume Air Sampler
Venue :	Tung Chung Pier
Model No.:	TE-5170 Total Suspended Particulate
Serial No.:	S/N3641
Previous Calibration Date	05/10/2015

Calibration Result

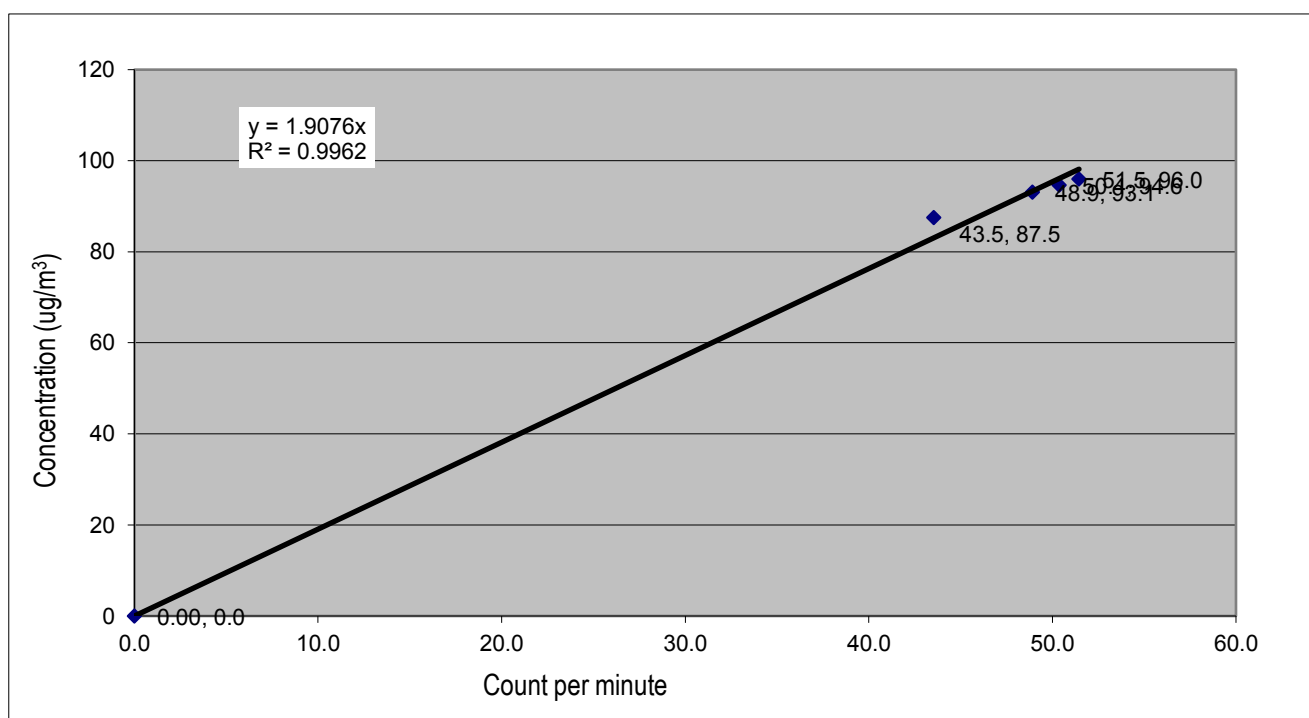
Sensitivity Adjustment Scale Setting (Before Calibration) :	622 CPM
Sensitivity Adjustment Scale Setting (After Calibration) :	622 CPM

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m ³) Y-axis	Total Count	Count/Minute X-axis
				Temp (C)	R.H. (%)			
1	25-Nov-15	14:20	15:20	23.6	68%	87.5	2612	43.5
2	25-Nov-15	15:34	16:34	24.8	60%	93.1	2934	48.9
3	25-Nov-15	16:50	17:50	23.8	60%	96.0	3087	51.5
4	25-Nov-15	18:00	19:00	23.5	50%	94.6	3022	50.4

Be Linear Regression of Y or X

Slope (K-factor): 1.9076
 Correlation coefficient : 0.9962

Remark: _____



Recorded by: Ray Cheng

Signature: _____

Date: 30/11/2015

Checked by: Ketih Chau

Signature: _____

Date: 30/11/2015

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS2(Tung Chung Development Pier)
Calibrated by : P.F.Yeung
Date : 27/11/2015

Sampler

Model : TE-5170
Serial Number : S/N3641

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 24 Mar 2015
Slope (m) : 2.09532
Intercept (b) : -0.03812
Correlation Coefficient(r) : 0.99994

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1022
Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	11.6	3.456	1.668	58	58.85
2 13 holes	9.4	3.111	1.503	52	52.76
3 10 holes	6.8	2.646	1.281	45	45.66
4 7 holes	4.5	2.153	1.045	36	36.53
5 5 holes	2.8	1.698	0.829	28	28.41

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{ \sqrt{Pa/Pstd}(Tstd/Ta) \}$

Sampler Calibration Relationship

Slope(m): 36.132 Intercept(b): -1.267

Correlation Coefficient(r): 0.9995

Checked by: Magnum Fan

Date: 03/12/2015



Certificate of Calibration

校正證書

Certificate No. : C153871
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC15-1591) Date of Receipt / 收件日期 : 16 July 2015

Description / 儀器名稱 : Integrating Sound Level Meter
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 2238
Serial No. / 編號 : 2800932
Supplied By / 委託者 : Atkins China Limited
19/F., Tower 1, The Gateway Harbour City,
Tsim Sha Tsui, Kowloon

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 18 July 2015

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By : 
測試

K O Lee
Project Engineer

Certified By : 
核證

K M Wu
Engineer

Date of Issue : 21 July 2015
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C153871
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration using the B & K Acoustic Calibrator 4231, S/N : 3004068 was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C150014
CL281	Multifunction Acoustic Calibrator	DC130171

- Test procedure : MA101N.

- Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	± 0.7

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	Ref.
	L _{ASP}		S			94.1	± 0.1
	L _{AIP}		I			94.1	± 0.1

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C153871

證書編號

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
30 - 110	L _{AFP}	A	F	106.0	Continuous	106.0	Ref.
	L _{AFMax}				200 ms	105.0	-1.0 ± 1.0
	L _{ASP}	S	Continuous		106.0	Ref.	
	L _{ASMax}		500 ms		102.0	-4.1 ± 1.0	

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{AFP}	A	F	94.00	31.5 Hz	54.8	-39.4 ± 1.5
					63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.0
					250 Hz	85.4	-8.6 ± 1.0
					500 Hz	90.8	-3.2 ± 1.0
					1 kHz	94.1	Ref.
					2 kHz	95.3	+1.2 ± 1.0
					4 kHz	95.1	+1.0 ± 1.0
					8 kHz	92.9	-1.1 (+1.5 ; -3.0)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{CFP}	C	F	94.00	31.5 Hz	91.2	-3.0 ± 1.5
					63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.0
					250 Hz	94.1	0.0 ± 1.0
					500 Hz	94.1	0.0 ± 1.0
					1 kHz	94.1	Ref.
					2 kHz	93.9	-0.2 ± 1.0
					4 kHz	93.2	-0.8 ± 1.0
					8 kHz	91.0	-3.0 (+1.5 ; -3.0)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C153871
證書編號

6.4 Time Averaging

UUT Setting				Applied Value					UUT	IEC 60804
Range (dB)	Parameter	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
30 - 110	L _{Aeq}	A	10 sec.	4	1	1/10	110.0	100	100.0	± 0.5
			60 sec.					90	90.2	± 0.5
			5 min.					80	79.7	± 1.0
								70	69.8	± 1.0

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2793 199

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value :

94 dB : 31.5 Hz - 125 Hz	: ± 0.35 dB
250 Hz - 500 Hz	: ± 0.30 dB
1 kHz	: ± 0.20 dB
2 kHz - 4kHz	: ± 0.35 dB
8 kHz	: ± 0.45 dB
12.5 kHz	: ± 0.70 dB
104 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
Burst equivalent level	: ± 0.2 dB (Ref. 110 dB continuous sound level)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室所書面批准。



Certificate of Calibration 校正證書

Certificate No. : C155032
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC15-2021) Date of Receipt / 收件日期 : 2 September 2015

Description / 儀器名稱 : Integrating Sound Level Meter
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 2238
Serial No. / 編號 : 2381580
Supplied By / 委託者 : Atkins China Limited
19/F., Tower 1, The Gateway Harbour City,
Tsim Sha Tsui, Kowloon

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(55 \pm 20)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 9 September 2015

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By : 
測試 : _____
H T Wong
Technical Officer

Certified By : 
核證 : _____
K C Lee
Project Engineer

Date of Issue : 11 September 2015
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C155032

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.4.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C150014
CL281	Multifunction Acoustic Calibrator	DC130171

- Test procedure : MA101N.

- Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

- 6.1.1.1 Before Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.2

- 6.1.1.2 After Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.0	± 0.7

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C155032

證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.0	Ref.
	L _{ASP}		S			94.1	± 0.1
	L _{AIP}		I			94.1	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
30 - 110	L _{AFP}	A	F	106.0	Continuous	106.0	Ref.
	L _{AFMax}				200 ms	105.0	-1.0 ± 1.0
	L _{ASP}	S	Continuous		106.0	Ref.	
	L _{ASMax}		500 ms		102.0	-4.1 ± 1.0	

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{AFP}	A	F	94.00	31.5 Hz	54.8	-39.4 ± 1.5
					63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.0
					250 Hz	85.3	-8.6 ± 1.0
					500 Hz	90.7	-3.2 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	95.2	+1.2 ± 1.0
					4 kHz	95.0	+1.0 ± 1.0
					8 kHz	92.9	-1.1 (+1.5 ; -3.0)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C155032
證書編號

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{CFP}	C	F	94.00	31.5 Hz	91.1	-3.0 ± 1.5
					63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.0
					250 Hz	94.0	0.0 ± 1.0
					500 Hz	94.0	0.0 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	93.8	-0.2 ± 1.0
					4 kHz	93.2	-0.8 ± 1.0
					8 kHz	91.0	-3.0 (+1.5 ; -3.0)
					12.5 kHz	87.9	-6.2 (+3.0 ; -6.0)

6.4 Time Averaging

UUT Setting				Applied Value					UUT Reading (dB)	IEC 60804 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)		
30 - 110	L _{Aeq}	A	10 sec.	4	1	1/10	110.0	100	99.9	± 0.5
			60 sec.					90	90.0	± 0.5
			5 min.					80	79.2	± 1.0
								70	69.2	± 1.0

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2379759

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value :

94 dB	31.5 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	1 kHz	: ± 0.10 dB (Ref. 94 dB)
	Burst equivalent level	: ± 0.2 dB (Ref. 110 dB continuous sound level)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration 校正證書

Certificate No. : C162569
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-1066)

Date of Receipt / 收件日期 : 12 May 2016

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3003246
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check


DATE OF TEST / 測試日期 : 16 May 2016

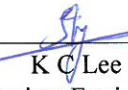
TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By : 
測試 : H T Wong
Technical Officer

Certified By : 
核證 : K C Lee
Project Engineer

Date of Issue : 16 May 2016
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C162569

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C153519
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate of Calibration

校正證書

Certificate No. : C153870
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC15-1591)

Date of Receipt / 收件日期 : 16 July 2015

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3004068
Supplied By / 委託者 : Atkins China Limited
19/F., Tower 1, The Gateway Harbour City,
Tsim Sha Tsui, Kowloon

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check


DATE OF TEST / 測試日期 : 18 July 2015

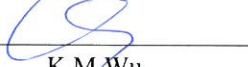
TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By : 
測試 : _____
K O Lee
Project Engineer

Certified By : 
核證 : _____
K M Wu
Engineer

Date of Issue : 21 July 2015
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C153870

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C153519
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C141558

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Appendix C. Monitoring Schedule

Monitoring Schedule of This Reporting Period

JUNE 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Site Inspection	2 NM5/AR2 NM6	3 AR1A NM4	4
5	6	7 NM1A/AR1A NM6	8 NM5/AR2 NM3A Site Inspection	9	10 AR1A NM4	11
12	13 NM6 Site Inspection	14 NM5/AR2 NM3A	15 NM1A/AR1A NM4	16	17	18
19	20 NM5/AR2 NM3A	21 NM1A/AR1A NM4	22 Site Inspection	23 NM6	24 AR2	25
26	27 NM1A/AR1A NM4	28	29 NM6 Site Inspection	30 NM5/AR2 NM3A AR1A		
		Notes: NM1A/AR1A - Man Tung Road Park NM3A - Site Office NM4 - Ching Chung Hau Po Woon Primary School NM5/AR2 - Village House, Tin Sum NM6 - House No. 1, Sha Lo Wan				

Tentative Monitoring Schedule of Next Reporting Period

JULY 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5 NM1A/AR1A NM4 NM6	6 NM5/AR2 NM3A Site Inspection	7	8	9
10	11 NM1A/AR1A NM4 NM6	12 NM5/AR2 NM3A	13 Site Inspection	14	15 AR1A	16
17	18 NM5/AR2 NM3A	19	20 Site Inspection	21 NM1A/AR1A NM4 NM6	22 AR2	23
24	25	26	27 NM1A/AR1A NM4 NM6 Site Inspection	28 NM5/AR2 NM3A	29	30
31		Notes: NM1A/AR1A - Man Tung Road Park NM3A - Site Office NM4 - Ching Chung Hau Po Woon Primary School NM5/AR2 - Village House, Tin Sum NM6 - House No. 1, Sha Lo Wan				



Appendix D. Monitoring Results

Air Quality Monitoring Results

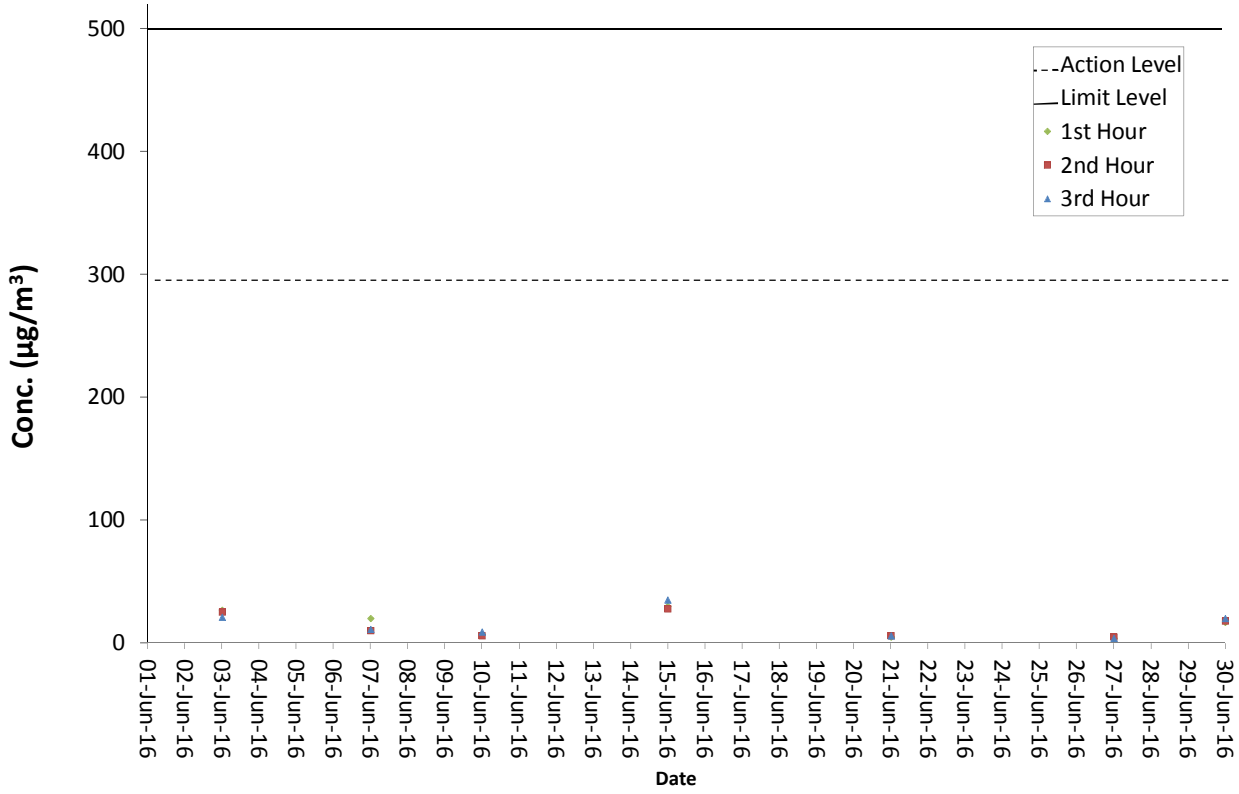
1-hour TSP Results**Station: AR1A- Man Tung Road Park**

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
03-Jun-16	08:42	Fine	7.8	236	27	306	500
03-Jun-16	09:42	Fine	6.7	231	25	306	500
03-Jun-16	10:42	Fine	8.0	229	21	306	500
07-Jun-16	13:40	Cloudy	2.2	313	20	306	500
07-Jun-16	14:40	Cloudy	2.4	152	10	306	500
07-Jun-16	15:40	Cloudy	4.5	142	11	306	500
10-Jun-16	08:50	Cloudy	4.4	59	7	306	500
10-Jun-16	09:50	Cloudy	4.2	50	6	306	500
10-Jun-16	10:50	Cloudy	2.5	302	9	306	500
15-Jun-16	13:55	Cloudy	8.8	68	30	306	500
15-Jun-16	14:55	Cloudy	7.5	213	28	306	500
15-Jun-16	15:55	Cloudy	6.7	212	35	306	500
21-Jun-16	08:57	Sunny	2.3	5	5	306	500
21-Jun-16	09:57	Sunny	4.3	342	6	306	500
21-Jun-16	10:57	Sunny	3.6	215	6	306	500
27-Jun-16	13:55	Fine	3.5	273	4	306	500
27-Jun-16	14:55	Fine	4.8	179	5	306	500
27-Jun-16	15:55	Fine	4.0	115	4	306	500
30-Jun-16	13:10	Sunny	5.0	194	17	306	500
30-Jun-16	14:10	Sunny	5.5	166	18	306	500
30-Jun-16	15:10	Sunny	6.8	152	20	306	500

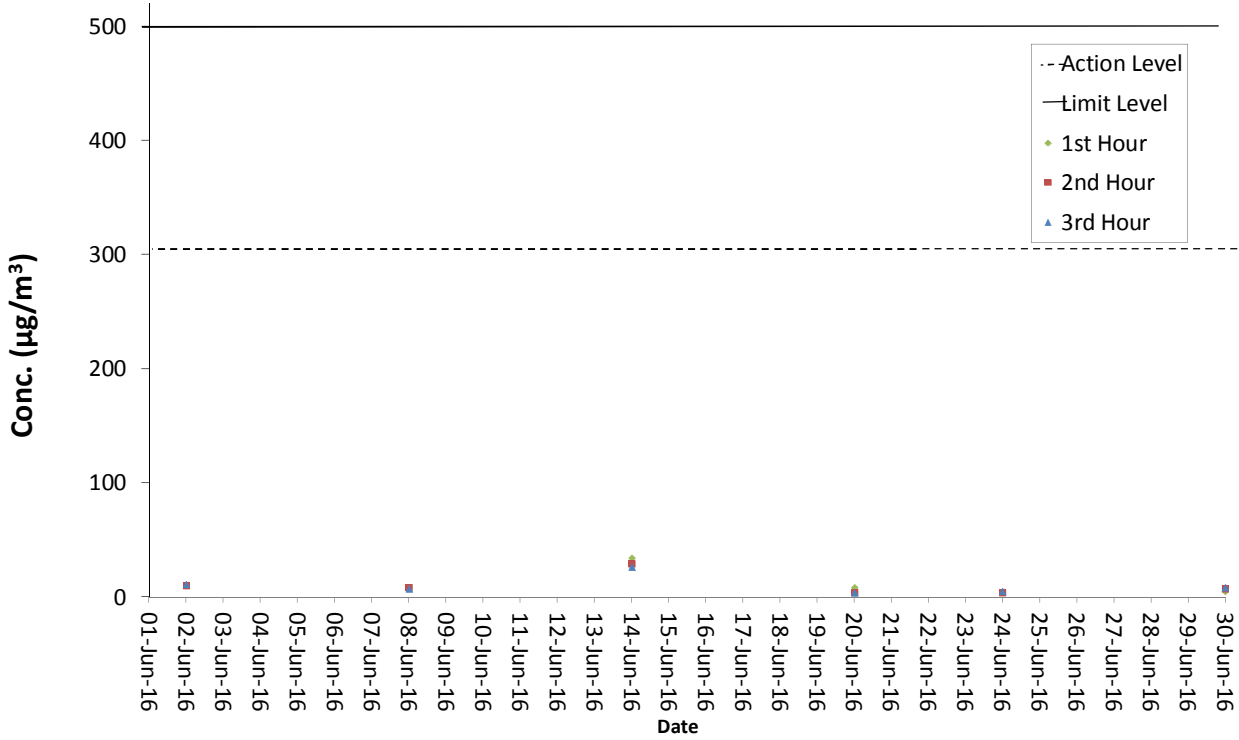
1-hour TSP Results**Station: AR2- Village House, Tin Sum**

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
02-Jun-16	08:50	Sunny	6.4	202	10	298	500
02-Jun-16	09:50	Sunny	5.3	232	10	298	500
02-Jun-16	10:50	Sunny	6.1	240	11	298	500
08-Jun-16	08:45	Cloudy	3.5	68	8	298	500
08-Jun-16	09:45	Cloudy	4.3	59	8	298	500
08-Jun-16	10:45	Cloudy	1.4	38	7	298	500
14-Jun-16	08:55	Cloudy	7.2	221	34	298	500
14-Jun-16	09:55	Cloudy	7.4	229	29	298	500
14-Jun-16	10:55	Cloudy	9.4	227	26	298	500
20-Jun-16	08:45	Sunny	2.0	350	8	298	500
20-Jun-16	09:45	Sunny	2.2	297	4	298	500
20-Jun-16	10:45	Sunny	3.9	317	4	298	500
24-Jun-16	08:50	Sunny	2.6	9	4	298	500
24-Jun-16	09:50	Sunny	1.9	348	4	298	500
24-Jun-16	10:50	Sunny	2.8	285	5	298	500
30-Jun-16	08:45	Sunny	3.6	179	5	298	500
30-Jun-16	09:45	Sunny	6.1	200	7	298	500
30-Jun-16	10:45	Sunny	4.8	197	8	298	500

AR1A 1-Hour TSP



AR2 1-Hour TSP





Noise Monitoring Results

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
07-Jun-16	Cloudy	15:50	72.0	59.0	72
07-Jun-16	Cloudy	15:55	71.0	58.5	
07-Jun-16	Cloudy	16:00	72.0	61.0	
07-Jun-16	Cloudy	16:05	71.5	61.0	
07-Jun-16	Cloudy	16:10	74.0	63.5	
07-Jun-16	Cloudy	16:15	70.5	64.5	
15-Jun-16	Cloudy	15:56	72.0	60.0	72
15-Jun-16	Cloudy	16:01	72.5	57.5	
15-Jun-16	Cloudy	16:06	73.0	58.0	
15-Jun-16	Cloudy	16:11	72.0	59.0	
15-Jun-16	Cloudy	16:16	70.5	59.5	
15-Jun-16	Cloudy	16:21	71.5	59.5	
21-Jun-16	Sunny	10:06	71.0	59.0	73
21-Jun-16	Sunny	10:11	72.0	59.0	
21-Jun-16	Sunny	10:16	73.5	59.5	
21-Jun-16	Sunny	10:21	70.5	58.0	
21-Jun-16	Sunny	10:26	71.5	58.5	
21-Jun-16	Sunny	10:31	75.5	58.0	
27-Jun-16	Fine	15:00	71.5	56.5	71
27-Jun-16	Fine	15:05	72.0	59.0	
27-Jun-16	Fine	15:10	72.0	59.0	
27-Jun-16	Fine	15:15	69.0	61.0	
27-Jun-16	Fine	15:20	68.5	64.5	
27-Jun-16	Fine	15:25	69.5	60.0	

Remarks:

+3dB (A) correction was applied to free-field measurement

Noise Measurement Results

Station: NM3A- Site Office

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
08-Jun-16	Fine	14:06	78.0	62.0	63
08-Jun-16	Fine	14:11	64.0	60.5	
08-Jun-16	Fine	14:16	64.0	60.5	
08-Jun-16	Fine	14:21	64.0	61.5	
08-Jun-16	Fine	14:26	64.0	61.5	
08-Jun-16	Fine	14:31	64.5	61.5	
14-Jun-16	Fine	14:26	65.5	62.5	61
14-Jun-16	Fine	14:31	65.5	63.0	
14-Jun-16	Fine	14:36	65.5	63.0	
14-Jun-16	Fine	14:41	66.5	63.0	
14-Jun-16	Fine	14:46	65.0	62.5	
14-Jun-16	Fine	14:51	65.0	62.5	
20-Jun-16	Sunny	14:13	63.0	61.0	62
20-Jun-16	Sunny	14:18	62.0	61.0	
20-Jun-16	Sunny	14:23	62.0	61.0	
20-Jun-16	Sunny	14:28	62.0	61.0	
20-Jun-16	Sunny	14:33	63.5	61.0	
20-Jun-16	Sunny	14:38	62.5	61.0	
30-Jun-16	Fine	14:23	62.5	60.0	61
30-Jun-16	Fine	14:28	61.0	60.0	
30-Jun-16	Fine	14:33	61.5	59.5	
30-Jun-16	Fine	14:38	60.5	59.5	
30-Jun-16	Fine	14:43	62.0	59.5	
30-Jun-16	Fine	14:48	63.5	59.0	

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Won Primary School

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
10-Jun-16	Fine	13:10	63.0	59.5	65
10-Jun-16	Fine	13:15	66.5	59.0	
10-Jun-16	Fine	13:20	63.5	58.5	
10-Jun-16	Fine	13:25	63.5	58.0	
10-Jun-16	Fine	13:30	63.0	58.0	
10-Jun-16	Fine	13:35	64.0	58.0	
15-Jun-16	Cloudy	13:00	64.0	59.5	60
15-Jun-16	Cloudy	13:05	66.0	60.5	
15-Jun-16	Cloudy	13:10	66.0	61.0	
15-Jun-16	Cloudy	13:15	65.5	62.0	
15-Jun-16	Cloudy	13:20	66.5	63.5	
15-Jun-16	Cloudy	13:25	69.0	60.5	
21-Jun-16	Sunny	13:16	63.5	60.0	65
21-Jun-16	Sunny	13:21	64.0	60.0	
21-Jun-16	Sunny	13:26	62.5	59.5	
21-Jun-16	Sunny	13:31	63.0	59.0	
21-Jun-16	Sunny	13:36	62.5	59.0	
21-Jun-16	Sunny	13:41	64.0	59.0	
27-Jun-16	Fine	13:00	65.0	62.0	66
27-Jun-16	Fine	13:05	64.5	62.0	
27-Jun-16	Fine	13:10	65.0	62.0	
27-Jun-16	Fine	13:15	64.0	60.5	
27-Jun-16	Fine	13:20	62.5	58.5	
27-Jun-16	Fine	13:25	62.5	59.0	

Remarks:

+3dB (A) correction was applied to free-field measurement.

The examination period for NM4 was between 2 and 8 June 2016.

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
02-Jun-16	Sunny	09:06	68.5	66.0	66
02-Jun-16	Sunny	09:11	71.0	56.0	
02-Jun-16	Sunny	09:16	64.0	51.5	
02-Jun-16	Sunny	09:21	62.5	53.0	
02-Jun-16	Sunny	09:26	56.0	48.5	
02-Jun-16	Sunny	09:31	53.0	46.5	
08-Jun-16	Cloudy	09:08	66.0	61.0	62
08-Jun-16	Cloudy	09:13	66.0	58.5	
08-Jun-16	Cloudy	09:18	63.0	56.5	
08-Jun-16	Cloudy	09:23	59.5	55.0	
08-Jun-16	Cloudy	09:28	57.0	51.5	
08-Jun-16	Cloudy	09:33	63.5	58.0	
14-Jun-16	Cloudy	09:06	58.5	52.0	59
14-Jun-16	Cloudy	09:11	63.5	53.0	
14-Jun-16	Cloudy	09:16	64.0	48.0	
14-Jun-16	Cloudy	09:21	55.0	47.0	
14-Jun-16	Cloudy	09:26	55.0	47.5	
14-Jun-16	Cloudy	09:31	53.5	47.0	
20-Jun-16	Sunny	08:55	49.5	43.5	61
20-Jun-16	Sunny	09:00	50.0	43.0	
20-Jun-16	Sunny	09:05	66.5	43.0	
20-Jun-16	Sunny	09:10	58.0	44.0	
20-Jun-16	Sunny	09:15	66.5	45.0	
20-Jun-16	Sunny	09:20	68.0	43.0	
30-Jun-16	Sunny	09:20	52.0	44.0	55
30-Jun-16	Sunny	09:25	62.4	44.5	
30-Jun-16	Sunny	09:30	53.0	45.0	
30-Jun-16	Sunny	09:35	52.0	45.5	
30-Jun-16	Sunny	09:40	51.0	45.0	
30-Jun-16	Sunny	09:45	51.5	46.5	

Remarks:

+3dB (A) correction was applied to free-field measurement

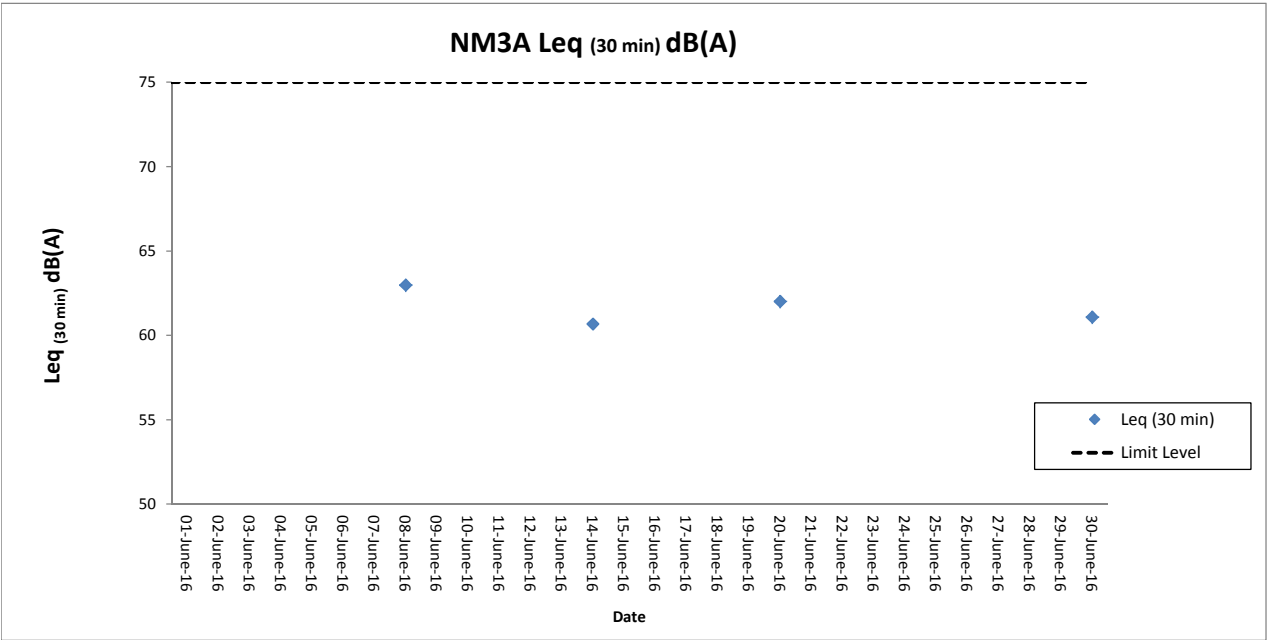
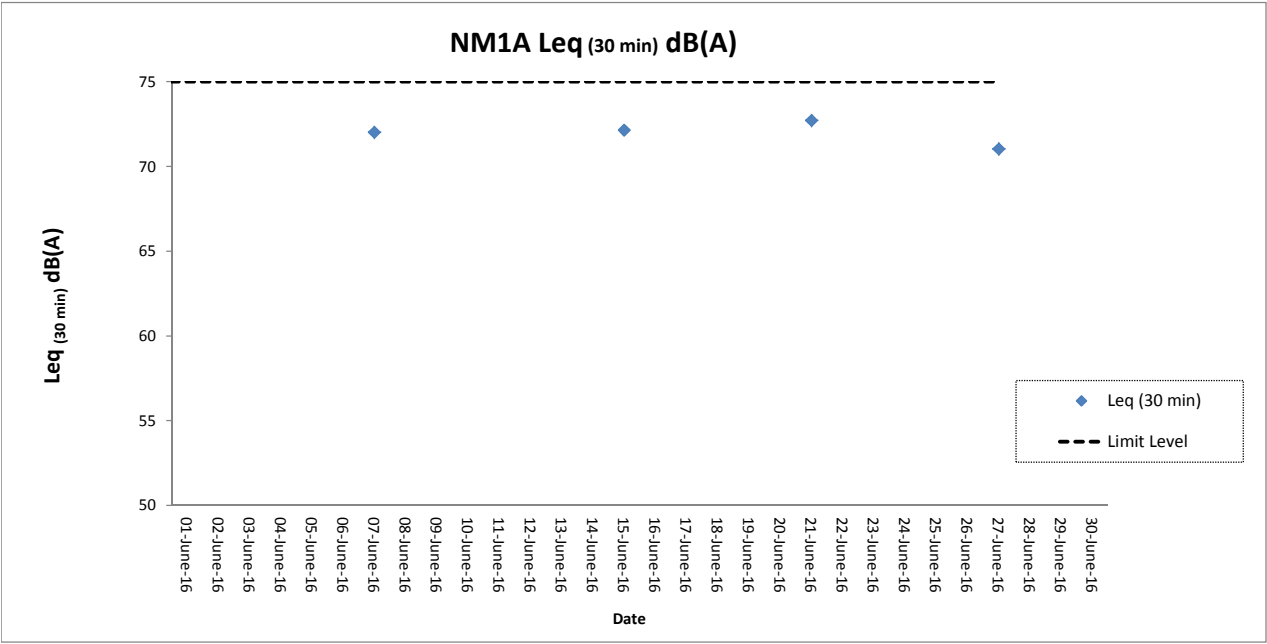
Noise Measurement Results

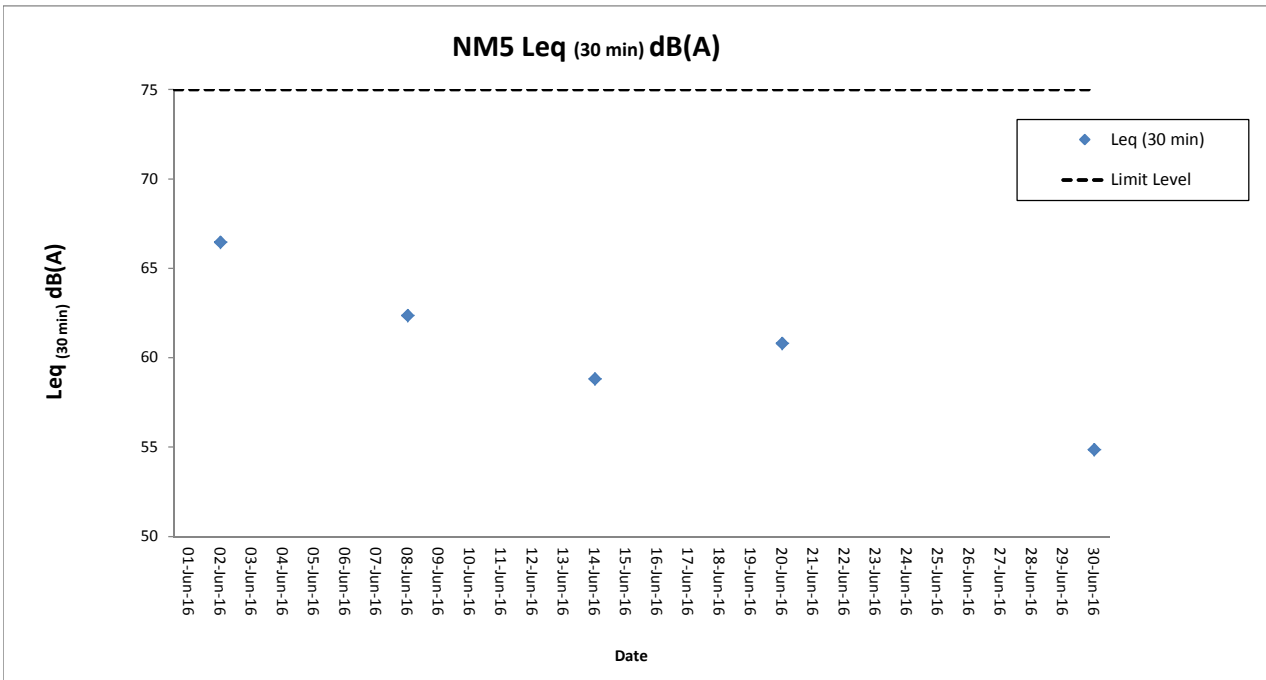
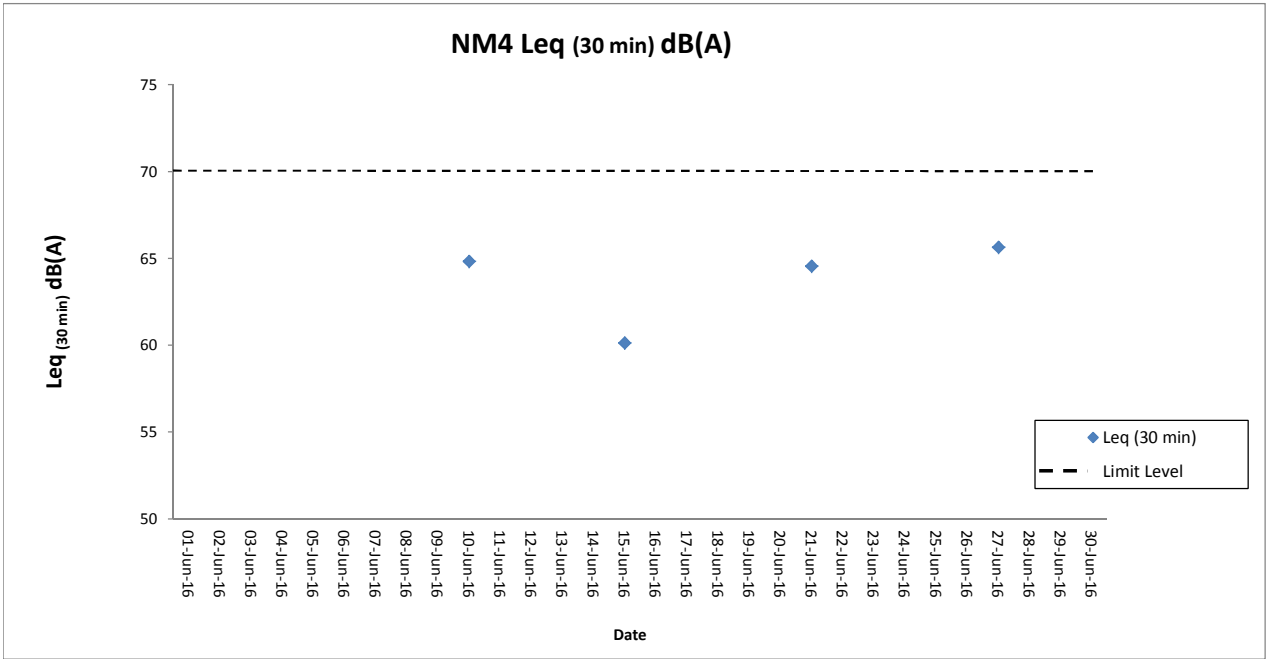
Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
02-Jun-16	Sunny	09:38	75.5	56.0	70
02-Jun-16	Sunny	09:43	72.5	55.5	
02-Jun-16	Sunny	09:48	72.5	54.5	
02-Jun-16	Sunny	09:53	72.0	54.5	
02-Jun-16	Sunny	09:58	70.5	55.5	
02-Jun-16	Sunny	10:03	73.0	56.0	
07-Jun-16	Sunny	09:42	65.5	56.0	68
07-Jun-16	Sunny	09:47	65.5	55.5	
07-Jun-16	Sunny	09:52	69.5	56.0	
07-Jun-16	Sunny	09:57	67.5	55.5	
07-Jun-16	Sunny	10:02	76.5	58.5	
07-Jun-16	Sunny	10:07	72.5	58.5	
13-Jun-16	Cloudy	09:47	74.5	59.5	71
13-Jun-16	Cloudy	09:52	73.0	60.5	
13-Jun-16	Cloudy	09:57	75.0	60.0	
13-Jun-16	Cloudy	10:02	74.5	59.0	
13-Jun-16	Cloudy	10:07	68.0	58.5	
13-Jun-16	Cloudy	10:12	73.5	59.0	
23-Jun-16	Sunny	09:43	72.5	55.0	70
23-Jun-16	Sunny	09:48	76.5	56.0	
23-Jun-16	Sunny	09:53	74.0	56.5	
23-Jun-16	Sunny	09:58	69.0	54.5	
23-Jun-16	Sunny	10:03	75.0	56.5	
23-Jun-16	Sunny	10:08	73.0	55.5	
29-Jun-16	Sunny	09:42	67.0	56.0	66
29-Jun-16	Sunny	09:47	65.0	55.0	
29-Jun-16	Sunny	09:52	69.0	56.0	
29-Jun-16	Sunny	09:57	65.0	52.5	
29-Jun-16	Sunny	10:02	64.5	52.5	
29-Jun-16	Sunny	10:07	64.5	54.0	

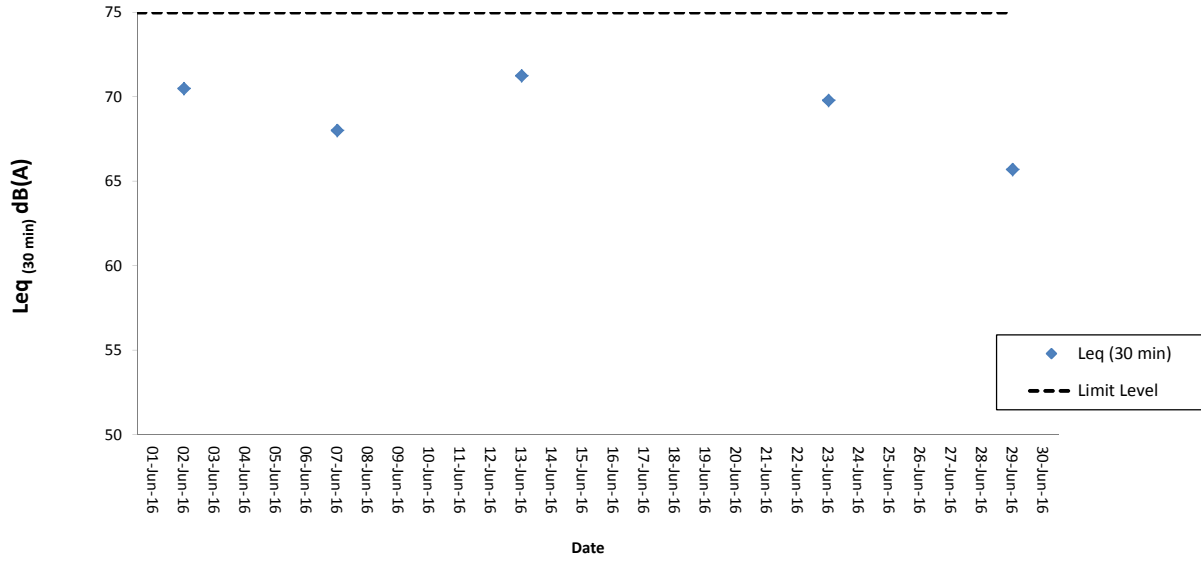
Remarks:

+3dB (A) correction was applied to free-field measurement





NM6 Leq (30 min) dB(A)



Appendix E. Status of Environmental Permits and Licences

Statutory Reference	Description		Permit/ Reference No.	Status
EIAO	Environmental Permit		EP-489/2014	Approved on 7 Nov 2014
Contract No.	Description	Location	Permit/ Reference No.	Status
<i>P560 (R)</i>	Notification of Construction Work under APCO	Launching Site	397150	Receipt acknowledged by EPD on 15 Jan 2016
		Site Office	397151	
		Stockpiling Area	398015	
	Construction Noise Permit (General Works)	Launching Site	GW-RS0334-16	Approved on 5 Apr 2016
		CAD Antenna Farm and North Runway	GW-RS0500-16	Approved on 18 May 2016
		Site Office	GW-RS0421-16	Approved on 3 May 2016
		Stockpiling Area	GW-RS0338-16	Approved on 5 Apr 2016
	Discharge License under WPCO	Launching Site	WT00024249-2016	Approved on 25 Apr 2016
		Stockpiling Area	WT00024250-2016	Approved on 25 Apr 2016
	Registration as Chemical Waste Producer	Launching Site	WPN 5213-951-L2902-01	Completion of Registration on 11 Jan 2016
		Stockpiling Area	WPN 5213-951-L2902-02	Completion of Registration on 24 Mar 2016
	Bill Account for disposal		A/C 7023982	Approval granted from EPD on 14 Dec 2015

Appendix F. Cumulative Statistics on Exceedances, Environmental Complaints, Notification of Summons and Status of Prosecutions

Statistics for Exceedances for the Environmental Monitoring

		Total no. recorded in the reporting month	Total no. recorded since the project commenced
1-hr TSP	Action	0	0
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Waste	Action	0	0
	Limit	0	0

Remark: Exceedances, which are not project related, are not shown in this table.

Statistics for Complaints, Notifications of Summons and Prosecution

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Prosecutions
This reporting month	0	0	0
From 28 December 2015 to end of the reporting month	0	0	0

Appendix G. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 30 June 2016)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 30 June 2016)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
01-Jun	08:15	3A061	YFT	Arrival	12.8	-	-
01-Jun	08:28	8S210	MFM	Arrival	12.3	-	-
01-Jun	10:06	3A071	MFM	Arrival	11.7	-	-
01-Jun	10:45	3A081	ZUI	Arrival	13.6	-	-
01-Jun	10:46	8S212	MFM	Arrival	11.4	-	-
01-Jun	11:25	8S121	MFM	Departure	10.6	-	-
01-Jun	11:34	3A063	YFT	Arrival	12.7	-	-
01-Jun	11:59	3A168	YFT	Departure	12.5	-	-
01-Jun	12:16	3A181	ZUI	Departure	12.9	-	-
01-Jun	12:54	8S215	MFM	Arrival	11.6	-	-
01-Jun	13:03	3A064	YFT	Arrival	11.2	-	-
01-Jun	13:22	8S123	MFM	Departure	12.9	-	-
01-Jun	13:28	3A082	ZUI	Arrival	12.8	≤5	< 1min
01-Jun	13:37	3A164	YFT	Departure	10.7	-	-
01-Jun	14:16	3A182	ZUI	Departure	11.2	-	-
01-Jun	15:03	3A065	YFT	Arrival	12.1	-	-
01-Jun	16:17	3A167	YFT	Departure	11.2	-	-
01-Jun	16:42	8S218	MFM	Arrival	12.3	-	-
01-Jun	16:51	3A083	ZUI	Arrival	12.5	-	-
01-Jun	17:04	3A183	ZUI	Departure	12.7	-	-
01-Jun	17:06	3A067	YFT	Arrival	10.6	-	-
01-Jun	17:08	8S126	MFM	Departure	12.6	-	-
01-Jun	18:40	3A068	YFT	Arrival	12.5	≤5	< 1min
01-Jun	19:44	3A084	ZUI	Arrival	13.0	-	-
01-Jun	20:11	3A185	ZUI	Departure	13.2	-	-
01-Jun	20:50	8S2113	MFM	Arrival	12.6	-	-
01-Jun	22:01	8S128	MFM	Departure	12.8	-	-
02-Jun	08:17	3A061	YFT	Arrival	11.6	-	-
02-Jun	08:29	8S210	MFM	Arrival	11.7	-	-
02-Jun	09:50	3A071	MFM	Arrival	12.4	-	-
02-Jun	10:38	8S212	MFM	Arrival	12.1	-	-
02-Jun	10:45	3A081	ZUI	Arrival	13.8	-	-
02-Jun	11:06	8S121	MFM	Departure	13.0	-	-
02-Jun	11:30	3A063	YFT	Arrival	13.0	-	-
02-Jun	11:54	3A168	YFT	Departure	13.0	-	-
02-Jun	12:14	3A181	ZUI	Departure	12.6	-	-
02-Jun	12:47	8S215	MFM	Arrival	11.2	-	-
02-Jun	13:00	3A064	YFT	Arrival	11.5	-	-
02-Jun	13:17	8S123	MFM	Departure	9.7	-	-
02-Jun	13:31	3A164	YFT	Departure	12.2	-	-
02-Jun	13:46	3A082	ZUI	Arrival	13.0	-	-
02-Jun	14:34	3A182	ZUI	Departure	14.0	≤5	< 1min
02-Jun	15:03	3A065	YFT	Arrival	12.6	-	-
02-Jun	16:24	3A167	YFT	Departure	12.6	-	-
02-Jun	16:40	8S218	MFM	Arrival	10.8	-	-
02-Jun	16:45	3A083	ZUI	Arrival	12.2	-	-
02-Jun	17:06	3A067	YFT	Arrival	11.9	-	-
02-Jun	17:10	3A183	ZUI	Departure	13.6	-	-
02-Jun	17:14	8S126	MFM	Departure	12.4	-	-
02-Jun	18:54	3A068	YFT	Arrival	12.2	-	-
02-Jun	19:45	3A084	ZUI	Arrival	13.2	-	-
02-Jun	20:25	3A185	ZUI	Departure	12.7	-	-
02-Jun	20:46	8S2113	MFM	Arrival	12.6	-	-
02-Jun	21:57	8S128	MFM	Departure	12.8	-	-
03-Jun	08:13	3A061	YFT	Arrival	13.4	-	-
03-Jun	08:28	8S210	MFM	Arrival	12.3	-	-
03-Jun	09:54	3A071	MFM	Arrival	12.6	-	-
03-Jun	10:44	3A081	ZUI	Arrival	13.0	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
03-Jun	10:49	8S212	MFM	Arrival	12.1	-	-
03-Jun	11:15	8S121	MFM	Departure	9.6	-	-
03-Jun	11:28	3A063	YFT	Arrival	12.8	-	-
03-Jun	11:49	3A168	YFT	Departure	12.9	-	-
03-Jun	12:20	3A181	ZUI	Departure	12.5	-	-
03-Jun	12:53	8S215	MFM	Arrival	11.7	-	-
03-Jun	13:01	3A064	YFT	Arrival	11.7	-	-
03-Jun	13:21	8S123	MFM	Departure	9.9	-	-
03-Jun	13:40	3A164	YFT	Departure	9.7	-	-
03-Jun	13:54	3A082	ZUI	Arrival	12.9	-	-
03-Jun	14:13	3A182	ZUI	Departure	12.8	-	-
03-Jun	15:07	3A065	YFT	Arrival	12.6	-	-
03-Jun	16:25	3A167	YFT	Departure	12.7	-	-
03-Jun	16:40	8S218	MFM	Arrival	10.9	-	-
03-Jun	16:48	3A083	ZUI	Arrival	12.0	-	-
03-Jun	16:56	3A067	YFT	Arrival	11.5	-	-
03-Jun	17:02	8S126	MFM	Departure	10.8	-	-
03-Jun	17:04	3A183	ZUI	Departure	13.2	-	-
03-Jun	18:55	3A068	YFT	Arrival	12.0	-	-
03-Jun	19:47	3A084	ZUI	Arrival	12.4	-	-
03-Jun	20:09	3A185	ZUI	Departure	13.6	-	-
03-Jun	20:56	8S2113	MFM	Arrival	11.8	-	-
03-Jun	22:01	8S128	MFM	Departure	11.9	-	-
04-Jun	08:20	3A061	YFT	Arrival	11.5	-	-
04-Jun	08:57	8S210	MFM	Arrival	8.9	-	-
04-Jun	09:54	3A071	MFM	Arrival	12.2	-	-
04-Jun	10:37	8S212	MFM	Arrival	12.9	-	-
04-Jun	10:42	3A081	ZUI	Arrival	14.0	-	-
04-Jun	11:17	8S121	MFM	Departure	12.8	-	-
04-Jun	11:35	3A063	YFT	Arrival	12.5	-	-
04-Jun	11:52	3A168	YFT	Departure	12.2	-	-
04-Jun	12:13	3A181	ZUI	Departure	12.9	-	-
04-Jun	13:12	3A064	YFT	Arrival	11.7	-	-
04-Jun	13:16	8S215	MFM	Arrival	11.0	-	-
04-Jun	13:31	3A164	YFT	Departure	11.7	-	-
04-Jun	13:50	8S123	MFM	Departure	10.8	-	-
04-Jun	13:55	3A082	ZUI	Arrival	12.6	-	-
04-Jun	14:10	3A182	ZUI	Departure	12.7	-	-
04-Jun	14:59	3A065	YFT	Arrival	11.8	-	-
04-Jun	16:18	3A167	YFT	Departure	12.4	-	-
04-Jun	16:45	8S218	MFM	Arrival	11.8	-	-
04-Jun	16:46	3A083	ZUI	Arrival	12.2	-	-
04-Jun	17:01	3A183	ZUI	Departure	13.0	-	-
04-Jun	17:04	3A067	YFT	Arrival	12.0	-	-
04-Jun	17:08	8S126	MFM	Departure	11.2	-	-
04-Jun	19:04	3A068	YFT	Arrival	11.1	-	-
04-Jun	19:55	3A084	ZUI	Arrival	12.3	-	-
04-Jun	20:19	3A185	ZUI	Departure	11.9	-	-
04-Jun	21:05	8S2113	MFM	Arrival	10.6	-	-
04-Jun	22:03	8S128	MFM	Departure	10.2	-	-
05-Jun	08:18	3A061	YFT	Arrival	12.5	-	-
05-Jun	08:30	8S210	MFM	Arrival	10.8	-	-
05-Jun	09:50	3A071	MFM	Arrival	12.6	-	-
05-Jun	10:20	8S212	MFM	Arrival	11.0	-	-
05-Jun	10:40	3A081	ZUI	Arrival	13.9	-	-
05-Jun	11:26	8S121	MFM	Departure	11.2	-	-
05-Jun	11:39	3A063	YFT	Arrival	13.0	-	-
05-Jun	11:57	3A168	YFT	Departure	12.0	-	-
05-Jun	12:15	3A181	ZUI	Departure	13.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
05-Jun	12:40	8S215	MFM	Arrival	12.4	-	-
05-Jun	13:00	3A064	YFT	Arrival	13.5	-	-
05-Jun	13:22	8S123	MFM	Departure	11.7	-	-
05-Jun	13:50	3A082	ZUI	Arrival	12.3	-	-
05-Jun	13:52	3A164	YFT	Departure	13.5	≤5	< 1min
05-Jun	14:18	3A182	ZUI	Departure	11.6	-	-
05-Jun	15:04	3A065	YFT	Arrival	12.7	-	-
05-Jun	16:19	3A167	YFT	Departure	12.6	-	-
05-Jun	16:35	3A083	ZUI	Arrival	13.8	-	-
05-Jun	16:44	8S218	MFM	Arrival	12.1	-	-
05-Jun	17:02	3A067	YFT	Arrival	13.4	-	-
05-Jun	17:02	3A183	ZUI	Departure	12.3	-	-
05-Jun	17:03	8S126	MFM	Departure	12.3	-	-
05-Jun	19:05	3A068	YFT	Arrival	11.0	-	-
05-Jun	19:49	3A084	ZUI	Arrival	13.0	-	-
05-Jun	20:15	3A185	ZUI	Departure	12.8	-	-
05-Jun	20:53	8S2113	MFM	Arrival	11.9	-	-
05-Jun	21:58	8S128	MFM	Departure	12.3	-	-
06-Jun	08:22	3A061	YFT	Arrival	10.9	-	-
06-Jun	08:26	8S210	MFM	Arrival	10.9	-	-
06-Jun	09:45	3A071	MFM	Arrival	13.0	-	-
06-Jun	10:35	8S212	MFM	Arrival	13.6	-	-
06-Jun	10:38	3A081	ZUI	Arrival	12.9	-	-
06-Jun	11:21	8S121	MFM	Departure	11.6	-	-
06-Jun	11:23	3A063	YFT	Arrival	13.3	-	-
06-Jun	11:47	3A168	YFT	Departure	12.9	-	-
06-Jun	12:11	3A181	ZUI	Departure	13.6	-	-
06-Jun	12:51	8S215	MFM	Arrival	11.4	-	-
06-Jun	13:04	3A064	YFT	Arrival	12.7	-	-
06-Jun	13:18	8S123	MFM	Departure	10.1	-	-
06-Jun	13:36	3A164	YFT	Departure	12.4	-	-
06-Jun	13:45	3A082	ZUI	Arrival	13.1	-	-
06-Jun	14:18	3A182	ZUI	Departure	13.6	-	-
06-Jun	14:55	3A065	YFT	Arrival	13.1	-	-
06-Jun	16:19	3A167	YFT	Departure	13.4	-	-
06-Jun	16:38	3A083	ZUI	Arrival	13.1	-	-
06-Jun	16:42	8S218	MFM	Arrival	11.6	-	-
06-Jun	16:56	3A067	YFT	Arrival	12.1	-	-
06-Jun	17:02	3A183	ZUI	Departure	12.6	-	-
06-Jun	17:08	8S126	MFM	Departure	9.7	-	-
06-Jun	19:01	3A068	YFT	Arrival	10.9	-	-
06-Jun	19:59	3A084	ZUI	Arrival	12.9	-	-
06-Jun	20:10	3A185	ZUI	Departure	13.6	-	-
06-Jun	20:57	8S2113	MFM	Arrival	12.7	-	-
06-Jun	21:59	8S128	MFM	Departure	13.5	-	-
07-Jun	08:24	3A061	YFT	Arrival	11.8	-	-
07-Jun	08:30	8S210	MFM	Arrival	10.7	-	-
07-Jun	09:53	3A071	MFM	Arrival	9.8	-	-
07-Jun	10:42	8S212	MFM	Arrival	11.8	-	-
07-Jun	10:47	3A081	ZUI	Arrival	13.9	-	-
07-Jun	11:19	8S121	MFM	Departure	12.6	-	-
07-Jun	11:20	3A063	YFT	Arrival	11.8	-	-
07-Jun	11:46	3A168	YFT	Departure	11.4	-	-
07-Jun	12:23	3A181	ZUI	Departure	13.7	-	-
07-Jun	12:47	8S215	MFM	Arrival	10.7	-	-
07-Jun	13:03	3A064	YFT	Arrival	12.9	-	-
07-Jun	13:23	8S123	MFM	Departure	11.8	-	-
07-Jun	13:34	3A164	YFT	Departure	12.2	-	-
07-Jun	13:54	3A082	ZUI	Arrival	13.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
07-Jun	14:19	3A182	ZUI	Departure	12.6	-	-
07-Jun	14:59	3A065	YFT	Arrival	11.9	-	-
07-Jun	16:17	3A167	YFT	Departure	10.4	-	-
07-Jun	16:45	8S218	MFM	Arrival	11.0	-	-
07-Jun	16:53	3A083	ZUI	Arrival	12.7	-	-
07-Jun	17:03	3A067	YFT	Arrival	11.6	-	-
07-Jun	17:11	3A183	ZUI	Departure	13.5	-	-
07-Jun	17:12	8S126	MFM	Departure	11.1	-	-
07-Jun	18:56	3A068	YFT	Arrival	12.3	-	-
07-Jun	19:46	3A084	ZUI	Arrival	12.3	-	-
07-Jun	20:18	3A185	ZUI	Departure	13.8	-	-
07-Jun	20:59	8S2113	MFM	Arrival	12.3	-	-
07-Jun	22:03	8S128	MFM	Departure	12.7	-	-
08-Jun	08:20	3A061	YFT	Arrival	12.7	-	-
08-Jun	08:35	8S210	MFM	Arrival	10.4	-	-
08-Jun	10:00	3A071	MFM	Arrival	12.2	-	-
08-Jun	10:46	8S212	MFM	Arrival	10.6	-	-
08-Jun	10:54	3A081	ZUI	Arrival	13.5	-	-
08-Jun	11:19	3A063	YFT	Arrival	9.2	-	-
08-Jun	11:21	8S121	MFM	Departure	11.5	-	-
08-Jun	11:51	3A168	YFT	Departure	12.5	-	-
08-Jun	12:23	3A181	ZUI	Departure	14.2	-	-
08-Jun	12:47	8S215	MFM	Arrival	10.6	-	-
08-Jun	13:04	3A064	YFT	Arrival	11.5	-	-
08-Jun	13:18	8S123	MFM	Departure	12.7	-	-
08-Jun	13:33	3A164	YFT	Departure	11.2	-	-
08-Jun	14:00	3A082	ZUI	Arrival	12.6	-	-
08-Jun	14:15	3A182	ZUI	Departure	13.7	-	-
08-Jun	15:06	3A065	YFT	Arrival	8.2	-	-
08-Jun	16:15	3A167	YFT	Departure	12.6	-	-
08-Jun	16:40	8S218	MFM	Arrival	12.1	-	-
08-Jun	16:44	3A083	ZUI	Arrival	12.2	-	-
08-Jun	16:59	3A067	YFT	Arrival	11.2	-	-
08-Jun	17:01	8S126	MFM	Departure	12.1	-	-
08-Jun	17:08	3A183	ZUI	Departure	12.4	-	-
08-Jun	19:04	3A068	YFT	Arrival	12.0	-	-
08-Jun	20:36	3A084	ZUI	Arrival	11.7	-	-
08-Jun	20:49	3A185	ZUI	Departure	13.3	-	-
08-Jun	20:55	8S2113	MFM	Arrival	11.8	-	-
08-Jun	21:55	8S128	MFM	Departure	12.2	-	-
09-Jun	08:18	3A061	YFT	Arrival	12.1	-	-
09-Jun	08:23	8S210	MFM	Arrival	11.1	-	-
09-Jun	09:45	3A071	MFM	Arrival	11.6	-	-
09-Jun	10:46	3A081	ZUI	Arrival	12.5	-	-
09-Jun	10:50	8S212	MFM	Arrival	11.3	-	-
09-Jun	11:16	8S121	MFM	Departure	11.9	-	-
09-Jun	11:24	3A063	YFT	Arrival	11.6	-	-
09-Jun	11:46	3A168	YFT	Departure	11.7	-	-
09-Jun	12:15	3A181	ZUI	Departure	13.8	-	-
09-Jun	12:49	8S215	MFM	Arrival	10.3	-	-
09-Jun	13:00	3A064	YFT	Arrival	12.5	-	-
09-Jun	13:14	8S123	MFM	Departure	12.1	-	-
09-Jun	13:31	3A164	YFT	Departure	12.5	-	-
09-Jun	13:55	3A082	ZUI	Arrival	13.6	-	-
09-Jun	14:18	3A182	ZUI	Departure	14.2	-	-
09-Jun	14:59	3A065	YFT	Arrival	12.1	-	-
09-Jun	16:18	3A167	YFT	Departure	10.7	-	-
09-Jun	16:37	3A083	ZUI	Arrival	13.1	-	-
09-Jun	16:44	8S218	MFM	Arrival	10.0	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
09-Jun	16:54	3A067	YFT	Arrival	12.1	-	-
09-Jun	17:10	8S126	MFM	Departure	11.7	-	-
09-Jun	17:18	3A183	ZUI	Departure	12.9	-	-
09-Jun	18:43	3A068	YFT	Arrival	12.0	≤5	< 1min
09-Jun	19:52	3A084	ZUI	Arrival	13.4	-	-
09-Jun	20:12	3A185	ZUI	Departure	12.5	-	-
09-Jun	20:52	8S2113	MFM	Arrival	12.7	-	-
09-Jun	22:00	8S128	MFM	Departure	11.6	-	-
10-Jun	08:30	8S210	MFM	Arrival	12.2	-	-
10-Jun	08:35	3A061	YFT	Arrival	12.3	-	-
10-Jun	09:54	3A071	MFM	Arrival	11.7	-	-
10-Jun	10:43	8S212	MFM	Arrival	10.6	-	-
10-Jun	10:49	3A081	ZUI	Arrival	12.9	-	-
10-Jun	11:14	8S121	MFM	Departure	10.4	-	-
10-Jun	11:24	3A063	YFT	Arrival	10.8	-	-
10-Jun	11:51	3A168	YFT	Departure	11.7	-	-
10-Jun	12:17	3A181	ZUI	Departure	12.8	-	-
10-Jun	12:48	8S215	MFM	Arrival	11.5	-	-
10-Jun	13:00	3A064	YFT	Arrival	12.7	-	-
10-Jun	13:25	8S123	MFM	Departure	12.5	-	-
10-Jun	13:32	3A164	YFT	Departure	13.0	-	-
10-Jun	13:49	3A082	ZUI	Arrival	12.9	-	-
10-Jun	14:18	3A182	ZUI	Departure	13.1	-	-
10-Jun	14:59	3A065	YFT	Arrival	11.7	-	-
10-Jun	16:22	3A167	YFT	Departure	11.9	-	-
10-Jun	16:36	8S218	MFM	Arrival	11.7	-	-
10-Jun	16:49	3A083	ZUI	Arrival	13.5	-	-
10-Jun	16:53	3A067	YFT	Arrival	13.2	-	-
10-Jun	17:03	8S126	MFM	Departure	12.3	-	-
10-Jun	17:06	3A183	ZUI	Departure	12.6	-	-
10-Jun	18:58	3A068	YFT	Arrival	11.9	-	-
10-Jun	19:45	3A084	ZUI	Arrival	13.1	-	-
10-Jun	20:05	3A185	ZUI	Departure	13.2	-	-
10-Jun	21:01	8S2113	MFM	Arrival	11.6	-	-
10-Jun	22:00	8S128	MFM	Departure	11.9	-	-
11-Jun	08:06	3A061	YFT	Arrival	12.1	-	-
11-Jun	08:22	8S210	MFM	Arrival	12.0	-	-
11-Jun	09:47	3A071	MFM	Arrival	13.0	-	-
11-Jun	10:39	8S212	MFM	Arrival	12.3	-	-
11-Jun	10:47	3A081	ZUI	Arrival	13.3	-	-
11-Jun	11:14	8S121	MFM	Departure	12.9	-	-
11-Jun	11:28	3A063	YFT	Arrival	14.3	-	-
11-Jun	11:53	3A168	YFT	Departure	13.8	-	-
11-Jun	12:09	3A181	ZUI	Departure	13.2	-	-
11-Jun	12:49	8S215	MFM	Arrival	12.2	-	-
11-Jun	13:00	3A064	YFT	Arrival	12.5	-	-
11-Jun	13:13	8S123	MFM	Departure	11.8	-	-
11-Jun	13:33	3A164	YFT	Departure	13.1	-	-
11-Jun	13:55	3A082	ZUI	Arrival	13.3	-	-
11-Jun	14:16	3A182	ZUI	Departure	13.0	-	-
11-Jun	15:07	3A065	YFT	Arrival	13.2	-	-
11-Jun	16:22	3A167	YFT	Departure	13.7	-	-
11-Jun	16:36	3A083	ZUI	Arrival	12.9	-	-
11-Jun	16:46	8S218	MFM	Arrival	11.6	-	-
11-Jun	17:00	3A067	YFT	Arrival	12.5	-	-
11-Jun	17:09	3A183	ZUI	Departure	12.9	-	-
11-Jun	17:09	8S126	MFM	Departure	12.2	-	-
11-Jun	18:57	3A068	YFT	Arrival	13.3	-	-
11-Jun	19:51	3A084	ZUI	Arrival	13.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
11-Jun	20:17	3A185	ZUI	Departure	12.5	-	-
11-Jun	20:51	8S2113	MFM	Arrival	12.3	-	-
11-Jun	22:00	8S128	MFM	Departure	12.4	-	-
12-Jun	08:15	3A061	YFT	Arrival	12.6	-	-
12-Jun	08:41	8S210	MFM	Arrival	11.9	-	-
12-Jun	09:56	3A071	MFM	Arrival	11.4	-	-
12-Jun	10:34	8S212	MFM	Arrival	11.3	-	-
12-Jun	10:45	3A081	ZUI	Arrival	13.2	-	-
12-Jun	11:19	3A063	YFT	Arrival	11.3	-	-
12-Jun	11:19	8S121	MFM	Departure	11.7	-	-
12-Jun	11:54	3A168	YFT	Departure	12.2	-	-
12-Jun	12:20	3A181	ZUI	Departure	13.2	-	-
12-Jun	12:48	8S215	MFM	Arrival	9.7	-	-
12-Jun	13:05	3A064	YFT	Arrival	13.0	-	-
12-Jun	13:19	8S123	MFM	Departure	11.7	-	-
12-Jun	13:34	3A164	YFT	Departure	13.3	-	-
12-Jun	13:50	3A082	ZUI	Arrival	13.3	-	-
12-Jun	14:12	3A182	ZUI	Departure	12.7	-	-
12-Jun	14:57	3A065	YFT	Arrival	11.8	-	-
12-Jun	16:20	3A167	YFT	Departure	12.3	-	-
12-Jun	16:37	8S218	MFM	Arrival	10.0	-	-
12-Jun	16:42	3A083	ZUI	Arrival	13.1	-	-
12-Jun	16:57	3A067	YFT	Arrival	13.1	-	-
12-Jun	17:05	3A183	ZUI	Departure	13.2	-	-
12-Jun	17:15	8S126	MFM	Departure	10.4	-	-
12-Jun	19:02	3A068	YFT	Arrival	11.6	-	-
12-Jun	19:52	3A084	ZUI	Arrival	13.6	-	-
12-Jun	20:10	3A185	ZUI	Departure	12.4	-	-
12-Jun	20:50	8S2113	MFM	Arrival	13.0	-	-
13-Jun	08:19	3A061	YFT	Arrival	12.9	-	-
13-Jun	08:34	8S210	MFM	Arrival	10.4	-	-
13-Jun	09:50	3A071	MFM	Arrival	12.9	-	-
13-Jun	10:25	8S212	MFM	Arrival	11.3	-	-
13-Jun	10:42	3A081	ZUI	Arrival	13.7	-	-
13-Jun	11:30	3A063	YFT	Arrival	11.7	-	-
13-Jun	11:34	8S121	MFM	Departure	10.8	-	-
13-Jun	11:45	3A168	YFT	Departure	10.6	-	-
13-Jun	12:16	3A181	ZUI	Departure	11.7	-	-
13-Jun	12:49	8S215	MFM	Arrival	11.0	-	-
13-Jun	12:57	3A064	YFT	Arrival	13.4	-	-
13-Jun	13:31	8S123	MFM	Departure	10.0	-	-
13-Jun	13:43	3A164	YFT	Departure	13.7	-	-
13-Jun	13:49	3A082	ZUI	Arrival	13.1	-	-
13-Jun	14:31	3A182	ZUI	Departure	11.9	-	-
13-Jun	15:04	3A065	YFT	Arrival	11.9	-	-
13-Jun	16:31	3A167	YFT	Departure	12.6	-	-
13-Jun	16:45	3A083	ZUI	Arrival	13.5	-	-
13-Jun	16:45	8S218	MFM	Arrival	10.4	-	-
13-Jun	17:01	3A067	YFT	Arrival	13.0	-	-
13-Jun	17:11	8S126	MFM	Departure	10.4	-	-
13-Jun	17:12	3A183	ZUI	Departure	12.9	-	-
13-Jun	19:03	3A068	YFT	Arrival	12.1	-	-
13-Jun	19:52	3A084	ZUI	Arrival	13.5	-	-
13-Jun	20:10	3A185	ZUI	Departure	13.1	-	-
13-Jun	21:01	8S2113	MFM	Arrival	12.2	-	-
13-Jun	21:55	8S128	MFM	Departure	11.0	-	-
14-Jun	08:20	3A061	YFT	Arrival	12.4	-	-
14-Jun	08:32	8S210	MFM	Arrival	10.5	-	-
14-Jun	09:48	3A071	MFM	Arrival	12.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
14-Jun	10:20	8S212	MFM	Arrival	11.4	-	-
14-Jun	10:41	3A081	ZUI	Arrival	12.7	-	-
14-Jun	11:29	3A063	YFT	Arrival	12.6	-	-
14-Jun	11:36	8S121	MFM	Departure	11.9	-	-
14-Jun	11:55	3A168	YFT	Departure	11.8	-	-
14-Jun	12:12	3A181	ZUI	Departure	13.5	-	-
14-Jun	12:54	8S215	MFM	Arrival	12.5	-	-
14-Jun	12:58	3A064	YFT	Arrival	11.8	-	-
14-Jun	13:18	8S123	MFM	Departure	12.3	-	-
14-Jun	13:35	3A164	YFT	Departure	12.2	-	-
14-Jun	13:53	3A082	ZUI	Arrival	13.2	-	-
14-Jun	14:30	3A182	ZUI	Departure	12.3	-	-
14-Jun	15:03	3A065	YFT	Arrival	11.8	-	-
14-Jun	16:21	3A167	YFT	Departure	12.1	-	-
14-Jun	16:45	8S218	MFM	Arrival	11.6	-	-
14-Jun	16:53	3A083	ZUI	Arrival	13.0	-	-
14-Jun	17:01	3A067	YFT	Arrival	12.6	-	-
14-Jun	17:18	3A183	ZUI	Departure	12.8	-	-
14-Jun	17:31	8S126	MFM	Departure	12.3	-	-
14-Jun	19:07	3A068	YFT	Arrival	11.9	-	-
14-Jun	19:52	3A084	ZUI	Arrival	13.7	-	-
14-Jun	20:13	3A185	ZUI	Departure	13.0	-	-
14-Jun	20:52	8S2113	MFM	Arrival	12.1	-	-
14-Jun	21:57	8S128	MFM	Departure	12.5	-	-
15-Jun	08:13	3A061	YFT	Arrival	13.3	-	-
15-Jun	08:28	8S210	MFM	Arrival	12.2	-	-
15-Jun	09:54	3A071	MFM	Arrival	12.0	-	-
15-Jun	10:42	3A081	ZUI	Arrival	12.9	-	-
15-Jun	10:45	8S212	MFM	Arrival	11.7	-	-
15-Jun	11:20	8S121	MFM	Departure	12.1	-	-
15-Jun	11:21	3A063	YFT	Arrival	12.3	-	-
15-Jun	12:03	3A168	YFT	Departure	11.6	-	-
15-Jun	12:19	3A181	ZUI	Departure	13.1	-	-
15-Jun	12:51	8S215	MFM	Arrival	12.4	-	-
15-Jun	12:59	3A064	YFT	Arrival	12.5	-	-
15-Jun	13:19	8S123	MFM	Departure	9.3	-	-
15-Jun	13:34	3A164	YFT	Departure	13.0	-	-
15-Jun	13:51	3A082	ZUI	Arrival	12.8	-	-
15-Jun	14:19	3A182	ZUI	Departure	13.7	-	-
15-Jun	15:03	3A065	YFT	Arrival	12.0	-	-
15-Jun	16:20	3A167	YFT	Departure	11.9	-	-
15-Jun	16:36	3A067	YFT	Arrival	12.4	≤5	< 1min
15-Jun	16:41	8S218	MFM	Arrival	11.6	-	-
15-Jun	17:02	3A083	ZUI	Arrival	12.9	-	-
15-Jun	17:12	8S126	MFM	Departure	13.6	-	-
15-Jun	17:22	3A183	ZUI	Departure	12.3	-	-
15-Jun	18:59	3A068	YFT	Arrival	11.7	-	-
15-Jun	19:58	3A084	ZUI	Arrival	12.5	-	-
15-Jun	20:22	3A185	ZUI	Departure	13.6	-	-
15-Jun	20:54	8S2113	MFM	Arrival	11.9	-	-
15-Jun	21:56	8S128	MFM	Departure	12.4	-	-
16-Jun	08:17	3A061	YFT	Arrival	12.7	-	-
16-Jun	08:23	8S210	MFM	Arrival	13.1	-	-
16-Jun	09:44	3A071	MFM	Arrival	13.7	-	-
16-Jun	10:39	8S212	MFM	Arrival	12.9	-	-
16-Jun	10:45	3A081	ZUI	Arrival	13.7	-	-
16-Jun	11:22	8S121	MFM	Departure	12.8	-	-
16-Jun	11:29	3A063	YFT	Arrival	12.6	-	-
16-Jun	11:53	3A168	YFT	Departure	12.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
16-Jun	12:16	3A181	ZUI	Departure	12.3	-	-
16-Jun	12:50	8S215	MFM	Arrival	11.3	-	-
16-Jun	12:59	3A064	YFT	Arrival	12.5	-	-
16-Jun	13:15	8S123	MFM	Departure	12.5	-	-
16-Jun	13:28	3A164	YFT	Departure	12.5	-	-
16-Jun	13:50	3A082	ZUI	Arrival	13.1	-	-
16-Jun	14:15	3A182	ZUI	Departure	12.6	-	-
16-Jun	15:05	3A065	YFT	Arrival	11.9	-	-
16-Jun	16:17	3A083	ZUI	Arrival	12.3	≤5	< 1min
16-Jun	16:20	3A167	YFT	Departure	12.3	-	-
16-Jun	16:41	8S218	MFM	Arrival	12.1	-	-
16-Jun	17:01	3A067	YFT	Arrival	11.9	-	-
16-Jun	17:02	3A183	ZUI	Departure	12.7	-	-
16-Jun	17:08	8S126	MFM	Departure	13.2	-	-
16-Jun	18:57	3A068	YFT	Arrival	11.7	-	-
16-Jun	19:50	3A084	ZUI	Arrival	13.3	-	-
16-Jun	20:08	3A185	ZUI	Departure	12.7	-	-
16-Jun	20:56	8S2113	MFM	Arrival	12.2	-	-
16-Jun	21:59	8S128	MFM	Departure	10.9	-	-
17-Jun	08:18	3A061	YFT	Arrival	12.1	-	-
17-Jun	08:24	8S210	MFM	Arrival	11.3	-	-
17-Jun	09:50	3A071	MFM	Arrival	13.4	-	-
17-Jun	10:39	8S212	MFM	Arrival	13.4	-	-
17-Jun	10:47	3A081	ZUI	Arrival	13.2	-	-
17-Jun	11:13	8S121	MFM	Departure	12.1	-	-
17-Jun	11:24	3A063	YFT	Arrival	12.8	-	-
17-Jun	11:53	3A168	YFT	Departure	12.6	-	-
17-Jun	12:13	3A181	ZUI	Departure	12.5	-	-
17-Jun	12:40	8S215	MFM	Arrival	13.0	-	-
17-Jun	13:03	3A064	YFT	Arrival	11.9	-	-
17-Jun	13:16	8S123	MFM	Departure	12.3	-	-
17-Jun	13:43	3A164	YFT	Departure	13.5	-	-
17-Jun	13:59	3A082	ZUI	Arrival	13.0	-	-
17-Jun	14:12	3A182	ZUI	Departure	13.0	-	-
17-Jun	15:02	3A065	YFT	Arrival	11.5	-	-
17-Jun	16:18	3A167	YFT	Departure	12.8	-	-
17-Jun	16:33	8S218	MFM	Arrival	11.9	-	-
17-Jun	16:53	3A083	ZUI	Arrival	13.6	-	-
17-Jun	17:00	3A067	YFT	Arrival	12.4	-	-
17-Jun	17:15	3A183	ZUI	Departure	13.1	-	-
17-Jun	17:18	8S126	MFM	Departure	13.5	-	-
17-Jun	18:36	3A068	YFT	Arrival	12.3	≤5	< 1min
17-Jun	19:48	3A084	ZUI	Arrival	12.2	-	-
17-Jun	20:15	3A185	ZUI	Departure	13.1	-	-
17-Jun	20:59	8S2113	MFM	Arrival	12.4	-	-
17-Jun	21:56	8S128	MFM	Departure	11.8	-	-
18-Jun	08:16	3A061	YFT	Arrival	12.3	-	-
18-Jun	08:24	8S210	MFM	Arrival	12.9	-	-
18-Jun	09:57	3A071	MFM	Arrival	10.7	-	-
18-Jun	10:32	8S212	MFM	Arrival	11.1	-	-
18-Jun	10:53	3A081	ZUI	Arrival	12.8	-	-
18-Jun	11:11	8S121	MFM	Departure	13.2	-	-
18-Jun	11:23	3A063	YFT	Arrival	12.6	-	-
18-Jun	11:57	3A168	YFT	Departure	13.1	-	-
18-Jun	12:13	3A181	ZUI	Departure	13.0	-	-
18-Jun	12:59	3A064	YFT	Arrival	12.4	-	-
18-Jun	13:04	8S215	MFM	Arrival	11.3	-	-
18-Jun	13:34	3A082	ZUI	Arrival	12.9	≤5	< 1min
18-Jun	13:34	8S123	MFM	Departure	10.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
18-Jun	13:35	3A164	YFT	Departure	11.6	-	-
18-Jun	14:57	3A065	YFT	Arrival	12.8	-	-
18-Jun	16:19	3A167	YFT	Departure	12.4	-	-
18-Jun	16:39	3A083	ZUI	Arrival	12.7	-	-
18-Jun	16:43	8S218	MFM	Arrival	11.0	-	-
18-Jun	16:57	3A067	YFT	Arrival	11.5	-	-
18-Jun	17:00	3A183	ZUI	Departure	13.3	-	-
18-Jun	17:06	8S126	MFM	Departure	10.9	-	-
18-Jun	18:57	3A068	YFT	Arrival	11.8	-	-
18-Jun	19:44	3A084	ZUI	Arrival	12.3	-	-
18-Jun	20:17	3A185	ZUI	Departure	12.8	-	-
18-Jun	20:47	8S2113	MFM	Arrival	13.4	-	-
18-Jun	21:55	8S128	MFM	Departure	13.9	-	-
19-Jun	08:17	3A061	YFT	Arrival	11.4	-	-
19-Jun	08:35	8S210	MFM	Arrival	10.6	-	-
19-Jun	09:52	3A071	MFM	Arrival	11.6	-	-
19-Jun	10:38	8S212	MFM	Arrival	13.2	-	-
19-Jun	10:40	3A081	ZUI	Arrival	13.1	-	-
19-Jun	11:11	8S121	MFM	Departure	12.8	-	-
19-Jun	11:17	3A063	YFT	Arrival	12.7	-	-
19-Jun	11:53	3A168	YFT	Departure	12.4	-	-
19-Jun	12:11	3A181	ZUI	Departure	13.4	-	-
19-Jun	12:54	8S215	MFM	Arrival	11.2	-	-
19-Jun	13:00	3A064	YFT	Arrival	13.0	-	-
19-Jun	13:17	8S123	MFM	Departure	11.9	-	-
19-Jun	13:29	3A164	YFT	Departure	12.2	-	-
19-Jun	14:05	3A082	ZUI	Arrival	13.0	-	-
19-Jun	14:17	3A182	ZUI	Departure	12.2	-	-
19-Jun	15:04	3A065	YFT	Arrival	12.0	-	-
19-Jun	16:18	3A167	YFT	Departure	12.4	-	-
19-Jun	16:44	3A083	ZUI	Arrival	12.4	-	-
19-Jun	16:46	8S218	MFM	Arrival	10.3	-	-
19-Jun	17:01	3A067	YFT	Arrival	12.7	-	-
19-Jun	17:04	3A183	ZUI	Departure	12.8	-	-
19-Jun	17:04	8S126	MFM	Departure	12.5	-	-
19-Jun	19:09	3A068	YFT	Arrival	11.7	-	-
19-Jun	19:49	3A084	ZUI	Arrival	12.3	-	-
19-Jun	20:18	3A185	ZUI	Departure	12.5	-	-
19-Jun	20:57	8S2113	MFM	Arrival	11.6	-	-
19-Jun	21:55	8S128	MFM	Departure	12.6	-	-
20-Jun	08:12	3A061	YFT	Arrival	13.1	-	-
20-Jun	08:24	8S210	MFM	Arrival	12.8	-	-
20-Jun	09:47	3A071	MFM	Arrival	12.5	-	-
20-Jun	10:42	3A081	ZUI	Arrival	12.6	-	-
20-Jun	10:48	8S212	MFM	Arrival	12.2	-	-
20-Jun	11:16	8S121	MFM	Departure	11.7	-	-
20-Jun	11:18	3A063	YFT	Arrival	12.4	-	-
20-Jun	11:46	3A168	YFT	Departure	12.9	-	-
20-Jun	12:12	3A181	ZUI	Departure	13.9	-	-
20-Jun	12:55	8S215	MFM	Arrival	12.1	-	-
20-Jun	12:56	3A064	YFT	Arrival	13.4	-	-
20-Jun	13:20	8S123	MFM	Departure	11.9	-	-
20-Jun	13:34	3A164	YFT	Departure	13.6	-	-
20-Jun	13:53	3A082	ZUI	Arrival	12.7	-	-
20-Jun	14:10	3A182	ZUI	Departure	12.4	-	-
20-Jun	15:01	3A065	YFT	Arrival	11.7	-	-
20-Jun	16:33	3A167	YFT	Departure	12.9	-	-
20-Jun	16:44	3A083	ZUI	Arrival	12.3	-	-
20-Jun	16:46	8S218	MFM	Arrival	12.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
20-Jun	17:00	3A067	YFT	Arrival	13.2	-	-
20-Jun	17:09	3A183	ZUI	Departure	12.9	-	-
20-Jun	17:16	8S126	MFM	Departure	12.2	-	-
20-Jun	19:05	3A068	YFT	Arrival	11.6	-	-
20-Jun	19:56	3A084	ZUI	Arrival	10.9	-	-
20-Jun	20:22	3A185	ZUI	Departure	13.2	-	-
20-Jun	20:54	8S2113	MFM	Arrival	13.0	-	-
20-Jun	22:03	8S128	MFM	Departure	12.9	-	-
21-Jun	08:11	8S210	MFM	Arrival	12.1	-	-
21-Jun	08:15	3A061	YFT	Arrival	10.5	-	-
21-Jun	09:46	3A071	MFM	Arrival	13.4	-	-
21-Jun	10:11	3A081	ZUI	Arrival	11.8	-	-
21-Jun	10:39	8S212	MFM	Arrival	11.6	-	-
21-Jun	11:11	8S121	MFM	Departure	11.1	-	-
21-Jun	11:14	3A063	YFT	Arrival	13.5	-	-
21-Jun	11:51	3A168	YFT	Departure	13.3	-	-
21-Jun	12:24	3A181	ZUI	Departure	12.6	-	-
21-Jun	12:49	8S215	MFM	Arrival	11.6	-	-
21-Jun	12:54	3A064	YFT	Arrival	12.2	-	-
21-Jun	13:21	8S123	MFM	Departure	10.3	-	-
21-Jun	13:32	3A164	YFT	Departure	11.4	-	-
21-Jun	13:53	3A082	ZUI	Arrival	12.6	-	-
21-Jun	14:18	3A182	ZUI	Departure	12.9	-	-
21-Jun	14:55	3A065	YFT	Arrival	13.3	-	-
21-Jun	16:20	3A167	YFT	Departure	13.1	-	-
21-Jun	16:41	8S218	MFM	Arrival	11.5	-	-
21-Jun	16:55	3A083	ZUI	Arrival	12.5	-	-
21-Jun	16:57	3A067	YFT	Arrival	11.7	-	-
21-Jun	17:06	8S126	MFM	Departure	10.6	-	-
21-Jun	17:16	3A183	ZUI	Departure	12.9	-	-
21-Jun	19:04	3A068	YFT	Arrival	11.1	-	-
21-Jun	19:51	3A084	ZUI	Arrival	12.1	-	-
21-Jun	20:09	3A185	ZUI	Departure	13.4	-	-
21-Jun	20:51	8S2113	MFM	Arrival	12.7	-	-
21-Jun	21:59	8S128	MFM	Departure	12.2	-	-
22-Jun	08:22	3A061	YFT	Arrival	11.6	-	-
22-Jun	08:37	8S210	MFM	Arrival	10.2	-	-
22-Jun	09:48	3A071	MFM	Arrival	12.7	-	-
22-Jun	10:40	3A081	ZUI	Arrival	13.4	-	-
22-Jun	10:41	8S212	MFM	Arrival	11.5	-	-
22-Jun	11:20	3A063	YFT	Arrival	12.9	-	-
22-Jun	11:37	8S121	MFM	Departure	10.6	-	-
22-Jun	12:00	3A168	YFT	Departure	12.7	-	-
22-Jun	12:18	3A181	ZUI	Departure	13.7	-	-
22-Jun	12:43	8S215	MFM	Arrival	11.8	-	-
22-Jun	12:59	3A064	YFT	Arrival	12.4	-	-
22-Jun	13:18	8S123	MFM	Departure	10.4	-	-
22-Jun	13:39	3A164	YFT	Departure	12.1	-	-
22-Jun	13:48	3A082	ZUI	Arrival	13.5	-	-
22-Jun	14:19	3A182	ZUI	Departure	12.8	-	-
22-Jun	14:56	3A065	YFT	Arrival	12.8	-	-
22-Jun	16:23	3A167	YFT	Departure	12.3	-	-
22-Jun	16:31	8S218	MFM	Arrival	13.6	-	-
22-Jun	16:41	3A083	ZUI	Arrival	12.1	-	-
22-Jun	17:03	3A067	YFT	Arrival	11.5	-	-
22-Jun	17:06	3A183	ZUI	Departure	12.6	-	-
22-Jun	17:09	8S126	MFM	Departure	12.6	-	-
22-Jun	18:38	3A068	YFT	Arrival	11.9	≤5	< 1min
22-Jun	19:50	3A084	ZUI	Arrival	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
22-Jun	20:11	3A185	ZUI	Departure	13.4	-	-
22-Jun	20:57	8S2113	MFM	Arrival	12.2	-	-
22-Jun	21:59	8S128	MFM	Departure	12.7	-	-
23-Jun	08:16	3A061	YFT	Arrival	13.2	-	-
23-Jun	08:35	8S210	MFM	Arrival	12.1	-	-
23-Jun	09:51	3A071	MFM	Arrival	12.4	-	-
23-Jun	10:34	8S212	MFM	Arrival	10.9	-	-
23-Jun	10:44	3A081	ZUI	Arrival	12.6	-	-
23-Jun	11:12	8S121	MFM	Departure	10.1	-	-
23-Jun	11:25	3A063	YFT	Arrival	12.4	-	-
23-Jun	11:55	3A168	YFT	Departure	12.1	-	-
23-Jun	12:16	3A181	ZUI	Departure	12.8	-	-
23-Jun	12:31	8S215	MFM	Arrival	12.0	-	-
23-Jun	13:00	3A064	YFT	Arrival	12.5	-	-
23-Jun	13:25	8S123	MFM	Departure	13.0	-	-
23-Jun	13:40	3A164	YFT	Departure	11.6	-	-
23-Jun	13:50	3A082	ZUI	Arrival	12.0	-	-
23-Jun	14:12	3A182	ZUI	Departure	11.8	-	-
23-Jun	14:57	3A065	YFT	Arrival	12.5	-	-
23-Jun	16:20	3A167	YFT	Departure	12.2	-	-
23-Jun	16:42	3A083	ZUI	Arrival	12.9	-	-
23-Jun	16:43	8S218	MFM	Arrival	11.3	-	-
23-Jun	17:05	3A067	YFT	Arrival	10.9	-	-
23-Jun	17:05	3A183	ZUI	Departure	11.6	-	-
23-Jun	17:16	8S126	MFM	Departure	13.0	-	-
23-Jun	18:35	3A068	YFT	Arrival	13.2	≤5	< 1min
23-Jun	19:46	3A084	ZUI	Arrival	11.6	-	-
23-Jun	20:07	3A185	ZUI	Departure	13.5	-	-
23-Jun	20:37	8S2113	MFM	Arrival	12.1	-	-
23-Jun	22:00	8S128	MFM	Departure	12.1	-	-
24-Jun	08:19	3A061	YFT	Arrival	12.1	-	-
24-Jun	08:25	8S210	MFM	Arrival	10.9	-	-
24-Jun	09:49	3A071	MFM	Arrival	11.8	-	-
24-Jun	10:41	8S212	MFM	Arrival	13.3	-	-
24-Jun	10:47	3A081	ZUI	Arrival	12.6	-	-
24-Jun	11:09	8S121	MFM	Departure	12.5	-	-
24-Jun	11:16	3A063	YFT	Arrival	11.7	-	-
24-Jun	11:48	3A168	YFT	Departure	12.0	-	-
24-Jun	12:21	3A181	ZUI	Departure	13.4	-	-
24-Jun	12:48	8S215	MFM	Arrival	10.3	-	-
24-Jun	12:57	3A064	YFT	Arrival	12.7	-	-
24-Jun	13:12	8S123	MFM	Departure	10.8	-	-
24-Jun	13:29	3A164	YFT	Departure	12.8	-	-
24-Jun	13:50	3A082	ZUI	Arrival	13.3	-	-
24-Jun	14:12	3A182	ZUI	Departure	13.0	-	-
24-Jun	14:55	3A065	YFT	Arrival	12.1	-	-
24-Jun	16:17	3A167	YFT	Departure	10.4	-	-
24-Jun	16:38	8S218	MFM	Arrival	10.2	-	-
24-Jun	16:43	3A083	ZUI	Arrival	12.3	-	-
24-Jun	17:01	3A067	YFT	Arrival	12.3	-	-
24-Jun	17:10	8S126	MFM	Departure	8.6	-	-
24-Jun	17:11	3A183	ZUI	Departure	12.1	-	-
24-Jun	18:58	3A068	YFT	Arrival	11.9	-	-
24-Jun	19:52	3A084	ZUI	Arrival	12.0	-	-
24-Jun	20:08	3A185	ZUI	Departure	12.9	-	-
24-Jun	20:59	8S2113	MFM	Arrival	11.8	-	-
24-Jun	22:02	8S128	MFM	Departure	12.6	-	-
25-Jun	08:26	3A061	YFT	Arrival	11.9	-	-
25-Jun	08:35	8S210	MFM	Arrival	10.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
25-Jun	09:52	3A071	MFM	Arrival	11.2	-	-
25-Jun	10:39	8S212	MFM	Arrival	11.3	-	-
25-Jun	11:06	8S121	MFM	Departure	11.6	-	-
25-Jun	11:08	3A081	ZUI	Arrival	12.4	-	-
25-Jun	11:30	3A063	YFT	Arrival	11.2	-	-
25-Jun	11:51	3A168	YFT	Departure	11.2	-	-
25-Jun	12:15	3A181	ZUI	Departure	13.2	-	-
25-Jun	12:49	8S215	MFM	Arrival	10.9	-	-
25-Jun	13:00	3A064	YFT	Arrival	12.4	-	-
25-Jun	13:23	8S123	MFM	Departure	11.1	-	-
25-Jun	13:37	3A164	YFT	Departure	12.6	-	-
25-Jun	13:54	3A082	ZUI	Arrival	11.6	-	-
25-Jun	14:16	3A182	ZUI	Departure	12.1	-	-
25-Jun	15:04	3A065	YFT	Arrival	12.9	-	-
25-Jun	16:26	3A167	YFT	Departure	12.5	-	-
25-Jun	16:36	8S218	MFM	Arrival	11.6	-	-
25-Jun	16:39	3A083	ZUI	Arrival	12.1	-	-
25-Jun	17:02	8S126	MFM	Departure	10.6	-	-
25-Jun	17:04	3A183	ZUI	Departure	12.2	-	-
25-Jun	17:20	3A067	YFT	Arrival	12.5	-	-
25-Jun	19:01	3A068	YFT	Arrival	12.1	-	-
25-Jun	19:45	3A084	ZUI	Arrival	12.7	-	-
25-Jun	20:12	3A185	ZUI	Departure	12.9	-	-
25-Jun	20:52	8S2113	MFM	Arrival	11.6	-	-
25-Jun	21:57	8S128	MFM	Departure	12.1	-	-
26-Jun	08:22	3A061	YFT	Arrival	11.6	-	-
26-Jun	08:28	8S210	MFM	Arrival	11.7	-	-
26-Jun	09:33	3A161	YFT	Departure	11.8	-	-
26-Jun	09:54	3A071	MFM	Arrival	13.1	-	-
26-Jun	10:41	3A081	ZUI	Arrival	12.1	-	-
26-Jun	10:42	8S212	MFM	Arrival	11.4	-	-
26-Jun	11:19	8S121	MFM	Departure	11.5	-	-
26-Jun	11:28	3A063	YFT	Arrival	11.8	-	-
26-Jun	11:49	3A168	YFT	Departure	12.3	-	-
26-Jun	12:22	3A181	ZUI	Departure	11.9	-	-
26-Jun	12:43	8S215	MFM	Arrival	12.9	-	-
26-Jun	13:00	3A064	YFT	Arrival	12.4	-	-
26-Jun	13:23	8S123	MFM	Departure	12.8	-	-
26-Jun	13:36	3A164	YFT	Departure	11.5	-	-
26-Jun	13:45	3A082	ZUI	Arrival	13.3	-	-
26-Jun	14:17	3A182	ZUI	Departure	13.1	-	-
26-Jun	14:54	3A065	YFT	Arrival	13.5	-	-
26-Jun	14:59	3A165	YFT	Departure	11.6	-	-
26-Jun	16:26	3A167	YFT	Departure	13.8	-	-
26-Jun	16:41	3A083	ZUI	Arrival	12.9	-	-
26-Jun	16:47	8S218	MFM	Arrival	12.8	-	-
26-Jun	17:08	3A067	YFT	Arrival	11.8	-	-
26-Jun	17:13	8S126	MFM	Departure	13.3	-	-
26-Jun	17:14	3A183	ZUI	Departure	12.5	-	-
26-Jun	19:04	3A068	YFT	Arrival	12.7	-	-
26-Jun	19:35	3A169	YFT	Departure	12.6	-	-
26-Jun	19:52	3A084	ZUI	Arrival	12.6	-	-
26-Jun	20:17	3A185	ZUI	Departure	12.7	-	-
26-Jun	20:58	8S2113	MFM	Arrival	12.6	-	-
26-Jun	22:03	8S128	MFM	Departure	11.7	-	-
27-Jun	08:14	3A061	YFT	Arrival	12.5	-	-
27-Jun	08:24	8S210	MFM	Arrival	13.1	-	-
27-Jun	09:55	3A071	MFM	Arrival	11.1	-	-
27-Jun	10:42	8S212	MFM	Arrival	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
27-Jun	11:01	3A081	ZUI	Arrival	10.0	-	-
27-Jun	11:09	8S121	MFM	Departure	11.2	-	-
27-Jun	11:22	3A063	YFT	Arrival	11.8	-	-
27-Jun	11:46	3A168	YFT	Departure	12.3	-	-
27-Jun	12:15	3A181	ZUI	Departure	13.0	-	-
27-Jun	12:20	8S215	MFM	Arrival	12.2	-	-
27-Jun	12:57	3A064	YFT	Arrival	12.0	-	-
27-Jun	13:18	8S123	MFM	Departure	11.7	-	-
27-Jun	13:21	3A082	ZUI	Arrival	13.7	-	-
27-Jun	13:35	3A164	YFT	Departure	12.6	-	-
27-Jun	14:12	3A182	ZUI	Departure	13.3	-	-
27-Jun	14:58	3A065	YFT	Arrival	11.9	-	-
27-Jun	16:29	3A167	YFT	Departure	12.1	-	-
27-Jun	16:37	8S218	MFM	Arrival	12.3	-	-
27-Jun	16:41	3A083	ZUI	Arrival	12.8	-	-
27-Jun	17:01	3A067	YFT	Arrival	13.0	-	-
27-Jun	17:05	8S126	MFM	Departure	12.1	-	-
27-Jun	17:09	3A183	ZUI	Departure	12.7	-	-
27-Jun	19:03	3A068	YFT	Arrival	12.2	-	-
27-Jun	19:52	3A084	ZUI	Arrival	11.4	-	-
27-Jun	20:17	3A185	ZUI	Departure	12.3	-	-
27-Jun	20:54	8S2113	MFM	Arrival	11.7	-	-
27-Jun	21:55	8S128	MFM	Departure	11.9	-	-
28-Jun	08:24	3A061	YFT	Arrival	13.3	-	-
28-Jun	08:29	8S210	MFM	Arrival	12.4	≤5	< 1min
28-Jun	09:57	3A071	MFM	Arrival	12.7	-	-
28-Jun	10:17	3A162	YFT	Departure	11.0	-	-
28-Jun	10:52	8S212	MFM	Arrival	11.7	-	-
28-Jun	10:58	3A081	ZUI	Arrival	13.2	-	-
28-Jun	11:18	8S121	MFM	Departure	12.1	-	-
28-Jun	11:38	3A063	YFT	Arrival	11.7	-	-
28-Jun	12:02	3A168	YFT	Departure	10.4	-	-
28-Jun	12:15	3A181	ZUI	Departure	12.7	-	-
28-Jun	12:58	3A064	YFT	Arrival	11.9	-	-
28-Jun	13:06	8S215	MFM	Arrival	11.7	-	-
28-Jun	13:35	8S123	MFM	Departure	12.6	-	-
28-Jun	13:37	3A164	YFT	Departure	12.2	-	-
28-Jun	13:51	3A082	ZUI	Arrival	12.8	-	-
28-Jun	14:13	3A182	ZUI	Departure	13.2	-	-
28-Jun	15:01	3A065	YFT	Arrival	12.6	-	-
28-Jun	15:02	3A166	YFT	Departure	12.1	-	-
28-Jun	16:42	3A083	ZUI	Arrival	13.0	-	-
28-Jun	16:45	8S218	MFM	Arrival	12.5	-	-
28-Jun	16:55	3A167	YFT	Departure	13.2	-	-
28-Jun	17:00	3A067	YFT	Arrival	12.5	-	-
28-Jun	17:09	3A183	ZUI	Departure	12.9	-	-
28-Jun	17:13	8S126	MFM	Departure	13.0	-	-
28-Jun	17:56	3A069	YFT	Arrival	12.7	-	-
28-Jun	18:56	3A068	YFT	Arrival	12.1	-	-
28-Jun	19:32	3A169	YFT	Departure	11.5	-	-
28-Jun	19:48	3A084	ZUI	Arrival	13.1	-	-
28-Jun	20:18	3A185	ZUI	Departure	13.4	-	-
28-Jun	21:04	8S2113	MFM	Arrival	11.2	-	-
28-Jun	22:01	8S128	MFM	Departure	10.9	-	-
29-Jun	08:22	3A061	YFT	Arrival	12.0	-	-
29-Jun	08:29	8S210	MFM	Arrival	12.1	-	-
29-Jun	09:48	3A071	MFM	Arrival	12.1	-	-
29-Jun	10:44	3A081	ZUI	Arrival	13.1	-	-
29-Jun	10:56	8S212	MFM	Arrival	11.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [MFM- Macao (Maritime Ferry Terminal) YFT- Macao (Taipa) ZUI- Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Prevailing Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
29-Jun	11:33	8S121	MFM	Departure	12.2	-	-
29-Jun	11:36	3A063	YFT	Arrival	9.5	-	-
29-Jun	11:59	3A168	YFT	Departure	11.7	-	-
29-Jun	12:09	3A181	ZUI	Departure	14.0	-	-
29-Jun	12:48	8S215	MFM	Arrival	10.6	-	-
29-Jun	13:01	3A064	YFT	Arrival	11.6	-	-
29-Jun	13:20	8S123	MFM	Departure	12.9	-	-
29-Jun	13:29	3A164	YFT	Departure	13.0	-	-
29-Jun	13:53	3A082	ZUI	Arrival	12.0	-	-
29-Jun	14:18	3A182	ZUI	Departure	13.3	-	-
29-Jun	15:14	3A065	YFT	Arrival	9.6	-	-
29-Jun	16:23	3A167	YFT	Departure	11.9	-	-
29-Jun	16:40	8S218	MFM	Arrival	10.2	-	-
29-Jun	16:44	3A083	ZUI	Arrival	11.9	-	-
29-Jun	16:57	3A067	YFT	Arrival	12.1	-	-
29-Jun	17:03	8S126	MFM	Departure	13.1	-	-
29-Jun	17:05	3A183	ZUI	Departure	12.9	-	-
29-Jun	19:02	3A068	YFT	Arrival	12.1	-	-
29-Jun	19:49	3A084	ZUI	Arrival	13.7	-	-
29-Jun	20:11	3A185	ZUI	Departure	13.1	-	-
29-Jun	21:05	8S2113	MFM	Arrival	10.8	-	-
29-Jun	21:59	8S128	MFM	Departure	11.2	-	-
30-Jun	08:20	3A061	YFT	Arrival	12.4	-	-
30-Jun	08:30	8S210	MFM	Arrival	10.4	-	-
30-Jun	09:57	3A071	MFM	Arrival	12.8	-	-
30-Jun	10:34	8S212	MFM	Arrival	12.3	-	-
30-Jun	10:48	3A081	ZUI	Arrival	13.0	-	-
30-Jun	11:17	8S121	MFM	Departure	12.3	-	-
30-Jun	11:27	3A063	YFT	Arrival	11.5	-	-
30-Jun	11:51	3A168	YFT	Departure	12.0	-	-
30-Jun	12:16	3A181	ZUI	Departure	13.5	-	-
30-Jun	12:52	3A064	YFT	Arrival	12.9	-	-
30-Jun	12:52	8S215	MFM	Arrival	11.2	-	-
30-Jun	13:24	8S123	MFM	Departure	11.3	-	-
30-Jun	13:33	3A164	YFT	Departure	13.6	-	-
30-Jun	13:53	3A082	ZUI	Arrival	12.5	-	-
30-Jun	14:14	3A182	ZUI	Departure	13.7	-	-
30-Jun	15:02	3A065	YFT	Arrival	11.8	-	-
30-Jun	16:31	3A167	YFT	Departure	12.4	-	-
30-Jun	16:45	8S218	MFM	Arrival	9.5	-	-
30-Jun	16:46	3A083	ZUI	Arrival	12.5	-	-
30-Jun	17:00	3A067	YFT	Arrival	13.2	-	-
30-Jun	17:09	3A183	ZUI	Departure	12.9	-	-
30-Jun	17:21	8S126	MFM	Departure	11.1	-	-
30-Jun	17:59	3A069	YFT	Arrival	11.9	-	-
30-Jun	19:13	3A068	YFT	Arrival	12.6	-	-
30-Jun	19:45	3A084	ZUI	Arrival	14.0	-	-
30-Jun	20:19	3A185	ZUI	Departure	12.7	-	-
30-Jun	20:42	8S2113	MFM	Arrival	15.7	>15	< 3min
30-Jun	22:03	8S128	MFM	Departure	12.1	-	-

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in June 2016, instantaneous speeding (i.e. a sudden change in speed at over 15 knots for a short period of time) within the SCZ was recorded from 13 HSF movements. Among the 13 HSF movements, the duration of instantaneous speeding of 12 movements were less than 1 minute, whilst the remaining one movement lasted for less than 3 minutes. After investigation, the AIS data and ferry operators' responses showed that all the cases were due to public safety / emergency reasons including local strong water currents and giving way to other vessels. The captain of all concerned cases had reduced speed and maintained the speed at less than 15 knots after the public safety / emergency incidents.