

# Civil Engineering and Development Department

## Trunk Road T2 Monthly Environmental Monitoring and Audit Report (under EP-451/2013)

April 2024

(Version 1.0)

Approved By



(Environmental Team Leader:

Mr. KS Lee)

REMARKS:

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

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

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Ref.: CEDKTD2EM00\_0\_0609L.24

9 May 2024

Hyder-Meinhardt Joint Venture  
23/F, Two Harbour Square  
180 Wai Yip Street, Kwun Tong  
Kowloon, Hong Kong

By Post and Email

Attention: Mr. Edwin Ching

Dear Mr. Ching,

**Re: Agreement No. EDO 01/2019  
Independent Environmental Checker for  
Contract No. ED/2018/04 – Trunk Road T2 and Infrastructure Works for  
Developments at the Former South Apron**

**Monthly EM&A Report (April 2024) for EP-451/2013**

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for April 2024 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 8 May 2024. We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

Thank you for your attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,  
For and on behalf of  
Ramboll Hong Kong Limited



Y H Hui  
Independent Environmental Checker

c.c.	CEDD	Attn.: Mr. Tommy Wong	Fax: 2739 0076
	BTP	Attn.: Mr. Ivan Chau	By email
	Cinotech	Attn.: Mr. K. S. Lee	Fax: 3107 1388

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**EXECUTIVE SUMMARY****Introduction**

1. This is the 50<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for “Trunk Road T2”. This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-451/2013 and in accordance with the EM&A Manual (AEIAR-174/2013) during the reporting month of April 2024.

**Summary of Main Works Undertaken and Key Measures Implemented**

2. The main works of each works contracts undertaken during the reporting period are as follows:

**Table I Summary of Key Construction Work in the Reporting Month**

<b>Contract No.</b>	<b>Project Title</b>	<b>Site Activities</b>
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ul style="list-style-type: none"> <li>• West Ventilation Building RC Structure, ABWF, E&amp;M</li> <li>• Launching Shaft / Cut &amp; Cover RC Structure</li> <li>• Westbound TBM Tunnelling</li> <li>• Eastbound TBM Tunnelling</li> <li>• EB Service Gallery Installation</li> <li>• WB Service Gallery Installation</li> <li>• CP Tympanum Construction</li> <li>• Cross Passage Finishing</li> <li>• Sub-sea Corbel Construction</li> <li>• Sub-sea Crown Fire Board</li> <li>• Sub-sea Road Level Fire Board</li> <li>• Sub-sea OHVD Soffit Fire Board</li> <li>• Sub-sea Parapet Installation</li> <li>• SUS Remaining Internal Wall</li> <li>• Sub-sea OHVD Slab Installation</li> <li>• SUS Fire Board installation</li> <li>• SUS Skin Wall</li> <li>• Tunnel Segment delivery</li> <li>• MiMEP Module Installation</li> <li>• Sub-sea E&amp;M Bracket installation</li> <li>• Sub-sea E&amp;M Bracket drilling</li> <li>• Sub-sea E&amp;M installation</li> <li>• Eastbound cavern excavation</li> </ul>
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance	<ul style="list-style-type: none"> <li>• WVB Installation of cable containment</li> <li>• Tunnel: Site survey, installation of cable containment and cabinet.</li> </ul>

	System (TCSS) and Associated Works <sup>(1)</sup>	
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Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

3. Implementation of the key mitigation measures during the reporting period are as follows:

**Table II Summary of Key Mitigation Measures Implemented in the Reporting Month**

Contract No. and Project Title	Key Mitigation Measures Implemented
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	<p><i>Air Quality</i></p> <ul style="list-style-type: none"> <li>Water spraying regularly on construction site area to avoid dust generation.</li> <li>Excavated dusty materials were covered by impervious sheets.</li> </ul> <p><i>Noise</i></p> <ul style="list-style-type: none"> <li>Air compressor was operated with door closed and have valid noise labels.</li> <li>Use of Quality Powered Mechanical Equipment (QPME)</li> <li>Erecting noise barriers on site to minimize noise impact generated from breaking activities.</li> </ul> <p><i>Water Quality</i></p> <ul style="list-style-type: none"> <li>WetSep was constructed to treat the surface runoff prior to discharge.</li> </ul> <p><i>Landscape and Visual</i></p> <ul style="list-style-type: none"> <li>Tree protection zone were fenced off to protect the existing tree.</li> </ul>
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	N/A

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

**Summary of Exceedances, Investigation and Follow-up**

4. Exceedance of Action/Limit levels during the reporting month (April 2024) and the investigation results and/or follow-up actions:

*Air Quality Monitoring*

- No Action Level exceedance for 24-hour TSP was recorded.

- No Limit Level exceedance for 24-hour TSP was recorded.

#### *Construction Noise Monitoring*

- No Limit Level exceedance for day time construction noise was recorded in this reporting month.
- No Action Level exceedance was recorded in this reporting month.

#### *Landscape and Visual Monitoring and Audit*

- No non-compliance of the landscape and visual impact was recorded in the reporting month. The implementation of landscape and visual and mitigation measures was checked by a Registered Landscape Architect (RLA) during the environmental site inspections.

### Complaint Handling, Prosecution and Public Engagement

**Table III Summary of Complaint/Summons/Prosecution in the Reporting Month**

Event	Event Details		Follow-up/ Remedial Actions	Status/ Remarks
	Number	Brief Description		
Complaints Received	1	A verbal complaint regarding the noise nuisance, generated from the construction works nearby the Wai Lok Street building at 10:20 pm, was received by EPD	<ul style="list-style-type: none"> <li>• The complaint is considered as <b>project-related</b>.</li> <li>• Despite the lifting operation being carried out at the site during the night, the contractor was in possession of a valid construction noise permit (GW-RE0328-24). All construction activities were performed in accordance with legal regulations, and no violations of the law were found.</li> <li>• In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace</li> </ul>	Closed

			<p>damaged semi-enclosure/noise barrier and provide regularly maintenance for PMEs.</p> <ul style="list-style-type: none"> <li>As the complaint was considered as project related, the contractor had implemented the relevant mitigation measures to minimize the noise impact including:                     <ol style="list-style-type: none"> <li>Conduct regular noise monitoring.</li> <li>Conduct regular maintenance for all Powered Mechanical Equipment to minimize the noise generated from engines.</li> <li>Displayed the CNP at the gates of Portion Q.</li> </ol> </li> </ul>	
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

**Reporting Changes**

- No reporting change in this reporting month.

**Future Key Issues**

- The key works or activities will be anticipated in the next reporting period are as follows:

**Table IV Summary Table for Site Activities in the next Reporting Period**

Contract No. and Project Title	Site Activities (May 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ol style="list-style-type: none"> <li>West Ventilation Building RC Structure, ABWF, E&amp;M</li> <li>Launching Shaft / Cut &amp; Cover RC Structure</li> <li>Westbound TBM Tunnelling</li> </ol>	(A) / (B) / (C) / (D)

	4) Eastbound TBM Tunnelling 5) EB Service Gallery Installation 6) WB Service Gallery Installation 7) CP Tympanum Construction 8) Cross Passage Finishing 9) Sub-sea Corbel Construction 10) Sub-sea Crown Fire Board 11) Sub-sea Road Level Fire Board 12) Sub-sea OHVD Soffit Fire Board 13) Sub-sea Parapet Installation 14) SUS Remaining Internal Wall 15) SUS Fire Board installation 16) Tunnel Segment delivery 17) Sub-sea OHVD Slab Installation 18) MiMEP Module Installation 19) Sub-sea E&M Bracket installation 20) Sub-sea E&M installation 21) Sub-sea E&M Bracket drilling 22) Eastbound cavern excavation 23) SUS Skin Wall 24) SUS Bracket installation	
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	1) Site survey 2) Installation of cable containment at Gantry 3) FAT for Radio System 4) FAT for CCTV System	

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

- (A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock breaking activities;
- (B) Noisy construction activity such as rock-breaking activities and piling works
- (C) Runoff from exposed slope or site area; and
- (D) Wastewater and runoff discharge from site.

**Review of Status and Location of Monitoring Stations**

- 3) According to the EM&A Manual (AEIAR-174/2013), the number and location of the monitoring stations and parameters should be reviewed in every six months, or on as -needed basis, in order to cater for any changes in the surrounding environmental and the nature of works in progress. The latest review was conducted in January 2024 and the review of status and location of monitoring stations are summarized as follow:

**Table V Summary Table for Review of Status and Location of Monitoring Stations**

Monitoring Station ID	Review Status	Follow-up Action/ Recommendation
KTD 2d	ET has reviewed the status and location of KER1, KTD 1, KTD2d, CKL1 and	N/A

KER1	CKL2. To conclude, the environmental monitoring conducted at KER1, KTD 1, KTD2d, CKL 1 and CKL 2 are appropriate, and the monitoring results reflect how the sensitive receiver(s) is/are impacted by the construction activities of the Project.	
KTD 1		
CKL 1		
CKL 2		

N/A: Not Applicable

## 1 INTRODUCTION

### Background

- 1.1 In 2009, Civil Engineering and Development Department (CEDD) commissioned a Kai Tak Development (KTD) – Trunk Road T2 and Infrastructure at South Apron Investigation. The assignment covers the provision of the Trunk Road T2 and its connections with the Central Kowloon Route (CKR) at the north apron area and the Tseung Kwan O – Lam Tin Tunnel (TKOLTT) to the south in the Cha Kwo Ling area.
- 1.2 The Trunk Road T2 Project is one of the designated Projects under Schedule 2 of the EIAO proposed in the KTD. CEDD submitted the Project Profile (No. PP-379/2009) on 24 March 2009 for application for an EIA study brief for the Trunk Road T2 Project under the EIAO. Accordingly, an EIA Study Brief (ESB-203/2009) for the Trunk Road T2 Project was issued on 30 April 2009. The Environmental Impact Assessment (EIA) Report for the Trunk Road T2 Project was approved under the Environmental Impact Assessment Ordinance (EIAO) on 19 September 2013. The corresponding Environmental Permit (EP) was issued on 19 September 2013 (EP no.: EP-451/2013).
- 1.3 The Contract No. ED/2018/04 is the main contract of Trunk Road T2 (“T2 Main Works”) which comprises mainly the design and construction of a dual two-lane trunk road of approximately 3.4km long with about 3.1km of the trunk road in form of tunnel; ventilation and administration buildings, environmental protection and mitigation works and etc. Moreover, the Contract No. ED/2020/03 is the other contract under Trunk Road T2 Project which comprises mainly design and construction of the TCSS for this Project. The EM&A programme at Kai Tak area under the Contract ED/2018/04 and ED/2020/03 are governed by the EP-451/2013 and EM&A Manual (AEIAR-174/2013). The work areas of the Trunk Road T2 Project are shown in **Figure 1** and the works to be executed under each Contract and corresponding EP are summarized as follows:

Environmental Permit	Works Description
EP-451/2013 – Trunk Road T2	<u>ED/2018/04</u> <ul style="list-style-type: none"> <li>Construction of highway and sub-sea tunnel connecting between Central Kowloon Route and Cha Kwo Ling Tunnel</li> <li>Western &amp; Eastern Ventilation Buildings</li> </ul> <u>ED/2020/03</u> <ul style="list-style-type: none"> <li>Design and construction of TCSS for Trunk Road T2</li> </ul>

### Monitoring Works in Kai Tak under EP-451/2013

- 1.4 Under Contract No. KL/2014/03 – Kai Tak Development – Stage 3 Infrastructure Works for Development at the Southern Part of the Former Runway (“T2 Advance Works”), the baseline monitoring works in Kai Tak under the EM&A Manual (AEIAR-174/2013) were conducted by the Environmental Team (ET) for the Contract No. KL/2014/03 at the approved relocated monitoring locations (EPD reference: EP2/K19/A/21 pt.5), namely KTD1a, KTD2a & KER1a. During the impact monitoring period, monitoring locations KTD 2a and KER 1a were relocated to new locations, i.e. KTD 2b and KER 1b (EPD reference: ( ) in EP2/K19/A/21 pt. 6 and ( ) in EP2/K19/A/21 pt. 5) respectively. Location KTD2b was then further relocated to location KTD2c, the proposal of such relocation was submitted to EPD on 24 March 2020 and was approved by EPD on 6 April 2020 (EPD reference: ( ) in EP2/K19/A/21 pt.7). The aforementioned relocation was effective from 9 April 2020. Since the major part of work under Contract No. KL/2014/03 has been completed and monitoring works conducted by the ET of Contract No. KL/2014/03 was determined to be ceased, the impact monitoring within the Kai Tak area was then handed over to the ET of Contract No. ED/2018/04 on 1 August 2020. The monitoring location has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to the monitoring location KTD1 and KER1 on 3 August 2020, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Location KTD2c was then further relocated to location KTD2d, the proposal of such relocation was submitted on 9 March 2021 and was approved by EPD on 27 March 2021 (EPD reference: ( ) in EP2/K19/A/21 pt.8). The aforementioned relocation was effective from 24 May 2021. The impact monitoring for the three stations KTD1, KTD2d and KER1 are currently conducted by the ET of T2 Main Works

### Monitoring Works in Cha Kwo Ling under EP-451/2013

- 1.5 The environmental impact of the remaining works in Cha Kwo Ling, under EP-451/2013, shall be monitored at the two proposed stations, namely CKL1, CKL2, in accordance to the EM&A Manual (AEIAR-174/2013). The impact monitoring for the two proposed stations shall be conducted by the ET of T2 Main Works.
- 1.6 Cinotech Consultants Ltd. Was designated as the Environmental Team (ET) to undertake the EM&A works for “Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron” (hereinafter called the “Project”) and “Trunk Road T2 –Traffic Control & Surveillance System (TCSS) and Associated Works”.

### **Purpose of the Report**

- 1.7 This is the 50<sup>th</sup> Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in April 2024.

## Project Organizations

1.8 Different Parties with different levels of involvement in the Project organization include:

- Permit Holder – Civil Engineering and Development Department (CEDD)
- Supervisor Representative – Hyder-Meinhardt Joint Venture (HMJV)
- Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
- Independent Environmental Checker (IEC) – Ramboll Hong Kong Limited (Ramboll)
- Contractor – Bouygues Travaux Publics (BTP) (For ED/2018/04) & GTECH Services (Hong Kong) Limited (For ED/2020/03)

1.9 The key contacts of the Project are shown in **Table 1.1**.

**Table 1.1 Key Project Contacts**

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Ms. Hazel Tang	2149 8524
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
		Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor (ED/2018/04)	Mr. Roy Leung	6628 2685
GTECH	Contractor (ED/2020/03)	Mr. Deacon Choi	6038 3568

1.10 The Organizational Structure for Environmental Management is shown in **Figure 1.2**.

## Construction Activities undertaken during the Reporting Month

1.11 The major site activities undertaken in the reporting month included:

**Table 1.2 Summary of Key Construction Work in the Reporting Month**

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ul style="list-style-type: none"> <li>• West Ventilation Building RC Structure, ABWF, E&amp;M</li> <li>• Launching Shaft / Cut &amp; Cover RC Structure</li> <li>• Westbound TBM Tunnelling</li> <li>• Eastbound TBM Tunnelling</li> <li>• EB Service Gallery Installation</li> <li>• WB Service Gallery Installation</li> <li>• CP Tympanum Construction</li> <li>• Cross Passage Finishing</li> </ul>

		<ul style="list-style-type: none"> <li>• Sub-sea Corbel Construction</li> <li>• Sub-sea Crown Fire Board</li> <li>• Sub-sea Road Level Fire Board</li> <li>• Sub-sea OHVD Soffit Fire Board</li> <li>• Sub-sea Parapet Installation</li> <li>• SUS Remaining Internal Wall</li> <li>• Sub-sea OHVD Slab Installation</li> <li>• SUS Fire Board installation</li> <li>• SUS Skin Wall</li> <li>• Tunnel Segment delivery</li> <li>• MiMEP Module Installation</li> <li>• Sub-sea E&amp;M Bracket installation</li> <li>• Sub-sea E&amp;M Bracket drilling</li> <li>• Sub-sea E&amp;M installation</li> <li>• Eastbound cavern excavation</li> </ul>
ED/2020/03	Trunk Road T2 – Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	<ul style="list-style-type: none"> <li>• WVB Installation of cable containment</li> <li>• Tunnel: Site survey, installation of cable containment and cabinet.</li> </ul>

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

1.12 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA Report.

1.13 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 10** of this report.

1.14 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in April 2024.

**Status of Environmental Licensing and Permitting**

1.15 All permits/licenses obtained for the Project are summarized in **Table 1.3**.

**Table 1.3 Summary of Environmental License and Permit**

Contract No.	Permit / License No.	Valid Period		Status
		From	To	
<b>Environmental Permit (EP)</b>				
N/A	EP-451/2013	19 Sep 2013	N/A	Valid
<b>Notification pursuant to Air Pollution (Construction Dust) Regulation</b>				
ED/2018/04	Ref. No.: 451120	20 Nov 2019	N/A	Valid
ED/2020/03	Ref. No.: 483143	15 Aug 2022	N/A	Valid
<b>Billing Account for Construction Waste Disposal</b>				
ED/2018/04	A/C No.: 7036016	09 Dec 2019	N/A	Valid
ED/2020/03	A/C No.: 7043158	31 Jan 2022	N/A	Valid
<b>Billing Account for Vessel Disposal</b>				
ED/2018/04	A/C No.:7037747 (Application No.: CEDD01214)	12 Jan 2024	10 Apr 2024	Expired on 10 Apr 2024
	A/C No.:7037747 (Application No.: CEDD01228)	11 Apr 2024	25 Jul 2024	Valid
<b>Construction Noise Permit</b>				
ED/2018/04	CNP No. (For Portion Q): GW-RE0309-24	21 Mar 2024	31 Aug 2024	Valid
	CNP No. (For Depressed Road): GW-RE0160-24	28 Feb 2024	29 Apr 2024	Expired on 29 Apr 2024
	CNP No. (For Launching Shaft and Barging Point): GW- RE0328-24	19 Mar 2024	13 Sep 2024	Valid
	CNP No. (For Depressed Road): GW-RE0447-24	30 Apr 2024	29 Oct 2024	Valid
<b>Wastewater Discharge License</b>				
ED/2018/04	WT00036183-2020 (For Depressed Road Area)	27 Jul 2020	31 Jul 2025	Valid
	WT00039117-2021 (For Site Office and Support Area)	28 Sep 2021	30 Sep 2026	Valid
	WT00036228-2020 (For Launching Shaft)	10 Nov 2021	31 Jul 2025	Valid
	WT10001495-2023 (For TBM Consumable Storage Area)	19 Mar 2024	13 Sep 2024	Valid
<b>Chemical Waste Producer License</b>				
ED/2018/04	WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid
<b>Marine Dumping Permit</b>				
ED/2018/04	EP/MD/24-067	3 Jan 2024	2 Apr 2024	Expired on 2 Apr 2024
	EP/MD/24-083	5 Apr 2024	4 Jul 2024	Valid

## 2. AIR QUALITY

### Monitoring Requirement

- 2.1 According to the EM&A Manual (AEIAR-174/2013), 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. In case of complaints, 1-hour TSP monitoring should be conducted at least three times in every six days when the highest dust impacts are likely to occur. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

### Monitoring Locations

- 2.2 Five designated monitoring stations were selected for air quality monitoring programme. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.
- 2.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

**Table 2.1 Air Quality Monitoring Locations**

Monitoring Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area
KER1	Future Residential Development at Kerry Godown
CKL1	Flat 121 Cha Kwo Ling Village
CKL2	Flat 103 Cha Kwo Ling Village

### Monitoring Parameters and Frequency

- 2.4 **Table 2.2** summarizes the monitoring parameters, monitoring period and frequencies of impact air quality monitoring. The monitoring schedule is shown in **Appendix B**.

**Table 2.2 Frequency and Parameters of Air Quality Monitoring**

Monitoring Stations	Parameter	Period	Frequency
KTD1, KTD2d, KER1, CKL1 & CKL2	1-hour TSP	0700 – 1900	3 times per 6 days (as required in case of complaints)
KTD1, KTD2d, KER1, CKL1 & CKL2	24-hour TSP	24 hours	Once every 6 days

### Monitoring Equipment

- 2.5 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-174/2013), Section 2.2.1.4, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured by direct reading method.
- 2.6 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House, Lam Tin for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was re-calibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each. Wind data is attached in **Appendix D**.
- 2.7 **Table 2.3** summarizes the equipment used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

**Table 2.3 Air Quality Monitoring Equipment**

Equipment	Model	Quantity
HVS Sampler	TISCH Model: TE-5170 (Serial no. 0723, 1956, 10595, 1316, 5280)	5
Calibrator	TISCH Model: TE-5025A (Serial no. 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (Serial no. MC01010A44)	1

### Monitoring Methodology

#### *1-hour TSP Monitoring*

##### Measuring Procedures

- 2.8 The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(Sibata Model No.: LD-3B/LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.

- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

#### Maintenance/Calibration

2.9 The following maintenance/calibration is required for the 1-hour dust meter:

- Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

#### ***24-hour TSP Monitoring***

##### Instrumentation

2.10 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.

2.11 The positioning of the HVS samplers are as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
- No two samplers shall be placed less than 2 meter apart;
- The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
- A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
- No furnace or incinerator flue is nearby;
- Airflow around the sampler is unrestricted;
- The sampler is more than 20 metres from the dripline;
- Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
- Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- A secured supply of electricity is needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

2.12 Operating/analytical procedures for the air quality monitoring are highlighted as follows:

- Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m<sup>3</sup>/min. and 1.7 m<sup>3</sup>/min.) in accordance with the EM&A manual (AEIAR-174/2013). The flow rate shall be indicated on the flow rate chart.
- For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3µm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

2.13 The following maintenance/calibration is required for the HVS:

- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
- High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

## Results and Observations

- 2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.
- 2.15 No Action and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. No exceedance of 24-hour TSP were considered as **project related** and no exceedance of 24-hour TSP were considered as **non-project related**. Details of the exceedance are presented in **Appendix M**.
- 2.16 The air temperature, relative humidity, and the precipitation data were obtained from daily extracts of Hong Kong Observatory Climate Information Service. This weather information for the reporting month is summarized in **Appendix D**.
- 2.17 The monitoring data and graphical presentations of 24-hour TSP monitoring results are shown in **Appendix F**.
- 2.18 According to field observations observed in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

**Table 2.4 Major Dust Source during Air Quality Monitoring**

Monitoring Stations	Major Dust Source
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	<ul style="list-style-type: none"> <li>Project related construction activities (i.e., Loading and unloading of C&amp;D wastes, drilling, crushing of material);</li> <li>Vehicle movement in the site;</li> </ul>
KER 1 – Future Residential Development at Kerry Godown	<ul style="list-style-type: none"> <li>Construction activities at the nearby construction sites of New Acute Hospital; and,</li> <li>Road traffic along Shing Fung Road, Shing Cheong Road, Cheung Yip Street, Kai Hing Road and Kwun Tong Bypass.</li> </ul>
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	<ul style="list-style-type: none"> <li>Project related construction activities (i.e., Loading and unloading of C&amp;D material, crushing of material);</li> <li>Vehicle movement in the site; and,</li> <li>Non-project related construction activities (i.e excavating work, Loading and unloading of C&amp;D wastes at the nearby construction site of Additional District Cooling System at Kai Tak Development, Paul Y. Engineering.)</li> </ul>
CKL1 - Flat 121 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road
CKL2 - Flat 103 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road

**Comparison of EM&A Result with EIA Prediction**

2.19 The air monitoring data was compared with the predictions in Table 4.14 of EIA Report, AEIAR-174/2013 (as approved in 2013) as summarised in **Table 2.6** for 24-hour TSP.

**Table 2.6 Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report**

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR-174/2013), $\mu\text{g}/\text{m}^3$	Maximum 24-hr TSP Concentration in the Reporting Month (April 2024), $\mu\text{g}/\text{m}^3$
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	53.1
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A <sup>(1)</sup>	N/A <sup>(1)</sup>	114.7
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	70.3
CKL1 - Flat 121 Cha Kwo Ling Village	N/A <sup>(1)</sup>	N/A <sup>(1)</sup>	118.7
CKL2 - Flat 103 Cha Kwo Ling Village	N/A <sup>(1)</sup>	N/A <sup>(1)</sup>	152.7

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-174/2013)

2.20 In the reporting month the 24-hour TSP concentration at KER1 and KTD1 were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). No Action and Limit level exceedance for 24-hour TSP was recorded in the reporting period.

### 3 NOISE

#### Monitoring Requirement

- 3.1 According to the EM&A Manual (AEIAR-174/2013), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

#### Monitoring Locations

- 3.2 Noise monitoring was conducted at five designated monitoring stations, namely KTD1, KTD2d, KER1, CKL1 and CKL2 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.
- 3.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

**Table 3.1 Noise Monitoring Stations**

Monitoring Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children’s Hospital)
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area
KER1	Future Residential Development at Kerry Godown
CKL1	Flat 121 Cha Kwo Ling Village
CKL2	Flat 103 Cha Kwo Ling Village

#### Monitoring Parameters, Frequency and Duration

- 3.4 **Table 3.2** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix B**.

**Table 3.2 Frequency and Parameters of Noise Monitoring**

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L <sub>10</sub> (30 min.) dB(A)	Façade Measurement
KTD2d					Free Field Measurement
KER1					Free Field Measurement
CKL1					Free Field Measurement
CKL2					Free Field Measurement

### Monitoring Equipment

3.5 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used within the reporting period. Copies of calibration certificates are attached in **Appendix G**.

**Table 3.3 Noise Monitoring Equipment**

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial no. 580156, 570188)	4
	SVAN 957 (Serial no. 23851)	
	SVAN 979 (Serial no. 27189)	
Calibrator	AWA6021A (Serial no. 1023253)	3
	SV 30A (Serial no. 10965)	
	Type 4231 (Serial no. 2326353)	

### Monitoring Methodology and QA/QC Procedure

3.6 The monitoring procedures are as follows:

- The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - Frequency weighting: A
  - Time weighting: Fast
  - Time measurement: 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement

was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

### Maintenance and Calibration

- 3.7 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.8 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.9 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

### Results and Observations

- 3.10 Impact noise monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**. No Action and Level exceedance was recorded for day time construction noise monitoring in the reporting month.
- 3.11 Noise monitoring results and graphical presentations are shown in **Appendix H**.
- 3.12 According to field observations observed in the reporting period, the major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

**Table 3.4 Other Noise Source Identified during Noise Monitoring**

Monitoring Stations	Major Noise Source
KTD 1	<ul style="list-style-type: none"> <li>• Project related construction activities (Loading and unloading of C&amp;D waste, travel of vehicles, use of PME and other plants, and other construction activities);</li> <li>• Vehicle movement in the site;</li> <li>• Road traffic along Shing Cheong Road; and,</li> <li>• Non-project related construction activities at the nearby construction site of New Acute Hospital.</li> </ul>
KTD 2d	<ul style="list-style-type: none"> <li>• Project related construction activities (Loading and unloading of C&amp;D waste, travel of vehicles, use of PME and other plants, and other construction activities);</li> <li>• Vehicle movement in the site; and,</li> <li>• Non-project related construction activities. (i.e excavating work, Loading and unloading of C&amp;D wastes at the nearby construction site of Additional District Cooling System at Kai Tak Development, Paul Y. Engineering.)</li> </ul>

Monitoring Stations	Major Noise Source
KER 1	<ul style="list-style-type: none"> <li>Road traffic along Kai Hing Road.</li> <li>Project related construction activities (Travel of vehicles, use of PME and other plants, and other construction activities)</li> </ul>
CKL1	Road traffic along Cha Kwo Ling Road.
CKL2	Road traffic along Cha Kwo Ling Road

3.13 The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.

**Table 3.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations**

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
KTD1	78	75
KTD2d	64	
KER1	65	
CKL1	72.4	
CKL2	71.4	

### Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 5.13 of EIA Report (AEIAR-174/2013) as summarised in **Table 3.6**.

**Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report**

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR-174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (April 2024), Leq (30min) dB(A)
KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD1	74	72.1
KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A <sup>(1)</sup>	N/A <sup>(1)</sup>	67.0
KER1 – Future Residential Development at Kerry Godown	KER1	75	73.0
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	73.0
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	75.0

Remarks:

(1): No Maximum Predicted Mitigated Construction Noise Levels was predicted in EIA Report (AEIAR-174/2013)

3.15 The results at CKL1 and CKL2 were higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-174/2013 (as approved in 2013), this may be due to fluctuations of traffic flow along the traffic flow along Cha Kwo Ling Road throughout the day. Besides, the result at KER1 and KTD1 were lower than the maximum predicted mitigated construction noise level in the EIA Report. No Action and Limit Level exceedance were recorded in the reporting period.

## 4 WATER QUALITY

### Monitoring Requirement

- 4.1 According to Section 4.3.1.1 of EM&A Manual (AEIAR-174/2013), no water quality monitoring is required during the construction phase.
- 4.2 According to Section 4.3.1.5 of EM&A Manual (AEIAR-174/2013), compliance site audits are to be undertaken by the Engineer and ET and escorted by the Contractor to ensure that a valid discharge license has been issued by the EPD prior to the discharge of the effluent from the construction activities of the Project site. Monitoring of the quality of the treated effluent from the works areas should be carried out in accordance with the Water Pollution Control Ordinance (WPCO) license. The audit results reflect whether the effluent quality is in compliance with the discharge license requirements, the summaries of site audits are attached in **Appendix I**.
- 4.3 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.

## 5 MARINE ECOLOGY

- 5.1 According to Section 5.3.1.1 of EM&A Manual (AEIAR-174/2013), ET will be required to undertake audit of good site practice for habitat protection as detailed below. The summaries of site audits are attached in **Appendix I**.
- Avoid damage and disturbance to the remaining and surrounding natural habitat;
  - Ensure placement of equipment is within designated areas within the existing disturbed land;
  - Ensure construction activities are restricted to within the proposed works boundary;
  - Ensure spoil heaps are be covered at all times;
  - Ensure that disturbed areas are reinstated immediately after completion of the works; and
  - Ensure enhancement planting works undertaken.

## 6 FISHERIES

- 6.1 According to Section 6.3.1.2 of EM&A Manual (AEIAR-174/2013), no specific fisheries monitoring and audit programme is required during the construction phase.

- 6.2 The implementation of the water quality mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 6 of the EIA Report (AEIAR-174/2013)) will be audited as part of the EM&A procedures during the construction period and the details are presented in **Section 4.2** of this Report. The summaries of site audits are attached in **Appendix I**.

## 7 LANDSCAPE AND VISUAL

- 7.1 According to the EM&A Manual (AEIAR-174/2013), a series of mitigation measures were recommended to ameliorate the landscape and visual impacts of the Project. The mitigation measures for construction stage are summarized in **Table 7.1** below and provided in **Appendix K**:

**Table 7.1 Construction Phase Landscape and Visual Mitigation Measures**

ID No.	Landscape and Visual Mitigation Measure
CM1	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.
CM2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.
CM3	Not used.
CM4	Not used.
CM5	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.
CM6	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance
CM7	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.
CM8	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.

- 7.2 A specialist Landscape Sub-Contractor should be employed by the Contractor for the implementation of landscape construction works and subsequent maintenance operations during the establishment period. It is proposed that the planting works will be on-site and the planting should be completed during the construction contract. The monitoring of the planting establishment should be undertaken for a 12 month period which could extend throughout the Contractor's one-year maintenance period, which will be within the first operational year of the Project.

- 7.3 All measures undertaken by both the Contractor and the specialist Landscape Sub-Contractor during the construction phase and first year of the operational phase shall be audited by a Registered Landscape Architect (RLA), as a member of the Environmental Team (ET), on a regular basis to ensure compliance with the intended aims of the measures. To fulfil the aforementioned requirements, on-site landscape and visual mitigation measures were audited by RLA in the reporting month.
- 7.4 According to Section 7.3.1.2 of the EM&A Manual (AEIAR-174/2013), site audits shall be undertaken at least once every two weeks throughout the construction period to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project.
- 7.5 The broad scope of the audit is detailed below but should also be undertaken with reference to the more specific checklist provided in **Table 7.2**. The summaries of site audits are attached in **Appendix I**:
- The extent of the agreed works areas should be regularly checked during the construction phase. Any trespass by the Contractor outside the limit of the works, including any damage to existing trees and soft landscape areas shall be prohibited;
  - the progress of the engineering works should be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken;
  - all existing trees and vegetation within the study area which are not directly affected by the works are retained and protected;
  - the methods of protecting existing vegetation proposed by the Contractor are acceptable and enforced;
  - preparation, lifting transport and re-planting operations for any transplanted trees;
  - all landscaping works are carried out in accordance with the specifications;
  - the planting of new trees, shrubs, groundcover, climbers, ferns, grasses and other plants, together with the replanting of any transplanted trees are carried out properly and within the right season; and
  - all necessary horticultural operations and replacement planting are undertaken throughout the Establishment Period to ensure the healthy establishment and growth of both transplanted trees and all newly established plants.

**Table 7.2 Construction Phase Audit Checklist for Landscape and Visual Mitigation Measures**

Area of Works	Items to be Monitored
Advance planting	Monitoring of implementation and maintenance of planting, and against possible incursion, physical damage, fire, pollution, surface

Area of Works	Items to be Monitored
	erosion, etc.
Protection of all trees and existing soft landscape areas to be retained	Identification and demarcation of trees / vegetation to be retained, erection of physical protection (e.g. fencing), monitoring against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Clearance of existing vegetation	Identification and demarcation of trees / vegetation to be cleared, checking of extent of works to minimise damage, monitoring of adjacent areas against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Pruning of trees	Identification and demarcation of trees / vegetation to be pruned, monitoring of extent of pruning to minimise damage, timing of operations, implementation of all stages of preparatory and pruning works, and maintenance of pruned vegetation, etc.
Plant supply	Monitoring of operations relating to the supply of specialist plant material (including the collecting, germination and growth of plants from seed) to ensure that plants will be available in time to be used within the construction works.
Soiling, planting, etc.	Monitoring of implementation and maintenance of soiling and planting works and against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Site fencing and hoarding	Implementation and maintenance, to ensure compliance with agreed designs and check that it matches the surrounding environment and does not cause visual intrusion.
Architectural treatment of engineering works.	Implementation and maintenance of mitigation measures, to ensure compliance with agreed designs as applicable.
Establishment Works	Monitoring of implementation of maintenance operations during Establishment Period.

7.6 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.

7.7 In the reporting month, no non-compliance of the landscape and visual mitigation measures was recorded by RLA.

## 8 CULTURAL HERITAGE

- 8.1 According to Section 8.3.1.1 of EM&A Manual (AEIAR-174/2013), as a precautionary measure, it is recommended that if any antiquity or supposed antiquity is discovered during the course of the excavation works undertaken by the Contractor, the discovery shall be reported to the AMO immediately and all necessary measures taken to preserve it.
- 8.2 According to Section 8.3.1.2 of EM&A Manual (AEIAR-174/2013), no EM&A is required during the construction and operational phase.

## 9 WASTE MANAGEMENT

- 9.1 According to Section 9.3.1.1 of EM&A Manual (AEIAR-174/2013), the effective management of waste arisings during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out by the Engineer, ET and Contractor to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor. The summaries of site audits are attached in **Appendix I**.
- 9.2 According to Sections 9.3.1.3 and 9.3.1.4 of EM&A Manual (AEIAR-174/2013), documents including licenses, permits, disposal and recycling records should be reviewed and audited during site audits for the compliance with the legislation and contract requirements to ensure proper records are being maintained and procedures undertaken in accordance with the Waste Management Plan.
- 9.3 With reference to the relevant handing records of this Project, the quantities of different types of waste generated in the reporting month are summarized and presented in the **Appendix O**.

**10 ENVIRONMENTAL AUDIT****Site Audits**

10.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.

10.2 Site audits for the each contract were conducted as follows.

- ED/2018/04 – Site audit were conducted on 03, 11, 18 & 25 April 2024 in the reporting month. Site inspection of the IEC was conducted on 18 April 2024. No non-compliance was observed during the site audit.
- ED/2020/03 – Site audit was conducted on 3,11,12,18 & 25 April 2024 in the reporting month. Site inspection of the IEC was conducted on 12 April 2024. No non-compliance was observed during the site audit.

**Implementation Status of Environmental Mitigation Measures**

10.3 According to Environmental Permits, the approved EIA Reports (Register No.: AEIAR-174/2013 and AEIAR-173/2013), and the EM&A Manuals of the Project (AEIAR-174/2013 and AEIAR-173/2013), the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix K**.

10.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

**Table 10.1 Observations and Recommendations of Site Audit**

Parameters	Date	Observations and Recommendations	Follow-up
<i>Air Quality</i>	28 Mar 2024	More than 20 cement bags should be covered.	The cement bags had been covered.
	28 Mar 2024	The NRMM label should be provided to the PMEs.	The NRMM label had been provided.
	11 Apr 2024	NRMM label should be replaced (Launching Shaft).	The NRMM label had been replaced.
	11 Apr 2024	3 sides barriers should be provided when conducting cement mixing.	The cement mixing machine had been covered.
	18 Apr 2024	More than 20 bags of cement should be covered on B1/F of WVB.	The cement bags had been covered.

Parameters	Date	Observations and Recommendations	Follow-up
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A
<i>Water Quality</i>	N/A	There was no observation in the reporting period.	N/A
<i>Ecology</i>	N/A	There was no observation in the reporting period.	N/A
<i>Landscape and Visual</i>	N/A	There was no observation in the reporting period.	N/A
<i>Waste/ Chemical Management</i>	28 Mar 2024	Used cement bags should be removed	The used cement bags had been removed.
	28 Mar 2024	Oil drum should be removed.	The oil drum had been removed.
	11 Apr 2024	Drip tray should be provided for chemical containers to prevent chemical leakage.	The chemical containers had been removed.
	11 Apr 2024	Accumulation of rubbish were observed at the site entrance. (Launching Shaft).	The rubbish had been removed.
<i>Permits /Licences</i>	N/A	There was no observation in the reporting period.	N/A

### Implementation Status of Event and Action Plans

10.5 The Event and Action Plans for air quality, construction noise, and landscape and visual are presented in **Appendix J**.

#### *Air Quality Monitoring*

- No Action and no Limit Level exceedance for 24-hour TSP monitoring was recorded.

#### *Construction Noise Monitoring*

- No Action and Limit Level exceedance was recorded in the reporting month.

#### *Landscape and Visual*

- No landscape and visual non-conformity was recorded.

### Status of Required Submission under Environmental Permit

10.6 According the Section 11.3.2.1 (c) of the EM&A Manual (AEIAR-174/2013), status of required submission under EP-451/2013 during the reporting period are summarized in **Table 10.2**.

**Table 10.2 Status of Required Submission under Environmental Permit**

<b>EP Condition</b>	<b>Submission</b>	<b>Submission Date</b>
EP-451/2013		
Condition 2.3	Management Organization of Main Construction Companies	20 January 2020
Condition 2.4	Design Drawing of the Project	20 January 2020
Condition 2.5	Landscape Mitigation Plan (Rev. F)	25 November 2022
Condition 2.10 (a)	Supplementary Contamination Assessment Plan	18 December 2015
Condition 2.10 (b)	Supplementary Contamination Assessment Report	6 December 2016
Condition 3.3	Updated Baseline Monitoring Report	3 November 2020
Condition 3.4	Monthly EM&A Report (March 2024)	11 April 2024

## 11 ENVIRONMENTAL NON-CONFORMANCE

### Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

11.1 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

### Summary of Exceedance

11.2 The summary of exceedance record in the reporting month is shown in **Appendix M**.

11.3 No non-conformity was recorded for landscape and visual inspections conducted in the reporting month.

## 12 FUTURE KEY ISSUES

Tentative construction programmes for the next three months are provided in **Appendix N**.

12.1 Major site activities undertaken for the coming months and the key environmental issues are summarized as follows:

**Table 12.1 Summary Table for Site Activities and the Key Environmental Issues in the next Reporting Period**

Contract No. and Project Title	Site Activities (May 2024)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ol style="list-style-type: none"> <li>1. West Ventilation Building RC Structure, ABWF, E&amp;M</li> <li>2. Launching Shaft / Cut &amp; Cover RC Structure</li> <li>3. Westbound TBM Tunnelling</li> <li>4. Eastbound TBM Tunnelling</li> <li>5. EB Service Gallery Installation</li> <li>6. WB Service Gallery Installation</li> <li>7. CP Tympanum Construction</li> <li>8. Cross Passage Finishing</li> <li>9. Sub-sea Corbel Construction</li> <li>10. Sub-sea Crown Fire Board</li> <li>11. Sub-sea Road Level Fire Board</li> <li>12. Sub-sea OHVD Soffit Fire Board</li> <li>13. Sub-sea Parapet Installation</li> <li>14. SUS Remaining Internal Wall</li> <li>15. SUS Fire Board installation</li> <li>16. Tunnel Segment delivery</li> <li>17. Sub-sea OHVD Slab Installation</li> <li>18. MiMEP Module Installation</li> </ol>	<ul style="list-style-type: none"> <li>• Wheel washing bay at site exits;</li> <li>• Temporary noise barriers for PMEs;</li> <li>• Sedimentation tank for settling muddy water; and</li> <li>• Make sure open stockpiles are covered during rainstorm.</li> </ul>

Contract No. and Project Title	Site Activities (May 2024)	Key Environmental Issues
	19. Sub-sea E&M Bracket installation 20. Sub-sea E&M installation 21. Sub-sea E&M Bracket drilling 22. Eastbound cavern excavation 23. SUS Skin Wall 24. SUS Bracket installation	
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	1. Site survey 2. Installation of cable containment at Gantry 3. FAT for Radio System 4. FAT for CCTV System	<ul style="list-style-type: none"> <li>• The waste should be removed regularly and litter free.</li> <li>• The storage area should be kept tidy.</li> </ul>

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

**Monitoring Schedule**

12.2 The tentative environmental monitoring schedule for the next three months are shown in **Appendix B**.

## 13 CONCLUSIONS AND RECOMMENDATIONS

### Conclusions

- 13.1 This is the 50<sup>th</sup> Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-174/2013) and the requirement under EP.

#### Air Quality Monitoring

- 13.2 No Action and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

#### Construction Noise Monitoring

- 13.3 No Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month.

- 13.4 No Action Level exceedance was recorded in the reporting month.

#### Site Audit

- 13.5 4 (Four) ET joint weekly environmental site inspections were conducted for the Contact No. ED/2018/04 in the reporting month.

- 13.6 5 (Five) ET joint environmental site inspections were conducted for the Contact No. ED/2020/03 in the reporting month.

#### Complaint, Notification of Summons and Successful Prosecution

- 13.7 One (1) environmental complaint was received in the reporting month. No notifications of summons and successful prosecutions were received in the reporting month.

### Recommendations

- 13.8 According to the environmental audit performed in the reporting month, the following recommendations was made:

#### ED/2018/04

##### *Air Quality*

- The cement bags should be covered when not in used.
- More than 20 cement bags should be covered by impervious sheeting.
- The valid NRMM label should be provided to the PMEs.
- The 3 sides barriers should be provided when conducting the cement mixing.

##### *Waste / Chemical Management*

- The drip tray should be provided for the chemical container / oil drums to avoid the chemical leakage and remove the used chemical containers / oil drums regularly.
- The waste in the skips should be cleared regularly, the site and surrounding should be kept tidy and litter free

- The used construction material should be removed regularly.

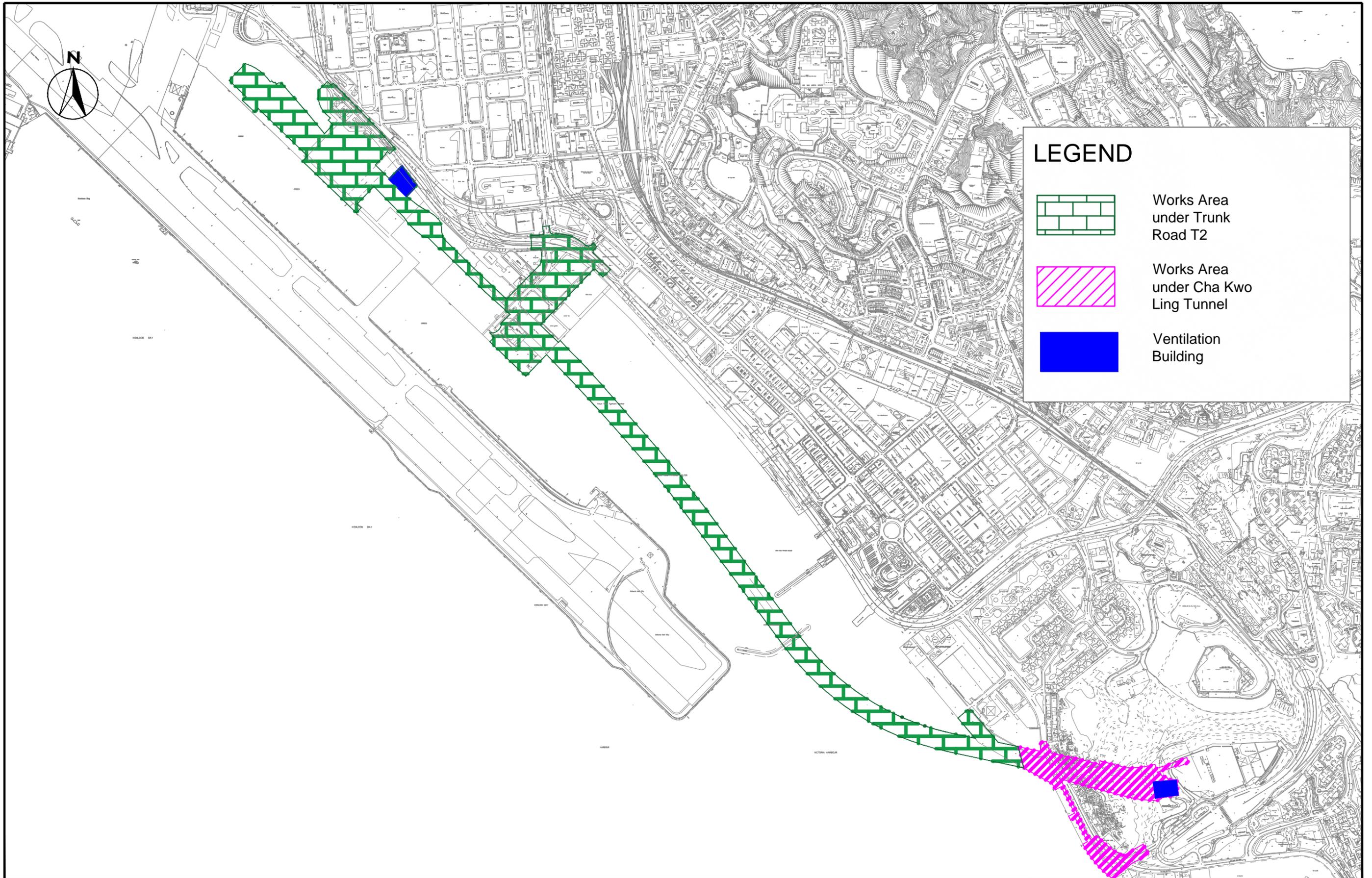
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## FIGURES

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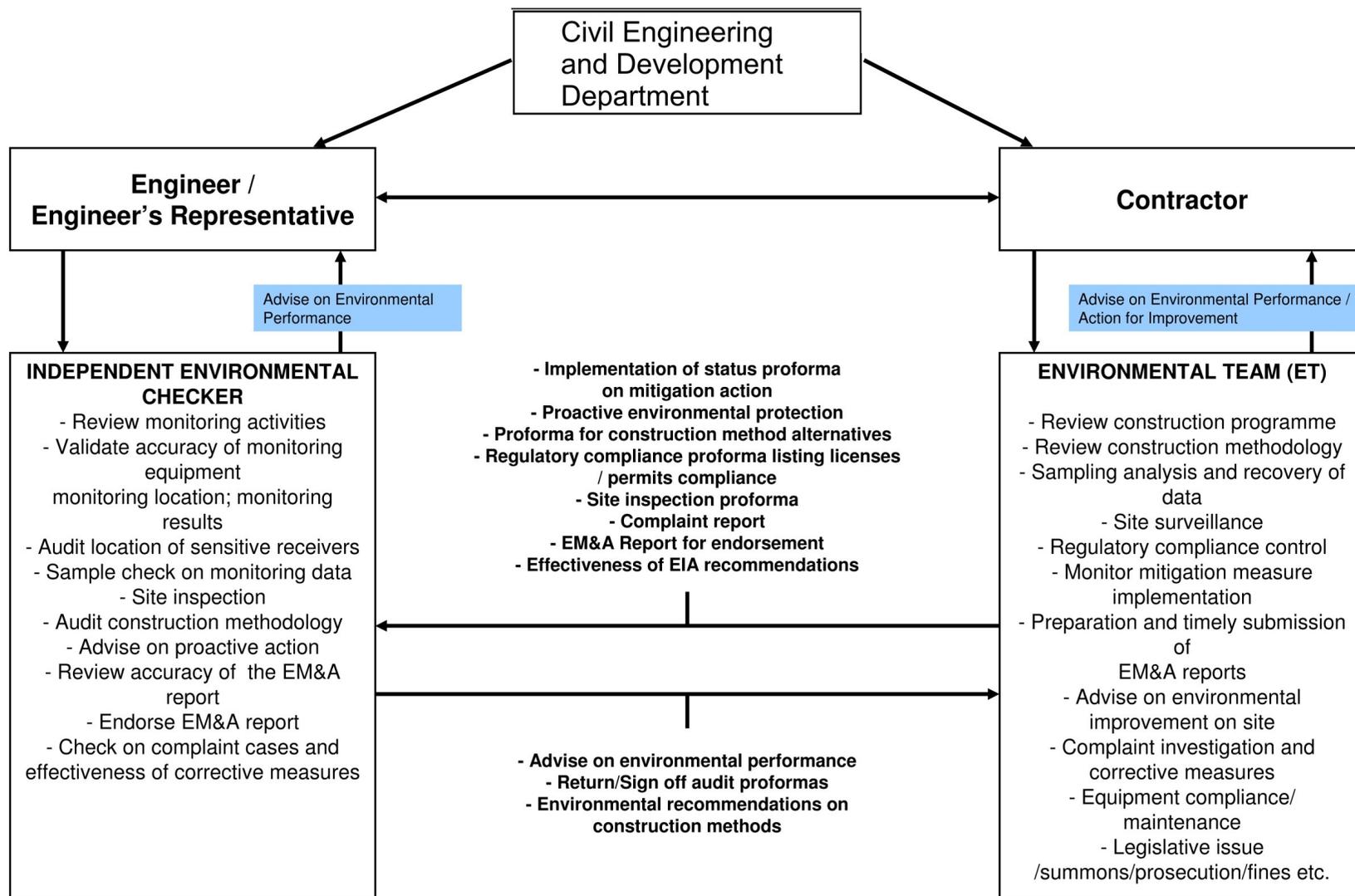
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**LEGEND**

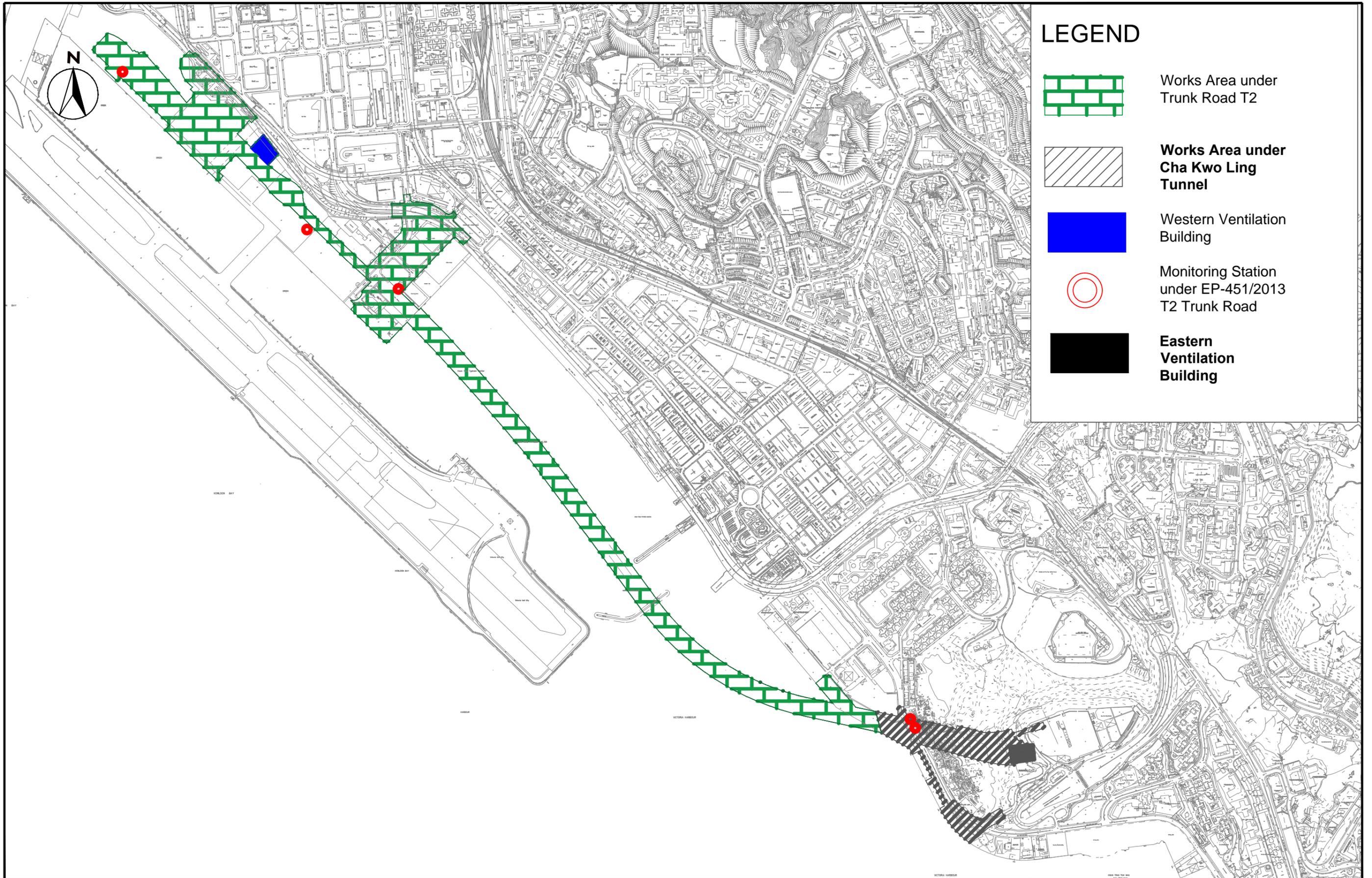
-  Works Area under Trunk Road T2
-  Works Area under Cha Kwo Ling Tunnel
-  Ventilation Building

SCALE	1:10000@A3	DATE	March 20
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 1
		REV	-

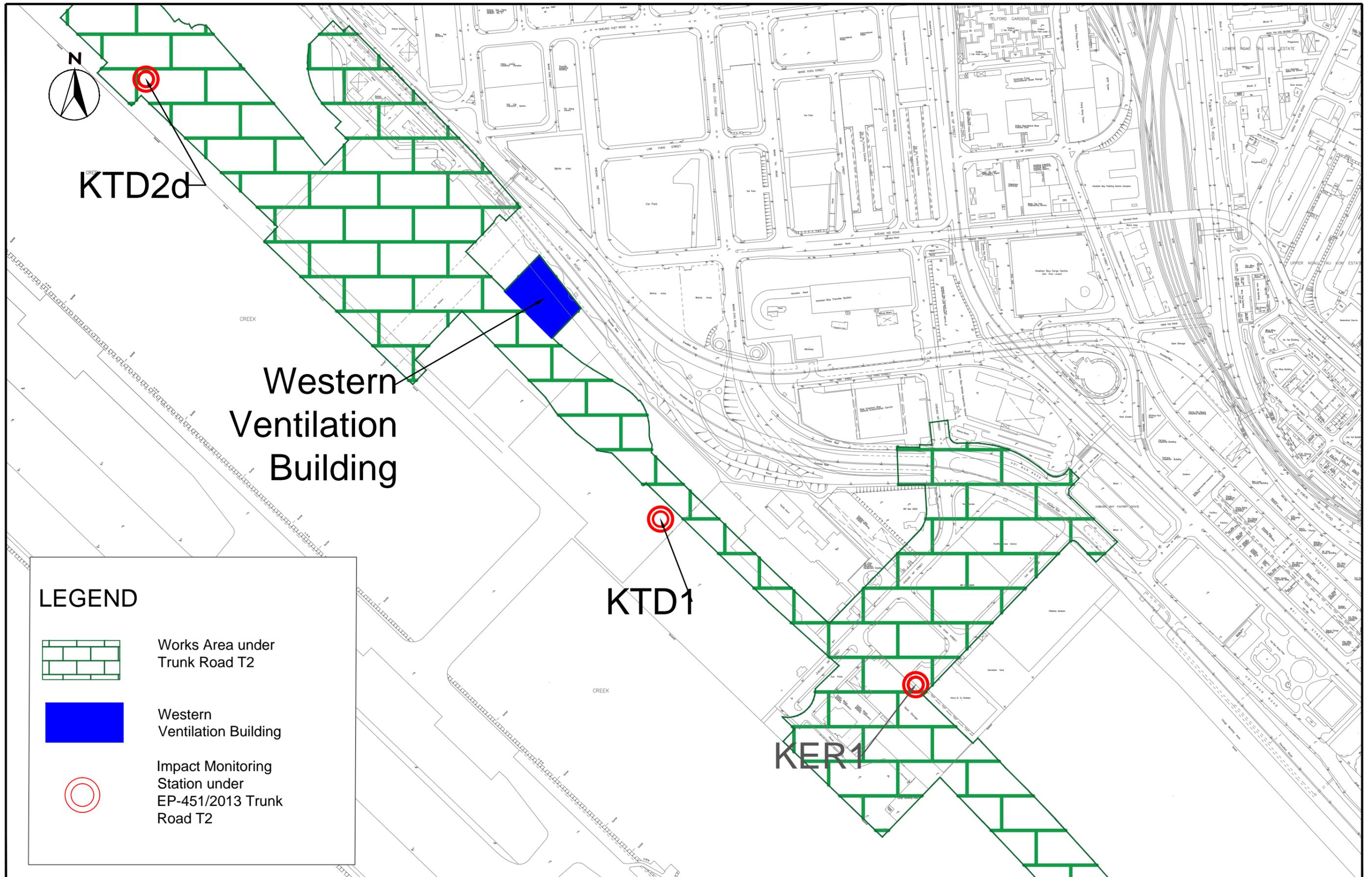


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 PRINTED BY: JACOB  
 1/17/2013 10:53:36 AM

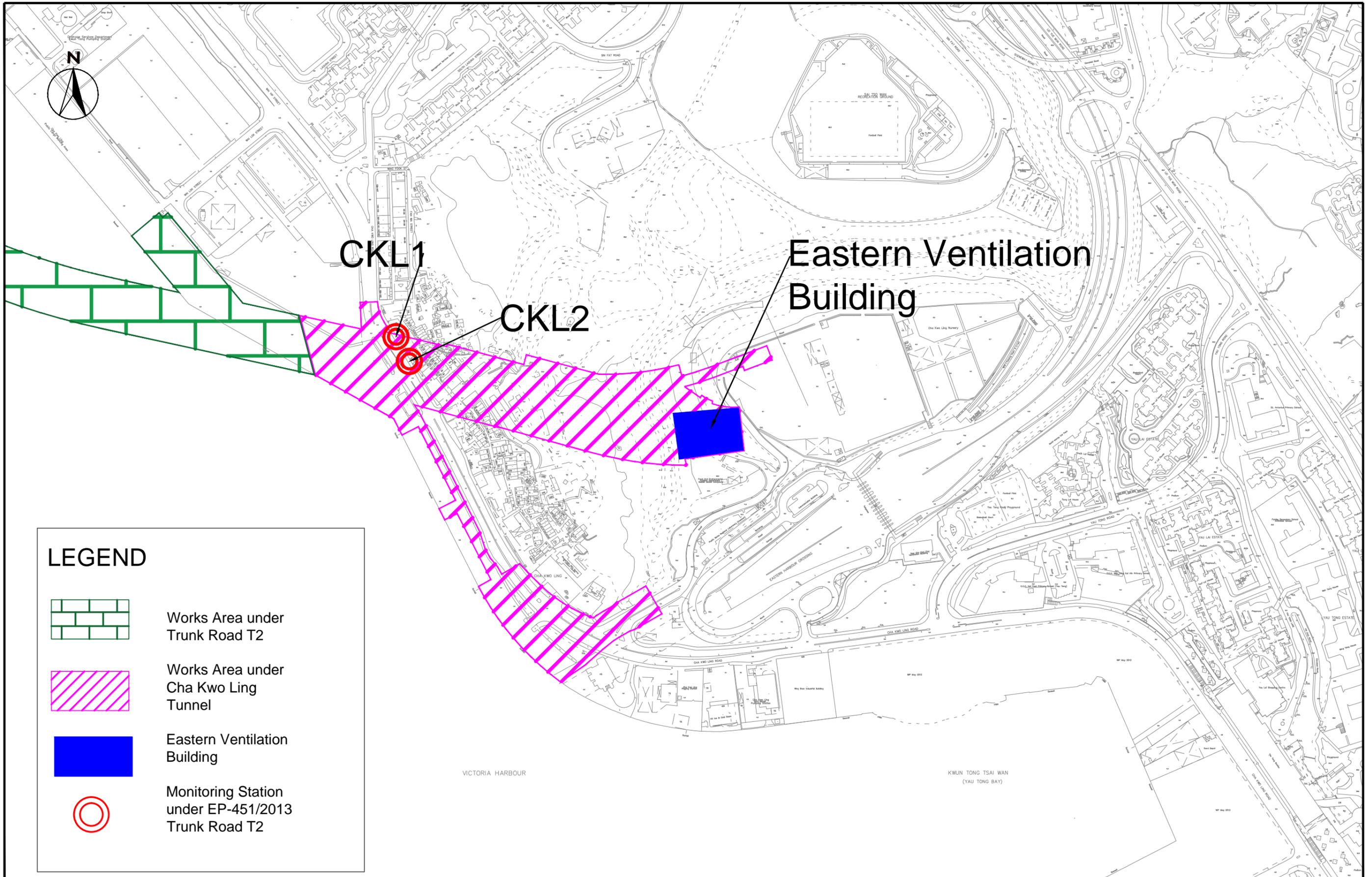
Drawing title			Original Size	A3	Scale	N.T.S	Date	18/JAN/2013
PROJECT ORGANISATION AND LINES OF COMMUNICATION			© Copyright reserved		File name		Drawing No.	
Rev.	Description	Date	FIGURE 1.2		Rev.		-	



SCALE	1:10000@A3	DATE	June 21
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2
		REV	-



SCALE	1:4000@A3	DATE	Jun 21
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2a
		REV	-



**LEGEND**



Works Area under Trunk Road T2



Works Area under Cha Kwo Ling Tunnel



Eastern Ventilation Building



Monitoring Station under EP-451/2013 Trunk Road T2

SCALE	1:4000@A3	DATE	March 20
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2b
		REV	-

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**APPENDIX A  
ACTION AND LIMIT LEVELS**

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## Appendix A - Action and Limit Levels

**Table A-1 Action and Limit Levels for 1-hour TSP (in case of complaints)**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
KTD1	285	500
KTD2d	279	
KER1	295	
CKL1	323	
CKL2	327	

**Table A-2 Action and Limit Levels for 24-hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
KTD1	177	260
KTD2d	157	
KER1	172	
CKL1	191	
CKL2	183	

**Table A-3 Action and Limit Levels for Noise during Construction Period**

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) <sup>(1)</sup>

Note:

(1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

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**APPENDIX B  
ENVIRONMENTAL MONITORING  
SCHEDULES**

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**Contract No. ED/2018/04**  
**Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron**  
**Impact Air and Noise Monitoring Schedule (April 2024)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr
		24-hr TSP	Noise			
7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr
	24-hr TSP	Noise				24-hr TSP
14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr
	Noise			24-hr TSP		
21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr
			24-hr TSP	Noise		
28-Apr	29-Apr	30-Apr				
	24-hr TSP	Noise				

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

\*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

\*\*24-hr TSP: 24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**Air Quality Monitoring Station**

*24-hr TSP*

- KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)
- KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- KER1 - Future Residential Development at Kerry Godown
- CKL1 - Flat 121 Cha Kwo Ling Village
- CKL2 - Flat 103 Cha Kwo Ling Village

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

\*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

\*\*24-hr TSP: 24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**Noise Monitoring Station**

- KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)
- KER1 - Future Residential Development at Kerry Godown
- KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- CKL1 - Flat 121 Cha Kwo Ling Village
- CKL2 - Flat 103 Cha Kwo Ling Village

**Contract No. ED/2018/04**  
**Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron**  
**Tentative Impact Air and Noise Monitoring Schedule (May 2024)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-May	2-May	3-May	4-May
					24-hr TSP	
5-May	6-May	7-May	8-May	9-May	10-May	11-May
	Noise			24-hr TSP		
12-May	13-May	14-May	15-May	16-May	17-May	18-May
		24-hr TSP		Noise		
19-May	20-May	21-May	22-May	23-May	24-May	25-May
	24-hr TSP	Noise				24-hr TSP
26-May	27-May	28-May	29-May	30-May	31-May	
	Noise			24-hr TSP		

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

\*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

\*\*24-hr TSP: 24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**Air Quality Monitoring Station**

*24-hr TSP*

- KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)
- KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- KER1 - Future Residential Development at Kerry Godown
- CKL1 - Flat 121 Cha Kwo Ling Village
- CKL2 - Flat 103 Cha Kwo Ling Village

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

\*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

\*\*24-hr TSP: 24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**Noise Monitoring Station**

- KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)
- KER1 - Future Residential Development at Kerry Godown
- KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- CKL1 - Flat 121 Cha Kwo Ling Village
- CKL2 - Flat 103 Cha Kwo Ling Village

**Contract No. ED/2018/04**  
**Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron**  
**Tentative Impact Air and Noise Monitoring Schedule (June 2024)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jun
2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun
			24-hr TSP	Noise		
9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun
		24-hr TSP	Noise			
16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun
	24-hr TSP	Noise				24-hr TSP
23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
	Noise				24-hr TSP	
30-Jun						

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

\*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

\*\*24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**Air Quality Monitoring Station**

*24-hr TSP*

- KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)
- KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- KER1 - Future Residential Development at Kerry Godown
- CKL1 - Flat 121 Cha Kwo Ling Village
- CKL2 - Flat 103 Cha Kwo Ling Village

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

\*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

\*\*24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**Noise Monitoring Station**

- KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)
- KER1 - Future Residential Development at Kerry Godown
- KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- CKL1 - Flat 121 Cha Kwo Ling Village
- CKL2 - Flat 103 Cha Kwo Ling Village

**Contract No. ED/2018/04**  
**Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron**  
**Tentative Impact Air and Noise Monitoring Schedule (July 2024)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul
				24-hr TSP	Noise	
<b>7-Jul</b>	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul
			24-hr TSP	Noise		
<b>14-Jul</b>	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul
		24-hr TSP	Noise			
<b>21-Jul</b>	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul
	24-hr TSP	Noise				24-hr TSP
<b>28-Jul</b>	29-Jul	30-Jul	31-Jul			
	Noise					

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

\*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

\*\*24-hr TSP: 24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**Air Quality Monitoring Station**

*24-hr TSP*

- KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)
- KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- KER1 - Future Residential Development at Kerry Godown
- CKL1 - Flat 121 Cha Kwo Ling Village
- CKL2 - Flat 103 Cha Kwo Ling Village

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

\*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

\*\*24-hr TSP: 24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**Noise Monitoring Station**

- KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)
- KER1 - Future Residential Development at Kerry Godown
- KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- CKL1 - Flat 121 Cha Kwo Ling Village
- CKL2 - Flat 103 Cha Kwo Ling Village

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**APPENDIX C  
COPIES OF CALIBRATION  
CERTIFICATES FOR AIR QUALITY  
MONITORING**

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# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET



File No. MA20003/18/025

Project No. CKL 1 - Flat 121 Cha Kwo Ling Village  
 Date: 4-Mar-24 Next Due Date: 4-May-24 Operator: SK  
 Equipment No.: A-01-18 Model No.: TE 5170 Serial No. 0723

Ambient Condition			
Temperature, Ta (K)	<u>292.7</u>	Pressure, Pa (mmHg)	<u>759.3</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05976</u>	Intercept, bc	<u>-0.05018</u>
Last Calibration Date:	<u>15-Jan-24</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	<u>14-Jan-25</u>	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.7</u>	3.73	63.31	<u>9.4</u>	3.09
2	<u>10.3</u>	3.24	55.00	<u>7.3</u>	2.72
3	<u>8.6</u>	2.96	50.33	<u>5.5</u>	2.37
4	<u>6.3</u>	2.53	43.20	<u>3.6</u>	1.91
5	<u>3.7</u>	1.94	33.30	<u>2.0</u>	1.43

### By Linear Regression of Y on X

Slope, mw = 0.0573 Intercept, bw : -0.5035  
 Correlation coefficient\* = 0.9968

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  3.77

Remarks: \_\_\_\_\_

Conducted by: Wong Shing Kwai Signature: [Signature] Date: 4-Mar-24

Checked by: Henry Leung Signature: [Signature] Date: 4-Mar-24

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/025

Project No. CKL 2 - Flat 103 Cha Kwo Ling Village  
 Date: 4-Mar-24 Next Due Date: 4-May-24 Operator: SK  
 Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956

Ambient Condition			
Temperature, Ta (K)	<u>292.7</u>	Pressure, Pa (mmHg)	<u>759.3</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05976</u>	Intercept, bc	<u>-0.05018</u>
Last Calibration Date:	<u>15-Jan-24</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	<u>14-Jan-25</u>	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.7</u>	3.73	63.31	<u>9.8</u>	3.16
2	<u>11.4</u>	3.41	57.82	<u>7.8</u>	2.82
3	<u>9.5</u>	3.11	52.86	<u>6.1</u>	2.49
4	<u>5.7</u>	2.41	41.13	<u>3.1</u>	1.78
5	<u>3.6</u>	1.91	32.86	<u>2.0</u>	1.43

**By Linear Regression of Y on X**

Slope, mw = 0.0577 Intercept, bw : -0.5305

Correlation coefficient\* = 0.9975

\*If Correlation Coefficient < 0.990, check and recalibrate.

**Set Point Calculation**

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  3.75

Remarks: \_\_\_\_\_  
 \_\_\_\_\_

Conducted by: Wong Shing Kwai Signature:  Date: 4-Mar-24

Checked by: Henry Leung Signature:  Date: 4-Mar-24

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET



File No. MA20003/04/0023

Project No. KER 1 - Future Residential Development at Kerry Godown  
 Date: 10-Mar-24 Next Due Date: 10-May-24 Operator: SK  
 Equipment No.: A-01-04 Model No.: TE 5170 Serial No. 10595

Ambient Condition			
Temperature, Ta (K)	<b>289</b>	Pressure, Pa (mmHg)	<b>765.8</b>

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	14-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<b>13.4</b>	3.73	63.28	<b>9.2</b>	3.09
2	<b>10.7</b>	3.33	56.63	<b>7.3</b>	2.75
3	<b>8.6</b>	2.99	50.86	<b>5.5</b>	2.39
4	<b>5.5</b>	2.39	40.84	<b>3.6</b>	1.93
5	<b>3.7</b>	1.96	33.65	<b>2.3</b>	1.55

By Linear Regression of Y on X

Slope, mw = 0.0519 Intercept, bw : -0.2044

Correlation coefficient\* = 0.9991

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  3.96

Remarks: \_\_\_\_\_

Conducted by: Wong Shing Kwai Signature: [Signature] Date: 10-Mar-24

Checked by: Henry Leung Signature: [Signature] Date: 10-Mar-24

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET



File No. MA20003/44/0022

Project No. KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)  
 Date: 10-Mar-24 Next Due Date: 10-May-24 Operator: SK  
 Equipment No.: A-01-44 Model No.: TE-5170 Serial No. 1316

Ambient Condition			
Temperature, Ta (K)	<b>289</b>	Pressure, Pa (mmHg)	<b>765.8</b>

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	14-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<b>13.6</b>	3.76	63.74	<b>9.7</b>	3.17
2	<b>11.3</b>	3.43	58.18	<b>7.5</b>	2.79
3	<b>9.0</b>	3.06	52.01	<b>5.7</b>	2.43
4	<b>6.4</b>	2.58	43.99	<b>3.9</b>	2.01
5	<b>3.9</b>	2.01	34.52	<b>2.3</b>	1.55

By Linear Regression of Y on X

Slope, mw = 0.0552 Intercept, bw : -0.3945

Correlation coefficient\* = 0.9980

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  3.77

Remarks: \_\_\_\_\_

Conducted by: Wong Shing Kwai Signature:  Date: 10-Mar-24

Checked by: Henry Leung Signature:  Date: 10-Mar-24

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET



File No. MA20003/41/0023

Project No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area  
 Date: 10-Mar-24 Next Due Date: 10-May-24 Operator: SK  
 Equipment No.: A-01-41 Model No.: TE 5170 Serial No. 5280

Ambient Condition			
Temperature, Ta (K)	<b>289</b>	Pressure, Pa (mmHg)	<b>765.8</b>

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018
Last Calibration Date:	15-Jan-24	$mc \times Q_{std} + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	14-Jan-25	$Q_{std} = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<b>14.0</b>	3.81	64.66	<b>9.6</b>	3.16
2	<b>11.5</b>	3.46	58.68	<b>8.6</b>	2.99
3	<b>9.5</b>	3.14	53.41	<b>6.4</b>	2.58
4	<b>7.0</b>	2.70	45.97	<b>4.5</b>	2.16
5	<b>4.0</b>	2.04	34.95	<b>2.2</b>	1.51

**By Linear Regression of Y on X**

Slope,  $m_w =$  0.0573 Intercept,  $b_w =$  -0.4746  
 Correlation coefficient\* = 0.9955

\*If Correlation Coefficient < 0.990, check and recalibrate.

**Set Point Calculation**

From the TSP Field Calibration Curve, take  $Q_{std} = 43$  CFM

From the Regression Equation, the "Y" value according to

$$m_w \times Q_{std} + b_w = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point;  $W = (m_w \times Q_{std} + b_w)^2 \times (760 / Pa) \times (Ta / 298) =$  3.81

Remarks: \_\_\_\_\_

Conducted by: Wong Shing Kwai Signature:  Date: 10-Mar-24

Checked by: Henry Leung Signature:  Date: 10-Mar-24

# Certificate of Calibration

Calibration Certification Information			
Cal. Date: January 15, 2024	Rootsmeter S/N: 438320	Ta: 294	°K
Operator: Jim Tisch		Pa: 755.4	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: <b>3864</b>		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4380	3.3	2.00
2	3	4	1	1.0270	6.4	4.00
3	5	6	1	0.9180	8.0	5.00
4	7	8	1	0.8750	8.9	5.50
5	9	10	1	0.7230	12.9	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left( \frac{Ta}{Pa} \right)}$ (y-axis)
1.0031	0.6975	1.4195	0.9956	0.6924	0.8823
0.9989	0.9727	2.0075	0.9915	0.9655	1.2477
0.9968	1.0858	2.2444	0.9894	1.0778	1.3950
0.9956	1.1378	2.3539	0.9882	1.1294	1.4631
0.9903	1.3697	2.8390	0.9829	1.3595	1.7645
<b>QSTD</b>	m=	<b>2.11196</b>	<b>QA</b>	m=	<b>1.32248</b>
	b=	<b>-0.05043</b>		b=	<b>-0.03134</b>
	r=	<b>0.99998</b>		r=	<b>0.99998</b>

Calculations			
Vstd=	$\Delta Vol \left( \frac{Pa - \Delta P}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)$	Va=	$\Delta Vol \left( \frac{Pa - \Delta P}{Pa} \right)$
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
For subsequent flow rate calculations:			
Qstd=	$1/m \left( \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa=	$1/m \left( \left( \sqrt{\Delta H \left( \frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH:	calibrator manometer reading (in H2O)
ΔP:	rootsmeter manometer reading (mm Hg)
Ta:	actual absolute temperature (°K)
Pa:	actual barometric pressure (mm Hg)
b:	intercept
m:	slope

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

## Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House  
 Manufacturer: Davis Instruments  
 Model No.: Davis7440  
 Serial No.: MC01010A44  
 Equipment No.: SA-03-04  
 Date of Calibration: 18-Feb-2024  
 Next Due Date: 18-Aug-2024

### 1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	$D = V1 - V2$
0.0	0.0	0.0
1.5	1.7	-0.2
2.5	2.4	0.1
4.0	3.8	0.2

### 2. Performance check of Wind Direction

Wind Direction (°)		Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$D = W1 - W2$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

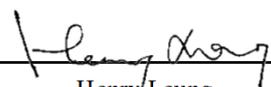
### Test Specification:

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer
2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by:

  
 \_\_\_\_\_  
 Wong Shing Kwai

Approved by:

  
 \_\_\_\_\_  
 Henry Leung

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**APPENDIX D**  
**WEATHER INFORMATION**

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**Appendix D - Weather Conditions During Impact Monitoring Period**

Date	Mean Air Temperature (°C) <sup>1</sup>	Mean Relative Humidity (%) <sup>2</sup>	Precipitation (mm) <sup>3</sup>
1-Apr-24	27.3	81	Trace
2-Apr-24	27.0	80	0.0
3-Apr-24	27.3	80	Trace
4-Apr-24	27.2	81	Trace
5-Apr-24	26.5	81	0.3
6-Apr-24	24.4	89	2.7
7-Apr-24	25.4	88	0.9
8-Apr-24	25.1	87	0.0
9-Apr-24	22.9	78	Trace
10-Apr-24	23.7	68	0.0
11-Apr-24	24.5	77	0.0
12-Apr-24	25.8	78	0.0
13-Apr-24	26.9	77	0.0
14-Apr-24	27.7	78	0.0
15-Apr-24	27.7	79	0.0
16-Apr-24	27.9	77	0.0
17-Apr-24	28.4	78	0.0
18-Apr-24	26.9	80	8.6
19-Apr-24	27.6	80	2.2
20-Apr-24	27.4	81	42.2
21-Apr-24	23.9	90	81.6
22-Apr-24	25.2	90	13.2
23-Apr-24	25.4	91	40.0
24-Apr-24	25.9	88	Trace
25-Apr-24	26.6	86	5.7
26-Apr-24	27.3	88	25.0
27-Apr-24	28.8	85	0.8
28-Apr-24	25.4	90	12.2
29-Apr-24	27.7	85	0.0
30-Apr-24	28.6	81	21.7

**(Reporting Month:April 2024)****Remarks:**

Source - Hong Kong Observatory

<sup>1-3</sup>Retrieved from Manned Weather Station (Hong Kong Observatory) (22°18'07" N, 114°10'27" E)

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
1 Apr 2024	12:00 AM	SE	1.1
1 Apr 2024	1:00 AM	S	1.1
1 Apr 2024	2:00 AM	SE	0.4
1 Apr 2024	3:00 AM	S	0.5
1 Apr 2024	4:00 AM	S	0.6
1 Apr 2024	5:00 AM	S	0.6
1 Apr 2024	6:00 AM	S	0.5
1 Apr 2024	7:00 AM	SSW	0.9
1 Apr 2024	8:00 AM	SSE	1.1
1 Apr 2024	9:00 AM	S	0.9
1 Apr 2024	10:00 AM	SSE	1.4
1 Apr 2024	11:00 AM	SW	1.3
1 Apr 2024	12:00 PM	SE	1.1
1 Apr 2024	1:00 PM	SE	1.2
1 Apr 2024	2:00 PM	S	1.6
1 Apr 2024	3:00 PM	SSE	1.4
1 Apr 2024	4:00 PM	SE	1.5
1 Apr 2024	5:00 PM	SE	1.4
1 Apr 2024	6:00 PM	SW	1.5
1 Apr 2024	7:00 PM	S	2.0
1 Apr 2024	8:00 PM	WSW	2.1
1 Apr 2024	9:00 PM	WSW	2.8
1 Apr 2024	10:00 PM	SW	2.3
1 Apr 2024	11:00 PM	SSW	1.2
2 Apr 2024	12:00 AM	SSW	1.2
2 Apr 2024	1:00 AM	SSW	1.2
2 Apr 2024	2:00 AM	S	0.7
2 Apr 2024	3:00 AM	S	1.0
2 Apr 2024	4:00 AM	S	0.8

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
2 Apr 2024	5:00 AM	SW	0.9
2 Apr 2024	6:00 AM	W	1.7
2 Apr 2024	7:00 AM	WSW	2.0
2 Apr 2024	8:00 AM	S	1.5
2 Apr 2024	9:00 AM	SSE	1.4
2 Apr 2024	10:00 AM	SSW	1.7
2 Apr 2024	11:00 AM	S	1.7
2 Apr 2024	12:00 PM	SW	1.9
2 Apr 2024	1:00 PM	WSW	2.6
2 Apr 2024	2:00 PM	SSW	1.6
2 Apr 2024	3:00 PM	SSE	1.4
2 Apr 2024	4:00 PM	SE	1.6
2 Apr 2024	5:00 PM	SSE	1.8
2 Apr 2024	6:00 PM	S	1.1
2 Apr 2024	7:00 PM	ESE	0.6
2 Apr 2024	8:00 PM	S	0.9
2 Apr 2024	9:00 PM	SSE	0.8
2 Apr 2024	10:00 PM	SSW	1.2
2 Apr 2024	11:00 PM	SSE	0.9
3 Apr 2024	12:00 AM	SSE	0.6
3 Apr 2024	1:00 AM	SW	1.0
3 Apr 2024	2:00 AM	SW	0.7
3 Apr 2024	3:00 AM	SSE	0.8
3 Apr 2024	4:00 AM	SW	0.4
3 Apr 2024	5:00 AM	S	0.5
3 Apr 2024	6:00 AM	SSE	0.5
3 Apr 2024	7:00 AM	SE	0.6
3 Apr 2024	8:00 AM	SSW	1.0
3 Apr 2024	9:00 AM	SW	1.0

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
3 Apr 2024	10:00 AM	WSW	1.7
3 Apr 2024	11:00 AM	S	1.9
3 Apr 2024	12:00 PM	SSW	1.2
3 Apr 2024	1:00 PM	SSE	1.5
3 Apr 2024	2:00 PM	S	1.0
3 Apr 2024	3:00 PM	SSE	1.5
3 Apr 2024	4:00 PM	S	1.3
3 Apr 2024	5:00 PM	SSE	0.9
3 Apr 2024	6:00 PM	SW	1.0
3 Apr 2024	7:00 PM	SW	1.0
3 Apr 2024	8:00 PM	S	1.0
3 Apr 2024	9:00 PM	ESE	0.4
3 Apr 2024	10:00 PM	ESE	0.5
3 Apr 2024	11:00 PM	SSW	0.7
4 Apr 2024	12:00 AM	SSW	0.7
4 Apr 2024	1:00 AM	S	0.8
4 Apr 2024	2:00 AM	SSE	0.5
4 Apr 2024	3:00 AM	SSW	0.7
4 Apr 2024	4:00 AM	SE	0.6
4 Apr 2024	5:00 AM	SSW	0.8
4 Apr 2024	6:00 AM	SE	0.8
4 Apr 2024	7:00 AM	S	0.8
4 Apr 2024	8:00 AM	SW	1.1
4 Apr 2024	9:00 AM	SSE	0.9
4 Apr 2024	10:00 AM	SSW	1.0
4 Apr 2024	11:00 AM	SSW	1.3
4 Apr 2024	12:00 PM	SSE	1.7
4 Apr 2024	1:00 PM	SSW	1.8
4 Apr 2024	2:00 PM	SSE	1.4

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
4 Apr 2024	3:00 PM	SSE	1.3
4 Apr 2024	4:00 PM	SW	1.0
4 Apr 2024	5:00 PM	WNW	1.6
4 Apr 2024	6:00 PM	WSW	1.2
4 Apr 2024	7:00 PM	S	0.7
4 Apr 2024	8:00 PM	SW	0.9
4 Apr 2024	9:00 PM	NNW	1.2
4 Apr 2024	10:00 PM	W	1.2
4 Apr 2024	11:00 PM	W	1.4
5 Apr 2024	12:00 AM	WNW	1.9
5 Apr 2024	1:00 AM	SW	2.1
5 Apr 2024	2:00 AM	WNW	3.0
5 Apr 2024	3:00 AM	W	2.8
5 Apr 2024	4:00 AM	WNW	3.3
5 Apr 2024	5:00 AM	WNW	3.1
5 Apr 2024	6:00 AM	WNW	3.1
5 Apr 2024	7:00 AM	NW	3.1
5 Apr 2024	8:00 AM	W	3.2
5 Apr 2024	9:00 AM	SW	3.2
5 Apr 2024	10:00 AM	W	3.0
5 Apr 2024	11:00 AM	WSW	2.5
5 Apr 2024	12:00 PM	W	3.4
5 Apr 2024	1:00 PM	WSW	3.2
5 Apr 2024	2:00 PM	W	2.8
5 Apr 2024	3:00 PM	W	2.3
5 Apr 2024	4:00 PM	NW	3.0
5 Apr 2024	5:00 PM	NW	3.5
5 Apr 2024	6:00 PM	WNW	2.6
5 Apr 2024	7:00 PM	W	2.2

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
5 Apr 2024	8:00 PM	WSW	1.8
5 Apr 2024	9:00 PM	W	2.0
5 Apr 2024	10:00 PM	W	3.6
5 Apr 2024	11:00 PM	WNW	2.3
6 Apr 2024	12:00 AM	W	3.5
6 Apr 2024	1:00 AM	WNW	2.8
6 Apr 2024	2:00 AM	WSW	2.5
6 Apr 2024	3:00 AM	WSW	2.4
6 Apr 2024	4:00 AM	W	3.9
6 Apr 2024	5:00 AM	S	2.0
6 Apr 2024	6:00 AM	WSW	2.7
6 Apr 2024	7:00 AM	SSW	3.3
6 Apr 2024	8:00 AM	SW	2.4
6 Apr 2024	9:00 AM	WNW	2.4
6 Apr 2024	10:00 AM	WSW	3.0
6 Apr 2024	11:00 AM	S	1.6
6 Apr 2024	12:00 PM	SSW	1.4
6 Apr 2024	1:00 PM	S	1.8
6 Apr 2024	2:00 PM	SW	1.4
6 Apr 2024	3:00 PM	S	1.0
6 Apr 2024	4:00 PM	SSW	0.9
6 Apr 2024	5:00 PM	SE	0.5
6 Apr 2024	6:00 PM	ESE	0.6
6 Apr 2024	7:00 PM	SSW	0.8
6 Apr 2024	8:00 PM	SSW	2.0
6 Apr 2024	9:00 PM	WSW	1.3
6 Apr 2024	10:00 PM	SSW	2.0
6 Apr 2024	11:00 PM	S	1.5
7 Apr 2024	12:00 AM	SE	0.7

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
7 Apr 2024	1:00 AM	S	0.5
7 Apr 2024	2:00 AM	S	0.6
7 Apr 2024	3:00 AM	S	0.4
7 Apr 2024	4:00 AM	SSE	0.7
7 Apr 2024	5:00 AM	SSW	0.4
7 Apr 2024	6:00 AM	S	0.8
7 Apr 2024	7:00 AM	S	0.8
7 Apr 2024	8:00 AM	SSE	0.4
7 Apr 2024	9:00 AM	SW	1.2
7 Apr 2024	10:00 AM	SW	1.4
7 Apr 2024	11:00 AM	SSE	1.2
7 Apr 2024	12:00 PM	S	1.3
7 Apr 2024	1:00 PM	SSW	1.3
7 Apr 2024	2:00 PM	SSE	1.3
7 Apr 2024	3:00 PM	SSE	0.5
7 Apr 2024	4:00 PM	SW	0.7
7 Apr 2024	5:00 PM	S	0.3
7 Apr 2024	6:00 PM	SSW	0.5
7 Apr 2024	7:00 PM	SSE	0.2
7 Apr 2024	8:00 PM	SSE	0.2
7 Apr 2024	9:00 PM	SE	0.2
7 Apr 2024	10:00 PM	SSE	0.2
7 Apr 2024	11:00 PM	SE	0.5
8 Apr 2024	12:00 AM	SE	0.3
8 Apr 2024	1:00 AM	SSE	0.4
8 Apr 2024	2:00 AM	SSE	0.2
8 Apr 2024	3:00 AM	S	0.2
8 Apr 2024	4:00 AM	SE	0.3
8 Apr 2024	5:00 AM	SSE	0.3

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
8 Apr 2024	6:00 AM	S	0.3
8 Apr 2024	7:00 AM	S	0.3
8 Apr 2024	8:00 AM	SSE	1.0
8 Apr 2024	9:00 AM	SE	1.1
8 Apr 2024	10:00 AM	SSE	1.3
8 Apr 2024	11:00 AM	SE	1.0
8 Apr 2024	12:00 PM	SSW	0.9
8 Apr 2024	1:00 PM	SSE	1.0
8 Apr 2024	2:00 PM	S	0.8
8 Apr 2024	3:00 PM	S	0.9
8 Apr 2024	4:00 PM	S	1.0
8 Apr 2024	5:00 PM	SE	0.8
8 Apr 2024	6:00 PM	ESE	0.7
8 Apr 2024	7:00 PM	SSE	0.9
8 Apr 2024	8:00 PM	S	0.9
8 Apr 2024	9:00 PM	SSE	1.2
8 Apr 2024	10:00 PM	SSE	1.7
8 Apr 2024	11:00 PM	SSW	2.3
9 Apr 2024	12:00 AM	SSW	1.7
9 Apr 2024	1:00 AM	S	2.0
9 Apr 2024	2:00 AM	SSE	2.0
9 Apr 2024	3:00 AM	SSW	1.9
9 Apr 2024	4:00 AM	SSE	1.3
9 Apr 2024	5:00 AM	S	1.3
9 Apr 2024	6:00 AM	SSE	1.5
9 Apr 2024	7:00 AM	S	1.3
9 Apr 2024	8:00 AM	SSW	3.0
9 Apr 2024	9:00 AM	S	2.2
9 Apr 2024	10:00 AM	S	1.8

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
9 Apr 2024	11:00 AM	SSE	0.9
9 Apr 2024	12:00 PM	S	1.3
9 Apr 2024	1:00 PM	S	1.2
9 Apr 2024	2:00 PM	SW	1.5
9 Apr 2024	3:00 PM	SW	1.8
9 Apr 2024	4:00 PM	SSW	1.4
9 Apr 2024	5:00 PM	SSW	1.2
9 Apr 2024	6:00 PM	SSW	1.3
9 Apr 2024	7:00 PM	S	1.2
9 Apr 2024	8:00 PM	SSW	1.2
9 Apr 2024	9:00 PM	SSW	1.0
9 Apr 2024	10:00 PM	WSW	1.1
9 Apr 2024	11:00 PM	S	0.0
10 Apr 2024	12:00 AM	S	0.8
10 Apr 2024	1:00 AM	S	0.7
10 Apr 2024	2:00 AM	SSW	0.6
10 Apr 2024	3:00 AM	S	1.0
10 Apr 2024	4:00 AM	SW	1.0
10 Apr 2024	5:00 AM	SW	0.9
10 Apr 2024	6:00 AM	WSW	1.1
10 Apr 2024	7:00 AM	SW	0.7
10 Apr 2024	8:00 AM	SSW	0.9
10 Apr 2024	9:00 AM	SSW	1.1
10 Apr 2024	10:00 AM	WSW	2.4
10 Apr 2024	11:00 AM	W	2.7
10 Apr 2024	12:00 PM	S	1.3
10 Apr 2024	1:00 PM	SSW	1.3
10 Apr 2024	2:00 PM	S	1.5
10 Apr 2024	3:00 PM	ESE	1.6

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
10 Apr 2024	4:00 PM	E	1.2
10 Apr 2024	5:00 PM	SW	1.1
10 Apr 2024	6:00 PM	SE	0.4
10 Apr 2024	7:00 PM	S	0.7
10 Apr 2024	8:00 PM	SW	0.7
10 Apr 2024	9:00 PM	E	0.7
10 Apr 2024	10:00 PM	WSW	1.5
10 Apr 2024	11:00 PM	W	1.5
11 Apr 2024	12:00 AM	SSW	1.2
11 Apr 2024	1:00 AM	S	1.0
11 Apr 2024	2:00 AM	SSW	1.0
11 Apr 2024	3:00 AM	SSW	0.9
11 Apr 2024	4:00 AM	S	0.5
11 Apr 2024	5:00 AM	S	0.7
11 Apr 2024	6:00 AM	SSE	0.5
11 Apr 2024	7:00 AM	S	0.5
11 Apr 2024	8:00 AM	WSW	1.0
11 Apr 2024	9:00 AM	S	0.8
11 Apr 2024	10:00 AM	E	1.1
11 Apr 2024	11:00 AM	SE	1.3
11 Apr 2024	12:00 PM	SSE	1.0
11 Apr 2024	1:00 PM	ESE	1.3
11 Apr 2024	2:00 PM	SSE	1.5
11 Apr 2024	3:00 PM	S	1.8
11 Apr 2024	4:00 PM	SSE	1.4
11 Apr 2024	5:00 PM	ESE	1.2
11 Apr 2024	6:00 PM	SSE	0.7
11 Apr 2024	7:00 PM	SE	1.0
11 Apr 2024	8:00 PM	ESE	1.0

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
11 Apr 2024	9:00 PM	E	0.3
11 Apr 2024	10:00 PM	ESE	0.7
11 Apr 2024	11:00 PM	SSE	0.3
12 Apr 2024	12:00 AM	SSW	0.4
12 Apr 2024	1:00 AM	S	0.7
12 Apr 2024	2:00 AM	SSE	0.6
12 Apr 2024	3:00 AM	SSE	0.7
12 Apr 2024	4:00 AM	S	0.3
12 Apr 2024	5:00 AM	S	0.2
12 Apr 2024	6:00 AM	SSW	0.3
12 Apr 2024	7:00 AM	SSW	0.5
12 Apr 2024	8:00 AM	SSE	0.9
12 Apr 2024	9:00 AM	S	0.8
12 Apr 2024	10:00 AM	SSE	0.8
12 Apr 2024	11:00 AM	SE	1.1
12 Apr 2024	12:00 PM	SW	1.8
12 Apr 2024	1:00 PM	SSW	1.3
12 Apr 2024	2:00 PM	SSE	1.5
12 Apr 2024	3:00 PM	SSE	1.8
12 Apr 2024	4:00 PM	SE	1.3
12 Apr 2024	5:00 PM	S	1.2
12 Apr 2024	6:00 PM	SSE	1.4
12 Apr 2024	7:00 PM	SSE	1.1
12 Apr 2024	8:00 PM	SSE	0.8
12 Apr 2024	9:00 PM	SSE	0.5
12 Apr 2024	10:00 PM	S	0.4
12 Apr 2024	11:00 PM	S	0.2
13 Apr 2024	12:00 AM	S	0.2
13 Apr 2024	1:00 AM	SSE	0.3

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
13 Apr 2024	2:00 AM	S	0.2
13 Apr 2024	3:00 AM	SSE	0.3
13 Apr 2024	4:00 AM	S	0.5
13 Apr 2024	5:00 AM	SSE	0.1
13 Apr 2024	6:00 AM	S	0.4
13 Apr 2024	7:00 AM	S	0.1
13 Apr 2024	8:00 AM	SW	1.1
13 Apr 2024	9:00 AM	SW	1.9
13 Apr 2024	10:00 AM	W	1.6
13 Apr 2024	11:00 AM	SW	1.7
13 Apr 2024	12:00 PM	SSE	1.5
13 Apr 2024	1:00 PM	S	1.5
13 Apr 2024	2:00 PM	SSW	1.6
13 Apr 2024	3:00 PM	S	1.3
13 Apr 2024	4:00 PM	SSW	1.4
13 Apr 2024	5:00 PM	NW	2.3
13 Apr 2024	6:00 PM	WNW	2.8
13 Apr 2024	7:00 PM	WSW	1.6
13 Apr 2024	8:00 PM	W	1.0
13 Apr 2024	9:00 PM	WNW	1.7
13 Apr 2024	10:00 PM	W	0.9
13 Apr 2024	11:00 PM	W	1.9
14 Apr 2024	12:00 AM	SW	2.1
14 Apr 2024	1:00 AM	WNW	1.1
14 Apr 2024	2:00 AM	W	0.7
14 Apr 2024	3:00 AM	WNW	0.5
14 Apr 2024	4:00 AM	W	1.1
14 Apr 2024	5:00 AM	WSW	0.8
14 Apr 2024	6:00 AM	WNW	0.9

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
14 Apr 2024	7:00 AM	SSW	1.4
14 Apr 2024	8:00 AM	WNW	2.4
14 Apr 2024	9:00 AM	SSW	1.3
14 Apr 2024	10:00 AM	SSW	1.2
14 Apr 2024	11:00 AM	SW	1.4
14 Apr 2024	12:00 PM	SE	1.4
14 Apr 2024	1:00 PM	WSW	2.4
14 Apr 2024	2:00 PM	SSW	2.2
14 Apr 2024	3:00 PM	SSW	1.6
14 Apr 2024	4:00 PM	SW	1.3
14 Apr 2024	5:00 PM	W	1.3
14 Apr 2024	6:00 PM	SW	1.5
14 Apr 2024	7:00 PM	WNW	1.4
14 Apr 2024	8:00 PM	SW	0.7
14 Apr 2024	9:00 PM	SW	1.0
14 Apr 2024	10:00 PM	SSW	0.8
14 Apr 2024	11:00 PM	SSW	0.6
15 Apr 2024	12:00 AM	S	0.6
15 Apr 2024	1:00 AM	SW	0.6
15 Apr 2024	2:00 AM	S	0.4
15 Apr 2024	3:00 AM	SSW	0.2
15 Apr 2024	4:00 AM	SSW	0.3
15 Apr 2024	5:00 AM	S	0.3
15 Apr 2024	6:00 AM	SSE	0.5
15 Apr 2024	7:00 AM	SSE	0.6
15 Apr 2024	8:00 AM	S	0.7
15 Apr 2024	9:00 AM	SW	1.3
15 Apr 2024	10:00 AM	WSW	1.5
15 Apr 2024	11:00 AM	S	1.4

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
15 Apr 2024	12:00 PM	SSE	1.2
15 Apr 2024	1:00 PM	S	1.5
15 Apr 2024	2:00 PM	WSW	2.3
15 Apr 2024	3:00 PM	SW	1.4
15 Apr 2024	4:00 PM	S	1.3
15 Apr 2024	5:00 PM	SSW	1.3
15 Apr 2024	6:00 PM	W	1.4
15 Apr 2024	7:00 PM	SW	1.1
15 Apr 2024	8:00 PM	NW	2.0
15 Apr 2024	9:00 PM	S	0.4
15 Apr 2024	10:00 PM	S	0.4
15 Apr 2024	11:00 PM	S	0.5
16 Apr 2024	12:00 AM	S	0.6
16 Apr 2024	1:00 AM	SSE	0.3
16 Apr 2024	2:00 AM	S	0.1
16 Apr 2024	3:00 AM	S	0.1
16 Apr 2024	4:00 AM	S	0.3
16 Apr 2024	5:00 AM	S	0.0
16 Apr 2024	6:00 AM	S	0.1
16 Apr 2024	7:00 AM	SW	0.6
16 Apr 2024	8:00 AM	SSW	1.4
16 Apr 2024	9:00 AM	W	1.8
16 Apr 2024	10:00 AM	SSE	1.8
16 Apr 2024	11:00 AM	SE	1.6
16 Apr 2024	12:00 PM	SE	1.4
16 Apr 2024	1:00 PM	SSW	1.5
16 Apr 2024	2:00 PM	S	1.6
16 Apr 2024	3:00 PM	S	1.5
16 Apr 2024	4:00 PM	SE	1.2

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
16 Apr 2024	5:00 PM	SSW	1.0
16 Apr 2024	6:00 PM	SW	1.7
16 Apr 2024	7:00 PM	S	1.3
16 Apr 2024	8:00 PM	SE	0.9
16 Apr 2024	9:00 PM	WNW	1.8
16 Apr 2024	10:00 PM	SW	1.1
16 Apr 2024	11:00 PM	SSW	0.8
17 Apr 2024	12:00 AM	SW	0.5
17 Apr 2024	1:00 AM	SSE	0.9
17 Apr 2024	2:00 AM	S	0.7
17 Apr 2024	3:00 AM	SW	0.0
17 Apr 2024	4:00 AM	ENE	0.1
17 Apr 2024	5:00 AM	E	0.1
17 Apr 2024	6:00 AM	E	0.1
17 Apr 2024	7:00 AM	NE	0.1
17 Apr 2024	8:00 AM	NE	0.1
17 Apr 2024	9:00 AM	NE	0.1
17 Apr 2024	10:00 AM	NNE	0.1
17 Apr 2024	11:00 AM	ENE	0.1
17 Apr 2024	12:00 PM	NE	0.1
17 Apr 2024	1:00 PM	ENE	0.1
17 Apr 2024	2:00 PM	NNE	0.1
17 Apr 2024	3:00 PM	NE	0.1
17 Apr 2024	4:00 PM	E	0.1
17 Apr 2024	5:00 PM	ENE	0.2
17 Apr 2024	6:00 PM	NE	0.2
17 Apr 2024	7:00 PM	ENE	0.2
17 Apr 2024	8:00 PM	SW	0.3
17 Apr 2024	9:00 PM	S	0.3

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
17 Apr 2024	10:00 PM	SE	0.1
17 Apr 2024	11:00 PM	ESE	0.1
18 Apr 2024	12:00 AM	ESE	0.1
18 Apr 2024	1:00 AM	NE	0.1
18 Apr 2024	2:00 AM	NE	0.1
18 Apr 2024	3:00 AM	NE	0.1
18 Apr 2024	4:00 AM	ENE	0.1
18 Apr 2024	5:00 AM	ENE	0.1
18 Apr 2024	6:00 AM	ENE	0.1
18 Apr 2024	7:00 AM	ENE	0.1
18 Apr 2024	8:00 AM	ENE	0.1
18 Apr 2024	9:00 AM	ENE	0.1
18 Apr 2024	10:00 AM	NE	0.1
18 Apr 2024	11:00 AM	ENE	0.1
18 Apr 2024	12:00 PM	ENE	0.1
18 Apr 2024	1:00 PM	ENE	0.1
18 Apr 2024	2:00 PM	NE	0.1
18 Apr 2024	3:00 PM	ENE	0.1
18 Apr 2024	4:00 PM	WNW	0.1
18 Apr 2024	5:00 PM	W	0.1
18 Apr 2024	6:00 PM	SE	0.1
18 Apr 2024	7:00 PM	WSW	0.7
18 Apr 2024	8:00 PM	SW	0.3
18 Apr 2024	9:00 PM	SW	0.5
18 Apr 2024	10:00 PM	W	0.1
18 Apr 2024	11:00 PM	W	0.1
19 Apr 2024	12:00 AM	SW	0.1
19 Apr 2024	1:00 AM	SSW	0.1
19 Apr 2024	2:00 AM	E	0.1

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
19 Apr 2024	3:00 AM	WSW	0.1
19 Apr 2024	4:00 AM	SW	0.1
19 Apr 2024	5:00 AM	SW	0.1
19 Apr 2024	6:00 AM	NNE	0.1
19 Apr 2024	7:00 AM	NE	0.1
19 Apr 2024	8:00 AM	NE	0.1
19 Apr 2024	9:00 AM	NE	0.1
19 Apr 2024	10:00 AM	NE	0.1
19 Apr 2024	11:00 AM	N	0.1
19 Apr 2024	12:00 PM	E	0.1
19 Apr 2024	1:00 PM	NE	0.1
19 Apr 2024	2:00 PM	SSE	0.1
19 Apr 2024	3:00 PM	S	0.1
19 Apr 2024	4:00 PM	NE	0.1
19 Apr 2024	5:00 PM	ENE	0.2
19 Apr 2024	6:00 PM	ESE	0.3
19 Apr 2024	7:00 PM	SE	0.2
19 Apr 2024	8:00 PM	E	0.3
19 Apr 2024	9:00 PM	SE	0.2
19 Apr 2024	10:00 PM	SE	0.1
19 Apr 2024	11:00 PM	ENE	0.1
20 Apr 2024	12:00 AM	ENE	0.2
20 Apr 2024	1:00 AM	NE	0.1
20 Apr 2024	2:00 AM	ENE	0.1
20 Apr 2024	3:00 AM	NE	0.1
20 Apr 2024	4:00 AM	ENE	0.1
20 Apr 2024	5:00 AM	SSE	0.1
20 Apr 2024	6:00 AM	E	0.1
20 Apr 2024	7:00 AM	ENE	0.3

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
20 Apr 2024	8:00 AM	ENE	0.1
20 Apr 2024	9:00 AM	NE	0.1
20 Apr 2024	10:00 AM	ENE	0.1
20 Apr 2024	11:00 AM	NE	0.1
20 Apr 2024	12:00 PM	ENE	0.1
20 Apr 2024	1:00 PM	ENE	0.1
20 Apr 2024	2:00 PM	ENE	0.1
20 Apr 2024	3:00 PM	ENE	0.1
20 Apr 2024	4:00 PM	NE	0.1
20 Apr 2024	5:00 PM	E	0.1
20 Apr 2024	6:00 PM	E	0.1
20 Apr 2024	7:00 PM	NNE	0.1
20 Apr 2024	8:00 PM	ENE	0.1
20 Apr 2024	9:00 PM	NE	0.1
20 Apr 2024	10:00 PM	NE	0.1
20 Apr 2024	11:00 PM	NNE	0.3
21 Apr 2024	12:00 AM	ENE	0.2
21 Apr 2024	1:00 AM	NE	0.1
21 Apr 2024	2:00 AM	ENE	0.1
21 Apr 2024	3:00 AM	ENE	0.2
21 Apr 2024	4:00 AM	ENE	0.1
21 Apr 2024	5:00 AM	E	0.1
21 Apr 2024	6:00 AM	E	0.3
21 Apr 2024	7:00 AM	ENE	0.5
21 Apr 2024	8:00 AM	ENE	0.1
21 Apr 2024	9:00 AM	NE	0.1
21 Apr 2024	10:00 AM	NE	0.1
21 Apr 2024	11:00 AM	ENE	0.1
21 Apr 2024	12:00 PM	E	0.1

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
21 Apr 2024	1:00 PM	ESE	0.1
21 Apr 2024	2:00 PM	NE	0.1
21 Apr 2024	3:00 PM	ENE	0.4
21 Apr 2024	4:00 PM	ENE	0.6
21 Apr 2024	5:00 PM	NE	0.6
21 Apr 2024	6:00 PM	NE	0.4
21 Apr 2024	7:00 PM	NNE	0.5
21 Apr 2024	8:00 PM	ENE	0.7
21 Apr 2024	9:00 PM	E	0.8
21 Apr 2024	10:00 PM	ENE	0.9
21 Apr 2024	11:00 PM	E	0.8
22 Apr 2024	12:00 AM	ENE	1.2
22 Apr 2024	1:00 AM	NE	1.1
22 Apr 2024	2:00 AM	ESE	1.2
22 Apr 2024	3:00 AM	SE	1.3
22 Apr 2024	4:00 AM	NE	1.1
22 Apr 2024	5:00 AM	ENE	0.9
22 Apr 2024	6:00 AM	NE	1.1
22 Apr 2024	7:00 AM	NE	0.8
22 Apr 2024	8:00 AM	E	1.7
22 Apr 2024	9:00 AM	ESE	1.9
22 Apr 2024	10:00 AM	ENE	1.2
22 Apr 2024	11:00 AM	ENE	1.6
22 Apr 2024	12:00 PM	S	1.5
22 Apr 2024	1:00 PM	SE	0.3
22 Apr 2024	2:00 PM	ESE	0.5
22 Apr 2024	3:00 PM	SSE	0.8
22 Apr 2024	4:00 PM	ENE	0.3
22 Apr 2024	5:00 PM	ESE	0.3

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
22 Apr 2024	6:00 PM	ENE	0.3
22 Apr 2024	7:00 PM	E	0.4
22 Apr 2024	8:00 PM	NE	1.5
22 Apr 2024	9:00 PM	E	0.6
22 Apr 2024	10:00 PM	ESE	0.8
22 Apr 2024	11:00 PM	ENE	0.9
23 Apr 2024	12:00 AM	ESE	0.4
23 Apr 2024	1:00 AM	ENE	1.2
23 Apr 2024	2:00 AM	ENE	1.3
23 Apr 2024	3:00 AM	SE	1.5
23 Apr 2024	4:00 AM	E	0.5
23 Apr 2024	5:00 AM	ESE	1.3
23 Apr 2024	6:00 AM	NE	0.2
23 Apr 2024	7:00 AM	ENE	1.1
23 Apr 2024	8:00 AM	E	0.5
23 Apr 2024	9:00 AM	NNW	0.9
23 Apr 2024	10:00 AM	ENE	0.5
23 Apr 2024	11:00 AM	N	0.4
23 Apr 2024	12:00 PM	ENE	0.3
23 Apr 2024	1:00 PM	E	0.2
23 Apr 2024	2:00 PM	E	0.1
23 Apr 2024	3:00 PM	E	0.1
23 Apr 2024	4:00 PM	ENE	0.8
23 Apr 2024	5:00 PM	ENE	0.1
23 Apr 2024	6:00 PM	E	0.1
23 Apr 2024	7:00 PM	NNE	0.2
23 Apr 2024	8:00 PM	ENE	0.2
23 Apr 2024	9:00 PM	ENE	0.2
23 Apr 2024	10:00 PM	ENE	0.1

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
23 Apr 2024	11:00 PM	ESE	0.1
24 Apr 2024	12:00 AM	NE	0.4
24 Apr 2024	1:00 AM	E	1.5
24 Apr 2024	2:00 AM	NE	0.2
24 Apr 2024	3:00 AM	SSE	1.2
24 Apr 2024	4:00 AM	S	0.2
24 Apr 2024	5:00 AM	NE	0.1
24 Apr 2024	6:00 AM	ENE	0.2
24 Apr 2024	7:00 AM	ESE	0.1
24 Apr 2024	8:00 AM	SE	0.1
24 Apr 2024	9:00 AM	E	0.1
24 Apr 2024	10:00 AM	SE	0.1
24 Apr 2024	11:00 AM	SE	0.1
24 Apr 2024	12:00 PM	ENE	0.1
24 Apr 2024	1:00 PM	ENE	0.1
24 Apr 2024	2:00 PM	NE	0.1
24 Apr 2024	3:00 PM	ENE	0.1
24 Apr 2024	4:00 PM	ESE	0.1
24 Apr 2024	5:00 PM	ENE	0.1
24 Apr 2024	6:00 PM	ENE	0.1
24 Apr 2024	7:00 PM	ESE	0.2
24 Apr 2024	8:00 PM	E	0.1
24 Apr 2024	9:00 PM	ESE	0.2
24 Apr 2024	10:00 PM	SE	0.1
24 Apr 2024	11:00 PM	ENE	0.2
25 Apr 2024	12:00 AM	ESE	0.1
25 Apr 2024	1:00 AM	NNW	0.1
25 Apr 2024	2:00 AM	ENE	0.3
25 Apr 2024	3:00 AM	E	0.1

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
25 Apr 2024	4:00 AM	ENE	0.1
25 Apr 2024	5:00 AM	E	0.2
25 Apr 2024	6:00 AM	ENE	0.1
25 Apr 2024	7:00 AM	ENE	0.1
25 Apr 2024	8:00 AM	ESE	0.1
25 Apr 2024	9:00 AM	SE	0.1
25 Apr 2024	10:00 AM	E	0.1
25 Apr 2024	11:00 AM	ESE	0.1
25 Apr 2024	12:00 PM	ENE	0.1
25 Apr 2024	1:00 PM	NE	0.1
25 Apr 2024	2:00 PM	ENE	0.2
25 Apr 2024	3:00 PM	NE	0.4
25 Apr 2024	4:00 PM	NE	2.8
25 Apr 2024	5:00 PM	NE	0.5
25 Apr 2024	6:00 PM	NNE	0.1
25 Apr 2024	7:00 PM	NNE	0.1
25 Apr 2024	8:00 PM	NNE	0.1
25 Apr 2024	9:00 PM	E	0.4
25 Apr 2024	10:00 PM	NNE	0.2
25 Apr 2024	11:00 PM	NNE	0.6
26 Apr 2024	12:00 AM	E	0.1
26 Apr 2024	1:00 AM	NNE	0.2
26 Apr 2024	2:00 AM	NNW	0.2
26 Apr 2024	3:00 AM	NE	0.1
26 Apr 2024	4:00 AM	NE	0.1
26 Apr 2024	5:00 AM	WNW	0.1
26 Apr 2024	6:00 AM	NE	0.1
26 Apr 2024	7:00 AM	ENE	0.1
26 Apr 2024	8:00 AM	ENE	0.1

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
26 Apr 2024	9:00 AM	E	0.1
26 Apr 2024	10:00 AM	NE	0.1
26 Apr 2024	11:00 AM	NNE	0.6
26 Apr 2024	12:00 PM	N	0.2
26 Apr 2024	1:00 PM	ENE	0.2
26 Apr 2024	2:00 PM	NE	0.2
26 Apr 2024	3:00 PM	N	1.6
26 Apr 2024	4:00 PM	E	0.4
26 Apr 2024	5:00 PM	ENE	0.3
26 Apr 2024	6:00 PM	NE	0.4
26 Apr 2024	7:00 PM	E	0.3
26 Apr 2024	8:00 PM	NE	0.3
26 Apr 2024	9:00 PM	NE	0.2
26 Apr 2024	10:00 PM	ENE	0.1
26 Apr 2024	11:00 PM	NE	0.2
27 Apr 2024	12:00 AM	E	0.2
27 Apr 2024	1:00 AM	ENE	0.7
27 Apr 2024	2:00 AM	NNW	0.1
27 Apr 2024	3:00 AM	NE	0.2
27 Apr 2024	4:00 AM	NE	0.2
27 Apr 2024	5:00 AM	NNE	0.4
27 Apr 2024	6:00 AM	ENE	0.2
27 Apr 2024	7:00 AM	ENE	0.2
27 Apr 2024	8:00 AM	ESE	0.2
27 Apr 2024	9:00 AM	ENE	0.1
27 Apr 2024	10:00 AM	ESE	0.2
27 Apr 2024	11:00 AM	E	0.1
27 Apr 2024	12:00 PM	ENE	0.1
27 Apr 2024	1:00 PM	ENE	0.2

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
27 Apr 2024	2:00 PM	ENE	0.1
27 Apr 2024	3:00 PM	ESE	0.1
27 Apr 2024	4:00 PM	ESE	0.1
27 Apr 2024	5:00 PM	ENE	0.1
27 Apr 2024	6:00 PM	ENE	0.1
27 Apr 2024	7:00 PM	E	0.1
27 Apr 2024	8:00 PM	ENE	0.1
27 Apr 2024	9:00 PM	E	0.1
27 Apr 2024	10:00 PM	ENE	0.1
27 Apr 2024	11:00 PM	NE	0.2
28 Apr 2024	12:00 AM	E	0.1
28 Apr 2024	1:00 AM	NNE	0.1
28 Apr 2024	2:00 AM	NNE	0.1
28 Apr 2024	3:00 AM	E	0.2
28 Apr 2024	4:00 AM	ESE	0.1
28 Apr 2024	5:00 AM	ENE	0.1
28 Apr 2024	6:00 AM	ENE	0.1
28 Apr 2024	7:00 AM	NE	0.1
28 Apr 2024	8:00 AM	WSW	0.1
28 Apr 2024	9:00 AM	SE	0.1
28 Apr 2024	10:00 AM	ENE	0.1
28 Apr 2024	11:00 AM	ENE	0.2
28 Apr 2024	12:00 PM	ENE	0.1
28 Apr 2024	1:00 PM	E	0.1
28 Apr 2024	2:00 PM	E	0.2

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
28 Apr 2024	3:00 PM	ENE	0.1
28 Apr 2024	4:00 PM	SSE	0.1
28 Apr 2024	5:00 PM	ENE	0.1
28 Apr 2024	6:00 PM	ENE	0.1
28 Apr 2024	7:00 PM	SSE	0.1
28 Apr 2024	8:00 PM	ENE	0.2
28 Apr 2024	9:00 PM	E	0.1
28 Apr 2024	10:00 PM	NE	0.1
28 Apr 2024	11:00 PM	ENE	0.1
29 Apr 2024	12:00 AM	NE	0.1
29 Apr 2024	1:00 AM	ENE	0.1
29 Apr 2024	2:00 AM	NNE	0.1
29 Apr 2024	3:00 AM	ENE	0.1
29 Apr 2024	4:00 AM	NE	0.1
29 Apr 2024	5:00 AM	NE	0.1
29 Apr 2024	6:00 AM	ENE	0.1
29 Apr 2024	7:00 AM	ENE	0.1
29 Apr 2024	8:00 AM	E	0.1
29 Apr 2024	9:00 AM	N	0.1
29 Apr 2024	10:00 AM	E	0.3
29 Apr 2024	11:00 AM	ENE	0.1
29 Apr 2024	12:00 PM	ENE	0.1
29 Apr 2024	1:00 PM	ENE	0.1
29 Apr 2024	2:00 PM	ESE	0.1
29 Apr 2024	3:00 PM	E	0.1
29 Apr 2024	4:00 PM	ESE	0.1
29 Apr 2024	5:00 PM	NE	0.2
29 Apr 2024	6:00 PM	ENE	0.1

Appendix D - Weather Conditions

April 2024			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
29 Apr 2024	7:00 PM	ENE	0.2
29 Apr 2024	8:00 PM	ENE	0.2
29 Apr 2024	9:00 PM	ENE	0.2
29 Apr 2024	10:00 PM	ENE	0.2
29 Apr 2024	11:00 PM	NE	0.2
30 Apr 2024	12:00 AM	NE	0.2
30 Apr 2024	1:00 AM	ENE	0.2
30 Apr 2024	2:00 AM	NE	0.2
30 Apr 2024	3:00 AM	E	0.3
30 Apr 2024	4:00 AM	ENE	0.2
30 Apr 2024	5:00 AM	E	0.2
30 Apr 2024	6:00 AM	NNE	0.2
30 Apr 2024	7:00 AM	E	0.2
30 Apr 2024	8:00 AM	WSW	0.3
30 Apr 2024	9:00 AM	NNE	0.6
30 Apr 2024	10:00 AM	NNE	0.2
30 Apr 2024	11:00 AM	ESE	0.3
30 Apr 2024	12:00 PM	ESE	0.2
30 Apr 2024	1:00 PM	E	0.4
30 Apr 2024	2:00 PM	E	0.2
30 Apr 2024	3:00 PM	NE	0.4
30 Apr 2024	4:00 PM	NE	0.1
30 Apr 2024	5:00 PM	ENE	0.1
30 Apr 2024	6:00 PM	NE	0.1
30 Apr 2024	7:00 PM	NE	0.1
30 Apr 2024	8:00 PM	ENE	0.1
30 Apr 2024	9:00 PM	E	0.1
30 Apr 2024	10:00 PM	NE	0.2
30 Apr 2024	11:00 PM	E	0.2

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**APPENDIX F  
24-HOUR TSP MONITORING RESULTS  
AND GRAPHICAL PRESENTATIONS**

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## Appendix F - 24-hour TSP Impact Monitoring Results

### Location CKL1 - Flat 121 Cha Kwo Ling Village

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m <sup>3</sup> /min.)		Av. Flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
2-Apr-24	Fine	300.2	758.3	3.3542	3.5599	0.2057	7512.8	7536.8	24.0	1.20	1.20	1.20	1732.5	118.7	191.0	260.0
8-Apr-24	Fine	297.0	761.5	3.3085	3.4884	0.1799	7536.8	7560.8	24.0	1.21	1.21	1.21	1742.7	103.2		
13-Apr-24	Sunny	300.3	759.8	3.3378	3.5042	0.1664	7560.8	7584.8	24.0	1.20	1.20	1.20	1733.5	96.0		
18-Apr-24	Rainy	300.3	757.4	3.3611	3.4695	0.1084	7584.8	7608.8	24.0	1.20	1.20	1.20	1731.5	62.6		
24-Apr-24	Rainy	299.3	757.0	3.3973	3.4915	0.0942	7608.8	7632.8	24.0	1.20	1.20	1.20	1733.4	54.3		
29-Apr-24	Cloudy	301.2	756.1	3.3733	3.4093	0.0359	7632.8	7656.8	24.0	1.20	1.20	1.20	1728.2	20.8		
													Min	20.8		
													Max	118.7		
													Average	75.9		

Note: ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

### Location CKL2 - Flat 103 Cha Kwo Ling Village

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m <sup>3</sup> /min.)		Av. Flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
2-Apr-24	Fine	300.2	758.3	3.3019	3.5669	0.2650	19966.6	19990.6	24.0	1.21	1.21	1.21	1735.9	152.7	183.0	260.0
8-Apr-24	Sunny	297.0	761.5	3.2742	3.5295	0.2553	19990.6	20014.6	24.0	1.21	1.22	1.21	1746.1	146.2		
13-Apr-24	Fine	300.3	759.8	3.3501	3.5349	0.1848	20014.6	20038.6	24.0	1.21	1.21	1.21	1736.9	106.4		
18-Apr-24	Rainy	300.3	757.4	3.3429	3.4713	0.1284	20038.6	20062.6	24.0	1.21	1.20	1.20	1734.9	74.0		
24-Apr-24	Fine	299.3	757.0	3.3372	3.5511	0.2139	20062.6	20086.6	24.0	1.21	1.21	1.21	1736.8	123.2		
29-Apr-24	Cloudy	301.2	756.1	3.3450	3.4929	0.1479	20086.6	20110.6	24.0	1.20	1.20	1.20	1731.7	85.4		
													Min	74.0		
													Max	152.7		
													Average	114.6		

Note: ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

### Location KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m <sup>3</sup> /min.)		Av. Flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
2-Apr-24	Fine	300.2	758.3	3.2729	3.3373	0.0644	18860.0	18884.0	24.0	1.19	1.19	1.19	1717.9	37.5	177.0	260.0
8-Apr-24	Fine	297.0	761.5	3.3018	3.3936	0.0918	18884.0	18908.1	24.0	1.20	1.20	1.20	1728.6	53.1		
13-Apr-24	Cloudy	300.3	759.8	3.3197	3.3643	0.0447	18908.1	18932.1	24.0	1.19	1.19	1.19	1719.0	26.0		
18-Apr-24	Rainy	300.3	757.4	3.3781	3.4266	0.0486	18932.1	18956.1	24.0	1.19	1.19	1.19	1716.9	28.3		
24-Apr-24	Cloudy	299.3	757.0	3.2905	3.3471	0.0565	18956.1	18980.1	24.0	1.19	1.19	1.19	1718.9	32.9		
29-Apr-24	Fine	301.2	756.1	3.3505	3.3700	0.0195	18980.1	19004.1	24.0	1.19	1.19	1.19	1713.5	11.4		
													Min	26.0		
													Max	53.1		
													Average	46.7		

Note: ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

### Location KER1 - Future Residential Development at Kerry Godown

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m <sup>3</sup> /min.)		Av. Flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
2-Apr-24	Fine	300.2	758.3	3.3298	3.4135	0.0837	16633.6	16657.6	24.0	1.19	1.19	1.19	1715.7	48.8	172.0	260.0
8-Apr-24	Sunny	297.0	761.5	3.3743	3.4276	0.0533	16657.6	16681.6	24.0	1.20	1.20	1.20	1727.3	30.9		
13-Apr-24	Cloudy	300.3	759.8	3.2708	3.3128	0.0419	16681.6	16705.6	24.0	1.19	1.19	1.19	1716.8	24.4		
18-Apr-24	Fine	300.3	757.4	3.3072	3.3509	0.0436	16729.3	16753.3	24.0	1.19	1.19	1.19	1714.5	25.4		
24-Apr-24	Cloudy	299.3	757.0	3.3239	3.3840	0.0600	16753.3	16777.3	24.0	1.19	1.19	1.19	1716.7	35.0		
29-Apr-24	Cloudy	301.2	756.1	3.3058	3.4261	0.1203	16777.3	16801.3	24.0	1.19	1.19	1.19	1710.8	70.3		
													Min	24.4		
													Max	70.3		
													Average	39.1		

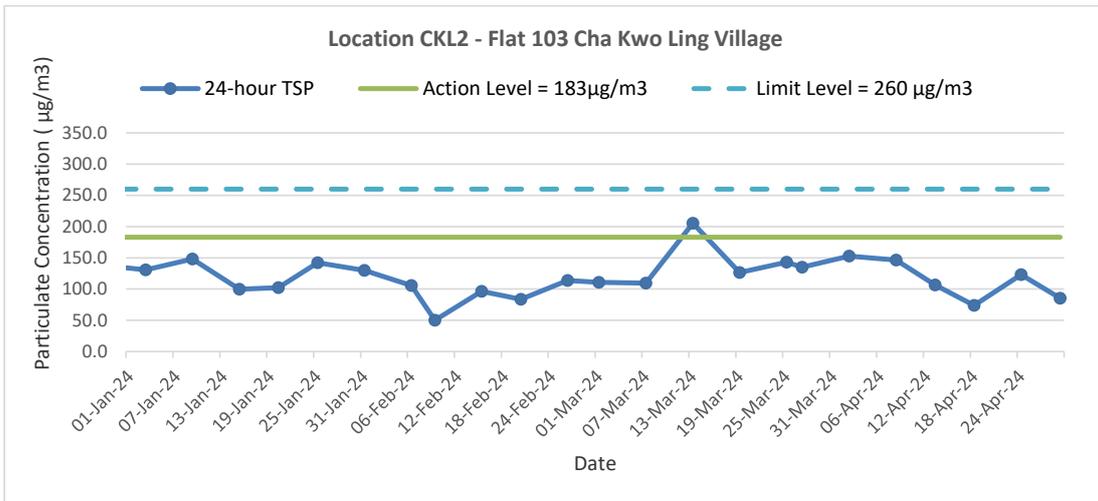
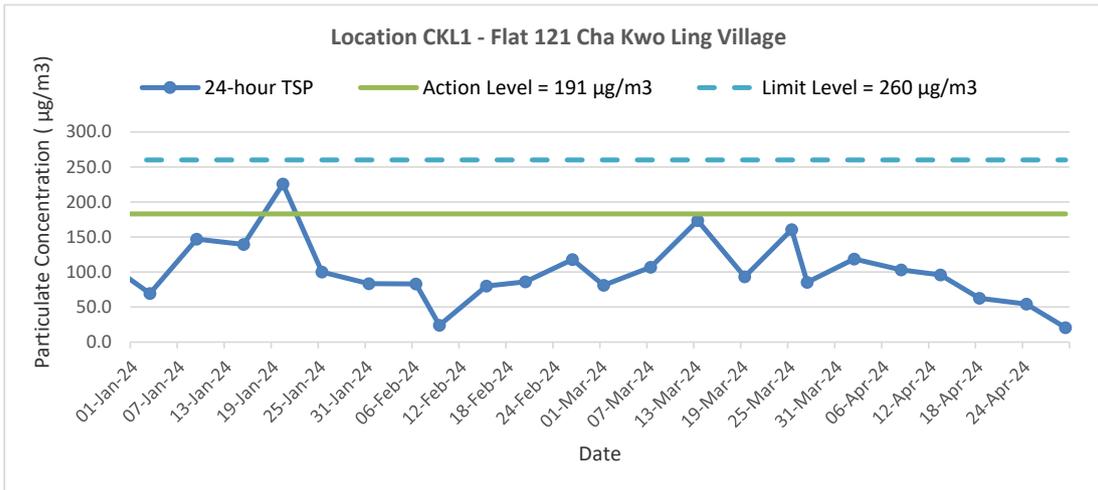
Note: ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

### Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m <sup>3</sup> /min.)		Av. Flow (m <sup>3</sup> /min)	Total vol. (m <sup>3</sup> )	Conc. (µg/m <sup>3</sup> )	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
2-Apr-24	Fine	300.2	758.3	3.3578	3.4867	0.1289	17391.9	17415.9	24.0	1.19	1.19	1.19	1719.2	75.0	157.0	260.0
8-Apr-24	Sunny	297.0	761.5	3.3277	3.5260	0.1983	17415.9	17439.9	24.0	1.20	1.20	1.20	1729.5	114.7		
13-Apr-24	Cloudy	300.3	759.8	3.3206	3.4205	0.0999	17439.9	17463.9	24.0	1.20	1.19	1.19	1720.2	58.1		
18-Apr-24	Rainy	300.3	757.4	3.3614	3.4443	0.0829	17463.9	17487.9	24.0	1.19	1.19	1.19	1718.2	48.2		
24-Apr-24	Fine	299.3	757.0	3.3166	3.3852	0.0687	17487.9	17511.9	24.0	1.20	1.19	1.19	1720.1	39.9		
29-Apr-24	Fine	301.2	756.1	3.3105	3.3613	0.0508	17511.9	17535.9	24.0	1.19	1.19	1.19	1714.9	29.6		
													Min	29.6		
													Max	114.7		
													Average	60.9		

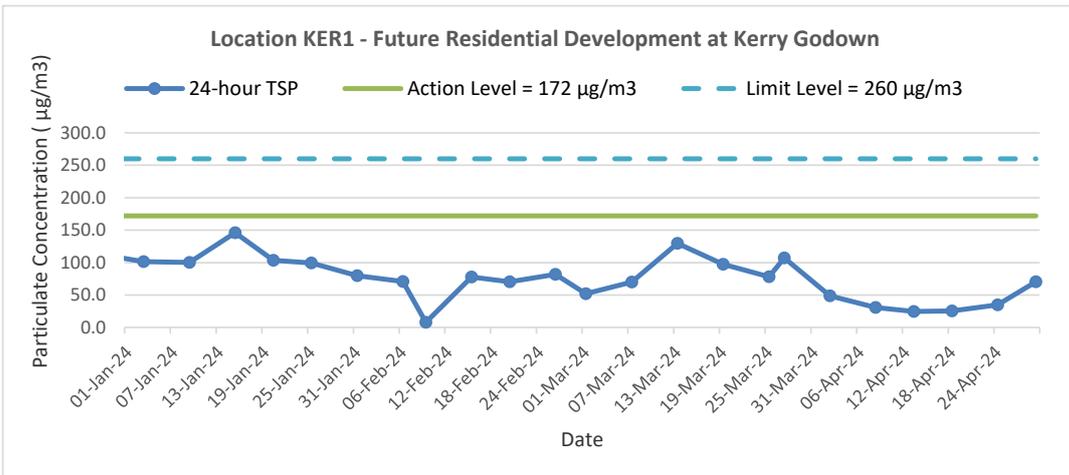
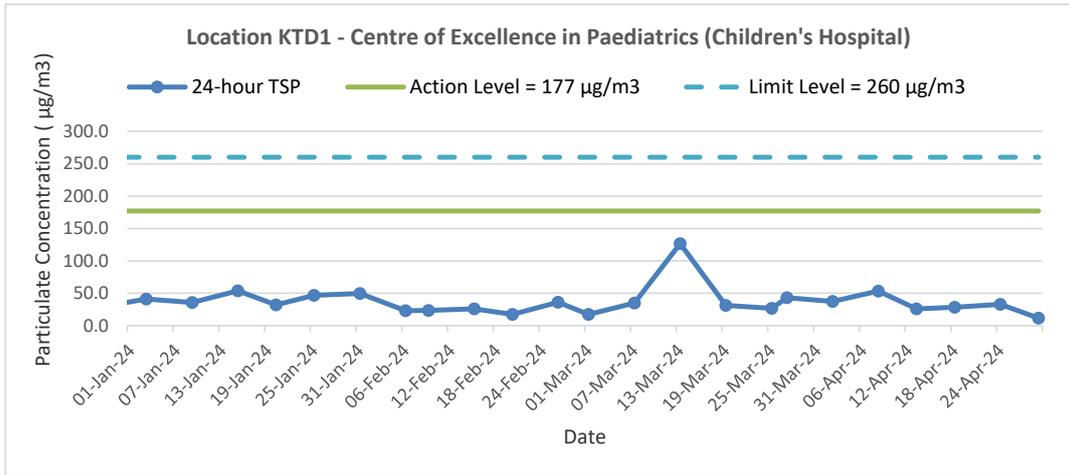
Note: ***Bold Italic*** means Action Level exceedance  
***Bold Italic with underline*** means Limit Level exceedance

## 24-hr TSP Concentration Levels



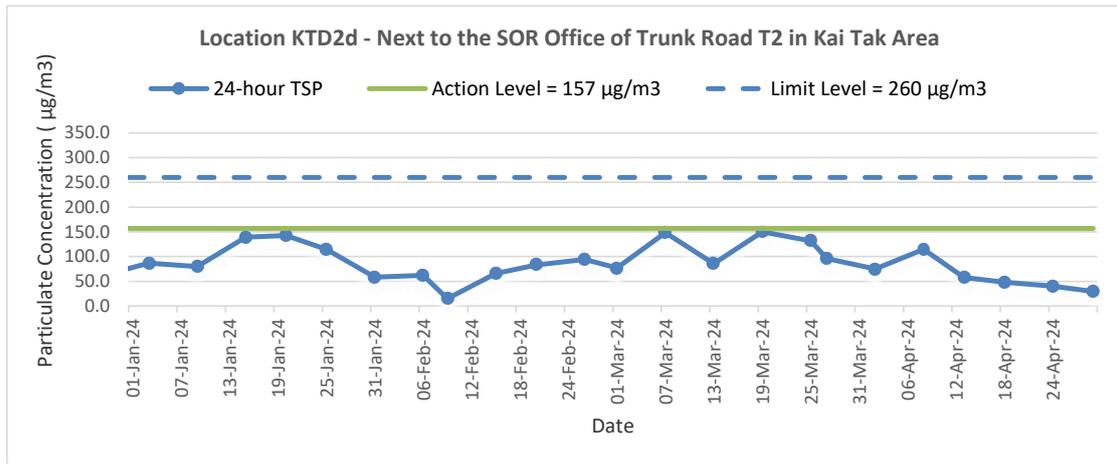
Title Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Date Apr-24	Project No. MA20003	
Graphical Presentation of 24-hour TSP Monitoring Results	Appendix F	F	

### 24-hr TSP Concentration Levels



Title	Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Date	Apr-24	Project No.	MA20003	CINOTECH
	Graphical Presentation of 24-hour TSP Monitoring Results			Appendix	F	

### 24-hr TSP Concentration Levels



Title Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron  Graphical Presentation of 24-hour TSP Monitoring Results	Date Apr-24	Project No. MA20003	CINOTECH
		Appendix F	

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**APPENDIX G  
COPIES OF CALIBRATION  
CERTIFICATES FOR NOISE  
MONITORING**

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**High Precision Chemical Testing Ltd.**

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00373  
Application No. : HP00247

Issue Date : 09 May 2023

**Certificate of Calibration**

Applicant : Cinotech Consultants Limited  
RM 1710, Technology Park,  
18 On Lai Street,  
Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Sound Level Calibrator.

Equipment No.: : N-09-02

Manufacturer: : SVANTEK

Other information :

Model No.	SV 30A
Serial No.	10965

Date Received : 05 May 2023

Test Period : 08 May 2023 to 08 May 2023

Test Requested : Performance checking for Sound Level Calibrator

Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius  
Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : **1. Information of the sample description provided by the Applicant.**  
**2. The result(s) relate only to the items tested or calibrated.**

*For and on behalf of*  
**HIGH PRECISION CHEMICAL TESTING LIMITED**

Lee Wai Kit  
Laboratory Manager

## High Precision Chemical Testing Ltd.

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00373  
Application No. : HP00247

Issue Date : 09 May 2023

### Certificate of Calibration

Measuring equipment :	Description	Sound Calibrator
	Manufacturer	Brüel & Kjær
	Model No.	TYPE 4231
	Serial No.	2326353
	Equipment No.	N-02-01
	Description	Sound Meter
	Manufacturer	BSWA Technology
	Model No.	BSWA 308
	Serial No.	570183
	Microphone No.	590073
	Equipment No.	N-12-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 0.3
114.0	114.3	+ 0.3	± 0.5

**Note** : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.  
2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

## High Precision Chemical Testing Ltd.

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00372  
Application No. : HP00246

Issue Date : 02 May 2023

### Certificate of Calibration

Applicant : Cinotech Consultants Limited  
RM 1710, Technology Park,  
18 On Lai Street,  
Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-03

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	570188
Microphone No.	570608

Date Received : 02 May 2023

Test Period : 02 May 2023 to 02 May 2023

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius  
Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : **1. Information of the sample description provided by the Applicant.**  
**2. The result(s) relate only to the items tested or calibrated.**

*For and on behalf of*  
**HIGH PRECISION CHEMICAL TESTING LIMITED**

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit  
Laboratory Manager

**High Precision Chemical Testing Ltd.**

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00372  
Application No. : HP00246

Issue Date : 02 May 2023

**Certificate of Calibration**

Measuring equipment :

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.2	+ 0.2	± 1.5

- Note** : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.  
2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

## High Precision Chemical Testing Ltd.

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00431  
Application No. : HP00305

Issue Date : 08 Sep 2023

### Certificate of Calibration

Applicant : Cinotech Consultants Limited  
RM 1710, Technology Park,  
18 On Lai Street,  
Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-06

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	580156
Microphone No.	580804

Date Received : 06 Sep 2023

Test Period : 07 Sep 2023 to 07 Sep 2023

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius  
Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.  
2. The result(s) relate only to the items tested or calibrated.

*For and on behalf of*  
**HIGH PRECISION CHEMICAL TESTING LIMITED**

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit  
Laboratory Manager

## High Precision Chemical Testing Ltd.

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00431

Issue Date : 08 Sep 2023

Application No. : HP00305

### Certificate of Calibration

Measuring equipment :	Description	Sound Calibrator
	Manufacturer	Brüel & Kjær
	Model No.	TYPE 4231
	Serial No.	2326353
	Equipment No.	N-02-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.1	+ 0.1	± 1.5

- Note** : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.  
2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

## High Precision Chemical Testing Ltd.

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00389  
Application No. : HP00262

Issue Date : 20 Jul 2023

### Certificate of Calibration

Applicant : Cinotech Consultants Limited  
RM 1710, Technology Park,  
18 On Lai Street,  
Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Sound Level Calibrator.

Equipment No.: : N-16-01

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information :

Model No.	AWA6021A
Serial No.	1023253

Date Received : 18 Jul 2023

Test Period : 19 Jul 2023 to 19 Jul 2023

Test Requested : Performance checking for Sound Level Calibrator

Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius  
Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : **1. Information of the sample description provided by the Applicant.**  
**2. The result(s) relate only to the items tested or calibrated.**

*For and on behalf of*  
**HIGH PRECISION CHEMICAL TESTING LIMITED**

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit  
Laboratory Manager

## High Precision Chemical Testing Ltd.

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00389  
Application No. : HP00262

Issue Date : 20 Jul 2023

### Certificate of Calibration

Measuring equipment :

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570183
Microphone No.	570605
Equipment No.	N-12-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 0.3
114.0	114.2	+ 0.2	± 0.5

**Note** : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.  
2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

## High Precision Chemical Testing Ltd.

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00370  
Application No. : HP00242

Issue Date : 02 May 2023

### Certificate of Calibration

Applicant : Cinotech Consultants Limited  
RM 1710, Technology Park,  
18 On Lai Street,  
Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : SN-01-01

Manufacturer: : SVANTEK

Other information :

Model No.	SVAN 979
Serial No.	27189
Microphone No.	25202

Date Received : 02 May 2023

Test Period : 02 May 2023 to 02 May 2023

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius  
Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.  
2. The result(s) relate only to the items tested or calibrated.

*For and on behalf of*  
**HIGH PRECISION CHEMICAL TESTING LIMITED**

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit  
Laboratory Manager

**High Precision Chemical Testing Ltd.**

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00370  
Application No. : HP00242

Issue Date : 02 May 2023

**Certificate of Calibration**

Measuring equipment :

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	- 0.1	± 1.5
114.0	114.0	± 0.0	± 1.5

- Note** : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.  
2. The indication value was obtained from the average of ten replicated measurement.

- End of report -



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

# Certificate of Calibration

## 校正證書

Certificate No. : C241168

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC24-0305) Date of Receipt / 收件日期 : 21 February 2024

Description / 儀器名稱 : Acoustical Calibrator  
Manufacturer / 製造商 : Brüel & Kjær  
Model No. / 型號 : 4231  
Serial No. / 編號 : 2326353  
Supplied By / 委託者 : Cinotech Consultants Limited  
Room 1710, Technology Park, 18 On Lai Street,  
Shatin, N.T. Hong Kong

### TEST CONDITIONS / 測試條件

Temperature / 溫度 :  $(23 \pm 2)^{\circ}\text{C}$  Relative Humidity / 相對濕度 :  $(50 \pm 25)\%$   
Line Voltage / 電壓 : ---

### TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 3 March 2024

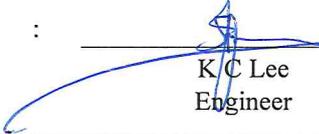
### TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.  
The results do not exceed specified limits.  
These limits refer to manufacturer's published tolerances as requested by the customer.  
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
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By :   
測試 : H T Wong  
Assistant Engineer

Certified By :   
核證 : K C Lee  
Engineer

Date of Issue : 4 March 2024  
簽發日期

The test equipment used for calibration is traceable to the National 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。

Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606

Fax/傳真: (852) 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

# Certificate of Calibration

## 校正證書

Certificate No. : C241168

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	C233799
CL281	Multifunction Acoustic Calibrator	CDK2302738
TST150A	Measuring Amplifier	C221750

- Test procedure : MA100N.

- Results :

### 5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Limit (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.90	± 0.2	± 0.20
114 dB, 1 kHz	114.00		

### 5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Limit	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 :

Only the original copy or the laboratory's certified true copy is valid.

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 is traceable to the National 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。

## High Precision Chemical Testing Ltd.

Rm 1904, Technology Park  
18 On Lai Street, Shatin  
NT, Hong Kong  
Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00390  
Application No. : HP00263

Issue Date : 24 Jul 2023

### Certificate of Calibration

Applicant : Cinotech Consultants Limited  
RM 1710, Technology Park,  
18 On Lai Street,  
Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-08-12

Manufacturer: : SVANTEK

Other information :

Model No.	SVAN 957
Serial No.	23851
Microphone No.	22391

Date Received : 18 Jul 2023

Test Period : 20 Jul 2023 to 20 Jul 2023

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius  
Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.  
2. The result(s) relate only to the items tested or calibrated.

*For and on behalf of*  
**HIGH PRECISION CHEMICAL TESTING LIMITED**

A handwritten signature in black ink, appearing to read 'Lee Wai Kit', is written over a horizontal line.

Lee Wai Kit  
Laboratory Manager

**High Precision Chemical Testing Ltd.**

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Tel: +852 3841 4388 Website: <https://www.hpct.com.hk>



Report No. : 00390  
Application No. : HP00263

Issue Date : 24 Jul 2023

**Certificate of Calibration**

Measuring equipment :

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	- 0.1	± 1.5
114.0	114.1	+ 0.1	± 1.5

- Note** : 1. “Instrument Readings” presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.  
2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

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**APPENDIX H  
NOISE MONITORING RESULTS AND  
GRAPHICAL PRESENTATIONS**

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## Appendix H - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CKL1 - Flat 121 Cha Kwo Ling Village							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
3-Apr-24	9:35	Fine	75.8	78.2	64.4	72.4	73
9-Apr-24	12:21	Sunny	73.4	77.7	60.3	72.4	67
15-Apr-24	13:53	Fine	74.5	78.4	60.6	72.4	70
25-Apr-24	15:51	Sunny	74.0	77.7	64.4	72.4	69
30-Apr-24	10:16	Sunny	73.2	77.0	63.9	72.4	66

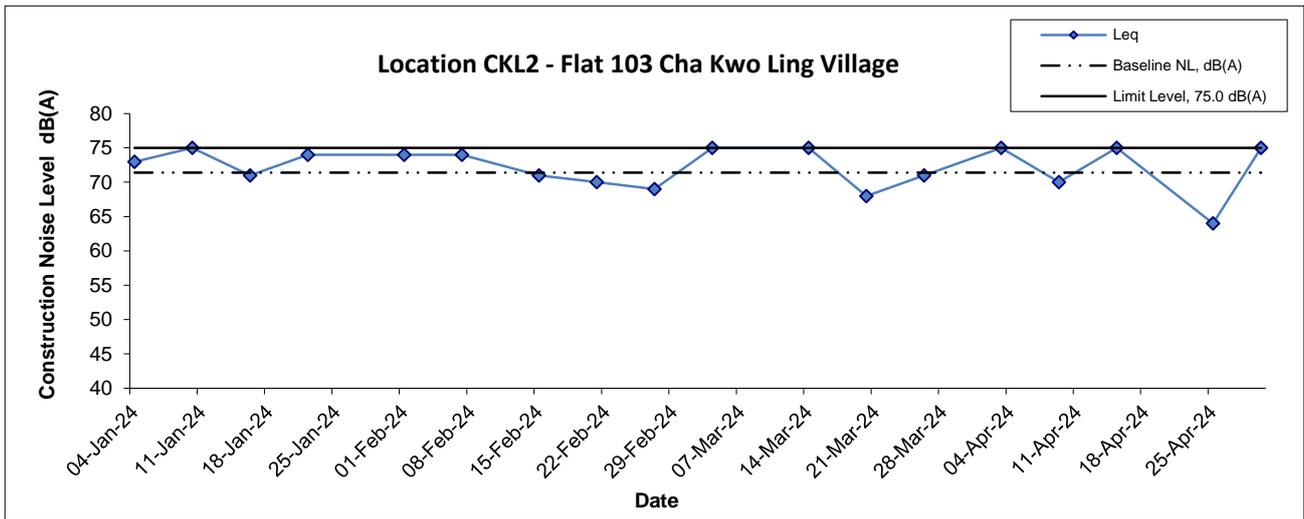
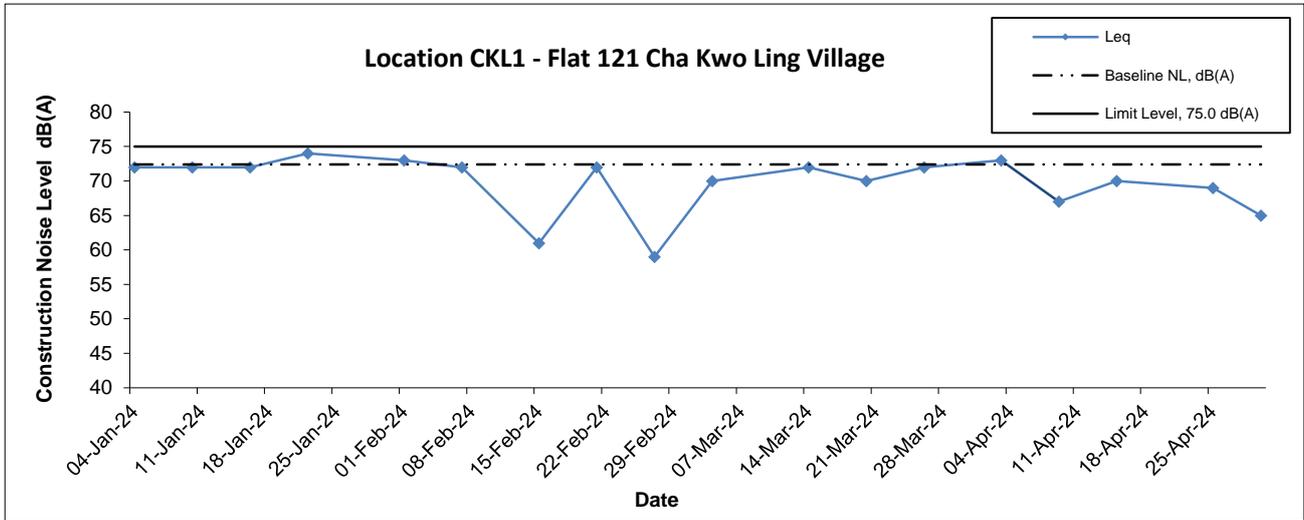
Location CKL2 - Flat 103 Cha Kwo Ling Village							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
3-Apr-24	9:00	Sunny	76.2	80.0	65.6	71.4	75
9-Apr-24	12:52	Sunny	73.8	78.8	66.3	71.4	70
15-Apr-24	14:22	Sunny	76.6	80.5	62.6	71.4	75
25-Apr-24	16:25	Sunny	72.1	75.2	59.9	71.4	64
30-Apr-24	10:48	Sunny	76.2	80.1	65.2	71.4	75

Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
3-Apr-24	12:55	Fine	68.5	70.1	64.8	78.0	68.5 Measured ≤ Baseline
9-Apr-24	14:27	Sunny	70.5	71.8	69.1	78.0	70.5 Measured ≤ Baseline
15-Apr-24	18:27	Fine	64.4	65.0	63.9	78.0	64.4 Measured ≤ Baseline
25-Apr-24	13:54	Sunny	72.1	72.3	71.8	78.0	72.1 Measured ≤ Baseline
30-Apr-24	11:35	Fine	68.7	69.8	67.3	78.0	68.7 Measured ≤ Baseline

Location KER1 - Future Residential Development at Kerry Godown							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
3-Apr-24	11:30	Fine	67.3	69.6	62.0	65.0	63
9-Apr-24	15:16	Sunny	69.3	71.5	65.4	65.0	67
15-Apr-24	17:55	Fine	69.0	70.2	66.4	65.0	67
25-Apr-24	13:06	Cloudy	73.9	75.0	65.9	65.0	73
30-Apr-24	10:55	Fine	69.4	73.4	63.7	65.0	67

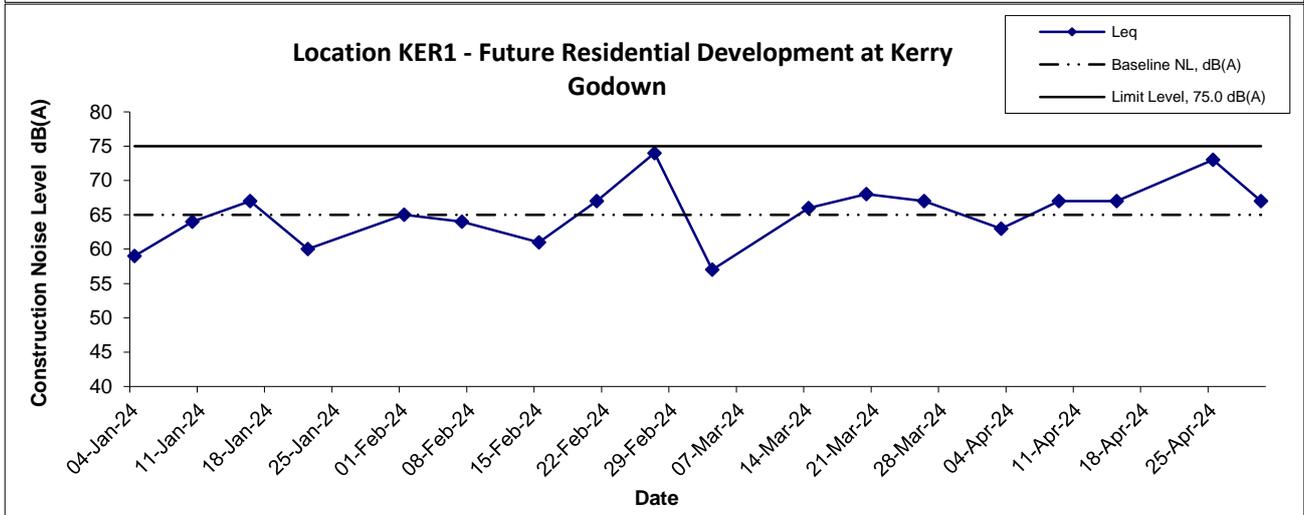
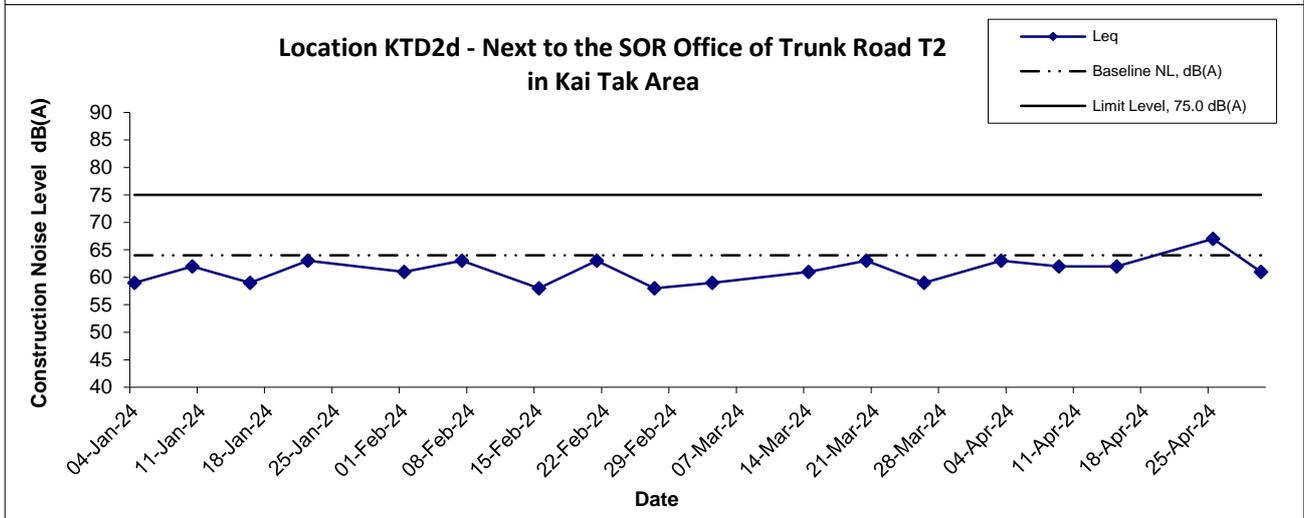
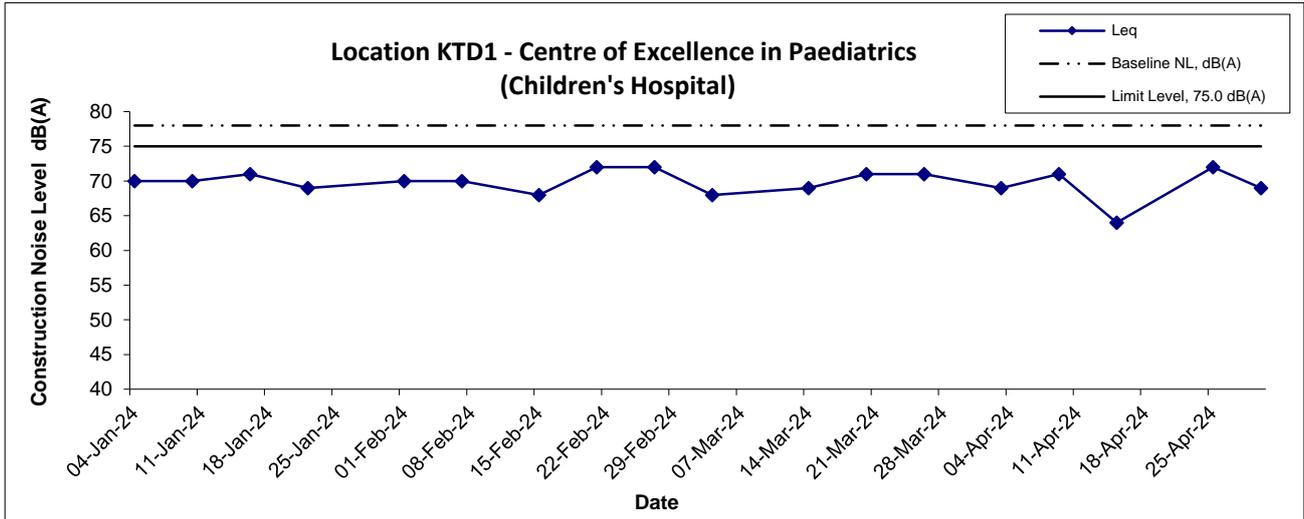
Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
3-Apr-24	13:50	Fine	62.9	64.5	56.7	64.0	63 Measured ≤ Baseline
9-Apr-24	16:01	Sunny	62.3	65.0	57.6	64.0	62 Measured ≤ Baseline
15-Apr-24	16:47	Fine	62.2	64.4	59.4	64.0	62 Measured ≤ Baseline
25-Apr-24	11:34	Cloudy	68.9	71.3	60.6	64.0	67
30-Apr-24	9:50	Fine	60.8	62.5	58.6	64.0	61 Measured ≤ Baseline

## Noise Levels



Title Kai Tak Development – Trunk Road T2 and Infrastructure Works at the Former South Apron  Graphical Presentation of Construction Noise Monitoring Results	Date	Project No.	CINOTECH
	Apr 24	MA20003	
		Appendix H	

## Noise Levels



Title Kai Tak Development – Trunk Road T2 and Infrastructure Works at the Former South Apron  Graphical Presentation of Construction Noise Monitoring Results	Date	Project	CINOTECH
	Apr 24	No. MA20003	
		Appendix	H

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**APPENDIX I**  
**SITE AUDIT SUMMARY**

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**Weekly Site Inspection Record Summary**  
**Inspection Information**

Checklist Reference Number	240403
Date	03 April 2024 (Wednesday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>H. Marine Ecology</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"> <li>Follow up on the previous session (Ref No.:240328), all the items have been rectified.</li> </ul>	

	Name	Signature	Date
Recorded by	Eric Hung		03 April 2024
Checked by	Karina Chan		04 April 2024

**Weekly Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	240411
Date	11 April 2024 (Wednesday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
240411-R3 240411-R4	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"> <li>NRMM label should be replaced (Launching Shaft).</li> <li>3-sides barriers should be provided when conducting cement mixing.</li> </ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	C21 C3
240411-R1 240411-R2	<p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"> <li>Drip tray should be provided for chemical containers to prevent chemical leakage.</li> <li>Accumulation of rubbish were observed at the site entrance. (Launching Shaft)</li> </ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>H. Marine Ecology</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified in previous session (Ref No.:240403).</li> </ul>	E9 E1i

	Name	Signature	Date
Recorded by	Alex Ng		11 April 2024
Checked by	Karina Chan		12 April 2024

**Weekly Site Inspection Record Summary**  
**Inspection Information**

Checklist Reference Number	240418
Date	18 April 2024 (Thursday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
240418-R1	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"> <li>More than 20 bags of cement should be covered on B1/F of WVB.</li> </ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>H. Marine Ecology</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"> <li>Follow up on the previous session (Ref No.:240411), all the items have been rectified.</li> </ul>	C20

	Name	Signature	Date
Recorded by	Eric Hung		18 April 2024
Checked by	Karina Chan		19 April 2024

**Weekly Site Inspection Record Summary**  
**Inspection Information**

Checklist Reference Number	240425
Date	25 April 2024 (Thursday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>H. Marine Ecology</b></p> <ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"> <li>Follow up on the previous session (Ref No.:240418), all the items have been rectified.</li> </ul>	

	Name	Signature	Date
Recorded by	Alex Ng		25 April 2024
Checked by	Karina Chan		26 April 2024

Contract No. ED/2020/03

**Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works**

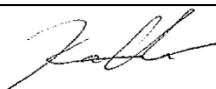
**Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	240403
Date	3 April 2024 (Wednesday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"><li>Follow up on the previous session (Ref No.:230328), no major environmental deficiency was identified during site inspection.</li></ul>	

	Name	Signature	Date
Recorded by	Eric Hung		3 April 2024
Checked by	Karina Chan		4 April 2024

Contract No. ED/2020/03

**Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works**

**Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	240411
Date	11 April 2024 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"><li>Follow up on the previous session (Ref No.:230403), no major environmental deficiency was identified during site inspection.</li></ul>	

	Name	Signature	Date
Recorded by	Alex Ng		11 April 2024
Checked by	Karina Chan		12 April 2024

**Contract No. ED/2020/03**

**Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works**

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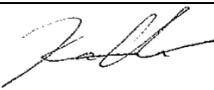
**Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	240412
Date	12 April 2024 (Friday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"><li>Follow up on the previous session (Ref No.:230411), no major environmental deficiency was identified during site inspection.</li></ul>	

	Name	Signature	Date
Recorded by	Alex Ng		12 April 2024
Checked by	Karina Chan		15 April 2024

Contract No. ED/2020/03

**Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works**

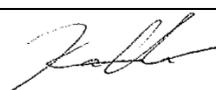
**Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	240418
Date	18 April 2024 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"><li>Follow up on the previous session (Ref No.:230412), no major environmental deficiency was identified during site inspection.</li></ul>	

	Name	Signature	Date
Recorded by	Eric Hung		18 April 2024
Checked by	Karina Chan		19 April 2024

Contract No. ED/2020/03

**Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works**

**Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	240425
Date	25 April 2024 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<p><b>B. Water Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>C. Air Quality</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>D. Construction Noise Impact</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>E. Waste/Chemical Management</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>F. Visual and Landscape</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>G. Permits/Licences</b></p> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul> <p><b>I. Others</b></p> <ul style="list-style-type: none"><li>Follow up on the previous session (Ref No.:230418), no major environmental deficiency was identified during site inspection.</li></ul>	

	Name	Signature	Date
Recorded by	Alex Ng		25 April 2024
Checked by	Karina Chan		26 April 2024

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**APPENDIX J**  
**EVENT AND ACTION PLANS**

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# Appendix J - Event Action Plans

**Table J-1 Event/Action Plan for Air Construction Dust Monitoring**

Event	Action			
	ET	IEC	ER	Contractor
<b>Action Level</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of complaint and propose remedial measures;</li> <li>2. Inform IEC and ER;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice;</li> <li>2. Amend working methods agreed with the ER as appropriate.</li> </ol>
2. Exceedance by two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform IEC and ER;</li> <li>3. Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>4. Repeat measurements to confirm findings;</li> <li>5. Increase monitoring frequency to daily;</li> <li>6. Discuss with IEC, ER and Contractor on remedial actions required;</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET, ER and Contractor on possible remedial measures if required;</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures;</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor;</li> <li>2. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>2. Implement the agreed proposals;</li> <li>3. Amend proposal if appropriate.</li> </ol>

## Appendix J - Event Action Plans

Event	Action			
	ET	IEC	ER	Contractor
	7. If exceedance continues, arrange meeting with IEC, Contractor and ER; 8. If exceedance stops, cease additional monitoring.			
<b>Limit level</b>				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform the IEC, ER, and Contractor; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ER and ET on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the ER and copy to the ET and IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive	1. Notify IEC, ER and Contractor; 2. Identify source;	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;	1. Confirm receipt of notification of exceedance in writing;	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial

## Appendix J - Event Action Plans

Event	Action			
	ET	IEC	ER	Contractor
samples	<ol style="list-style-type: none"> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Carry out analysis of Contractor's working procedures with the ER to determine possible mitigation to be implemented;</li> <li>6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER and ET accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC and ET, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Ensure remedial measures properly implemented;</li> <li>5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>actions to ER and copy to the IEC and ET within three working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

## Appendix J - Event Action Plans

**Table J-2 Event/Action Plan for Construction Noise Monitoring**

Event	Action			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> <li>1. Notify IEC, ER and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IEC and Contractor;</li> <li>4. Discuss jointly with the ER and formulate remedial measures;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the monitoring data submitted by the ET;</li> <li>2. Review the construction methods and proposed redial measures by the Contractor, and advise the ET and ER if the proposed remedial measures would be sufficient.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor;</li> <li>2. Require Contractor to propose remedial measures for implementation if required.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to the ER and copy to the IEC and ET;</li> <li>2. Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol style="list-style-type: none"> <li>1. Notify IEC, ER and Contractor;</li> <li>2. Identify source;</li> <li>3. Repeat measurements to confirm findings;</li> <li>4. Carry out analysis of Contractor's working</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to the ER and copy to the ET and IEC within 3 working days of notification;</li> </ol>

## Appendix J - Event Action Plans

Event	Action			
	ET	IEC	ER	Contractor
	<p>procedures to determine possible mitigation to be implemented;</p> <p>5. Record the causes and action taken for the exceedances;</p> <p>6. Increase the monitoring frequency;</p> <p>7. Assess the effectiveness of the Contractor's remedial action with the ER and keep the IEC informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring.</p>	<p>ER accordingly;</p> <p>3. Supervise the implementation of remedial measures.</p>	<p>problem;</p> <p>4. Ensure remedial measures properly implemented;</p> <p>5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</p>	<p>3. Implement the agreed proposals;</p> <p>4. Resubmit proposals if problem still not under control;</p> <p>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</p>

## Appendix J - Event Action Plans

**Table J-3 Event/Action Plan for Landscape and Visual**

Event	Action			
	ET	IEC	ER	Contractor
Non-conformity on one occasion	<ol style="list-style-type: none"> <li>1. Identify Source;</li> <li>2. Inform the IEC and the ER;</li> <li>3. Discuss remedial actions with IEC, ER and Contractor</li> <li>4. Monitor remedial actions until rectification has been completed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check report;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and the Contractor on possible remedial measures;</li> <li>4. Advise ER on effectiveness of proposed remedial measures;</li> <li>5. Check implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor;</li> <li>2. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Amend working methods;</li> <li>2. Rectify damage and undertake any necessary replacement.</li> </ol>

## Appendix J - Event Action Plans

Event	Action			
	ET	IEC	ER	Contractor
Repeated Non-conformity	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform the IEC and the ER;</li> <li>3. Increase monitoring frequency;</li> <li>4. Discuss remedial actions with the IEC, the ER and the Contractor;</li> <li>5. Monitor remedial actions until rectification has been completed;</li> <li>6. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring report;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and the Contractor on possible remedial measures;</li> <li>4. Advise ER on effectiveness of proposed remedial measures;</li> <li>5. Check implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor;</li> <li>2. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Amend working methods;</li> <li>2. Rectify damage and undertake any necessary replacement.</li> </ol>

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**APPENDIX K  
ENVIRONMENTAL MITIGATION  
IMPLEMENTATION SCHEDULE (EMIS)**

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EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
<b>Air Quality Impact</b>									
S2.3.1.1	<p>The specific mitigation comprises the following:</p> <p>watering of the construction areas 12 times per day to reduce dust emissions by 91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be 0.91L/m<sup>2</sup> for the respective watering frequency;</p> <p>Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&amp;D materials to the barge for dust suppression; and</p> <p>3-sided barriers around the stockpiling areas WA3 and WA4.</p>	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub-contractors	APCO / EIAO	Y	Y		^
									N/A(1)
									*
S2.3.1.2	<p>The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice:</p> <p>Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;</p> <p>Use of frequent watering for particularly dusty construction areas and areas close to ASRs;</p> <p>Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines;</p>	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub-contractors	APCO / EIAO	Y	Y		^
									^
									^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								*
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								^
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								^
	Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit;								N/A(1)
	Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;								^
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;								*
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and								N/A(1)
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
<b>Noise Impact</b>									
S3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: - Concrete lorry mixer - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne - Generator, Super Silenced, 70 dB(A) at 7m - Poker, vibratory, Hand-held (electric) - Water Pump, Submersible (Electric) - Mobile Crane - KOBELCO CKS900 - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
S3.4.1.1	Use of temporary or fixed noise barriers with a surface density of at least 10kg/m <sup>2</sup> to screen noise from movable and stationary plant.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
S3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m <sup>2</sup> to screen noise from generally static noisy plant such as air compressors.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
S3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Implementation of good site practice:  Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;  Mobile plant, if any, should be sited as far from NSRs as possible;  Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^  ^  ^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								^
	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and								^
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								^
	The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.								N/A
<b>Water Quality</b>									
S4.2.1.1	<p>In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following:</p> <p>Surface run-off from the construction site, including all Works Areas, will be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. At the establishment of works sites and works areas including the barging point, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the storm water to the silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction and the catch-pits and perimeter channels would be constructed in advance of site formation works and earthworks;</p>	To control water quality impact from construction site runoff and general construction activities	All works sites	Contractor and Sub-contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		^
	Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas and Works Areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap;								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
	<p>The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of 0.1m<sup>3</sup>/s, a sedimentation basin of 30m<sup>3</sup> would be required and for a flow rate of 0.5m<sup>3</sup>/s the basin would be 150m<sup>3</sup>. All effluent discharged from the construction site should comply with the standards stipulated in the TM-DSS. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the commencement of construction;</p>								N/A(1)
	<p>In accordance with ProPECC PN 1/94, the construction works should be programmed to minimise surface excavation works during rainy seasons (April to September), as far as practicable. All exposed earth areas should be completed and vegetated as soon as possible after the earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means;</p>								^
	<p>The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;</p>								^
	<p>All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;</p>								^
	<p>Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;</p>								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
	Open stockpiles of construction materials (for example, aggregates, sand and fill material) should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system;								^
	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers;								^
	Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and during or after rainstorms, are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events;								N/A(1)
	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 facilities should be provided at the exit of every construction site where practicable. Wash- water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-washing bay to public roads should be paved with sufficient backfall toward the wheel- washing bay to prevent vehicle tracking of soil and silty water to public roads and drains;								^
	Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources, specifically Works Areas WA1, WA2, WA4 and WA5 where plant maintenance is proposed. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;								N/A(1)
	The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 11 Waste Management of this EIA report; and								*
	All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching the nearby WSRs.								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S4.2.1.1 and 4.3.1.5	There is a need to apply to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distances of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc, can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license	To control water quality impact from effluent discharge from construction site	All works sites	Contractor and Sub-contractors	Water Pollution Control Ordinance		Y		N/A(1)
S4.2.1.1	<p>Specific mitigation measures for the tunnelling works using TBM, soft ground and mechanical excavation techniques should include the following:</p> <p>The cut-and-cover tunnelling works should be conducted sequentially as far as practicable to limit the amount of construction wastewater generated from the exposed areas during the wet season (April to September);</p> <p>Uncontaminated discharge should pass through settlement tanks prior to discharge;</p> <p>If contaminated groundwater is found during the course of the works, no direct discharge of groundwater from contaminated areas should be adopted. Any contaminated groundwater should be properly treated in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit should deploy suitable treatment processes (e.g. oil interceptor/activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as TPH) to an undetectable range;</p> <p>If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS;</p>	To minimize construction water quality impact from tunnelling and excavation works	All tunnelling and excavation portion	Contractor and Sub-contractors	TMEIA TMwater ProPECC PN 1/94 WPCO		Y		<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
	The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor;								N/A
	The wastewater with high concentrations of SS should be treated such as by settlement in tanks with sufficient retention time before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.								N/A
S4.2.1.1	<p>In order to prevent any accidental release of bentonite slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk and impacts of accidental spillage:</p> <p>All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed;</p> <p>The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only;</p> <p>The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides;</p> <p>The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary);</p> <p>An emergency clean up kit shall be readily available where bentonite fluid will be stored or used; and</p>	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub-contractors	WPCO		Y		^
									^
									N/A(1)
									^
									N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
	The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)
S4.2.1.1	The proposed barging point at South Apron will not involve marine works like dredging or modifying the submerged portion of the existing seawall. As such, no direct adverse water quality impacts are anticipated during its construction or operation. However, mitigation measures as outlined above should be applied to minimise water quality impacts from site run-off and temporary open stockpiles of spoil at the proposed barging point, where appropriate. Other good site practices include:  All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub-contractors	EIAO-TM WPCO		Y		N/A(1)
	All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;								^
	Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site; and								N/A(1)
	Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.								N/A
S4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S4.2.1.1	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	The Contractor must, also, register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		*
	Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;								N/A(1)
	Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and								
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S4.2.1.1	The road drainage in the tunnel should pass through oil interceptors to remove oil, and grease before being discharged into the public storm water drainage system;	To mitigate runoff from tunnel during the operational phase	Tunnel	CEDD	WPCO			Y	N/A
	Silt traps and oil interceptors should be cleaned and maintained regularly; and								N/A
	The oily contents of oil interceptors should be transferred to an appropriate disposal facility, or to be collected for reuse, if possible.								N/A
<b>Marine Ecology</b>									
S5.3.1.1	Good construction practice measures have been recommended to be implemented as follows:	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3		Y		N/A(1)
	Avoid damage and disturbance to the remaining and surrounding natural habitat;								N/A(1)
	Placement of equipment in designated areas within the existing disturbed land;								N/A(1)
	Spoil heaps should be covered at all times;								N/A(1)
	Construction activities should be restricted to the designated works areas; and								N/A(1)
Disturbed areas to be reinstated immediately after completion of the works.	N/A(1)								
<b>Fisheries</b>									
S6.2.1.2	No fisheries specific mitigation measures.								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
<b>Landscape and Visual</b>									
S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		^
S7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		N/A
S7.2.1.2	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	To prevent unnecessary dust and dirt contaminating the air and adjacent areas.	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	To mitigate potential visually obtrusive areas	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.	To mitigate and screen any potential visually obtrusive areas and enhance urban environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.	To mitigate light pollution and adverse visual impacts on surrounding environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	Compensatory tree planting shall be incorporated along all roadside amenity areas affected by the construction works. The required numbers and locations of compensatory trees shall be determined and agreed with the Government during Tree Removal Application process under ETWB TCW No. 3/2006.	To reinstate and maximise compensatory tree numbers to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S7.2.1.2	Compensatory tree planting shall be incorporated by the Project. The required numbers of compensatory trees shall follow the requirements of ETWB TCW No. 3/2006. Loss of amenity area adjacent to the Kwun Tong By-pass and planting areas in KTD South Apron will be mitigated by the creation of the Kai Tak South Apron: Amenity Area, which will be equal to or larger than the current provision.	To reinstate and maximise compensatory tree	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)
S7.2.1.2	Trees and shrubs and climbers etc. shall be planted to soften and screen proposed roads, central strip and associated structure, and to enhance streetscape greening effect where appropriate.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	All works area, excavated area and disturbed area for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments.	To reinstate and maximise hard and soft landscape areas to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	Tunnel portals and all above ground structures shall be sensitively designed to ensure the element with colour, texture and tonal quality being compatible to the existing urban context. Trees and shrub planting to minimize the potential adverse landscape and visual impacts shall be included where space permits. Roof top greening and vertical greening shall also be provided.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
<b>Cultural Heritage</b>									
S8.2.1.1 and 8.2.1.2	No culture heritage specific mitigation measures								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
<b>Waste Management Implication</b>									
S9.2.1.2	The requirements as stipulated in the ETWB TC(W) No.19/2005 Environmental Management on Construction Sites and the other relevant guidelines should be included in the Particular Specification for the future contractor as appropriate.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A
S9.2.1.2	The future contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should include: - Waste management policy; - Record of generated waste; - Waste reduction target; - Waste reduction programme; - Role and responsibility of waste management team; - Benefit of waste management; - Analysis of waste materials; - Reuse, recycling and disposal plans; - Transportation process of waste products; and - Monitoring and action plan.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
S9.2.1.2	The waste management hierarchy should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (locations) should be properly documented.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
S9.2.1.2	A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the future contractor to strictly implement. The Engineer would also regularly audit the effectiveness of the system.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	The CEDD should be timely notified of the estimated spoil volumes to be generated and the PFC should be notified and agreement sort on the disposal of surplus inert C&D materials e.g. good quality rock during detailed design of the Trunk Road T2 Project. Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and to ensure acceptability at public filling areas or reclamation sites.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
S9.2.1.2	Inert C&D materials from road pavement would be reused for backfilling where possible	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
S9.2.1.2	TBM generated alluvium and other C&D materials should be treated at a slurry treatment plant prior to transferring to Public Fill Reception Facilities.	To minimize, reuse and disposal of C&D materials	TMB works area / during TBM works	Contractor	DevB TC(W) No.6/2010		Y		^
S9.2.1.2	The site and surroundings should be kept tidy and litter free.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	No waste is allowed to be burnt on site.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
S9.2.1.2	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	To implement good site practice for handling, sorting reuse and recycling of wastes	Detailed Design	Design Consultant	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010	Y			N/A(1)
S9.2.1.2	Prohibit the future contractor to dispose of C&D materials at any sensitive locations e.g. natural habitat, etc. The future contractor should propose the final disposal sites in the WMP for approval before implementation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	Stockpiled C&D materials should be covered by tarpaulin and/or watered as appropriate to prevent windblown dust and surface run off.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
S9.2.1.2	Excavated C&D materials in trucks should be covered by tarpaulins to reduce the potential for spillage and dust generation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
S9.2.1.2	Wheel washing facilities should be used by all trucks leaving the site to prevent transferring mud trails onto public roads.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
S9.2.1.2	Excavated marine deposit (sediment) should be disposed of in a gazetted marine disposal ground under the requirements of the DASO or treated for backfilling.	To ensure proper disposal of marine sediment	All areas / throughout construction period	Contractor	ETWB TC(W) No.34/2002		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	Standard formwork or pre-fabrication should be used as far as practicable to minimise the C&D materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	The future contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
S9.2.1.2	All falsework should be steel instead of wood as far as practicable.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	<p>Chemical waste producers should register with the EPD and chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows:</p> <ul style="list-style-type: none"> <li>- Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;</li> <li>- Having a capacity of &lt;450L unless the specifications have been approved by the EPD; and</li> <li>- Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations.</li> <li>- Clearly labelled and used solely for the storage of chemical wastes;</li> <li>- Enclosed with at least 3 sides;</li> <li>- Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest;</li> <li>- Adequate ventilation;</li> <li>- Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>- Incompatible materials are adequately separated.</li> </ul>	To properly store the chemical waste within works sites and works areas	All areas / throughout construction period	Contractor	Code of Practice on the Packaging, Handling and Storage of Chemical Wastes		Y		*
S9.2.1.2	Waste oils, chemicals or solvents should not be disposed of to drain.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	EIAO TM		Y		^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. Night soil should be regularly collected by licensed collectors.	To ensure proper disposal of sewage sludge	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins should be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse should be cleared daily and disposed of to the nearest licensed landfill. Burning of refuse on construction sites is prohibited.	To separate the general refuse from other waste types and proper disposal of the refuse	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		^
S9.2.1.2	All waste containers should be in a secure area on hardstanding.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		^
S9.2.1.2	Aluminium cans should be collected and recovered from the waste stream by reputable collectors if they are segregated and easily accessible. Separately labelled bins for their deposition should be provided as far as practicable.	To implement on-site sorting facilitating reuse and recycling of materials as well as proper disposal of waste	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
S9.2.1.2	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the future contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	To separate the general refuse from other waste types and proper disposal of the refuse	Site Offices / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
S9.2.1.2	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	To implement good site practice for handling, sorting reuse and recycling of wastes	Contract Mobilisation	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
S9.2.1.2	During construction phase, regular site inspections and supervision of the waste management procedures shall be undertaken as part of the EM&A procedures.	To ensure proper control, all waste is removed from site areas as appropriate and illegal disposal of waste is not being undertaken	All areas / throughout construction period	Contractor	EIAO TM		Y		^

Remarks: EM&A Programme under EP-451/2013	
D	Design
C	Construction
Y	Yes
O	Operation
^	Compliance of mitigation measure;
N/A	Not applicable at this stage;
N/A(1)	Not observed;
*	Recommendation was made during site audit but improved/retified by the contractor;
#	Recommendation was made during site audit but not yet improved/retified by the contractor;
X	Non-compliance of mitigation measure;
●	Non-compliance but rectified by the contractor.

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**APPENDIX L  
SUMMARIES OF ENVIRONMENTAL  
COMPLAINT, WARNING, SUMMON  
AND NOTIFICATION OF SUCCESSFUL  
PROSECUTION**

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**Environmental Permit No.: EP-451/2013**  
**Environmental Team for Trunk Road T2**

**Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution**

Reporting Month: April 2024

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
#13	Portion Q1	23 Apr 2024	A verbal complaint regarding the noise nuisance, generated from the construction works nearby the Wai Lok Street building at 10:20 pm, was received by EPD.	<ul style="list-style-type: none"> <li>• The complaint is considered as <b>project-related</b>.</li> <li>• Despite the lifting operation being carried out at the site during the night, the contractor was in possession of a valid construction noise permit (GW-RE0328-24). All construction activities were performed in accordance with legal regulations, and no violations of the law were found.</li> <li>• In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi-enclosure/noise barrier and provide regularly maintenance for PMEs.</li> <li>• As the complaint was considered as project related, the contractor had implemented the relevant mitigation measures to minimize the noise impact including:               <ol style="list-style-type: none"> <li>1) Conduct regular noise monitoring.</li> <li>2) Conduct regular</li> </ol> </li> </ul>	Closed

**Environmental Permit No.: EP-451/2013**  
**Environmental Team for Trunk Road T2**

**Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution**

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
				maintenance for all Powered Mechanical Equipment to minimize the noise generated from engines. 3) Displayed the CNP at the gates of Portion Q.	

**Remarks:**

One environmental complaint was received in the reporting period.  
 No warning/summon and prosecution were received in the reporting period.

**Environmental Permit No.: EP-451/2013**  
**Environmental Team for Trunk Road T2**

**Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution**

**Table L2 Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Successful Prosecution**

<b>Log Ref.</b>	<b>Location</b>	<b>Received Date</b>	<b>Details of Complaint/warning/summon and prosecution</b>	<b>Investigation/Mitigation Action</b>	<b>Nature</b>	<b>Status</b>
#A01	The Launching Shaft	24 June 2020	A complaint regarding dust nuisance possible caused by the construction works at the Launching Shaft area was received.	<ul style="list-style-type: none"> <li>- Training regarding the loading and unloading height control was provided to the labourers to ensure dusty materials are transported under a minimum practical height.</li> <li>- Water sprays system was installed around the location of complaint to prevent dust generated from wind erosion on the stockpile.</li> <li>- Contractor was reminded to further enhance the dust mitigation measures to minimize the dust nuisance.</li> </ul>	Air	Closed
#N01	The Launching Shaft	03 & 13 July 2020	The verbal complaint regarding the noise nuisance generated from D-wall cutter operation nearby the PWCL	<ul style="list-style-type: none"> <li>- Noise barrier was erected between noise source and the PWCL building.</li> <li>- Construction programme was reviewed as to minimize operation of PME nearby the PWCL building</li> <li>- Contractor was recommended to implement the noise mitigation measures and other good site practices to minimize the noise nuisance.</li> </ul>	Noise	Closed

**Environmental Permit No.: EP-451/2013**  
**Environmental Team for Trunk Road T2**

**Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution**

<b>Log Ref.</b>	<b>Location</b>	<b>Received Date</b>	<b>Details of Complaint/warning/summon and prosecution</b>	<b>Investigation/Mitigation Action</b>	<b>Nature</b>	<b>Status</b>
			building was received by CEDD			
#N03	The Launching Shaft	03 December 2020	A verbal complaint regarding the noise nuisance, generated from the construction works nearby PWCL building, was received by CEDD.	<ul style="list-style-type: none"> <li>- Contractor has taken the remedial action (i.e. Some of the breakers in which were operated nearby the concerned area were wrapped up with the acoustic insulation sheets) and noise mitigation measures (i.e. Noise barrier was installed adjoining the building to minimize the influence of construction noise, maintenance for all Powered Mechanical Equipment was conducted regularly, review on the construction programme to minimize the operations of PME's near the PWCL) to minimize the noise impact generated from breaking activities.</li> </ul>	Noise	Closed
#N10	Launching Shaft and Barging Point	28 February 2023	A Complaint of Noise Nuisance caused by the nighttime construction	<ul style="list-style-type: none"> <li>- The cause of the noise nuisance may cause by the operation of Derrick Barge and the Conveyors.</li> <li>- No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> </ul>	Noise	Closed

**Environmental Permit No.: EP-451/2013**  
**Environmental Team for Trunk Road T2**

**Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution**

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Nature	Status
			activities was received.	<ul style="list-style-type: none"> <li>– In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi-enclosure/noise barrier and provide regularly maintenance for PMEs.</li> </ul>		
		7 March 2023	Follow up complaint from the same complainant was received and he/she informed that the construction noise nuisance at 09:50pm.	<ul style="list-style-type: none"> <li>– The cause of the noise nuisance may cause by the operation of Derrick Barge and the Conveyors.</li> <li>– No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> <li>– In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi-enclosure/noise barrier and provide regularly maintenance for PMEs.</li> </ul>	Noise	Closed

**Environmental Permit No.: EP-451/2013**  
**Environmental Team for Trunk Road T2**

**Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution**

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Nature	Status
#W01	Launching Shaft and Barging Point	13 March 2023	A complaint regarding to the silt/dirt being swept into the sea from the operation of barge under Trunk Road T2.	<ul style="list-style-type: none"> <li>– There is no direct evidence that the Silt/ Dirt being swept into the sea from the barge of T2.</li> <li>– The following recommendations are made to further enhance the mitigation measures:</li> <li>– Provide regular training to site personnel on proper waste management and appropriate handling procedures.</li> <li>– Provide sufficient waste disposal points and regular collection for disposal.</li> <li>– Closely monitor the barge operation.</li> <li>– The Contractor has implemented the above environmental mitigation measures (As mentioned in Section 2.6) on site to ensure that no silt and household waste being swept into any water body.</li> </ul>	Water	Closed
#N12	Launching Shaft Area, Barging Point, Cheung Yip Street	17 November 2023	A verbal complaint regarding the noise nuisance, generated from the	<ul style="list-style-type: none"> <li>– The cleaning work using the water jetting unit may be the cause of noise nuisance.</li> <li>– No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> <li>– In addition, the Contractor shall review the construction schedule, priorities the work</li> </ul>	Noise	Closed

**Environmental Permit No.: EP-451/2013**  
**Environmental Team for Trunk Road T2**

**Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution**

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Nature	Status
			construction works near Cheung Yip Street after 21:00.	sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi-enclosure/noise barrier and provide regularly maintenance for PMEs.		
#W02	Launching Shaft Area	22 November 2023	A complaint regarding to the number of fish die-off at the Kwun Tong Typhoon Shelter.	<ul style="list-style-type: none"> <li>– There is no direct evidence that the dead fish floating near the Kwun Tong Pier were caused by the construction activities.</li> <li>– The following recommendations are made to contractor to further enhance the mitigation measures:</li> <li>– 1) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent.</li> <li>– 2) Conduct regular water quality monitoring</li> <li>– 3) Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water.</li> </ul>	Water	Closed

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**APPENDIX M**  
**SUMMARY OF EXCEEDANCE**

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**Environmental Permit No.: EP-451/2013**  
**Environmental Team for Trunk Road T2**

**Appendix M – Summary of Exceedance**

**Reporting Month:** April 2024

**(A) Exceedance Report for Air Quality**

No Action Level and No Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

**(B) Exceedance Report for Construction Noise**

**Action Level for Construction Noise**

No Action Level exceedance was recorded due to no documented complaint received in this reporting month.

**Limit Level for Construction Noise**

No exceedance for daytime construction noise monitoring was recorded in the reporting month.

**(C) Summary of Landscape and Visual Non-Conformity**  
**(NIL in the reporting month)**

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**APPENDIX N  
TENTATIVE CONSTRUCTION  
PROGRAMME**

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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				
										Mar 27	Apr 28	May 29	Jun 30	
<b>Trunk Road T2 - Traffic Control &amp; Surveillance System &amp; Associated Works</b>														
<b>Access Dates</b>		57	01-Apr-24	28-May-24	23-May-24	24-Sep-26								
AC1000	Portion 1 - South Apron Up to SUS	0	01-Apr-24		27-May-24									
AC1010	Portion 2 - LSCC, WVB & Adit, EVB	0	01-Apr-24		24-Sep-26									
AC1020	Portion 3 - CKL Branch Tunnel in TKO-LTT Site	0	01-Apr-24		04-Jan-25									
AC1030	Portion 4 - TKO-LTT (LT Interchange)	0	01-Apr-24		23-May-24									
AC1050	Portion 2 - LS - CKL Tunnel CH 6+568 to CH 7+100	0	01-Apr-24		28-Sep-24									
AC1040	Underpass S21	0	04-Apr-24		26-Apr-25									
AC1060	Portion 2 - LS - CKL Tunnel CH 7+100 to CH 7+600	0	13-Apr-24		29-Aug-24									
AC1070	Portion 2 - LS - CKL Tunnel CH 7+600 to CH 8+100	0	28-May-24		15-Oct-24									
<b>Summary by Cost Center</b>		433	01-Apr-24	09-Jan-25	03-Aug-23	31-Oct-26	01-Mar-23							
<b>Cost Center B - Central System</b>		273	01-Apr-24	26-Sep-24	01-Nov-23	11-Apr-25	01-Aug-23							
SC1060	Configuration for Central System	76	01-Apr-24	20-Apr-24	31-Aug-24	31-Aug-24	01-Aug-23		EM1150: SS					
SC1050	FAT of Central System	59	01-Apr-24	20-May-24	01-Nov-23	30-Sep-24	31-Oct-23		EM1150: FS					
SC1070	SCT Plan Submission & Approval for Central System	84	28-May-24	04-Sep-24	02-Dec-24	14-Mar-25			DS2940: SS					
SC1080	Site Installation of Central System	64	28-May-24	12-Aug-24	08-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1960: SS, SW1090: SS, SW1670: SS, SW1770: SS					
SC1090	SAT Plan Submission & Approval for Central System	78	26-Jun-24	26-Sep-24	07-Jan-25	11-Apr-25			DS3500: SS					
<b>Cost Center C - Traffic Control Devices</b>		111	01-Apr-24	30-Jun-24	16-Aug-24	16-Aug-24	31-Aug-23							
SC1150	Installation Drawing Preparation, Submission & Approval for Traffic Control Devices	72	01-Apr-24	26-Apr-24	16-Aug-24	16-Aug-24	31-Aug-23		DS5890: SS					
SC1190	Equipment Manufacturing & Delivery for Traffic Control Devices	135	01-Apr-24	30-Jun-24	16-Aug-24	16-Aug-24	16-Sep-23		EM1320: SS					
<b>Cost Center D - Communication System</b>		222	01-Apr-24	12-Aug-24	08-Oct-24	14-Mar-25	01-Oct-23							
SC1320	Equipment Manufacturing & Delivery for Communication System	104					01-Oct-23	07-Mar-24	EM1040: SS					
SC1310	FAT of Communication System	10					29-Feb-24	07-Mar-24	EM1040: FS					
SC1340	SCT Plan Submission & Approval for Communication System	84	01-Apr-24	12-Jul-24	24-Oct-24	14-Mar-25			DS3020: SS					
SC1350	SAT Plan Submission & Approval for Communication System	80	16-Apr-24	22-Jul-24	07-Nov-24	13-Feb-25			DS3580: SS					
SC1330	Site Installation of Communication System	56	06-Jun-24	12-Aug-24	08-Oct-24	17-Feb-25			SW1100: SS, SW1120: SS, SW1960: SS					
<b>Cost Center E - CCTV System</b>		383	01-Apr-24	09-Jan-25	01-Nov-23	31-Oct-26	01-Mar-23							
SC1410	Installation Drawing Preparation, Submission & Approval for CCTV System	99	01-Apr-24	26-Apr-24	31-Oct-26	31-Oct-26	01-Mar-23		DS5970: SS					
SC1450	Equipment Manufacturing & Delivery for CCTV System	89	01-Apr-24	24-Apr-24	11-Aug-24	11-Aug-24	01-Aug-23		EM1050: SS					
SC1440	FAT of CCTV System	96	01-Apr-24	26-Apr-24	01-Nov-23	13-Aug-24	31-Oct-23		EM1050: FS					
SC1430	FAT Plan Submission & Approval for CCTV System	72	01-Apr-24	24-Apr-24	10-Aug-24	10-Aug-24	13-Dec-23		DS4050: SS					
SC1460	SCT Plan Submission & Approval for CCTV System	84	01-Apr-24	12-Jul-24	03-Sep-24	09-Jan-25			DS3060: SS					
SC1480	SAT Plan Submission & Approval for CCTV System	84	30-May-24	06-Sep-24	01-Nov-24	12-Feb-25			DS3620: SS					
SC1470	Site Installation of CCTV System	162	28-Jun-24	09-Jan-25	10-Sep-24	05-Mar-25			SW1060: SS, SW1940: SS					
<b>Cost Center F - PABX System</b>		305	01-Apr-24	07-Oct-24	08-Oct-24	24-Apr-25	27-Jul-23							
SC1560	Installation Drawing Preparation, Submission & Approval for PABX System	68	01-Apr-24	26-Apr-24	08-Oct-24	08-Oct-24	27-Jul-23		DS6010: SS					
SC1580	Equipment Manufacturing & Delivery for PABX System	105					01-Aug-23	19-Mar-24	EM1060: SS					
SC1570	FAT of PABX System	10					18-Mar-24	19-Mar-24	EM1060: FS					
SC1600	SCT Plan Submission & Approval for PABX System	84	01-Apr-24	12-Jul-24	18-Oct-24	12-Mar-25			DS3100: SS					
SC1610	SAT Plan Submission & Approval for PABX System	84	28-Jun-24	07-Oct-24	13-Jan-25	24-Apr-25			DS3660: SS					
<b>Cost Center G - ET System</b>		200	01-Apr-24	21-Sep-24	22-Jun-24	12-Mar-25	01-Aug-23							
SC1710	Equipment Manufacturing & Delivery for ET System	105					01-Aug-23	12-Mar-24	EM1070: SS					
SC1700	FAT of ET System	10					11-Mar-24	12-Mar-24	EM1070: FS					

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Mar 27	Apr 28	May 29	Jun 30
SC1690	Installation Drawing Preparation, Submission & Approval for ET System	72	01-Apr-24	27-Jun-24	22-Jun-24	27-Dec-24			DS6050: SS				
SC1730	SCT Plan Submission & Approval for ET System	84	01-Apr-24	12-Jul-24	17-Sep-24	11-Jan-25			DS3140: SS				
SC1740	SAT Plan Submission & Approval for ET System	84	14-Jun-24	21-Sep-24	29-Nov-24	12-Mar-25			DS3700: SS				
<b>Cost Center H - PA System</b>		<b>305</b>	<b>01-Apr-24</b>	<b>07-Oct-24</b>	<b>23-Sep-24</b>	<b>10-Apr-25</b>	<b>31-Aug-23</b>						
SC1820	Installation Drawing Preparation, Submission & Approval for PA System	72	01-Apr-24	26-Apr-24	23-Sep-24	23-Sep-24	31-Aug-23		DS6090: SS				
SC1850	SCT Plan Submission & Approval for PA System	84	01-Apr-24	12-Jul-24	03-Oct-24	12-Feb-25			DS3180: SS				
SC1870	SAT Plan Submission & Approval for PA System	84	28-Jun-24	07-Oct-24	28-Dec-24	10-Apr-25			DS3740: SS				
<b>Cost Center I - Radio System</b>		<b>269</b>	<b>01-Apr-24</b>	<b>07-Oct-24</b>	<b>01-Feb-24</b>	<b>08-Mar-25</b>	<b>01-Aug-23</b>						
SC1970	Equipment Manufacturing & Delivery for Radio System	119	01-Apr-24	23-Apr-24	14-Oct-24	14-Oct-24	01-Aug-23		EM1090: SS				
SC1950	FAT Plan Submission & Approval for Radio System	60	01-Apr-24	23-Apr-24	14-Oct-24	14-Oct-24	28-Dec-23		DS4350: SS				
SC1960	FAT of Radio System	14	01-Apr-24	25-Apr-24	01-Feb-24	16-Oct-24	31-Jan-24		EM1090: FS				
SC1930	Installation Drawing Preparation, Submission & Approval for Radio System	60	01-Apr-24	13-Jun-24	22-Jul-24	23-Oct-24			DS6130: SS				
SC1980	SCT Plan Submission & Approval for Radio System	84	01-Apr-24	12-Jul-24	27-Aug-24	08-Mar-25			DS3220: SS				
SC2000	SAT Plan Submission & Approval for Radio System	84	28-Jun-24	07-Oct-24	22-Nov-24	05-Mar-25			DS3780: SS				
<b>Cost Center J - Detection System</b>		<b>202</b>	<b>01-Apr-24</b>	<b>12-Jul-24</b>	<b>01-Nov-23</b>	<b>31-Oct-26</b>	<b>24-May-23</b>						
SC2060	Installation Drawing Preparation, Submission & Approval for Detection System	124	01-Apr-24	12-Apr-24	31-Oct-26	31-Oct-26	24-May-23		DS6170: SS				
SC2100	Equipment Manufacturing & Delivery for Detection System	90	01-Apr-24	20-Jun-24	11-Aug-24	11-Aug-24	01-Aug-23		EM1100: SS				
SC2090	FAT of Detection System	87	01-Apr-24	22-Jun-24	01-Nov-23	13-Aug-24	31-Oct-23		EM1100: FS				
SC2080	FAT Plan Submission & Approval for Detection System	66	01-Apr-24	20-Jun-24	24-May-24	10-Aug-24			DS4450: SS				
SC2110	SCT Plan Submission & Approval for Detection System	84	01-Apr-24	12-Jul-24	09-Sep-24	17-Jan-25			DS3260: SS				
<b>Cost Center K - Manual Fallback System</b>		<b>186</b>	<b>01-Apr-24</b>	<b>13-Sep-24</b>	<b>09-Sep-24</b>	<b>14-Mar-25</b>	<b>01-Aug-23</b>						
SC2220	FAT of Manual Fallback System	60	01-Apr-24	30-Apr-24	09-Sep-24	09-Sep-24	01-Aug-23		EM1640: SS				
SC2190	Installation Drawing Preparation, Submission & Approval for Manual Fallback System	60	01-Apr-24	26-Apr-24	08-Jan-25	08-Jan-25	31-Aug-23		DS6210: SS				
SC2200	Post FAT Configuration for Manual Fallback System	90	01-May-24	29-Jul-24	10-Sep-24	08-Jan-25			EM1540: FS				
SC2250	SCT Plan Submission & Approval for Manual Fallback System	84	08-May-24	16-Aug-24	17-Sep-24	14-Mar-25			DS3300: SS				
SC2270	SAT Plan Submission & Approval for Manual Fallback System	84	06-Jun-24	13-Sep-24	18-Oct-24	25-Jan-25			DS3860: SS				
<b>Cost Center L - Speed Enforcement System</b>		<b>108</b>	<b>01-Apr-24</b>	<b>09-Aug-24</b>	<b>23-Sep-24</b>	<b>11-Apr-25</b>							
SC2340	Installation Drawing Preparation, Submission & Approval for Speed Enforcement System	60	01-Apr-24	13-Jun-24	23-Sep-24	01-Mar-25			DS6290: SS				
SC2370	SCT Plan Submission & Approval for Speed Enforcement System	84	01-Apr-24	12-Jul-24	30-Nov-24	22-Mar-25			DS3380: SS				
SC2380	Reliability Test Plan Submission & Approval for Speed Enforcement System	84	30-Apr-24	09-Aug-24	30-Dec-24	11-Apr-25			DS3940: SS				
<b>Cost Center M - Power Distribution System</b>		<b>282</b>	<b>01-Apr-24</b>	<b>07-Sep-24</b>	<b>28-Sep-23</b>	<b>21-Nov-24</b>	<b>30-Aug-23</b>						
SC2460	Installation Drawing Preparation, Submission & Approval for Power Distribution System	60	01-Apr-24	26-Apr-24	27-Jun-24	27-Jun-24	30-Aug-23		DS6370: SS				
SC2470	Equipment Manufacturing & Delivery for Power Distribution System	98	01-Apr-24	30-May-24	28-Sep-23	12-Aug-24	27-Sep-23		DS2592: FS				
SC2490	SCT Plan Submission & Approval for Power Distribution System	84	31-May-24	07-Sep-24	13-Aug-24	21-Nov-24			DS3420: SS				
<b>Cost Center N - Government Optical Fibre System</b>		<b>332</b>	<b>01-Apr-24</b>	<b>07-Sep-24</b>	<b>03-Aug-23</b>	<b>28-Apr-25</b>	<b>02-Aug-23</b>						
SC2560	Equipment Manufacturing & Delivery for Government Optical Fibre System	111	01-Apr-24	30-May-24	03-Aug-23	19-Nov-24	02-Aug-23		DS2650: FS 200				
SC2550	Installation Drawing Preparation, Submission & Approval for Government Optical Fibre System	60	01-Apr-24	13-Jun-24	07-Sep-24	19-Nov-24			DS6330: SS				
SC2580	SCT Plan Submission & Approval for Government Optical Fibre System	84	31-May-24	07-Sep-24	16-Jan-25	28-Apr-25			DS3460: SS				
<b>Operation Facilities</b>		<b>125</b>	<b>01-Apr-24</b>	<b>14-Jul-24</b>	<b>22-May-24</b>	<b>20-Jan-25</b>	<b>01-Aug-23</b>						
SC2660	FAT of Operation Facilities	78	01-Apr-24	14-Jul-24	31-Aug-24	31-Aug-24	01-Aug-23		EM1560: SS				
SC2630	Installation Drawing Preparation, Submission & Approval for Operation Facilities	60	01-Apr-24	13-Jun-24	09-Nov-24	20-Jan-25			DS6250: SS				
SC2650	FAT Plan Submission & Approval for Operation Facilities	81	01-Apr-24	09-Jul-24	22-May-24	26-Aug-24			DS4600: SS				
<b>Design &amp; Submissions</b>		<b>304</b>	<b>01-Apr-24</b>	<b>17-Jun-24</b>	<b>13-Jun-24</b>	<b>25-Jun-25</b>	<b>29-Aug-23</b>						



**GTECH Services (Hong Kong) Limited**

■ Remaining Work   
 ■ Actual Work   
 ■ Critical Activity   
 ◆ Milestone

Date	Revision	Checked	Approved
31-Mar-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Mar 27	Apr 28	May 29	Jun 30
<b>FSP Submissions (42 Working Days after Commencement of FSP)</b>		304	01-Apr-24	17-Jun-24	13-Jun-24	25-Jun-25	29-Aug-23						
<b>FSP Batch 1 Submission</b>		304	01-Apr-24	17-Jun-24	13-Jun-24	25-Jun-25	29-Aug-23						
<b>Central System</b>		304	01-Apr-24	17-Jun-24	13-Jun-24	25-Jun-25	29-Aug-23						
<b>Traffic Plan Review &amp; Combine</b>		140	01-Apr-24	17-Jun-24	13-Jun-24	26-Aug-24	28-Dec-23						
DS7300	Traffic Plan Review & Combine Workshop	140	01-Apr-24	17-Jun-24	13-Jun-24	26-Aug-24	28-Dec-23		DS1830: FS 22				
<b>IT Security Risk Assessment Plan</b>		30	01-Apr-24	01-Apr-24	25-Jun-25	25-Jun-25	29-Aug-23						
DS7440	Approval on IT Security Risk Assessment Plan	30	01-Apr-24	01-Apr-24	25-Jun-25	25-Jun-25	29-Aug-23		DS7430: FS				
<b>Interface Coordination &amp; Integration with Other Parties</b>		96	01-Apr-24	26-Jul-24	11-May-26	03-Oct-26							
<b>Interfacing Coordination with CKR (KTE)</b>		90	01-Apr-24	19-Jul-24	17-Jun-26	03-Oct-26							
<b>Detail Interfacing Management Plan (DIMP)</b>		90	01-Apr-24	19-Jul-24	17-Jun-26	03-Oct-26							
DS6610	Prepare & Submit DIMP with CKR (KTE)	73	01-Apr-24	28-Jun-24	17-Jun-26	11-Sep-26			DS6600: FS 96				
DS6620	Comment on DIMP with CKR (KTE)	17	29-Jun-24	19-Jul-24	12-Sep-26	03-Oct-26			DS6610: FS				
<b>Interfacing Coordination with CKR (BEM)</b>		90	01-Apr-24	19-Jul-24	17-Jun-26	03-Oct-26							
<b>Detail Interfacing Management Plan (DIMP)</b>		90	01-Apr-24	19-Jul-24	17-Jun-26	03-Oct-26							
DS6690	Prepare & Submit DIMP with CKR (BEM)	73	01-Apr-24	28-Jun-24	17-Jun-26	11-Sep-26			DS6600: FS 96				
DS6700	Comment on DIMP with CKR (BEM)	17	29-Jun-24	19-Jul-24	12-Sep-26	03-Oct-26			DS6690: FS				
<b>Interfacing Coordination with TKO-LTT (Civil)</b>		76	01-Apr-24	03-Jul-24	12-Jun-26	10-Sep-26							
<b>Detail Interfacing Management Plan (DIMP)</b>		76	01-Apr-24	03-Jul-24	12-Jun-26	10-Sep-26							
DS6770	Prepare & Submit DIMP with TKO-LTT (Civil)	76	01-Apr-24	03-Jul-24	12-Jun-26	10-Sep-26			DS6760: FS 96				
<b>Interfacing Coordination with TKO-LTT (TCSS)</b>		76	01-Apr-24	03-Jul-24	16-Jun-26	14-Sep-26							
<b>Detail Interfacing Management Plan (DIMP)</b>		76	01-Apr-24	03-Jul-24	16-Jun-26	14-Sep-26							
DS6850	Prepare & Submit DIMP with TKO-LTT (TCSS)	76	01-Apr-24	03-Jul-24	16-Jun-26	14-Sep-26			DS6840: FS 108				
<b>Interfacing Coordination with T2</b>		96	01-Apr-24	26-Jul-24	11-May-26	02-Sep-26							
<b>Preliminary Interfacing Management Plan (PIMP)</b>		72	01-Apr-24	27-Jun-24	11-May-26	05-Aug-26							
DS6890	Prepare & Submit PIMP with T2	24	01-Apr-24	29-Apr-24	11-May-26	08-Jun-26			DS2680: FS 211				
DS6900	Comment on PIMP with T2	24	30-Apr-24	29-May-24	09-Jun-26	08-Jul-26			DS6890: FS				
DS6910	Resubmit PIMP with T2	12	30-May-24	13-Jun-24	09-Jul-26	22-Jul-26			DS6900: FS				
DS6920	Approval of PIMP with T2	12	14-Jun-24	27-Jun-24	23-Jul-26	05-Aug-26			DS6910: FS				
<b>Detail Interfacing Management Plan (DIMP)</b>		24	28-Jun-24	26-Jul-24	06-Aug-26	02-Sep-26							
DS6930	Prepare & Submit DIMP with T2	24	28-Jun-24	26-Jul-24	06-Aug-26	02-Sep-26			DS6920: FS				
<b>Drawing &amp; Installation Method Statement Submissions</b>		188	01-Apr-24	11-Jul-24	06-Apr-24	31-Oct-26	10-Aug-23						
<b>Installation Drawing Submission</b>		185	01-Apr-24	08-Jul-24	06-Apr-24	31-Oct-26	08-Sep-23						
DS2695	Prepare & Submit Schedule of Installation Drawing	30	01-Apr-24	07-May-24	06-Apr-24	11-May-24			DS1050: FS 103				
DS2705	Approval of Schedule of Installation Drawing	50	08-May-24	08-Jul-24	13-May-24	12-Jul-24			DS2695: FS				
<b>Traffic Control Devices</b>		125	01-Apr-24	26-Apr-24	23-Jul-24	16-Aug-24	07-Oct-23						
DS5910	Resubmit Installation Drawing for Traffic Control Devices	12	01-Apr-24	12-Apr-24	23-Jul-24	02-Aug-24	07-Oct-23		DS5900: FS				
DS5920	Approval of Installation Drawing for Traffic Control Devices	12	13-Apr-24	26-Apr-24	03-Aug-24	16-Aug-24			DS5910: FS, SC1150: FF				
<b>CCTV System</b>		58	01-Apr-24	26-Apr-24	06-Oct-26	31-Oct-26	13-Dec-23						
DS8020	Resubmit Installation Drawing for CCTV System	26	01-Apr-24	12-Apr-24	06-Oct-26	16-Oct-26	13-Dec-23		DS8010: FS				
DS8030	Approval of Installation Drawing for CCTV System	12	13-Apr-24	26-Apr-24	17-Oct-26	31-Oct-26			DS8020: FS, SC1410: FF				
<b>PABX System</b>		127	01-Apr-24	26-Apr-24	11-Sep-24	08-Oct-24	08-Sep-23						
DS6030	Resubmit Installation Drawing for PABX System	12	01-Apr-24	12-Apr-24	11-Sep-24	23-Sep-24	08-Sep-23		DS6020: FS				
DS6040	Approval of Installation Drawing for PABX System	12	13-Apr-24	26-Apr-24	24-Sep-24	08-Oct-24			DS6030: FS, SC1560: FF				
<b>ET System</b>		72	01-Apr-24	27-Jun-24	22-Jun-24	27-Dec-24							
DS6050	Prepare & Submit Installation Drawing for ET System	24	01-Apr-24	29-Apr-24	22-Jun-24	20-Jul-24			DS2770: SS 19				
DS6060	Comment on Installation Drawing for ET System	24	30-Apr-24	29-May-24	01-Nov-24	28-Nov-24			DS6050: FS				
DS6070	Resubmit Installation Drawing for ET System	12	30-May-24	13-Jun-24	29-Nov-24	12-Dec-24			DS6060: FS				
DS6080	Approval of Installation Drawing for ET System	12	14-Jun-24	27-Jun-24	13-Dec-24	27-Dec-24			DS6070: FS, SC1690: FF				
<b>PA System</b>		125	01-Apr-24	26-Apr-24	28-Aug-24	23-Sep-24	12-Oct-23						
DS6110	Resubmit Installation Drawing for PA System	12	01-Apr-24	12-Apr-24	28-Aug-24	07-Sep-24	12-Oct-23		DS6100: FS				
DS6120	Approval of Installation Drawing for PA System	12	13-Apr-24	26-Apr-24	09-Sep-24	23-Sep-24			DS6110: FS, SC1820: FF				
<b>Radio System</b>		60	01-Apr-24	13-Jun-24	22-Jul-24	23-Oct-24							
DS6130	Prepare & Submit Installation Drawing for Radio System	12	01-Apr-24	15-Apr-24	22-Jul-24	03-Aug-24			DS2154: FS				
DS6140	Comment on Installation Drawing for Radio System	24	16-Apr-24	14-May-24	26-Aug-24	23-Sep-24			DS6130: FS				



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										Mar 27	Apr 28	May 29	Jun 30
DS6150	Resubmit Installation Drawing for Radio System	12	16-May-24	29-May-24	24-Sep-24	08-Oct-24			DS6140: FS				
DS6160	Approval of Installation Drawing for Radio System	12	30-May-24	13-Jun-24	09-Oct-24	23-Oct-24			DS6150: FS, SC1930: FF				
<b>Detection System</b>		12	01-Apr-24	12-Apr-24	21-Oct-26	31-Oct-26	26-Nov-23						
DS6200	Approval of Installation Drawing for Detection System	12	01-Apr-24	12-Apr-24	21-Oct-26	31-Oct-26	26-Nov-23		DS6190: FS, SC2060: FF				
<b>Manual Fallback Control System</b>		34	01-Apr-24	26-Apr-24	12-Dec-24	08-Jan-25	07-Oct-23						
DS6230	Resubmit Installation Drawing for Manual Fallback Control System	12	01-Apr-24	12-Apr-24	12-Dec-24	23-Dec-24	07-Oct-23		DS6220: FS				
DS6240	Approval of Installation Drawing for Manual Fallback Control System	12	13-Apr-24	26-Apr-24	24-Dec-24	08-Jan-25			DS6230: FS, SC2190: FF				
<b>Operation Facility</b>		60	01-Apr-24	13-Jun-24	09-Nov-24	20-Jan-25							
DS6250	Prepare & Submit Installation Drawing for Operation Facility	12	01-Apr-24	15-Apr-24	09-Nov-24	22-Nov-24			DS2532: FS				
DS6260	Comment on Installation Drawing for Operation Facility	24	16-Apr-24	14-May-24	23-Nov-24	20-Dec-24			DS6250: FS				
DS6270	Resubmit Installation Drawing for Operation Facility	12	16-May-24	29-May-24	21-Dec-24	06-Jan-25			DS6260: FS				
DS6280	Approval of Installation Drawing for Operation Facility	12	30-May-24	13-Jun-24	07-Jan-25	20-Jan-25			DS6270: FS, SC2630: FF				
<b>Speed Enforcement System</b>		60	01-Apr-24	13-Jun-24	23-Sep-24	01-Mar-25							
DS6290	Prepare & Submit Installation Drawing for Speed Enforcement System	12	01-Apr-24	15-Apr-24	23-Sep-24	07-Oct-24			DS2472: FS				
DS6300	Comment on Installation Drawing for Speed Enforcement System	24	16-Apr-24	14-May-24	02-Jan-25	01-Feb-25			DS6290: FS				
DS6310	Resubmit Installation Drawing for Speed Enforcement System	12	16-May-24	29-May-24	03-Feb-25	15-Feb-25			DS6300: FS				
DS6320	Approval of Installation Drawing for Speed Enforcement System	12	30-May-24	13-Jun-24	17-Feb-25	01-Mar-25			DS6310: FS, SC2340: FF				
<b>Government Optical Fibre System</b>		60	01-Apr-24	13-Jun-24	07-Sep-24	19-Nov-24							
DS6330	Prepare & Submit Installation Drawing for Government Optical Fibre System	12	01-Apr-24	15-Apr-24	07-Sep-24	21-Sep-24			DS2650: FS, DS2592: SS				
DS6340	Comment on Installation Drawing for Government Optical Fibre System	24	16-Apr-24	14-May-24	23-Sep-24	22-Oct-24			DS6330: FS				
DS6350	Resubmit Installation Drawing for Government Optical Fibre System	12	16-May-24	29-May-24	23-Oct-24	05-Nov-24			DS6340: FS				
DS6360	Approval of Installation Drawing for Government Optical Fibre System	12	30-May-24	13-Jun-24	06-Nov-24	19-Nov-24			DS6350: FS, SC2550: FF				
<b>Power Distribution System</b>		64	01-Apr-24	26-Apr-24	01-Jun-24	27-Jun-24	20-Jan-24						
DS6401	Resubmit Installation Drawing for Power Distribution System	12	01-Apr-24	12-Apr-24	01-Jun-24	13-Jun-24	20-Jan-24		DS6400: FS				
DS6402	Approval of Installation Drawing for Power Distribution System	12	13-Apr-24	26-Apr-24	14-Jun-24	27-Jun-24			DS6401: FS, SC2460: FF				
<b>Installation Method Statement Submission</b>		160	01-Apr-24	11-Jul-24	23-May-24	31-Dec-24	10-Aug-23						
<b>Traffic Control Devices</b>		72	01-Apr-24	27-Jun-24	23-May-24	16-Aug-24							
DS2780	Prepare & Submit Installation Method Statement for Installation of TCSS Field Equipment	24	01-Apr-24	29-Apr-24	23-May-24	20-Jun-24			DS5890: FS 2				
DS2790	Comment on Installation Method Statement for Installation of TCSS Field Equipment	24	30-Apr-24	29-May-24	21-Jun-24	19-Jul-24			DS2780: FS				
DS2800	Resubmit Installation Method Statement for Installation of TCSS Field Equipment	12	30-May-24	13-Jun-24	20-Jul-24	02-Aug-24			DS2790: FS				
DS2810	Approval of Installation Method Statement for Installation of TCSS Field Equipment	12	14-Jun-24	27-Jun-24	03-Aug-24	16-Aug-24			DS2800: FS				
<b>CCTV Camera &amp; VD Camera</b>		72	01-Apr-24	27-Jun-24	27-May-24	20-Aug-24							
DS6410	Prepare & Submit Installation Method Statement for CCTV Camera & VD Camera	24	01-Apr-24	29-Apr-24	27-May-24	24-Jun-24			DS5990: FS, DS6190: FS 2				
DS6420	Comment on Installation Method Statement for CCTV Camera & VD Camera	24	30-Apr-24	29-May-24	25-Jun-24	23-Jul-24			DS6410: FS				
DS6430	Resubmit Installation Method Statement for CCTV Camera & VD Camera	12	30-May-24	13-Jun-24	24-Jul-24	06-Aug-24			DS6420: FS				
DS6440	Approval of Installation Method Statement for CCTV Camera & VD Camera	12	14-Jun-24	27-Jun-24	07-Aug-24	20-Aug-24			DS6430: FS				
<b>PABX, ET &amp; PA Systems</b>		72	09-Apr-24	05-Jul-24	29-Jun-24	23-Sep-24							
DS6450	Prepare & Submit Installation Method Statement for PABX, ET & PA Systems	24	09-Apr-24	07-May-24	29-Jun-24	27-Jul-24			DS6010: FS, DS6050: SS 6, DS6090: FS				
DS6460	Comment on Installation Method Statement for PABX, ET & PA Systems	24	08-May-24	05-Jun-24	29-Jul-24	24-Aug-24			DS6450: FS				



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										Mar 27	Apr 28	May 29	Jun 30
DS6470	Resubmit Installation Method Statement for PABX, ET & PA Systems	12	06-Jun-24	20-Jun-24	26-Aug-24	07-Sep-24			DS6460: FS				
DS6480	Approval of Installation Method Statement for PABX, ET & PA Systems	12	21-Jun-24	05-Jul-24	09-Sep-24	23-Sep-24			DS6470: FS				
<b>Radio System</b>		72	09-Apr-24	05-Jul-24	29-Jul-24	23-Oct-24							
DS6490	Prepare & Submit Installation Method Statement for Radio System	24	09-Apr-24	07-May-24	29-Jul-24	24-Aug-24			DS6130: SS 6				
DS6500	Comment on Installation Method Statement for Radio System	24	08-May-24	05-Jun-24	26-Aug-24	23-Sep-24			DS6490: FS				
DS6510	Resubmit Installation Method Statement for Radio System	12	06-Jun-24	20-Jun-24	24-Sep-24	08-Oct-24			DS6500: FS				
DS6520	Approval of Installation Method Statement for Radio System	12	21-Jun-24	05-Jul-24	09-Oct-24	23-Oct-24			DS6510: FS				
<b>Power Distribution System</b>		99	01-Apr-24	26-Apr-24	01-Jun-24	27-Jun-24	10-Aug-23						
DS6550	Resubmit Installation Method Statement for Power Distribution System	6	01-Apr-24	12-Apr-24	01-Jun-24	13-Jun-24	10-Aug-23		DS6540: FS				
DS6560	Approval of Installation Method Statement for Power Distribution System	12	13-Apr-24	26-Apr-24	14-Jun-24	27-Jun-24			DS6550: FS				
<b>SEC System</b>		24	13-Jun-24	11-Jul-24	03-Dec-24	31-Dec-24							
DS7380	Prepare & Submit Installation Method Statement for SEC System	24	13-Jun-24	11-Jul-24	03-Dec-24	31-Dec-24			DS6290: FS 47				
<b>Detection System</b>		72	01-Apr-24	27-Jun-24	27-May-24	20-Aug-24							
DS7470	Prepare & Submit Installation Method Statement for Detection System	24	01-Apr-24	29-Apr-24	27-May-24	24-Jun-24			DS5990: FS, DS6190: FS 2				
DS7480	Comment on Installation Method Statement for Detection System	24	30-Apr-24	29-May-24	25-Jun-24	23-Jul-24			DS7470: FS				
DS7490	Resubmit Installation Method Statement for Detection System	12	30-May-24	13-Jun-24	24-Jul-24	06-Aug-24			DS7480: FS				
DS7500	Approval of Installation Method Statement for Detection System	12	14-Jun-24	27-Jun-24	07-Aug-24	20-Aug-24			DS7490: FS				
<b>FAT Plan Submissions, Equipment Procurement &amp; Manufacturing</b>		216	01-Apr-24	29-Jul-24	18-May-24	31-Oct-26	01-Aug-23						
<b>CCTV System</b>		46	01-Apr-24	03-May-24	19-Jul-24	20-Aug-24	02-Feb-24						
<b>FAT Plan Submission</b>		41	01-Apr-24	24-Apr-24	19-Jul-24	10-Aug-24	02-Feb-24						
DS4070	Resubmission of FAT Plan for CCTV System	12					02-Feb-24	06-Mar-24	DS4060: FS				
DS4080	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	12					07-Mar-24	26-Mar-24	DS4070: FS				
DS8140	Resubmission of FAT Plan for CCTV System	12	01-Apr-24	10-Apr-24	19-Jul-24	27-Jul-24	27-Mar-24		DS4080: FS				
DS8150	Approval of FAT Plan for CCTV System	12	11-Apr-24	24-Apr-24	29-Jul-24	10-Aug-24			DS8140: FS, SC1430: FF				
<b>Equipment FAT &amp; Manufacturing</b>		7	25-Apr-24	03-May-24	12-Aug-24	20-Aug-24							
EM1480	FAT of CCTV System	2	25-Apr-24	26-Apr-24	12-Aug-24	13-Aug-24			SC1440: FF, EM1050: FS, SC1450: FS, DS8150: FS				
DS4090	Submit CCTV System FAT Test Report	1	03-May-24	03-May-24	20-Aug-24	20-Aug-24			EM1480: FS 6				
<b>PABX System</b>		141					01-Aug-23	21-Mar-24					
<b>Equipment FAT &amp; Manufacturing</b>		141					01-Aug-23	21-Mar-24					
EM1060	Manufacturing & Delivery of PABX System	105					01-Aug-23	18-Mar-24	DS2750: FS, DS7570: FS				
EM1490	FAT of PABX System	10					19-Mar-24	19-Mar-24	DS4130: FS, SC1570: FF, EM1060: FS, SC1580: FS				
DS4140	Submit PABX System FAT Test Report	1					20-Mar-24	21-Mar-24	EM1490: FS 6				
<b>ET System</b>		85					01-Aug-23	15-Mar-24					
<b>Equipment FAT &amp; Manufacturing</b>		85					01-Aug-23	15-Mar-24					
EM1070	Manufacturing & Delivery of ET System	105					01-Aug-23	11-Mar-24	DS2770: FS 118, DS7580: FS				
EM1500	FAT of ET System	10					12-Mar-24	12-Mar-24	DS4180: FS, SC1700: FF, EM1070: FS, SC1710: FS				
DS4190	Submit ET System FAT Test Report	1					15-Mar-24	15-Mar-24	EM1500: FS 6				
<b>PA System</b>		1					29-Feb-24	01-Mar-24					
<b>Equipment FAT &amp; Manufacturing</b>		1					29-Feb-24	01-Mar-24					
DS4240	Submit PA System FAT Test Report	1					29-Feb-24	01-Mar-24	EM1510: FS 6				
<b>Traffic Control Devices</b>		96	01-Apr-24	30-Jun-24	18-May-24	16-Aug-24	10-Oct-23						
<b>Equipment FAT &amp; Manufacturing</b>		96	01-Apr-24	30-Jun-24	18-May-24	16-Aug-24	10-Oct-23						
<b>PVMS</b>		85	01-Apr-24	30-Jun-24	18-May-24	16-Aug-24	10-Oct-23						



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										Mar 27	Apr 28	May 29	Jun 30
EM1030	Post-FAT Manufacturing & Delivery of Traffic Control Devices (PVMS)	85	01-Apr-24	30-Jun-24	18-May-24	16-Aug-24	10-Oct-23		DS4290: FF, SC1190: FF, EM1460: FS				
<b>LED Signage</b>		96	01-Apr-24	04-Jun-24	13-Jun-24	16-Aug-24	26-Feb-24						
EM1461	FAT of Traffic Control Devices (LED Signage)	13					26-Feb-24	01-Mar-24	EM1460: FS, EM1320: FS, SC1181: FS, DS8110: FS				
DS4291	Submit Traffic Control Devices FAT Test Report (LED Signage)	1					02-Mar-24	05-Mar-24	EM1461: FS				
DS8160	Resubmit Traffic Control Devices FAT Test Report (LED Signage)	1					06-Mar-24	11-Mar-24	DS4291: FS				
EM1650	Post-FAT Manufacturing & Delivery of Traffic Control Devices (LED Signage)	85	01-Apr-24	04-Jun-24	13-Jun-24	16-Aug-24	12-Mar-24		EM1461: FS, SC1190: FF, DS4291: FS, DS8160: FS				
<b>Central System</b>		55	01-Apr-24	27-May-24	13-Aug-24	07-Oct-24	20-Feb-24						
<b>FAT Plan Submission</b>		40	01-Apr-24	20-Apr-24	13-Aug-24	31-Aug-24	20-Feb-24						
DS8120	Resubmission of FAT Plan for Central System	12					20-Feb-24	26-Mar-24	DS4330: FS				
DS8130	Approval of FAT Plan for Central System	21	01-Apr-24	20-Apr-24	13-Aug-24	31-Aug-24	27-Mar-24		DS8120: FS				
<b>Equipment FAT &amp; Manufacturing</b>		29	21-Apr-24	27-May-24	01-Sep-24	07-Oct-24							
EM1580	FAT of Central System	30	21-Apr-24	20-May-24	01-Sep-24	30-Sep-24			SC1050: FF, EM1150: FS, SC1060: FS, DS8130: FS				
DS4340	Submit Central System FAT Test Report	1	27-May-24	27-May-24	07-Oct-24	07-Oct-24			EM1580: FS 6				
<b>Radio System</b>		45	01-Apr-24	02-May-24	20-Sep-24	23-Oct-24	02-Feb-24						
<b>FAT Plan Submission</b>		38	01-Apr-24	23-Apr-24	20-Sep-24	14-Oct-24	02-Feb-24						
DS4370	Resubmission of FAT Plan for Radio System	12					02-Feb-24	29-Feb-24	DS4360: FS				
DS4380	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	12					01-Mar-24	25-Mar-24	DS4370: FS				
DS8200	Resubmission of FAT Plan for Radio System	12	01-Apr-24	09-Apr-24	20-Sep-24	27-Sep-24	26-Mar-24		DS4380: FS				
DS8210	Approval of FAT Plan for Radio System	12	10-Apr-24	23-Apr-24	28-Sep-24	14-Oct-24			DS8200: FS, SC1950: FF				
<b>Equipment FAT &amp; Manufacturing</b>		7	24-Apr-24	02-May-24	15-Oct-24	23-Oct-24							
EM1520	FAT of Radio Distribution Network	2	24-Apr-24	25-Apr-24	15-Oct-24	16-Oct-24			EM1090: FS, SC1970: FS, SC1960: FF, DS8210: FS				
EM1610	FAT of Radio O&M (Mobile & Portable)	2	24-Apr-24	25-Apr-24	15-Oct-24	16-Oct-24			EM1090: FS, SC1970: FS, SC1960: FF, DS8210: FS				
DS4390	Submit Radio System FAT Test Report	1	02-May-24	02-May-24	23-Oct-24	23-Oct-24			EM1610: FS 6, EM1520: FS 6				
<b>Communication System</b>		125	01-Apr-24	11-Apr-24	22-Oct-26	31-Oct-26	01-Oct-23						
<b>Equipment FAT &amp; Manufacturing</b>		125	01-Apr-24	11-Apr-24	22-Oct-26	31-Oct-26	01-Oct-23						
EM1040	Manufacturing & Delivery of Communication System	104					01-Oct-23	29-Feb-24	DS2350: FS 144, DS7630: FS, DS2352: FS				
EM1470	FAT of Communication System	10					07-Mar-24	07-Mar-24	DS4430: FS, EM1040: FS, SC1310: FF, SC1320: FS				
DS4440	Submit Communication System FAT Test Report	1					08-Mar-24	19-Mar-24	EM1470: FS 6				
DS8170	Comment on FAT Report	12					20-Mar-24	25-Mar-24	DS4440: FS				
DS8180	Submit Communication System FAT Test Report	1					26-Mar-24	27-Mar-24	DS8170: FS				
DS8190	Approval of FAT Report for Communication System	12	01-Apr-24	11-Apr-24	22-Oct-26	31-Oct-26	28-Mar-24		DS8180: FS				
<b>Detection System</b>		74	01-Apr-24	29-Jun-24	24-May-24	20-Aug-24							
<b>FAT Plan Submission</b>		66	01-Apr-24	20-Jun-24	24-May-24	10-Aug-24							
DS4450	Submission of Detection System FAT Plan	18	01-Apr-24	22-Apr-24	24-May-24	14-Jun-24			DS2232: FS				
DS4460	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	24	23-Apr-24	22-May-24	15-Jun-24	13-Jul-24			DS4450: FS				
DS4470	Resubmission of FAT Plan for Detection System	12	23-May-24	05-Jun-24	15-Jul-24	27-Jul-24			DS4460: FS				
DS4480	Approval of FAT Plan for Detection System	12	06-Jun-24	20-Jun-24	29-Jul-24	10-Aug-24			DS4470: FS, SC2080: FF				
<b>Equipment FAT &amp; Manufacturing</b>		8	21-Jun-24	29-Jun-24	12-Aug-24	20-Aug-24							
EM1530	FAT of Detection System	2	21-Jun-24	22-Jun-24	12-Aug-24	13-Aug-24			DS4480: FS, SC2090: FF, EM1100: FS, SC2100: FS				
DS4490	Submit Detection System FAT Test Report	1	29-Jun-24	29-Jun-24	20-Aug-24	20-Aug-24			EM1530: FS 6				
<b>Power Distribution System</b>		89	01-Apr-24	30-May-24	14-Jun-24	12-Aug-24	01-Dec-23						
<b>Equipment Manufacturing</b>		89	01-Apr-24	30-May-24	14-Jun-24	12-Aug-24	01-Dec-23						
EM1620	Manufacturing & Delivery of Power Distribution System Equipment	89	01-Apr-24	30-May-24	14-Jun-24	12-Aug-24	01-Dec-23		SC2470: FF, DS7650: FS, DS2592: FS				



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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Mar 27	Apr 28	May 29	Jun 30
<b>Government Optical Fibre System</b>													
<b>Equipment Manufacturing</b>													
EM1630	Manufacturing & Delivery of Government Optical Fibre System Equipment	105	01-Apr-24	30-May-24	21-Sep-24	19-Nov-24	01-Dec-23		DS2650: FS 200, SC2560: FF, DS7660: FS				
<b>Operation Facilities</b>													
<b>FAT Plan Submission</b>													
DS4600	Submission of Operation Facility FAT Plan	24	01-Apr-24	29-Apr-24	22-May-24	19-Jun-24			DS2532: FS				
DS4610	Comment on FAT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	20-Jun-24	18-Jul-24			DS4600: FS				
DS4620	Resubmission of FAT Plan for Operation Facility	12	30-May-24	13-Jun-24	19-Jul-24	01-Aug-24			DS4610: FS				
DS4630	Approval of FAT Plan for Operation Facility	21	14-Jun-24	09-Jul-24	02-Aug-24	26-Aug-24			DS4620: FS, SC2650: FF				
<b>Speed Enforcement System</b>													
<b>FAT Plan Submission</b>													
DS4670	Submission of SES Bench Test Plan	24					21-Feb-24	19-Mar-24	DS4650: FS				
DS4690	Comment of SES Bench Test Plan/ Workshops (System Briefing & Comment Discussion)	24	01-Apr-24	17-Apr-24	01-Sep-26	16-Sep-26	20-Mar-24		DS4670: FS				
DS4710	Resubmission of SES Bench Test Plan	12	18-Apr-24	02-May-24	17-Sep-26	02-Oct-26			DS4690: FS				
DS4720	Approval of SES Bench Test Plan	12	03-May-24	17-May-24	03-Oct-26	16-Oct-26			DS4710: FS				
<b>Equipment FAT &amp; Manufacturing</b>													
EM1600	SEC System Bench Test	2	18-May-24	19-May-24	17-Oct-26	18-Oct-26			EM1570: FS 60, DS4720: FS				
DS4740	Submit SEC System Bech Test Report	1	01-Jun-24	01-Jun-24	31-Oct-26	31-Oct-26			EM1600: FS 12				
<b>Manual Fallback Control System</b>													
<b>Equipment FAT &amp; Manufacturing</b>													
EM1540	FAT of Manual Fallback Control System	30	01-Apr-24	30-Apr-24	11-Aug-24	09-Sep-24			DS4780: FS, SC2220: FF, EM1640: FS, DS7690: FS				
EM1110	Post-FAT Configuration of Manual Fallback Control System	90	01-May-24	29-Jul-24	11-Oct-24	08-Jan-25			EM1540: FS, DS4790: FF, SC2200: FF				
DS4790	Submit Manual Fallback Control System FAT Test Report	1	07-May-24	07-May-24	16-Sep-24	16-Sep-24			EM1540: FS 6				
<b>SCT Plan Submissions</b>													
<b>Central System</b>													
DS2940	Submission of Central System SCT Plan	24	28-May-24	25-Jun-24	02-Dec-24	30-Dec-24			DS4340: FS				
DS2950	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	26-Jun-24	24-Jul-24	31-Dec-24	28-Jan-25			DS2940: FS				
<b>Communication System</b>													
DS3020	Submission of Communication System SCT Plan	24	01-Apr-24	29-Apr-24	24-Oct-24	20-Nov-24			EM1040: FS				
DS3030	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	31-Dec-24	28-Jan-25			DS3020: FS				
DS3040	Resubmission of SCT Plan for Communication System	12	30-May-24	13-Jun-24	01-Feb-25	14-Feb-25			DS3030: FS				
DS3050	Approval of SCT Plan for Communication System	24	14-Jun-24	12-Jul-24	15-Feb-25	14-Mar-25			DS3040: FS, SC1340: FF				
<b>CCTV System</b>													
DS3060	Submission of CCTV System SCT Plan	24	01-Apr-24	29-Apr-24	03-Sep-24	02-Oct-24			EM1050: FS				
DS3070	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	30-Oct-24	26-Nov-24			DS3060: FS				
DS3080	Resubmission of SCT Plan for CCTV System	12	30-May-24	13-Jun-24	27-Nov-24	10-Dec-24			DS3070: FS				
DS3090	Approval of SCT Plan for CCTV System	24	14-Jun-24	12-Jul-24	11-Dec-24	09-Jan-25			DS3080: FS, SC1460: FF				
<b>PABX System</b>													
DS3100	Submission of PABX System SCT Plan	24	01-Apr-24	29-Apr-24	18-Oct-24	14-Nov-24			EM1060: FS				
DS3110	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	28-Dec-24	25-Jan-25			DS3100: FS				
DS3120	Resubmission of SCT Plan for PABX System	12	30-May-24	13-Jun-24	27-Jan-25	12-Feb-25			DS3110: FS				
DS3130	Approval of SCT Plan for PABX System	24	14-Jun-24	12-Jul-24	13-Feb-25	12-Mar-25			DS3120: FS, SC1600: FF				
<b>ET System</b>													
DS3140	Submission of ET System SCT Plan	24	01-Apr-24	29-Apr-24	17-Sep-24	17-Oct-24			EM1070: FS				
DS3150	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	01-Nov-24	28-Nov-24			DS3140: FS				
DS3160	Resubmission of SCT Plan for ET System	12	30-May-24	13-Jun-24	29-Nov-24	12-Dec-24			DS3150: FS				

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Mar 27	Apr 28	May 29	Jun 30
DS3170	Approval of SCT Plan for ET System	24	14-Jun-24	12-Jul-24	13-Dec-24	11-Jan-25			DS3160: FS, SC1730: FF				
<b>PA System</b>		84	01-Apr-24	12-Jul-24	03-Oct-24	12-Feb-25							
DS3180	Submission of PA System SCT Plan	24	01-Apr-24	29-Apr-24	03-Oct-24	31-Oct-24			EM1080: FS				
DS3190	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	29-Nov-24	27-Dec-24			DS3180: FS				
DS3200	Resubmission of SCT Plan for PA System	12	30-May-24	13-Jun-24	28-Dec-24	11-Jan-25			DS3190: FS				
DS3210	Approval of SCT Plan for PA System	24	14-Jun-24	12-Jul-24	13-Jan-25	12-Feb-25			DS3200: FS, SC1850: FF				
<b>Radio System</b>		84	01-Apr-24	12-Jul-24	27-Aug-24	08-Mar-25							
DS3220	Submission of Radio System SCT Plan	24	01-Apr-24	29-Apr-24	27-Aug-24	24-Sep-24			EM1090: SS 30				
DS3230	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	24-Dec-24	22-Jan-25			DS3220: FS				
DS3240	Resubmission of SCT Plan for Radio System	12	30-May-24	13-Jun-24	23-Jan-25	08-Feb-25			DS3230: FS				
DS3250	Approval of SCT Plan for Radio System	24	14-Jun-24	12-Jul-24	10-Feb-25	08-Mar-25			DS3240: FS, SC1980: FF				
<b>Detection System</b>		84	01-Apr-24	12-Jul-24	09-Sep-24	17-Jan-25							
DS3260	Submission of Detection System SCT Plan	24	01-Apr-24	29-Apr-24	09-Sep-24	08-Oct-24			EM1100: FS				
DS3270	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	07-Nov-24	04-Dec-24			DS3260: FS				
DS3280	Resubmission of SCT Plan for Detection System	12	30-May-24	13-Jun-24	05-Dec-24	18-Dec-24			DS3270: FS				
DS3290	Approval of SCT Plan for Detection System	24	14-Jun-24	12-Jul-24	19-Dec-24	17-Jan-25			DS3280: FS, SC2110: FF				
<b>Manual Fallback Control System</b>		48	08-May-24	05-Jul-24	17-Sep-24	28-Jan-25							
DS3300	Submission of Manual Fallback Control System SCT Plan	24	08-May-24	05-Jun-24	17-Sep-24	17-Oct-24			DS4790: FS				
DS3310	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	06-Jun-24	05-Jul-24	31-Dec-24	28-Jan-25			DS3300: FS				
<b>Speed Enforcement System</b>		84	01-Apr-24	12-Jul-24	30-Nov-24	22-Mar-25							
DS3380	Submission of Speed Enforcement System SCT Plan	24	01-Apr-24	29-Apr-24	30-Nov-24	28-Dec-24			EM1130: FS				
DS3390	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	30-Apr-24	29-May-24	09-Jan-25	08-Feb-25			DS3380: FS				
DS3400	Resubmission of SCT Plan for Speed Enforcement System	12	30-May-24	13-Jun-24	10-Feb-25	22-Feb-25			DS3390: FS				
DS3410	Approval of SCT Plan for Speed Enforcement System	24	14-Jun-24	12-Jul-24	24-Feb-25	22-Mar-25			DS3400: FS, SC2370: FF				
<b>Power Distribution System</b>		48	31-May-24	27-Jul-24	13-Aug-24	09-Oct-24							
DS3420	Submission of Power Distribution System SCT Plan	24	31-May-24	28-Jun-24	13-Aug-24	09-Sep-24			EM1620: FS, DS2592: FS				
DS3430	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Jun-24	27-Jul-24	10-Sep-24	09-Oct-24			DS3420: FS				
<b>Government Optical Fibre System</b>		48	31-May-24	27-Jul-24	16-Jan-25	15-Mar-25							
DS3460	Submission of Government Optical Fibre System SCT Plan	24	31-May-24	28-Jun-24	16-Jan-25	15-Feb-25			EM1630: FS				
DS3470	Comment on SCT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Jun-24	27-Jul-24	17-Feb-25	15-Mar-25			DS3460: FS				
<b>SAT Plan Submissions</b>		84	16-Apr-24	26-Jul-24	18-Oct-24	13-Mar-25							
<b>Central System</b>		18	26-Jun-24	17-Jul-24	07-Jan-25	27-Jan-25							
DS3500	Submission of Central System SAT Plan	18	26-Jun-24	17-Jul-24	07-Jan-25	27-Jan-25			DS2940: FS				
<b>Communication System</b>		80	16-Apr-24	22-Jul-24	07-Nov-24	13-Feb-25							
DS3580	Submission of Communication System SAT Plan	20	16-Apr-24	09-May-24	07-Nov-24	29-Nov-24			DS3020: SS 12				
DS3590	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	10-May-24	07-Jun-24	30-Nov-24	28-Dec-24			DS3580: FS				
DS3600	Resubmission of SAT Plan for Communication System	12	08-Jun-24	22-Jun-24	30-Dec-24	13-Jan-25			DS3590: FS				
DS3610	Approval of SAT Plan for Communication System	24	24-Jun-24	22-Jul-24	14-Jan-25	13-Feb-25			DS3600: FS, SC1350: FF				
<b>CCTV System</b>		48	30-May-24	26-Jul-24	01-Nov-24	27-Dec-24							
DS3620	Submission of CCTV System SAT Plan	24	30-May-24	27-Jun-24	01-Nov-24	28-Nov-24			DS3060: FS 24				
DS3630	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	28-Jun-24	26-Jul-24	29-Nov-24	27-Dec-24			DS3620: FS				
<b>PABX System</b>		24	28-Jun-24	26-Jul-24	13-Jan-25	12-Feb-25							
DS3660	Submission of PABX System SAT Plan	24	28-Jun-24	26-Jul-24	13-Jan-25	12-Feb-25			DS3100: FS 48				
<b>ET System</b>		24	14-Jun-24	12-Jul-24	29-Nov-24	27-Dec-24							
DS3700	Submission of ET System SAT Plan	24	14-Jun-24	12-Jul-24	29-Nov-24	27-Dec-24			DS3140: FS 36				
<b>PA System</b>		24	28-Jun-24	26-Jul-24	28-Dec-24	25-Jan-25							
DS3740	Submission of PA System SAT Plan	24	28-Jun-24	26-Jul-24	28-Dec-24	25-Jan-25			DS3180: FS 48				



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Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024				
										Mar 27	Apr 28	May 29	Jun 30	
<b>Radio System</b>		24	28-Jun-24	26-Jul-24	22-Nov-24	19-Dec-24								
DS3780	Submission of Radio System SAT Plan	24	28-Jun-24	26-Jul-24	22-Nov-24	19-Dec-24			DS3220: FS 48					
<b>Manual Fallback Control System</b>		24	06-Jun-24	05-Jul-24	18-Oct-24	14-Nov-24								
DS3860	Submission of Manual Fallback Control System SAT Plan	24	06-Jun-24	05-Jul-24	18-Oct-24	14-Nov-24			DS3300: FS					
<b>Speed Enforcement System</b>		60	30-Apr-24	12-Jul-24	30-Dec-24	13-Mar-25								
DS3940	Submission of Speed Enforcement System Reliability Test Plan	24	30-Apr-24	29-May-24	30-Dec-24	27-Jan-25			DS3380: FS					
DS3950	Comment on Reliability Test Plan/ Workshops (System Briefing & Comment Discussion)	24	30-May-24	27-Jun-24	28-Jan-25	27-Feb-25			DS3940: FS					
DS3960	Resubmission of Reliability Test Plan for Speed Enforcement System	12	28-Jun-24	12-Jul-24	28-Feb-25	13-Mar-25			DS3950: FS					
<b>Training Document &amp; O&amp;M Manual Submission for T2/TKOLTT TCSS</b>		65	23-May-24	08-Aug-24	06-May-25	22-Jul-25								
DS3980	Submit Document for System Description	6	23-May-24	29-May-24	06-May-25	12-May-25			DS3580: SS 30					
DS4010	Submit System Administration Manual	11	30-May-24	12-Jun-24	13-May-25	24-May-25			DS3980: FS					
DS4020	Submit Training Manual	48	13-Jun-24	08-Aug-24	26-May-25	22-Jul-25			DS4010: FS					
<b>Site Installation and Testing &amp; Commissioning</b>		209	01-Apr-24	09-Dec-24	23-May-24	31-Oct-26								
<b>Installation &amp; Testing Related to Stage 2 of Works</b>		187	27-Apr-24	09-Dec-24	28-Jun-24	31-Oct-26								
<b>Installation</b>		187	27-Apr-24	09-Dec-24	28-Jun-24	31-Oct-26								
<b>Portion 4 - TKO-LTT (LT Interchange)</b>		78	08-May-24	09-Aug-24	28-Jun-24	16-Jan-25								
SW1930	Install Cable Containments	48	08-May-24	05-Jul-24	28-Jun-24	23-Aug-24			SW1030: FS, DS6560: FS, DS6402: FS					
SW1960	Install Equipment in Kiosk C	12	06-Jun-24	20-Jun-24	06-Nov-24	19-Nov-24			SW1050: FS, DS4340: FS, DS4440: FS					
SW1940	Install CCTV Camera	36	28-Jun-24	09-Aug-24	04-Dec-24	16-Jan-25			SW1040: SS 12, SW1930: SS 12, DS4090: FS, DS6440: FS					
<b>Portion 1 - South Apron Up to SUS</b>		66	08-May-24	26-Jul-24	03-Jul-24	17-Sep-24								
SW2000	Install Cable Containments - the 1st Section	48	08-May-24	05-Jul-24	03-Jul-24	27-Aug-24			SW1220: FS, SC2480: FF, DS6560: FS, DS6402: FS					
SW2010	Install CCTV Camera	24	28-Jun-24	26-Jul-24	21-Aug-24	17-Sep-24			SW2000: SS 42, SC1470: FF, DS4090: FS, DS6440: FS					
<b>Portion 2 - Tunnel Section, Service Gallery, WVB &amp; EVB</b>		187	27-Apr-24	09-Dec-24	09-Sep-24	31-Oct-26								
SW2080	Install Cable Containments	187	27-Apr-24	09-Dec-24	09-Sep-24	31-Oct-26			SW2300: SS, SW2400: SS, SW2510: SS, SW2600: SS, SW2720: SS					
<b>Portion 3 - CKL Branch Tunnel in TKO-LTT Site</b>		79	27-Apr-24	01-Aug-24	28-Jan-25	20-Mar-25								
SW2230	Install Cable Containments	36	27-Apr-24	11-Jun-24	07-Feb-25	20-Mar-25			SW1860: FS, SC2480: FF, DS6560: FS, DS6402: FS					
SW2220	Install CCTV Camera	29	28-Jun-24	01-Aug-24	28-Jan-25	05-Mar-25			SW1860: SS 12, SC1470: FF, DS4090: FS, DS6440: FS					
<b>Underpass S21</b>		30	27-Apr-24	03-Jun-24	26-Apr-25	03-Jun-25								
SW2260	Install Cable Containment	14	27-Apr-24	14-May-24	26-Apr-25	14-May-25			AC1040: SS, SC2480: FF, DS6560: FS, DS6402: FS					
SW2280	Laying of Leaky Cable	30	27-Apr-24	03-Jun-24	26-Apr-25	03-Jun-25			SW2260: SS					
SW2290	Laying of Power Cable From TCSS Cabinet in T2 Area	14	07-May-24	23-May-24	17-May-25	03-Jun-25			SW2260: SS 7					
SW2270	Install YAGI Antenna	7	16-May-24	23-May-24	26-May-25	03-Jun-25			SW2260: FS					
<b>Portion 4 - TKO-LTT (LT Interchange)</b>		108	01-Apr-24	09-Aug-24	23-May-24	19-Nov-24								
SW1020	Inspect Civil Provisions & Submit Inspection Report	12	01-Apr-24	15-Apr-24	23-May-24	05-Jun-24			AC1030: SS, DS6600: FS, DS6680: FS, DS6760: FS, DS6840: FS					
SW1030	Rectify Civil Provision Defects by Others	18	16-Apr-24	07-May-24	06-Jun-24	27-Jun-24			SW1020: FS					
<b>Installation Works</b>		108	01-Apr-24	09-Aug-24	28-Jun-24	19-Nov-24								
SW1040	Install Cable Containments	48	01-Apr-24	29-May-24	28-Jun-24	23-Aug-24			DS6400: FS, DS6540: FS					
SW1050	Install Equipment Racks	24	08-May-24	05-Jun-24	07-Sep-24	07-Oct-24			SW1030: FS					
SW1100	Install Server Equipment	36	06-Jun-24	19-Jul-24	08-Oct-24	19-Nov-24			SW1050: FS, DS4440: FS, DS4340: FS					
SW1120	Install Equipment in Kiosk C	12	06-Jun-24	20-Jun-24	06-Nov-24	19-Nov-24			SW1050: FS, DS4340: FS, DS4440: FS					



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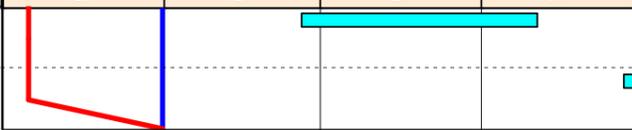
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Mar 27	Apr 28	May 29	Jun 30
SW1060	Install CCTV Camera	36	28-Jun-24	09-Aug-24	10-Sep-24	24-Oct-24			SW1040: SS 12, SW1930: SS 12, DS4090: FS, DS6440: FS				
SW1090	Install Video Wall Equipment (Administration Building)	21	28-Jun-24	23-Jul-24	26-Oct-24	19-Nov-24			SW1040: FS 24, SW1930: SS 24, SC1330: FF, DS4440: FS, DS4340: FS, DS4440: FF				
<b>Portion 1 - South Apron Up to SUS</b>		96	01-Apr-24	26-Jul-24	27-May-24	17-Sep-24							
SW1210	Inspect Civil Provisions & Submit Inspection Report	12	01-Apr-24	15-Apr-24	27-May-24	08-Jun-24			AC1000: SS				
SW1220	Rectify Civil Provision Defects by Others	18	16-Apr-24	07-May-24	11-Jun-24	02-Jul-24			SW1210: FS				
<b>Installation Works</b>		66	08-May-24	26-Jul-24	03-Jul-24	17-Sep-24							
SW1230	Install Cable Containments - the 1st Section	48	08-May-24	05-Jul-24	03-Jul-24	27-Aug-24			SW1220: FS, SC2480: FF, DS6560: FS, DS6402: FS				
SW1240	Install CCTV Camera	24	28-Jun-24	26-Jul-24	21-Aug-24	17-Sep-24			SW1230: SS 42, SC1470: FF, DS4090: FS, DS6440: FS				
<b>Portion 2 - Tunnel Section, Service Gallery, WVB &amp; EVB</b>		82	01-Apr-24	10-Jul-24	29-Aug-24	31-Oct-26							
<b>Tunnel Section</b>		79	01-Apr-24	06-Jul-24	29-Aug-24	21-Nov-24							
<b>Tunnel Section - CH 6+568 to CH 7+100</b>		46	01-Apr-24	27-May-24	28-Sep-24	07-Nov-24							
SW2860	Inspect Civil Provisions & Submit Inspection Report	3	01-Apr-24	03-Apr-24	28-Sep-24	02-Oct-24			AC1050: SS				
SW2870	Rectify Civil Provision Defects by Others	6	05-Apr-24	11-Apr-24	03-Oct-24	09-Oct-24			SW2860: FS				
<b>Installation Works</b>		24	27-Apr-24	27-May-24	10-Oct-24	07-Nov-24							
SW2300	Install Cable Containment	24	27-Apr-24	27-May-24	10-Oct-24	07-Nov-24			SC2480: FF, SW2870: FS, DS6560: FS, DS6402: FS				
<b>Tunnel Section - CH 7+100 to CH 7+600</b>		36	13-Apr-24	27-May-24	29-Aug-24	08-Oct-24							
SW2880	Inspect Civil Provisions & Submit Inspection Report	3	13-Apr-24	16-Apr-24	29-Aug-24	31-Aug-24			AC1060: SS				
SW2890	Rectify Civil Provision Defects by Others	6	17-Apr-24	23-Apr-24	02-Sep-24	07-Sep-24			SW2880: FS				
<b>Installation Works</b>		24	27-Apr-24	27-May-24	09-Sep-24	08-Oct-24							
SW2400	Install Cable Containment	24	27-Apr-24	27-May-24	09-Sep-24	08-Oct-24			SC2480: FF, SW2890: FS, DS6560: FS, DS6402: FS				
<b>Tunnel Section - CH 7+600 to CH 8+100</b>		33	28-May-24	06-Jul-24	15-Oct-24	21-Nov-24							
SW2900	Inspect Civil Provisions & Submit Inspection Report	3	28-May-24	30-May-24	15-Oct-24	17-Oct-24			AC1070: SS				
SW2910	Rectify Civil Provision Defects by Others	6	31-May-24	06-Jun-24	18-Oct-24	24-Oct-24			SW2900: FS				
<b>Installation Works</b>		24	07-Jun-24	06-Jul-24	25-Oct-24	21-Nov-24							
SW2510	Install Cable Containment	24	07-Jun-24	06-Jul-24	25-Oct-24	21-Nov-24			SC2480: FF, EM1620: FS, SW2910: FS, DS6560: FS, DS6402: FS				
<b>West Ventilation Building</b>		82	01-Apr-24	10-Jul-24	16-Oct-24	31-Oct-26							
SW1360	Inspect Civil Provisions & Submit Inspection Report	12	01-Apr-24	15-Apr-24	24-Sep-26	09-Oct-26			AC1010: SS, KD1010: FS 359				
SW1370	Rectify Civil Provision Defects by Others	18	16-Apr-24	07-May-24	10-Oct-26	31-Oct-26			SW1360: FS				
<b>Installation Works</b>		82	01-Apr-24	10-Jul-24	16-Oct-24	20-Jan-25							
SW1650	Install Cable Containments	24	01-Apr-24	29-Apr-24	16-Oct-24	12-Nov-24			SC2480: FF, DS6400: FS, DS6540: FS				
SW1660	Position Equipment Rack	12	30-Apr-24	14-May-24	23-Nov-24	06-Dec-24			SW1650: FS				
SW1670	Install Network Equipment	36	28-May-24	10-Jul-24	07-Dec-24	20-Jan-25			SW1660: FS, SC1330: FF, DS4340: FS, DS4440: FS				
<b>East Ventilation Building</b>		82	01-Apr-24	10-Jul-24	16-Oct-24	31-Oct-26							
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	01-Apr-24	15-Apr-24	24-Sep-26	09-Oct-26			AC1010: SS, KD1010: FS				
SW2970	Rectify Civil Provision Defects by Others	18	16-Apr-24	07-May-24	10-Oct-26	31-Oct-26			SW2960: FS				
<b>Installation Works</b>		82	01-Apr-24	10-Jul-24	16-Oct-24	20-Jan-25							
SW1750	Install Cable Containments	24	01-Apr-24	29-Apr-24	16-Oct-24	12-Nov-24			SC2480: FF, DS6400: FS, DS6540: FS				
SW1760	Position Equipment Rack	12	30-Apr-24	14-May-24	23-Nov-24	06-Dec-24			SW1750: FS				
SW1770	Install Network Equipment	36	28-May-24	10-Jul-24	07-Dec-24	20-Jan-25			SW1760: FS, SC1330: FF, DS4340: FS, DS4440: FS				
<b>Portion 3 - CKL Branch Tunnel in TKO-LTT Site</b>		101	01-Apr-24	01-Aug-24	04-Jan-25	14-Mar-25							
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	01-Apr-24	03-Apr-24	04-Jan-25	07-Jan-25			AC1020: SS				
SW1860	Rectify Civil Provision Defects by Others	7	05-Apr-24	12-Apr-24	08-Jan-25	15-Jan-25			SW1850: FS				
<b>Installation Works</b>		79	27-Apr-24	01-Aug-24	16-Jan-25	14-Mar-25							



■ Remaining Work    ◆ Milestone  
■ Actual Work  
■ Critical Activity

Date	Revision	Checked	Approved
31-Mar-24	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2024			
										Mar 27	Apr 28	May 29	Jun 30
SW1890	Install Cable Containments	36	27-Apr-24	11-Jun-24	01-Feb-25	14-Mar-25			SW1860: FS, SC2480: FF, DS6560: FS, DS6402: FS				
SW1870	Install CCTV Camera	29	28-Jun-24	01-Aug-24	16-Jan-25	21-Feb-25			SW1860: FS, SC1470: FF, DS4090: FS, DS6440: FS				



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**APPENDIX O  
WASTE GENERATED IN THE  
REPORTING MONTH**

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Name of Department: CEDD

Monthly Summary Waste Flow Table for 2024 (KT)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January	10.162	0.000	0.000	10.162	0.000	0.000	131.520	0.600	0.000	0.000	0.101
February	6.052	0.000	0.000	6.052	0.000	0.000	49.890	0.660	0.000	0.000	0.104
March	0.888	0.000	0.000	0.888	0.000	0.000	4.000	0.000	0.000	0.000	0.089
April	0.634	0.000	0.000	0.000	0.634	0.000	94.630	0.000	0.000	0.000	0.085
May											
June											
<b>Sub-total</b>	<b>17.736</b>	<b>0.000</b>	<b>0.000</b>	<b>17.102</b>	<b>0.634</b>	<b>0.000</b>	<b>280.040</b>	<b>1.260</b>	<b>0.000</b>	<b>0.000</b>	<b>0.379</b>
July											
August											
September											
October											
November											
December											
<b>Total</b>	<b>17.736</b>	<b>0.000</b>	<b>0.000</b>	<b>17.102</b>	<b>0.634</b>	<b>0.000</b>	<b>280.040</b>	<b>1.260</b>	<b>0.000</b>	<b>0.000</b>	<b>0.379</b>

Monthly Summary Waste Flow Table

Notes:

- (1)The performance targets are given in ER Appendix 8I Clause 14 and the EM&A Manual(s).
- (2)The waste flow table shall also include C&D materials to be imported for use at the Site.
- (3)Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4)The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ER Part 8 Clause 8.8.5 (d) (ii) refers).

## Monthly Summary Waste Flow Table For 2024

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Waste Generated Monthly							
	Total Quantity Generated	Broken Concrete (see Note 4)	Estimated Quantities (Broken Concrete)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Estimated Quantities (Metals)	Paper/ cardboard packaging	Estimated Quantities (Paper/ cardboard packaging)	Plastics (see Note 3)	Estimated Quantities (Plastics)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-24														
Jun-24														
<b>Sub-total</b>														
Jul-24														
Aug-24														
Sep-24														
Oct-24														
Nov-24														
Dec-24														
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

- Notes:
- (1) The performance targets are given in PS Sub-clause 2(5) (c).
  - (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
  - (4) Broken concrete for recycling into aggregates.