


MTR Corporation Limited

**Shatin to Central Link –  
Tai Wai to Hung Hom Section**

Monthly EM&A Report No. 120

[Period from 1 to 28 February 2025]

(March 2025)

Verified by	:	 Claudine Lee
Position	:	Independent Environmental Checker
Date	:	13 March 2025

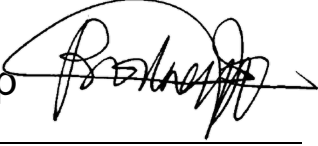
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Date	:	13 March 2025
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## 1 INTRODUCTION

### 1.1 Background

- 1.1.1 The Shatin to Central Link (SCL) is a 17km extension of the existing Ma On Shan Line (MOL) and East Rail Line (EAL) comprising (i) The East-West Corridor which extends the MOL from Tai Wai to Hung Hom via East Kowloon to connect with the West Rail Line (WRL) at Hung Hom Station (HUH) and Stabling Sidings at Hung Hom Freight Yard (HHS); and (ii) The North-South Corridor which is an extension of the East Rail Line (EAL) at Hung Hom across the harbour to Admiralty Station (ADM).
- 1.1.2 Shatin to Central Link – Tai Wai to Hung Hom Section [SCL (TAW-HUH)] (hereafter referred to as “the Project”) are parts of the SCL. Shatin to Central Link – Stabling Sidings at Hung Hom Freight Yard [SCL (HHS)] is a proposed stabling sidings option for SCL (TAW – HUH) at the former freight yard in Hung Hom.
- 1.1.3 The Environmental Impact Assessment (EIA) Reports for SCL (TAW-HUH) (Register No.: AEIAR-167/2012) and SCL (HHS) (Register No.: AEIAR-164/2012) were approved on 17 February 2012 under the Environmental Impact Assessment Ordinance (EIAO). Following the approval of the EIA Reports, the Environmental Permit (EP) was granted on 22 March 2012 - SCL (TAW-HUH) and SCL (HHS) (EP No: EP-438/2012), for the construction and operation. Variations of environmental permit (VEP) were subsequently applied for EP-438/2012. The latest Environmental Permits (EP No. EP-438/2012/L) was issued by Director of Environmental Protection (DEP) on 14 August 2024.

### 1.2 Project Programme

- 1.2.1 Thirteen civil construction works contracts of the Project have been awarded since July 2012. The construction of the Project commenced in September 2012. **Table 1.1** summarises the information of the awarded Works Contracts. All major construction works under eleven out of thirteen civil construction works contracts have been completed.

**Table 1.1 Summary of Awarded Works Contracts**

Works Contract	Description	Construction Start Date	Contractor	Environmental Team
1101 <sup>(1)</sup>	Ma On Shan Line Modification Works	December 2012	Sun Fook Kong Joint Venture (SFKJV)	ANewR Consulting Ltd. (ANewR)
1102 <sup>(6)</sup>	Hin Keng Station and Approach Structures	October 2013	Penta-Ocean Construction Co. Ltd.	Wellab Limited (Wellab)
1103 <sup>(7)</sup>	Hin Keng to Diamond Hill Tunnels	February 2013	Vinci Construction Grands Projets	Ove Arup & Partners Hong Kong Ltd. (Arup)
		October 2019	Wing Ho Yuen Landscaping Co. Ltd.	MTR Co. Limited
1106 <sup>(8)</sup>	Diamond Hill Station	March 2013	Leader Joint Venture	Cinotech Consultants Ltd. (Cinotech)
1107 <sup>(4)</sup>	Diamond Hill to Kai Tak Tunnels	May 2013	Chun Wo - SELI Joint Venture	Cinotech Consultants Ltd. (Cinotech)
1108 <sup>(5)</sup>	Kai Tak Station and Associated Tunnels	June 2013	Kaden -Chun Wo Joint Venture	Environmental Pioneers & Solutions Ltd.

Works Contract	Description	Construction Start Date	Contractor	Environmental Team
1108A <sup>(2)</sup>	Kai Tak Barging Point Facilities	September 2012	Concentric – Hong Kong River Joint Venture (CCL-HKR JV)	Cinotech Consultants Ltd. (Cinotech)
1109 <sup>(10)</sup>	Stations and Tunnels of Kowloon City Section	September 2012	Samsung-Hsin Chong JV (SSHCJV)	ERM-Hong Kong Limited (ERM)
1111 <sup>(9)</sup>	Hung Hom North Approach Tunnels	January 2013	Gammon-Kaden SCL1111 JV	AECOM Asia Co. Ltd.
1112 <sup>(11)</sup>	Hung Hom Station and Stabling Sidings	June 2013	Leighton Contractors (Asia) Limited	SMEC Asia Ltd., HK
11240 <sup>(3)</sup>	Excavation, Sorting and Disposal of Stockpiled Spoils to Approved Receptor Site	October 2017	Crown Asia Engineering Limited (CAEL)	MTR Corporation Limited
11286	Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station	July 2023	Paul Y. Construction Co., Ltd.	ERM-Hong Kong Limited (ERM)
11234	Re-provisioning of Ma Chai Hang Recreation Ground	March 2024	Build King Civil Engineering Ltd.	Fugro Technical Services Ltd.

## Notes:

- (1) All construction works (works areas at Tai Wai Mei Tin Road and the offsite temporary storage areas) under Works Contract 1101 were completed on 29 February 2016.
- (2) All construction works (Kai Tak Barging Point Facilities) under Works Contract 1108A were completed on 29 September 2016.
- (3) All construction works (Excavation, Sorting and Disposal of Stockpiled Spoils to Approved Receptor Site) under Works Contract 11240 were completed on 3 January 2018.
- (4) All construction works (Diamond Hill to Kai Tak Tunnels) under Works Contract 1107 were completed on 22 February 2018.
- (5) All construction works (Kai Tak Station and associated tunnels) under Works Contract 1108 were completed in July 2018.
- (6) All construction works (Hin Keng Station and Approach Structures) under Works Contract 1102 were completed in December 2018. The Environmental Team was taken over by Wellab Limited starting from 1 January 2019.
- (7) All construction works (Hin Keng to Diamond Hill Tunnels) under Works Contract 1103 were completed in June 2019. Minor landscaping works at Fung Tak had been commenced in mid-October and all the works were completed at the end of October 2019.
- (8) All construction works (Diamond Hill Station) under Works Contract 1106 with significant environmental impacts were substantially completed by 25 June 2019.
- (9) All major construction works (Hung Hom North Approach Tunnels) under Works Contract 1111 have been substantially completed since 18 November 2018.
- (10) All construction works (Stations and Tunnels of Kowloon City Section) under Works Contract 1109 have been substantially completed on 12 August 2020.
- (11) All major construction works (Hung Hom Station and Stabling Sidings) under Works Contract 1112 have been substantially completed by 17 September 2020.

1.2.2 All major construction works for SCL (TAW-HUH) and SCL (HHS) which were covered by EP No. EP-438/2012/L had been completed. The remaining works, including (1) the re-provisioning of recreational facilities at Ma Chai Hang and (2) a pedestrian link connecting Sung Wong Toi Station to Pak Tai Street, have been carried out by other works contracts in 2023 -2024 resulting in the liaison with Railway Development Office (RDO), relevant government departments and stakeholders. Apart from the above, the remaining tree planting works at Kai Tak Station Square (Phase 2) which have been scheduled after the full opening of SCL were completed.

### 1.3 Purpose of the Report

- 1.3.1 The Environmental Monitoring and Audit (EM&A) programme for the Project commenced in September 2012. This is the one hundred and twentieth EM&A Report for the Project which summarises the EM&A works undertaken during the period from 1 to 28 February 2025.

## 2 ENVIRONMENTAL MONITORING AND AUDIT

- 2.1.1 The construction of SCL has been divided into different civil construction works contracts which are covered by the Environmental Permit (EP-438/2012/L). As per the EP Conditions, Monthly EM&A Reports and Final EM&A Review Report for Works Contracts as shown in the table below except 11286 and 11234 have been prepared by the corresponding Contractor's ETs.

**Table 2.1 Summary of Works Contracts and Respective EPs**

<b>Works Contract</b>	<b>Contract Title</b>	<b>Works Covered in Environmental Permit No.</b>
1101	Ma On Shan Modification Works	EP-438/2012/L
1102	Hin Keng Station and Approach Structures	EP-438/2012/L
1103	Hin Keng to Diamond Hill Tunnels	EP-438/2012/L
1106	Diamond Hill Station	EP-438/2012/L
1107	Diamond Hill to Kai Tak Tunnels	EP-438/2012/L
1108	Kai Tak Station and Associated Tunnels	EP-438/2012/L
1108A	Kai Tak Barging Point Facilities	EP-438/2012/L
1109	Stations and Tunnels of Kowloon City Section	EP-438/2012/L
1111	Hung Hom North Approach Tunnels	EP-438/2012/L
1112	Hung Hom Station and Stabling Sidings	EP-438/2012/L
11240	Excavation, Sorting and Disposal of Stockpiled Spoils to Approved Receptor Site	EP-438/2012/L
11286	Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station	EP-438/2012/L
11234	Re-provisioning of Ma Chai Hang Recreation Ground	EP-438/2012/L

- 2.1.2 The EM&A Reports for Works Contract Nos. 11286 (a pedestrian link connecting Sung Wong Toi Station to Pak Tai Street) and 11234 (the re-provision of recreational facilities at Ma Chai Hang) prepared by the respective Contractor's ETs are provided in **Appendix A and Appendix B** respectively. The EM&A Report provide details of the project information, EM&A requirements, impact monitoring and audit results for the corresponding Contracts.
- 2.1.3 A summary of the major construction activities undertaken by the respective Contractors of various Works Contracts during the reporting period are presented in **Table 2.2**.

**Table 2.2 Summary of Major Construction Activities in the Reporting Period**

<b>Works Contract</b>	<b>Site</b>	<b>Construction Activities</b>
11286	Works in Sung Wong Toi (SUW) (formerly named as To Kwa Wan (TKW))	Near Sung Wong Toi Exit D (W1) <ul style="list-style-type: none"> <li>• ELS</li> <li>• On-site fabrication of Footbridge</li> <li>• Pier construction works</li> </ul> Near Pak Tai Street (H2) <ul style="list-style-type: none"> <li>• Pumping Test</li> <li>• Grout curtain works</li> <li>• ELS</li> </ul>
11234	Re-provisioning of Ma Chai Hang Recreation Ground	<ul style="list-style-type: none"> <li>• Site Clearance</li> <li>• Installation of mesh for football pitch fence</li> <li>• Laying of artificial turfing system</li> <li>• Testing and Commissioning for football pitch</li> <li>• Hard &amp; Soft landscaping</li> </ul>

- 2.1.4 Impact monitoring for air quality and construction noise were conducted in accordance with the EM&A Manual in the reporting period under Works Contract 11286. Continuous noise monitoring was not required in the reporting period for the Works Contracts according to the Continuous Noise Monitoring Plan (CNMP). The air quality and construction noise for this reporting period are summarised in **Tables 2.3** and **2.4**. Details of the monitoring requirements, locations, equipment, methodology and QA/QC procedures are presented in the EM&A Reports as provided in **Appendices A**.
- 2.1.5 No environmental complaint; no exceedance of action and limit levels; and no notification of summons or successful prosecutions was received during this reporting period. Log for environmental complaints, notification of summons and successful prosecutions are provided in **Table 2.5**.
- 2.1.6 Regular site inspections were conducted by the respective ETs (both Works Contract Nos. 11286 and 11234) on a weekly basis to check the implementation of environmental pollution control and mitigation measures for the Project. No non-conformance was identified in the reporting period.

**Table 2.3 Summary of TSP Monitoring Results in the Reporting Period**

Monitoring Station ID	Location	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )	Exceedance due to the Project Construction (Yes/ No/ N/A)
<b>Works Contracts 1102 and 1103</b>					
DMS-1 <sup>(10)</sup>	C.U.H.K.A.A. Thomas Cheung School	N/A	148.7	260	N/A
<b>Works Contract 1103</b>					
DMS-2 <sup>(11)</sup>	Price Memorial Catholic Primary School	N/A	167.4	260	N/A
<b>Works Contracts 1103 and 1106</b>					
DMS-3 <sup>(12)</sup>	Hong Kong S.K.H Nursing Home <sup>(1)</sup>	N/A	159.1	260	N/A
<b>Works Contract 1106<sup>(9)</sup></b>					
DMS-4 <sup>(12)</sup>	Block 1, Rhythm Garden	N/A	160.4	260	N/A
<b>Works Contract 1108<sup>(4)</sup></b>					
<b>Works Contract 1109</b>					
DMS-6	Katherine Building <sup>(2)</sup>	N/A	156.8	260	N/A
DMS-8	SKH Good Shepherd Primary School	N/A	152.2	260	N/A
DMS-9	No. 12 Pau Chung Street <sup>(3)(8)</sup>	N/A	160.9	260	N/A
DMS-10	Chat Ma Mansion	N/A	170.4	260	N/A
<b>Works Contract 1111</b>					
AM1 <sup>(5)(13)</sup>	No. 234 – 238 Chatham Road North <sup>(6)</sup>	N/A	183.9	260	N/A
<b>Works Contract 1112</b>					
AM2	Site Boundary of Finger Pier Adjacent to Harbourfront Horizon <sup>(7)</sup>	N/A	182	260	N/A
<b>Works Contract 11240<sup>(4)</sup></b>					
<b>Works Contract 11286</b>					
DMS-7 <sup>(14)</sup>	Sky Tower - Tower 2	23 - 93	166.7	260	No

**Notes:**

- (1) Alternative monitoring location to Shek On House
- (2) Alternative monitoring location to Prosperity House
- (3) Alternative monitoring location to Lucky Building
- (4) No TSP monitoring is required under this contract
- (5) AM1 named as HUH-1-3 in SCL(TAW-HUH) and SCL(HHS) EIA Reports.
- (6) Alternative monitoring location to Wing Fung Building
- (7) Alternative monitoring location to Harbourfront Horizon
- (8) Alternative monitoring location of No. 26 Kowloon City Road
- (9) The 24-hour TSP monitoring works would be taken up by Works Contract 1106 since the completion of Works Contract 1107 in Feb 2018.
- (10) The cessation of monitoring works at DMS-1 was approved by EPD and the last monitoring was conducted on 16 Jul 2018.
- (11) The temporary cessation of monitoring works at DMS-2 was approved by EPD in end-June 2019. The last monitoring date was 27 June 2019.
- (12) The cessation of monitoring works at DMS-3 and DMS-4 was approved by EPD on 31 Jul 2019. The last monitoring was conducted on 30 Jul 2019.
- (13) The cessation of monitoring works at AM1 was proposed on 25 Jul 2019 and EPD expressed no objection on 31 Jul 2019.
- (14) ET has obtained the permission from Sky Tower to deploy the High-Volume Sampler (HVS) at the location same as the originally proposed dust monitoring location of DMS-7 in the approved EM&A Manual for SCL (TAW HUH). 24-hour TSP thus has been conducted at Sky Tower - Tower 2 (podium level) since 27 October 2023.

**Table 2.4 Summary of Construction Noise Monitoring Results in the Reporting Period**

Monitoring Station ID	Location	Noise Level (L <sub>Aeq,30mins</sub> , dB(A))			Limit Level (dB(A))	Exceedance due to the Project Construction (Yes/No/N/A)
		Measured	Baseline	Corrected <sup>(7)</sup>		
Works Contracts 1102 and 1103						
NMS-CA-1 <sup>(12)</sup>	C.U.H.K.A.A. Thomas Cheung School	N/A	57.0	N/A	70 (65 during examination period)	N/A
Works Contract 1103						
NMS-CA-2 <sup>(13)</sup>	Price Memorial Catholic Primary School	N/A	66.0	N/A	70 (65 during examination period)	N/A
Works Contracts 1103 and 1106						
NMS-CA-3 <sup>(14)</sup>	Hong Kong S.K.H Nursing Home <sup>(1)</sup>	N/A	73.0	N/A	70	N/A
Works Contracts 1106 <sup>(11)</sup>						
NMS-CA-4 <sup>(14)</sup>	Block 1, Rhythm Garden (north-eastern façade)	N/A	71.0	N/A	75	N/A
NMS-CA-5 <sup>(14)</sup>	Block 1, Rhythm Garden (northern façade) <sup>(2)</sup>	N/A	74.0	N/A	70 (65 during examination period)	N/A
Works Contract 1108 <sup>(6)</sup>						
Works Contract 1109						
NMS-CA-6	No. 16-23 Nam Kok Road <sup>(3)</sup>	N/A	76.1	N/A	75	N/A
NMS-CA-8	SKH Good Shepherd Primary School	N/A	75.4	N/A	70 (65 during examination period) (79 during the period of conducting the continuous noise monitoring) <sup>(8)</sup>	N/A
NMS-CA-9	Kong Yiu Mansion <sup>(4)</sup>	N/A	69.2	N/A	75	N/A
NMS-CA-10	Chat Ma Mansion	N/A	76.6	N/A	75	N/A
Works Contract 1111						
NM1 <sup>(15)</sup>	Carmel Secondary School (South Block)	N/A	68.0	N/A	70 (65 during examination period) (68 during the period of conducting the continuous noise monitoring) <sup>(9)</sup>	N/A
NM2 <sup>(15)</sup>	No. 234 – 238 Chatham Road North <sup>(5)</sup>	N/A	79.0	N/A	75 (77) <sup>(10)</sup>	N/A
Works Contract 1112 <sup>(6)</sup>						
Works Contract 11240 <sup>(6)</sup>						

Monitoring Station ID	Location	Noise Level (L <sub>Aeq,30mins</sub> , dB(A))			Limit Level (dB(A))	Exceedance due to the Project Construction (Yes/No/N/A)
		Measured	Baseline	Corrected <sup>(7)</sup>		
Works Contract 11286						
NMS-CA-7	Sky Tower - Tower 2	66.6 – 69.7	70.0	< Baseline	75	No

## Notes:

- (1) Alternative monitoring location to Shek On House.
- (2) Alternative monitoring location to Canossa Primary School (San Po Kong).
- (3) Alternative monitoring location to Prosperity House.
- (4) Alternative monitoring location to Lucky Building.
- (5) Alternative monitoring location to Wing Fung Building.
- (6) No construction noise monitoring is required under this contract.
- (7) The measured noise levels are corrected against the corresponding baseline noise levels.
- (8) The Limit Level of 79 dB(A) was updated on 22 Aug 2013 as per the latest Construction Noise Mitigation Measures Plan (CNMMP) and Continuous Noise Monitoring Plan (CNMP) which were approved by EPD.
- (9) The Limit of 68 dB(A) was updated on 20 Jan 2014 as per the latest CNMMP and CNMP which were approved by EPD.
- (10) Daytime noise Limit Level of 77 dB(A) applies during the continuous noise monitoring period.
- (11) The construction noise monitoring works would be taken up by Works Contract 1106 since the completion of Works Contract 1107 in Feb 2018.
- (12) The cessation of monitoring works at NMS-CA-1 was approved by EPD and the last monitoring was conducted on 17 Jul 2018.
- (13) The temporary cessation of monitoring works at NMS-CA-2 was approved by EPD in end-June 2019. The last monitoring date was 24 Jun 2019.
- (14) The cessation of monitoring works at NMS-CA-3, NMS-CA-4 and NMS-CA-5 was approved by EPD on 31 Jul 2019. The last monitoring proposed on 31 Jul 2019 was rescheduled to 1 Aug 2019 due to adverse weather and the hoist of Typhoon Signal No.8 (Typhoon "Wipha").
- (15) The cessation of monitoring works at NM1 and NM2 were proposed on 25 Jul 2019 and EPD expressed no objection on 31 Jul 2019.

**Table 2.5 Log for Environmental Complaints, Notification of Summons and Successful Prosecutions for the Reporting Month**

Works Contract	Environmental Complaints	Notification of Summons	Successful Prosecutions
11286	0	0	0
11234	0	0	0

**3 IMPLEMENTATION STATUS ON THE ENVIRONMENTAL PROTECTION REQUIREMENTS**

3.1.1 The respective Contractors have implemented all mitigation measures and requirements as stated in the EIA Reports, EM&A Manuals and EP-438/2012/K. The status of required submissions under the EP as of the reporting period are summarised in **Tables 3.1**.

**Table 3.1 Summary of Status of Required Submissions for EP-438/2012/L**

EP Condition (EP-438/2012/K)	Submission	Submission date
Condition 1.12	Notification of Commencement Date of Construction of the Project	1 Aug 2012
Condition 2.3	Notification of Information of Community Liaison Groups	13 Jul 2012 (1 <sup>st</sup> submission) 31 Aug 2012 (2 <sup>nd</sup> submission) 30 Nov 2012 (3 <sup>rd</sup> submission)
Condition 2.7	Management Organisation of Main Construction Companies	27 Jul 2012 (1 <sup>st</sup> submission) 21 Aug 2012 (2 <sup>nd</sup> submission) 19 Dec 2012 (3 <sup>rd</sup> submission) 22 Jan 2013 (4 <sup>th</sup> submission) 30 Apr 2013 (5 <sup>th</sup> submission) 21 May 2013 (6 <sup>th</sup> submission)
Condition 2.8	Construction Programme and EP Submission Schedule	27 Jul 2012
Condition 2.9	Construction Noise Mitigation Measures Plan (CNMMP)	1 Aug 2012 (1 <sup>st</sup> submission) 28 Sep 2012 (2 <sup>nd</sup> submission) 30 Nov 2012 (3 <sup>rd</sup> submission) 11 Jan 2013 (4 <sup>th</sup> submission) 8 Feb 2013 (Approved) 8 Feb 2013 (5 <sup>th</sup> submission) 26 Apr 2013 (6 <sup>th</sup> submission) 11 Jun 2013 (7 <sup>th</sup> submission) 12 Jul 2013 (Approved) 26 Jul 2013 (8 <sup>th</sup> submission) 22 Aug 2013 (Approved) 23 Aug 2013 (9 <sup>th</sup> submission) 13 Sep 2013 (Approved) 20 Jan 2014 (10 <sup>th</sup> submission) 26 Feb 2014 (Approved) 31 Mar 2015 (Contract 1106 submission only) 13 Apr 2015 (Contract 1106 submission only) 15 Apr 2015 (Approved)
Condition 2.10	Continuous Noise Monitoring Plan (CNMP)	1 Aug 2012 (1 <sup>st</sup> submission) 28 Sep 2012 (2 <sup>nd</sup> submission) 30 Nov 2012 (3 <sup>rd</sup> submission) 11 Jan 2013 (4 <sup>th</sup> submission) 8 Feb 2013 (Approved) 8 Feb 2013 (5 <sup>th</sup> submission) 26 Apr 2013 (6 <sup>th</sup> submission) 11 Jun 2013 (7 <sup>th</sup> submission) 12 Jul 2013 (Approved) 26 Jul 2013 (8 <sup>th</sup> submission) 22 Aug 2013 (Approved) 23 Aug 2013 (9 <sup>th</sup> submission)



EP Condition (EP-438/2012/K)	Submission	Submission date
		13 Sep 2013 (Approved) 20 Jan 2014 (10 <sup>th</sup> submission) 26 Feb 2014 (Approved) 7 Oct 2014 (11 <sup>th</sup> submission) 23 Oct 2014 (Approved)
Condition 2.11	Construction and Demolition Materials Management Plan (C&DMMP)	6 Jul 2012 (1 <sup>st</sup> submission) 12 Sep 2012 (2 <sup>nd</sup> submission) 10 Oct 2012 (Approved)
Condition 2.12	Sediment Management Plan	6 Jul 2012 (1 <sup>st</sup> submission) 12 Sep 2012 (2 <sup>nd</sup> submission) 5 Oct 2012 (3 <sup>rd</sup> submission) 10 Oct 2012 (Approved) 4 Mar 2013 (4 <sup>th</sup> submission) 9 May 2013 (5 <sup>th</sup> submission) 24 Jul 2013 (6 <sup>th</sup> submission) 26 Jul 2013 (Approved)
Condition 2.13	Visual, Landscape, Tree Planting & Tree Protection Plan	6 Jul 2012 (1 <sup>st</sup> submission) 30 Aug 2012 (2 <sup>nd</sup> submission) 3 Oct 2012 (3 <sup>rd</sup> submission) 13 Nov 2013 (Approved) 14 Nov 2012 (4 <sup>th</sup> submission) 8 Feb 2013 (5 <sup>th</sup> submission) 18 Mar 2013 (6 <sup>th</sup> submission) 18 Jun 2013 (7 <sup>th</sup> submission) 12 Jul 2013 (Approved) 23 Mar 2017 (8 <sup>th</sup> submission) 7 Mar 2018 (9 <sup>th</sup> submission) 30 Jul 2018 (10 <sup>th</sup> submission) 28 Feb 2019 (11 <sup>th</sup> submission) 5 Mar 2019 (12 <sup>th</sup> submission) 29 May 2019 (13 <sup>th</sup> submission) 19 Jul 2019 (Approved)
Condition 2.14	Transplantation Proposal for Plant Species of Conservation Importance	22 Aug 2012 (1 <sup>st</sup> submission) 5 Oct 2012 (2 <sup>nd</sup> submission) 26 Nov 2012 (3 <sup>rd</sup> submission) 4 Dec 2012 (Approved)
Condition 2.15	Conservation Plan	31 Jan 2013 (1 <sup>st</sup> submission) 18 Mar 2013 (2 <sup>nd</sup> submission) 24 Apr 2013 (Approved)
Condition 2.16	Archaeological Action Plan(s) (AAP(s)) for Works Contract 1109	10 Aug 2012 (1 <sup>st</sup> submission) 3 Sep 2012 (2 <sup>nd</sup> submission) 21 Sep 2012 (Approved) 11 Oct 2013 (3 <sup>rd</sup> submission) 1 Nov 2013 (Approved)
Condition 2.16	Archaeological Action Plan(s) (AAP(s)) for Works Contract 1106	29 Jan 2013 (1 <sup>st</sup> submission) 19 Mar 2013 (2 <sup>nd</sup> submission) 8 Apr 2013 (Approved)
Condition 2.23	Supplementary Contamination Assessment Report for New Territories South Animal Centre	28 Sep 2012 25 Oct 2012 (Approved)
Condition 2.27	Operational Ground-borne Noise Mitigation Measures Plan	18 Mar 2016 (Batch 1 Version A submission) 28 Apr 2016 (Batch 1 Version B submission) 28 Apr 2016 (Batch 2 Version A submission) 1 Jun 2016 (Batch 1 Version C submission) 1 Jun 2016 (Batch 2 Version B submission) 23 Jun 2016 (Batch 1 Version D submission)

EP Condition (EP-438/2012/K)	Submission	Submission date
		23 Jun 2016 (Batch 2 Version C submission) 15 Jul 2016 (Batch 1 Version D approved) 15 Jul 2016 (Batch 2 Version C approved) 15 Sep 2016 (Batch 3 Version A submission) 4 Oct 2016 (Batch 3 Version A approved) 8 Mar 2017 (Batch 4 Version A) 7 Apr 2017 (Batch 4 Version A approved) 7 Jun 2017 (Final) 20 Jul 2017 (Approved)
Condition 2.28	As-built Drawings for Operational Ground-borne Noise Mitigation Measures	10 Aug 2017 (1 <sup>st</sup> submission) 15 Sep 2017 (Approved)
Condition 2.30	As-built Drawings for Operational Air-borne Noise Mitigation Measures	4 Dec 2015 (1 <sup>st</sup> submission) 28 Dec 2015 (2 <sup>nd</sup> submission) 4 Feb 2016 (Approved) 20 Mar 2018 (3 <sup>rd</sup> submission) 18 Jul 2018 (Approved) 4 May 2018 (4 <sup>th</sup> submission) 23 Jul 2018 (Approved) 20 Feb 2020 (5 <sup>th</sup> submission) 17 Mar 2020 (Approved)
Condition 2.31	Performance Test Report for Train Noise – Operational Airborne Railway and Ground-borne Noise	15 Nov 2018 (Batch 1 Version A submission) 30 Jan 2019 (Batch 2 Version A submission) 29 Mar 2019 (Batch 1 Version A & Batch 2 Version B submission) 15 April 2019 (Approved)
Condition 2.32	Proposal for Updating Maximum Allowable Sound Power Levels of Fixed Plant Sources	30 Jan 2019 (Batch 1 Version A submission) 27 Feb 2019 (Batch 1 Version B submission) 13 Mar 2019 (Batch 1 Version B approved) 15 Mar 2019 (Batch 2 Version A submission) 8 Apr 2019 (Batch 2 Version A approved) 24 April 2019 (Batch 3 & 4 Version A submission) 21 May 2019 (Batch 3 Version B submission) 11 Jun 2019 (Batch 3 Version B & Batch 4 Version A approved) 21 Jun 2019 (Batch 5 Version A submission) 17 Jul 2019 (Batch 5 Version A approved) 19 Jul 2019 (Batch 6 Version A submission) 26 Jul 2019 (Batch 7 Version A submission) 29 Jul 2019 (Batch 6 Version A approved) 14 Aug 2019 (Batch 7 Version A approved)

EP Condition (EP-438/2012/K)	Submission	Submission date
Condition 2.32	Fixed Plant Noise Audit Report	30 Jan 2019 (Batch 1 Version A submission) 15 Mar 2019 (Batch 1 Version B submission) 4 Apr 2019 (Batch 1 Version B approved) 16 Apr 2019 (Batch 2 Version A submission) 7 May 2019 (Batch 2 Version A approved) 24 Jun 2019 (Batch 3 Version A and Batch 4 Version A submission) 6 Jul 2019 (Batch 3 Version A and Batch 4 Version A approved) 2 Aug 2019 (Batch 5 Version A submission) 27 Aug 2019 (Batch 6 Version A submission) 29 Aug 2019 (Batch 7 Version A submission) 3 Sep 2019 (Batch 5 Version A approved) 13 Sep 2019 (Batch 6 Version B approved) 23 Sep 2019 (Batch 7 Version B submission) 11 Oct 2019 (Batch 7 Version B approved)
Condition 2.33	As-built Drawings for Landscape and Visual Mitigation Measures	4 Dec 2015 (1 <sup>st</sup> submission) 28 Dec 2015 (2 <sup>nd</sup> submission) 4 Feb 2016 (Approved) 22 Aug 2018 (3 <sup>rd</sup> submission) 5 Nov 2018 (4 <sup>th</sup> submission) 6 Sep 2019 (5 <sup>th</sup> submission) 11 Sep 2019 (Approved) 27 Sep 2019 (6 <sup>th</sup> submission) 21 Feb 2020 (7 <sup>th</sup> submission) 17 Sep 2020 (8 <sup>th</sup> submission) 4 Nov 2020 (9 <sup>th</sup> submission) 18 Jan 2024 (10 <sup>th</sup> submission) 26 Jun 2024 (11 <sup>th</sup> submission)
Condition 2.36	Contamination Assessment Plan (CAP) for the Temporary Magazine Site at TKO Area 137	23 Mar 2016 (1 <sup>st</sup> submission) 20 Apr 2016 (2 <sup>nd</sup> submission) 22 Apr 2016 (Approved)
Condition 2.36	Contamination Assessment Report (CAR) for the Temporary Magazine Site at TKO Area 137	19 May 2016 (1 <sup>st</sup> submission) 3 Jun 2016 (2 <sup>nd</sup> submission) 15 Jun 2016 (Approved)
Condition 3.1	Proposal for Termination of Environmental Monitoring and Audit (EM&A) Programme for Kai Tak Barging Point Facilities	7 Oct 2016 (Approved)
Condition 3.1	Proposal for Cessation of EM&A Works at Hin Keng	9 May 2018 (1 <sup>st</sup> submission) 16 Jul 2018 (Approved)
Condition 3.1	Proposal for Cessation of EM&A Programme at Diamond Hill Station	25 Jul 2019 (1 <sup>st</sup> submission) 31 Jul 2019 (Approved)
Condition 3.1	Proposal for Cessation of EM&A Programme at Hung Hom North Approach Tunnels	25 Jul 2019 (1 <sup>st</sup> submission) 31 Jul 2019 (Approved)

EP Condition (EP-438/2012/K)	Submission	Submission date
Condition 3.1	Proposal for Cessation of EM&A Programme at Stations and Tunnels of Kowloon City Section	24 Aug 2020 (1 <sup>st</sup> submission) 28 Aug 2020 (Approved)
Condition 3.1	Proposal for Cessation of EM&A Programme at Hung Hom Station and Stabling Sidings	21 Oct 2020 (1st submission) 29 Oct 2020 (Approved)
Condition 3.3	Baseline Monitoring Report (Works Contract 1109 - Stations and Tunnels of Kowloon City Section)	27 Jul 2012
Condition 3.3	Baseline Monitoring Report (Works Contract 1108A – Kai Tak Barging Point Facilities)	31 Jul 2012
Condition 3.3	Baseline Monitoring Report (Works Contracts 1103, 1106 and 1111 – Hin Keng to Diamond Hill Tunnels, Diamond Hill Station, and Hung Hom North Approach Tunnels)	19 Oct 2012
Condition 3.4	Monthly Operational Airborne Rail Noise Monitoring Report (Festival City) No. 1-6	Reported in previous Monthly EM&A Reports
Condition 3.4	Monthly EM&A Reports No. 1-118  Monthly EM&A Report No.119	Reported in previous Monthly EM&A Reports  14 February 2025

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**Appendix A**

**Monthly EM&A Report for  
SCL (TAW-HUH) and SCL(MKK-HUH) –  
Pedestrian Link Connecting Pak Tai Street and Sung Wong  
Toi Station (Contract No. 11286)**

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MTR Corporation Limited

**Shatin to Central Link –  
Tai Wai to Hung Hom Section**

**Monthly EM&A Report**

[Period from 1 to 28 February 2025]

Works Contract 11286 - Pedestrian Link Connecting  
Pak Tai Street and Sung Wong Toi Station

(12 March 2025)

Certified by:  Mandy To

Position: Environmental Team Leader

Date: 12 March 2025



# Construction of Shatin to Central Link (SCL) Contract 11286 - Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station

Monthly Environmental Monitoring and Audit  
Report No.20 (1 February 2025 – 28 February  
2025)

PREPARED FOR



**中国铁建**

CRCC - CR15G (MTRC11286) JV

DATE

14 March 2025

REFERENCE

0699635



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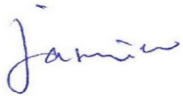
# Construction of Shatin to Central Link (SCL) Contract 11286 - Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station

Monthly Environmental Monitoring and Audit Report No.20 (1  
February 2025 – 28 February 2025)  
0699635



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## 1. EXECUTIVE SUMMARY

The construction works of MTR Shatin to Central Link Works Contract 11286 – Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station commenced on 17 July 2023. This is the 20<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 February 2025 to 28 February 2025 in accordance with the approved EM&A Manuals and the Environmental Permit (EP-438/2012/L).

### SUMMARY OF THE CONSTRUCTION ACTIVITIES UNDERTAKEN DURING THE REPORTING PERIOD

The major construction activities undertaken during the reporting period include:

#### Construction Activities Undertaken During the Reporting Period

Near Sung Wong Toi Exit D (W1)

- ELS
- On-site fabrication of Footbridge
- Pier construction works

Near Pak Tai Street (H2)

- Pumping Test
- Grout curtain works
- ELS

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### CONSTRUCTION NOISE AND CONSTRUCTION DUST MONITORING

A summary of the monitoring activities in this reporting period is listed below:

Regular construction noise monitoring during normal working hours:

- Skytower Tower 2 (NMS-CA-7): 5 times

Construction dust (TSP) 24-hour monitoring:

- Skytower Tower 2 (DMS-7): 5 times

### CULTURAL HERITAGE

As foundation works were undertaken, vibration monitoring was conducted by the Contractor at designated monitoring locations during the reporting period. No non-compliance was recorded. As foundation works were undertaken, vibration monitoring was conducted by the Contractor at designated monitoring locations during the reporting period. No non-compliance was recorded.

### WASTE MANAGEMENT

Waste generated from this Works Contract typically includes inert construction and demolition materials and non-inert construction and demolition materials. 2,100m<sup>3</sup> of inert construction and demolition materials was generated from the Works Contract and

disposed as public fill. 20 kg of General Refuse is generated during the reporting period.

## LANDSCAPE AND VISUAL

Bi-weekly inspections of the implementation of landscape and visual mitigation measures were conducted during the site inspections conducted by Contractor's ET. Details of the audit findings and the implementation status are presented in **Section 5**.

## ENVIRONMENTAL SITE INSPECTION

Joint weekly site inspections were conducted by representatives of the Contractor, Engineer and Contractor's ET on 6, 13, 20 and 27 February 2025. The representative of the IEC joined the site inspection on 20 February 2025. Details of the audit findings are presented in **Section 6**.

## ENVIRONMENTAL EXCEEDANCE/NON- CONFORMANCE/COMPLAINT/SUMMONS AND PROSECUTION

No exceedance of the Action and Limit Levels of the construction noise was recorded during the reporting period.

No exceedance of the Action and Limit Levels of construction dust monitoring was recorded during the reporting period.

No non-compliance event was recorded during the reporting period.

No environmental complaint was received during this reporting period.

No summon or prosecution was received during the reporting period. No summon or prosecution was received during the reporting period.

## UPCOMING WORKS FOR THE NEXT REPORTING PERIOD

The major construction works to be undertaken in the next reporting period include:

### Construction Activities Undertaken during the Next Reporting Period

Near Sung Wong Toi Exit D (W1)

- ELS
- On-site fabrication of Footbridge
- Pier construction works

Near Pak Tai Street (H2)

- ELS

## 2. INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by CRCC - CR15G (MTRC11286) JV. as the Environmental Team (Contractor's ET) to undertake the Environmental Monitoring and Audit (EM&A) programme during the construction phase of the MTR Shatin to Central Link (SCL) Contract No. 11286 – Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station (hereafter referred as the Works Contract).

### 2.1 PURPOSE OF THE REPORT

This is the 20<sup>th</sup> EM&A report which summarises the monitoring results and audit findings during the reporting period from 1 February 2025 to 28 February 2025.

### 2.2 STRUCTURE OF THE REPORT

Following this introductory section, the remainder of this Monthly EM&A Report is organised as follows:

- Section 2: **Project Information**
  - It summarises the background and scope of the Works Contract, site description, Works Contract's organisation and contact details, construction programme, construction works undertaken and status of the Environmental Permits/Licenses during the reporting period.
- Section 3: **Environmental Monitoring Requirement**
  - It summarises the monitoring parameters, programmes, methodologies, frequency, locations, Action and Limit Levels, Event /Action Plans.
- Section 4: **Implementation Status of the Environmental Protection Requirements**
  - It summarises the implementation of environmental protection measures during the reporting period.
- Section 5: **Monitoring Results**
  - It summarises the monitoring results obtained in the reporting period.
- Section 6: **Environmental Site Inspection**
  - It summarises the audit findings of the weekly site inspections undertaken within the reporting period.
- Section 7: **Environmental Non-conformance**
  - It summarises any monitoring exceedance, environmental complaints and summons within the reporting period.
- Section 8: **Upcoming Works for the Next Reporting Period**
  - It summarises the upcoming construction activities and monitoring schedule for the next reporting period.
- Section 9: **Conclusions**

- It provides the conclusion of this Monthly EM&A Report.

## 3 PROJECT INFORMATION

### 3.1 BACKGROUND

The SCL – Tai Wai to Hung Hom Section (hereafter referred to as SCL (TAW-HUH)) is an extension of the Ma On Shan Line (MOL), linking up with the West Rail Line at Hung Hom forming a strategic east-west rail corridor. It is a Designated Project under the *Environmental Impact Assessment Ordinance* (Cap. 499) (EIAO).

EIA Report for SCL (TAW-HUH) (Register No AEIAR-167/2012) was approved on 17 February 2012 under EIAO. Following the approval of the EIA Report for SCL (TAW-HUH), the Environmental Permit (EP) (EP No: EP-438/2012) was issued, subsequent Variation of Environmental Permit (VEP) was applied and the latest EP (EP No. EP-438/2012/L) was issued by Director of Environmental Protection (DEP) in August 2024.

As part of the SCL, a Pedestrian Link (P-Link) as a direct dedicated connectivity for the railway passengers and pedestrians crossing between the existing Sung Wong Toi (SUW) Station and Pak Tai Street will be constructed.

The EM&A programme during the construction phase of the Works Contract has been performed during the reporting period in accordance with the relevant EM&A requirements stipulated in the EM&A Manual for SCL (TAW-HUH) (hereafter referred to as the approved EM&A Manual). The construction of the Works Contract commenced on 17 July 2023.

### 3.2 GENERAL SITE DESCRIPTION

The Works Contract mainly comprises of two works areas, namely W1 and H2. W1 is the works area near the Exit D of the existing SUW Station, whereas H2 is the works area near Pak Tai Street. The works areas for the Works Contract are shown in **Appendix A**.

### 3.3 CONSTRUCTION PROGRAMME AND ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in **Table 3.1**. The construction programme is presented in **Appendix B**.

**TABLE 3.1 SUMMARY OF THE CONSTRUCTION ACTIVITIES UNDERTAKEN DURING THE REPORTING PERIOD**

#### Construction Activities Undertaken During the Reporting Period

##### Near Sung Wong Toi Exit D (W1)

- ELS
- On-site fabrication of Footbridge
- Pier construction works

##### Near Pak Tai Street (H2)

- Pumping Test
- Grout curtain works
- ELS



## Construction Activities Undertaken During the Reporting Period

### 3.4 WORKS CONTRACT ORGANIZATION

The Works Contract organizational chart and contact details are shown in **Appendix C**.

### 3.5 STATUS OF ENVIRONMENTAL LICENCES, NOTIFICATION AND PERMITS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Works Contract is presented in **Table 3.2**.

**TABLE 3.2 SUMMARY OF THE STATUS OF VALID ENVIRONMENTAL LICENCE, NOTIFICATION, PERMIT AND DOCUMENTATIONS**

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit	EP-438/2012/L	Throughout the Contract	Permit granted on 16 August 2024
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)	493887	-	-
Construction Noise Permit	GW-RE1435-24	03/12/2024 – 28/02/2025	Permit granted on 6 November 2024
	GW-RE1431-24	22/11/2024 – 21/05/2025	Permit granted on 7 November 2024
	GW-RE0075-25	01/02/2025 – 31/05/2025	Permit granted on 28 January 2025
Wastewater Discharge Licence (Near Sung Wong Toi Exit D (W1))	EP682/242/0586/1/472199	22/12/2023 – 31/12/2028	Permit granted on 22 January 2023
Wastewater Discharge Licence (Near Pak Tai Street (H2))	EP682/242/0587/1/473300	7/02/2024 – 28/02/2029	Permit granted on 7 February 2024
Chemical Waste Producer Licence	WPN 5213-242-C5040-01	-	-

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Billing Account for Disposal of Construction Waste	7048028	Throughout the Contract	-

## 4 ENVIRONMENTAL MONITORING REQUIREMENT

### 4.1 REGULAR CONSTRUCTION NOISE MONITORING

#### 4.1.1 MONITORING LOCATION

The proposed construction noise monitoring location for the construction phase of the Project, as recommended in the approved EM&A Manual, is listed in **Table 4.1** and shown in **Appendix D**. The proposed location has been agreed with the ER, EPD and IEC.

**TABLE 4.1 REGULAR CONSTRUCTION NOISE MONITORING LOCATION**

Monitoring Station	Description	Type of Measurement
NMS-CA-7 (a)	Skytower Tower 2 (at Podium Level)	Façade

**Note:**

Noise monitoring station with reference to the *SCL (TAW-HUH) Baseline Monitoring Report for Works Contract 1109 – To Kwa Wan and Ma Tau Wai Stations and Tunnels, July 2012*.

#### 4.1.2 MONITORING PARAMETER AND FREQUENCY

Weekly construction noise monitoring was conducted in accordance with the requirements stipulated in the approved EM&A Manual. If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed. The monitoring schedule for this reporting period is shown in **Appendix E**.

The construction noise levels were measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{Aeq}$ ) in decibels dB(A).  $L_{Aeq}$  (30min) was used as the monitoring metric for the time period between 0700 – 1900 hours on normal weekdays. The measured noise levels were logged every 5 minutes throughout the monitoring period.

#### 4.1.3 MONITORING EQUIPMENT AND METHODOLOGY

Construction noise monitoring was performed using sound level meter at the designated monitoring station NMS-CA-7. Construction noise measurements were conducted in accordance with the calibration and measurement procedures as stated in *Annex – General Calibration and Measurement Procedures of Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM)* issued under the *Noise Control Ordinance (NCO)* (Cap 400).

The sound level meter and calibrator used for the noise measurement, as listed in **Table 4.2**, comply with the IEC 651: 1979 and 804:1985 (Type 1) specification. The calibration

certificates of the sound level meter and sound level calibrator are presented in **Appendix F**.

**TABLE 4.2 NOISE MONITORING EQUIPMENT**

Monitoring Station	Noise Monitoring Equipment
NMS-CA-7	Sound Level Meter – Rion NL-52 (00643049) Precision Acoustic Calibrator – Larson Davis CAL200 (16878)

Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency.

Measurements were accepted when the calibration level from before and after the noise measurement agreed to be within 1.0 dB(A).

#### 4.1.4 ACTION AND LIMIT LEVELS

The Action and Limit Levels are presented in **Table 4.3** and the Event / Action Plan for construction noise monitoring is presented in **Appendix G**.

**TABLE 4.3 ACTION AND LIMIT LEVELS FOR CONSTRUCTION NOISE MONITORING**

Time Period	Monitoring Location	Action Level	Limit Level
0700-1900 hours on normal weekdays	NMS-CA-7	When one documented valid complaint is received	75 dB(A)

**Note:**

- (a) If works are to be carried out during restricted hours (ie, outside 0700 – 1900 from Monday to Saturday), the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

## 4.2 CONSTRUCTION DUST MONITORING

### 4.2.1 MONITORING LOCATION

The proposed dust monitoring station for the construction phase of the Project, as recommended in the approved EM&A Manual, is listed in **Table 4.4** and shown in **Appendix D**. The proposed location has been agreed with the ER, EPD and IEC.

**TABLE 4.4 CONSTRUCTION DUST MONITORING LOCATION**

Monitoring Station	Description
DMS-7	Skytower Tower 2 (podium level) (a)

**Note:**

Dust monitoring station proposed as DMS-7 in the approved EM&A Manual for SCL (TAW-HUH).

#### 4.2.2 MONITORING PARAMETER AND FREQUENCY

TSP monitoring was conducted in a frequency of once every 6 days throughout the reporting period. The monitoring schedule for this reporting period is shown in **Appendix E**.

#### 4.2.3 MONITORING EQUIPMENT

High volume sampler was used to measure 24-hour TSP levels respectively at the designated monitoring station. The equipment used for the construction dust monitoring is listed in **Table 4.5**.

**TABLE 4.5 CONSTRUCTION DUST MONITORING EQUIPMENT**

Monitoring Station	Dust Monitoring Equipment
DMS-7	High Volume Sampler – Tisch Environmental – TE-5170 (3958)

#### 4.2.4 MONITORING METHODOLOGY

The measuring preparation and procedures of the 24-hour TSP HVS are as follows:

##### *Preparation of Filter Papers*

- Glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected;
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not varied by more than 3°C; the relative humidity (RH) was 40%; and
- SGS Hong Kong Ltd, a HOKLAS accredited laboratory, implemented comprehensive quality assurance and quality control programmes on the filters.

##### *Field Monitoring*

- Power supply was checked to ensure that the HVSs were working properly;
- Filter holder and area surrounding the filter were cleaned;
- Filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- Filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- Swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- Shelter lid was closed and secured with an aluminium strip;
- HVS was warmed-up for about 5 minutes to establish run-temperature conditions;
- A new flow rate record sheet was inserted into the flow recorder;
- Flow rates of the HVSs were checked and adjusted to between 1.22 - 1.37 m<sup>3</sup>min<sup>-1</sup>, which was within the range specified in the EM&A Manual (i.e. 0.6 - 1.7 m<sup>3</sup>min<sup>-1</sup>);
- Programmable timer was set for a sampling period of 24 hours ± 1 hour, and the starting time, weather condition and filter number were recorded;

- Initial elapsed time was recorded;
- At the end of sampling, the sampled filter was removed carefully and folded in half so that only surfaces with collected particulate matter were in contact;
- Filter paper was placed in a clean plastic envelope and sealed;
- All monitoring information was recorded on a standard data sheet; and
- Filters were sent to SGS Hong Kong Ltd for analysis.

### *Maintenance and Calibration*

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

### *4.2.5 WIND DATA MONITORING*

Wind data (wind speed and direction) at the Kai Tak meteorological station during the monitoring period were obtained from the Hong Kong Observatory (HKO) and presented in **Appendix K**.

### *4.2.6 ACTION AND LIMIT LEVELS*

The Action and Limit levels have been established and are presented in Error! Reference source not found.. The Event / Action Plan for dust monitoring is presented in **Appendix G**.

**TABLE 4.6 ACTION AND LIMIT LEVELS FOR CONSTRUCTION DUST MONITORING**

Monitoring Location	Parameter	Action Level, $\mu\text{g}/\text{m}^3$ (a)	Limit Level, $\mu\text{g}/\text{m}^3$
DMS-7	24-Hour TSP	166.7	260

**Note:**

- (a) Reference to SCL (TAW-HUH) Baseline Monitoring Report for Works Contract 1109 – To Kwa Wan and Ma Tau Wai Stations and Tunnels, July 2012.

## *4.3 CULTURE HERITAGE*

In accordance with the approved EM&A Manual, appropriate vibration monitoring on the identified built heritage shall be agreed with the Building Department (BD)/Geotechnical Engineering Office (GEO) under the requirement of Buildings Ordinance as appropriate. Vibration levels shall be controlled to appropriate levels. Vibration monitoring shall be carried out by the Contractor.

As foundation works were undertaken, vibration monitoring was conducted by the Contractor at designated monitoring locations during the reporting period. No non-compliance was recorded.

#### 4.4 LANDSCAPE AND VISUAL MITIGATION MEASURES

In accordance with the approved EM&A Manual, the landscape and visual mitigation measures shall be implemented and site inspection shall be conducted once every two weeks throughout the construction period. The implementation status is given in **Appendix H**.

## 5 IMPLEMENTATION STATUS OF THE ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has implemented all the environmental mitigation measures and requirements as stated in the approved EIA Report, EP, approved EM&A Manual. The implementation status of the environmental mitigation measures for this Works Contract during the reporting period is summarised in **Appendix H**. The status of the required submissions under the EP for this Works Contract during this reporting period is presented in **Table 5.1**.

**TABLE 5.1 STATUS OF REQUIRED SUBMISSION UNDER THE WORKS CONTRACT DURING THE REPORTING PERIOD**

EP Condition	Submission	Submission Date
3.4	Monthly EM&A Report (January 2025)	14 February 2025

## 6 MONITORING RESULTS

### 6.1 REGULAR CONSTRUCTION NOISE MONITORING

Construction noise monitoring was carried out at the monitoring station during normal weekdays of the reporting period. The monitoring results together with their graphical presentations are presented in **Appendix I** and a summary of the construction noise monitoring results in this reporting period is given in **Table 6.1**.

**TABLE 6.1 SUMMARY OF THE CONSTRUCTION NOISE MONITORING RESULTS DURING THE REPORTING PERIOD**

Monitoring Station	Noise Monitoring Results		Limit Level
	Average (dB(A), $L_{eq}$ (30mins))	Range (dB(A), $L_{eq}$ (30mins))	dB(A), $L_{eq}$ (30mins)
NMS-CA-7	68.5	66.6-69.7	75

No exceedance of the Action and Limit Levels of construction noise was recorded during the reporting period.

### 6.2 CONSTRUCTION DUST MONITORING

Construction dust monitoring, in terms of 24-hour TSP level, was carried out at the designated monitoring station during the reporting period. The monitoring results together with their graphical presentations are presented in **Appendix J** and a summary of the construction dust monitoring results in this reporting period is given in **Table 6.2**.

**TABLE 6.2 SUMMARY OF THE CONSTRUCTION DUST MONITORING RESULTS DURING THE REPORTING PERIOD**

Monitoring Station	Parameter	TSP Monitoring Results ( $\mu\text{gm}^{-3}$ )		Action Level	Limit Level
		Average ( $\mu\text{gm}^{-3}$ )	Range ( $\mu\text{gm}^{-3}$ )	( $\mu\text{gm}^{-3}$ )	( $\mu\text{gm}^{-3}$ )
DMS-7	24-hour TSP	49.6	23-93	166.7	260

No exceedance of the Action and Limit Levels of construction noise was recorded during the reporting period.

### 6.3 CULTURAL HERITAGE

As foundation works were undertaken, vibration monitoring was conducted by the Contractor at designated monitoring locations during the reporting period. No non-compliance was recorded.

### 6.4 WASTE MANAGEMENT

The waste generated from this Works Contract generally includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and



paper/cardboard packaging waste. The amount of waste generated during the reporting period are summarised in **Table 6.3**. Details of waste management data are presented in **Appendix L**.

**TABLE 6.3 QUANTITIES OF WASTE GENERATED FROM THE WORKS CONTRACT**

Reporting Period	Quantity					
	Inert C&D Materials	Chemical Waste	Non-inert C&D Materials			
			General Refuse/ Vegetative Waste	Recycled materials		
				Paper/ cardboard	Plastics	Metals
February 2025	2,100m <sup>3</sup>	0 kg	20 kg	0 kg	0 kg	0 kg

## 6.5 LANDSCAPE AND VISUAL MITIGATION MEASURES

Bi-weekly inspection of the implementation of landscape and visual mitigation measures was conducted on 13 and 27 February 2025. Relevant mitigation measures given in **Appendix H** have been implemented. Required actions that were found are listed below:

### *13 February 2025*

There was no major observation during the site inspection.

### *27 February 2025*

There was no major observation during the site inspection.

## 7 ENVIRONMENTAL SITE INSPECTION

Joint weekly site inspections were conducted by representatives of the Contractor, Engineer and Contractor's ET on 6, 13, 20 and 27 February 2025. The representative of the IEC joined the site inspection on 20 February 2025. No non-compliance was recorded during the site inspections. Findings and recommendations for the site inspection in this reporting month are summarised below:

### *6 February 2025*

- The Contractor is reminded to provide access to the sewage treatment plant in the main site

### *13 February 2025*

- The Contractor is reminded to store the chemicals in bunded area/with drip tray.

### *20 February 2025*

- The Contractor is reminded to provide proper container to store the wastewater from concrete mixing in the main site
- The Contractor is reminded to provide access to the cultural heritage site in the main site.
- The Contractor is reminded to store the hydraulic breaker in bunded area to prevent leakage in the main site.
- The Contractor is reminded to review and provide additional noise barrier, if necessary, in H2-Pak Tai Street.

### *27 February 2025*

- The Contractor is reminded to clear the accumulated silt from the filter covering the manhole in H2-Pak Tai Street
- The Contractor is reminded to water the exposed area thoroughly to avoid dust generation in the main site

## 8 ENVIRONMENTAL NON-COMPLIANCE

### 8.1 SUMMARY OF MONITORING EXCEEDANCE

No exceedance of the Action and Limit Levels of the construction noise was recorded during the reporting period.

No exceedance of the Action and Limit Levels of construction dust monitoring was recorded during the reporting period.

### 8.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was recorded during the reporting period.

### 8.3 SUMMARY OF ENVIRONMENTAL COMPLIANT

No environmental complaint was received during this reporting period. The cumulative environmental complaint log is shown in **Appendix M**.

### 8.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summon or prosecution was received during the reporting period. The cumulative summon/prosecution log is shown in **Appendix M**.

## 9 UPCOMING WORKS FOR THE NEXT REPORTING PERIOD

### 9.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

Works to be undertaken in the next reporting period are summarised in **Table 8.1**.

**TABLE 9.1 CONSTRUCTION ACTIVITIES TO BE UNDERTAKEN DURING THE NEXT REPORTING PERIOD**

#### Construction Activities Undertaken during the Next Reporting Period

Near Sung Wong Toi Exit D (W1)

- ELS
- On-site fabrication of Footbridge
- Pier construction works

Near Pak Tai Street (H2)

- ELS

### 9.2 MONITORING SCHEDULE FOR THE NEXT MONTH

The tentative schedule of construction noise monitoring and construction dust monitoring in the next reporting period is presented in **Appendix E**.

### 9.3 CONSTRUCTION PROGRAMME FOR THE NEXT MONTH

The construction programme for the Project for the next reporting period is presented in **Appendix B**.

## 10 CONCLUSIONS

This is the 20th EM&A Report presenting the EM&A works undertaken during the period from 1 February 2025 to 28 February 2025 in accordance with the approved EM&A Manual, the requirements under Environmental Permit EP-438/2012/L.

No exceedance of the Action and Limit Levels of the construction noise was recorded during the reporting period.

No exceedance of the Action and Limit Levels of construction dust monitoring was recorded during the reporting period.

No non-compliance event was recorded during the reporting period.

No environmental complaint was received during this reporting period.

No summon or prosecution was received during the reporting period.

The Contractor has implemented possible and feasible mitigation measures to mitigate the potential environmental impacts during construction. The Contractor's ET will continue to keep track of the EM&A programme to ensure compliance of environmental requirements and the effectiveness and efficiency of the mitigation measures implemented. If necessary, the Contractor will provide more mitigation measures to further alleviate the impacts.



## APPENDIX A SITE LAYOUT PLAN FOR THE WORKS CONTRACT

**Legend**

Site Boundary

**W1 - Near SUW Station Exit**

**H2 - Near Pak Tai Street**

0 25 50 75 100 m

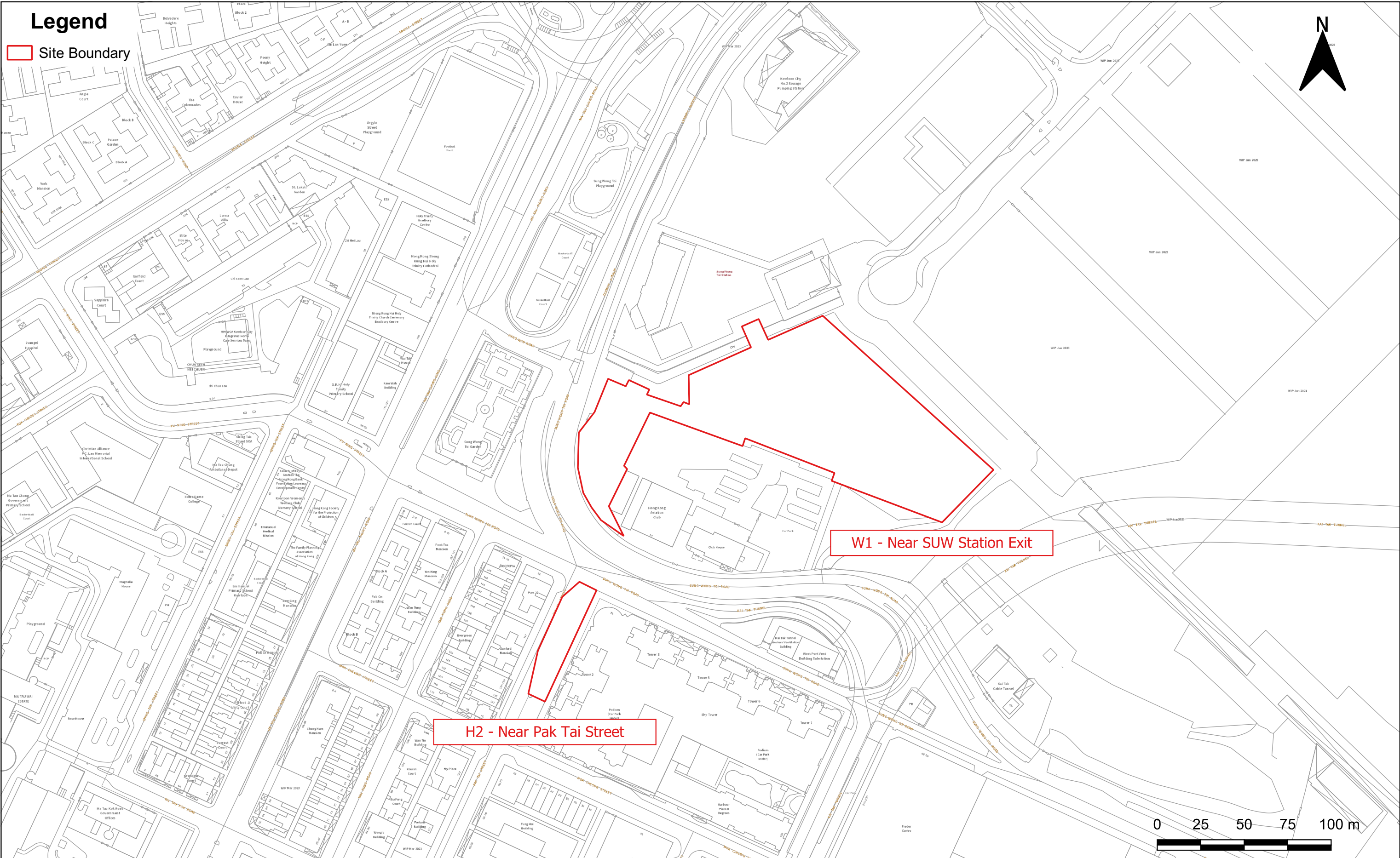
**Legend**

Site Boundary

**W1 - Near SUW Station Exit**

**H2 - Near Pak Tai Street**

0 25 50 75 100 m



**Legend**

Site Boundary

**W1 - Near SUW Station Exit**

**H2 - Near Pak Tai Street**

0 25 50 75 100 m

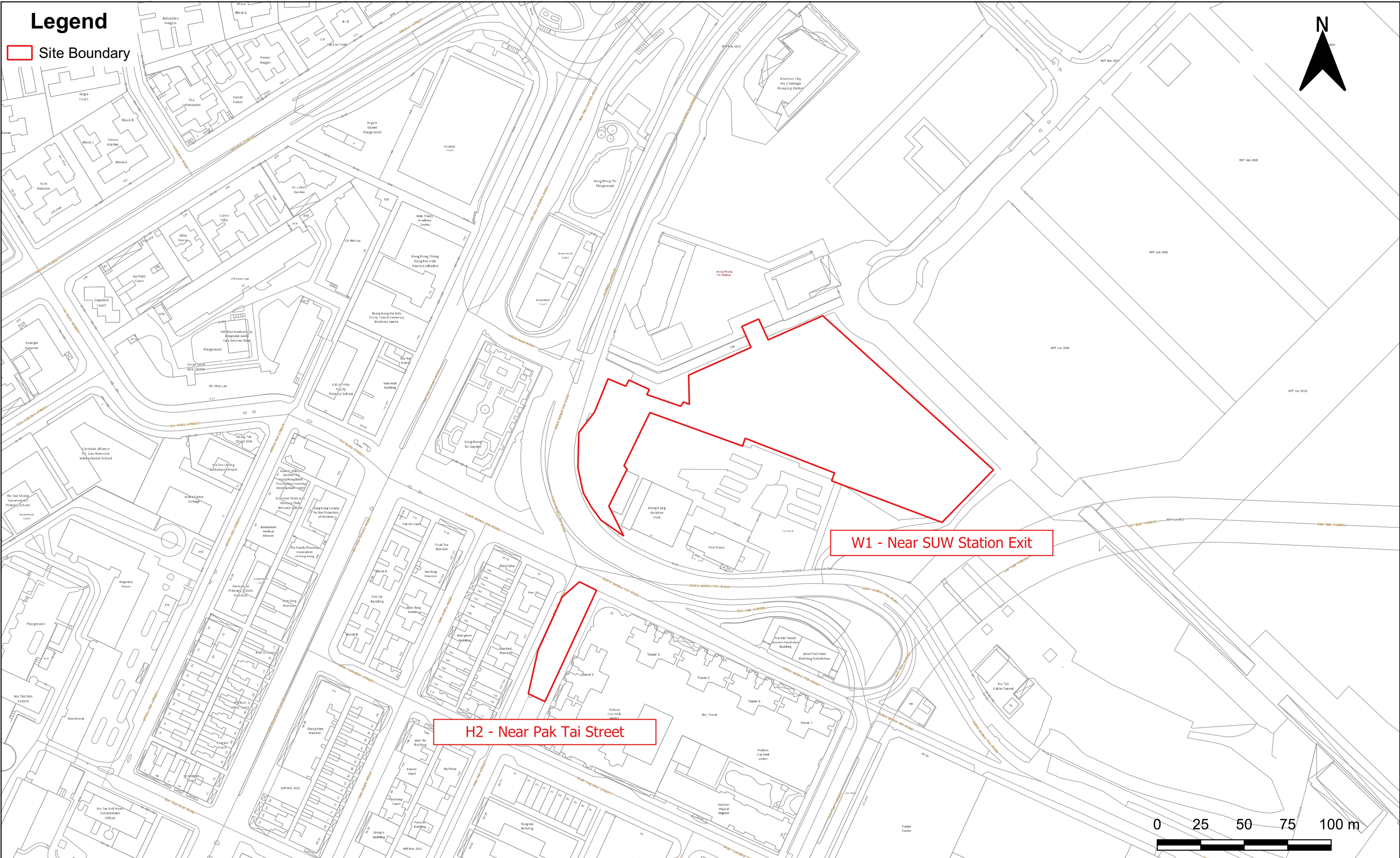
**Legend**

Site Boundary

**W1 - Near SUW Station Exit**

**H2 - Near Pak Tai Street**

0 25 50 75 100 m



# Appendix A

## Site Layout Plan for the Works Contract No. 11286

File: P:\Projects\0699635 Paul Y SCL C11286 ET.CH\08 GIS\11286.qgz  
Date: 8/7/2023

# Appendix A

## Site Layout Plan for the Works Contract No. 11286

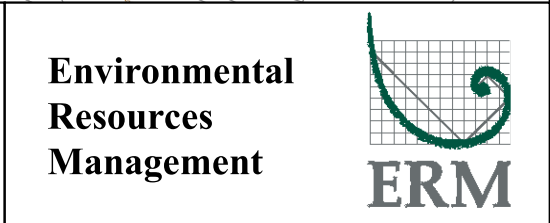
File: P:\Projects\0699635 Paul Y SCL C11286 ET.CH\08 GIS\11286.qgz  
Date: 8/7/2023

# Appendix A

## Site Layout Plan for the Works Contract No. 11286

File: P:\Projects\0699635 Paul Y SCL C11286 ET.CH\08 GIS\11286.qgz  
Date: 8/7/2023

**Environmental  
Resources  
Management**







## APPENDIX B CONSTRUCTION PROGRAMME FOR THE REPORTING MONTH AND COMING MONTHS

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish	2025					
					Feb 21	Mar 22	Apr 23	May 24	Jun 25	Jul 26
CONTRACT 11286 DP-2501B Feb 2025 Update										
CONTRACT DATES										
Completion										
11286-#PD-01010	Duration for the Sectional Completion	755	12-Jun-23 A	25-Mar-27						
11286-#PD-01025	Duration for the whole of the Works	815	12-Jun-23 A	24-May-27						
Programme Summary (calendar days)										
11286-#PO-01300	Approach Lobby - Excavation	218	10-Jan-25 A	04-Oct-25						
11286-#PO-01320	Approach Lobby - Pier P1	213	10-Jan-25 A	29-Sep-25						
11286-#PO-01380	Entrance C - Excavation	109	04-Feb-25 A	17-Jun-25						
11286-#PO-01440	Footbridge - Remaining Pier P2 and P3	88	03-Feb-25 A	27-May-25						
11286-#PO-01450	Footbridge - Remaining Segment Fabrication and Lifting	275	11-Apr-25	10-Jan-26						
11286-#PO-01460	Footbridge - RC Deck Including MEP and AWF	602	23-Apr-25	15-Dec-26						
Cost Centre A: PRELIMINARIES, EDOC and STATUTORY SUBMISSION and APPROVAL										
Management Plan Submission Schedule										
TTMS Scheme for the Whole of the Works to be submitted (Ref: S240.2.3)										
11286-#MP-01750	Prepare and Submit TTMS Scheme for the Temp tower at central median (Start within 4-weeks)	18	22-Aug-23 A	21-Mar-25						
11286-#MP-01760	SLG Review and Acceptance of TTMS Scheme for the Temp tower at central median	18	22-Aug-23 A	12-Apr-25						
Digital Construction Site Management System (DCSMS) (Ref: S815.4.3)										
11286-#MP-01940	Establish, Training and Trials of Digital Construction Site Management System	10	06-Sep-23 A	12-Mar-25						
Design, Review and Approvals										
Temporary Works Design (Required BD Submission)										
Approach Lobby - Concourse Hoarding Design Submission and Approvals										
11286-DES-02060	Concourse Hoarding Design - MTR (2nd) Review - (Phase 2)	21	01-Mar-25	25-Mar-25						
11286-DES-02070	Concourse Hoarding Design - MTR Endorsement for SSCC Submission - (Phase 2)	7	26-Mar-25	02-Apr-25						
11286-DES-02080	Concourse Hoarding Design - SSCC Review and Consultation - (Phase 2)	28	03-Apr-25	12-May-25						
External Cladding (Aluminum / Glass Wall) Design Submission and Approvals										
11286-DES-02492	Framed Glass Wall (EntC and AL) Design - Prepare and Submit	21	01-Mar-25	25-Mar-25						
11286-DES-02493	Framed Glass Wall (EntC and AL) Design - MTR (1st) Review	21	26-Mar-25	23-Apr-25						
11286-DES-02494	Framed Glass Wall (EntC and AL) Design - Revised and Re-submit	7	24-Apr-25	02-May-25						
11286-DES-02495	Framed Glass Wall (EntC and AL) Design - MTR Endorsement for BD Submission	21	03-May-25	28-May-25						
11286-DES-02496	Framed Glass Wall (EntC and AL) Design - BD Review and Consultation	7	29-May-25	06-Jun-25						
External Aluminum Louvres / Doors Design Submission and Approvals										
11286-DES-02500	External Aluminum Louvres, Doors Design - Prepare and Submit ICE Check	21	01-Mar-24 A	25-Mar-25						
11286-DES-02510	External Aluminum Louvres, Doors Design - MTR (1st) Review	21	26-Mar-25	23-Apr-25						
11286-DES-02520	External Aluminum Louvres, Doors Design - Revised and Re-submit	7	24-Apr-25	02-May-25						
11286-DES-02530	External Aluminum Louvres, Doors Design - MTR (2nd) Review	21	03-May-25	28-May-25						
11286-DES-02540	External Aluminum Louvres, Doors Design - MTR Endorsement for BD Submission	7	29-May-25	06-Jun-25						
Temporary Works Design (Non-BD Submission)										
Traffic Deck Over Archeological Zone Design & ICE Check										
11286-DES-02840	Traffic Deck Over Arch Zone - PM Endorsement	14	01-Mar-25	17-Mar-25						
Temporary Bridge Tower Design & ICE Check										
11286-DES-02870	Temporary Bridge Tower Design - Revised and Re-submit	7	01-Aug-24 A	08-Mar-25						
11286-DES-02880	Temporary Bridge Tower Design - PM (2nd) Review	9	15-Aug-24 A	11-Mar-25						
11286-DES-02890	Temporary Bridge Tower Design - PM Endorsement	10	21-Aug-24 A	05-Apr-25						
BIM Preparation and Submission										
11286-DES-03400	BIM preparation for BS BOH works before breakthrough	15	04-Dec-23 A	18-Mar-25						
BS Submission and Approval										
11286-DES-03411B	BS Drawing Submission (100%)	22	31-Aug-24 A	27-Mar-25						
11286-DES-03413B	BS Drawing Approval (100%)	22	31-Aug-24 A	27-Mar-25						
11286-DES-03420	BS Design Submission and Approval	71	01-Mar-24 A	29-May-25						
11286-DES-03430	BS Material Submission	71	23-Jan-24 A	29-May-25						
11286-DES-03431	BS Material Submission Approval	71	23-Jan-24 A	22-Aug-25						
11286-DES-03440	BS Sample Board Submission and Approval	50	27-Apr-24 A	22-Aug-25						
MCS and SBSCS Interface Submission										
11286-DES-3450	BS Interface Plan Submission and Approval	71	30-Jan-24 A	22-Aug-25						
11286-DES-3460	BS Detailed Interface Specification (DIS) Submission and Approval	70	14-May-24 A	28-May-25						
11286-DES-3470	BS Detailed Interface Testing Plan (DITP) Submission and Approval	23	19-Mar-24 A	27-Mar-25						

◆ Milestone

Overall Summary Bar

Critical Bar

Non-Critical Bar

Actual Work

MTR 11286 Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station

3 Months Rolling Programme (Mar to May 2025)

(Extract from DP-2501B - Programme Update - DD 28-2-2025)

(1 of 6)

CRCHK-CR15G JV

Date	Revision	Checked	Approved
03-Mar-25	DP-2501B Feb 2025 Prog Upd		



Activity ID	Activity Name	Rem Dur	Early Start	Early Finish	2025					
					Feb	Mar	Apr	May	Jun	Jul
					21	22	23	24	25	26
Building Services Procurement, Manufacture and Delivery (Long Lead Equipment)										
Subletting for Plumbing & Drainage (P & D), Material Ordering, Fabrication and Delivery										
11286-PRC-04270	Plumbing & Drainage (P & D) Material (Sump Pumps) - Fabrication	44	31-Jul-24 A	13-Apr-25						
11286-PRC-04272	Plumbing & Drainage (P & D) Material (Sump Pumps) - Delivery	30	14-Apr-25	13-May-25						
Subletting for ECS (MVAC), Material Ordering, Fabrication and Delivery										
11286-PRC-04290	ECS Material (SEF) - Fabrication	180	01-Mar-25	27-Aug-25						
Subletting for Electrical, Material Ordering, Fabrication and Delivery										
11286-PRC-04300	Electrical Materials - Order Placement	30	01-Mar-25	30-Mar-25						
11286-PRC-04310	Electrical Materials - Fabrication	90	31-Mar-25	28-Jun-25						
Subletting for Fire Services (FS), Material Ordering, Fabrication and Delivery										
11286-PRC-04320	Fire Services (FS) Material - Order Placement	30	01-Mar-25	30-Mar-25						
11286-PRC-04330	Fire Services (FS) Material - Fabrication	30	31-Mar-25	29-Apr-25						
11286-PRC-04331	Fire Services (FS) Material - Delivery	30	30-Apr-25	29-May-25						
Subletting for ELV, Material Ordering, Fabrication and Delivery										
11286-PRC-04340	ELV Material - Order Placement	30	01-Mar-25	30-Mar-25						
11286-PRC-04350	ELV Material - Fabrication	30	31-Mar-25	29-Apr-25						
11286-PRC-04351	ELV Material - Delivery	15	30-Apr-25	14-May-25						
Subletting for Lift (2-nos) and Escalators (4-nos), Materials for Building Services Works										
11286-PRC-04400	E&M Lift & Escalators: Ordering and PO Issuance	7	01-Mar-25	07-Mar-25						
11286-PRC-04402B	E&M Lift & Escalators: Shop drawings and Materials Submission ( (100%)	7	15-Mar-25	21-Mar-25						
11286-PRC-04402C	E&M Lift & Escalators: Shop drawings approval (50%)	7	22-Mar-25	28-Mar-25						
11286-PRC-04402D	E&M Lift & Escalators: Shop drawings approval (100%)	7	29-Mar-25	04-Apr-25						
11286-PRC-04404	E&M Lift & Escalators: Shop drawings and Materials preparation (100%)	7	08-Mar-25	14-Mar-25						
11286-PRC-04405	E&M Lift & Escalators: Materials approval (50%)	7	22-Mar-25	28-Mar-25						
11286-PRC-04406	E&M Lift & Escalators: Materials approval (100%)	7	29-Mar-25	04-Apr-25						
11286-PRC-04410	E&M Lift: Fabrication	135	05-Apr-25	17-Aug-25						
11286-PRC-04411	E&M Escalators: Fabrication	135	05-Apr-25	17-Aug-25						
Maintain and Operate Project Managers Accommodation										
Operation / Maintenance (40% to 60%)										
11286-MOB-04500	Operation / Maintenance (40% to 60%)	738	22-Nov-23 A	08-Mar-27						
Provisional Items for PM										
Provision of Site Transportation										
11286-MOB-04512	Provision of Site Transportation with Drivers for (Maintain & Operate)	600	28-Jun-23 A	06-Mar-27						
Provision of Telephone, IT Facilities and PABX System Services										
11286-MOB-04514	Provision of Telephone, IT Facilities and PABX System Services for PM (Maintain & Operate)	599	29-Jun-23 A	05-Mar-27						
Provision of Survey Equipment and Facilities										
11286-MOB-04516	Provision of Survey Equipment and Facilities for PM (Maintain and Operate)	599	28-Jun-23 A	05-Mar-27						
Supply, erect and remove on completion - Office, Lab, Cabins, Store and workshop, Canteen										
11286-MOB-04517	Supply, erect and remove on completion - Office, Lab, Cabins, Store & workshop, Canteen	1	17-Jul-23 A	01-Mar-25						
11286-MOB-04518	Supply, erect and remove on completion - Office, Lab, Cabins, Store & workshop, Canteen (Maintain and Operate)	593	22-Aug-23 A	27-Feb-27						
Supply, erect and remove on completion - Electricity & Water Supply, Site communication facilities										
11286-MOB-04520	Supply, erect & remove on completion - Electricity & Water Supply, Site comm facilities for PM (Maintain and Operate)	589	28-Jun-23 A	22-Feb-27						
Provision of General Items - Contractor Requirements - Worker's Uniform & Employment of Trade Worker										
11286-MOB-04521	Provision of General Items - Worker's Uniform & Employment of Trade Worker (BQ A900.2-A900.5)	591	26-Jun-23 A	24-Feb-27						
Provision of General Items - Other Specified Requirements A790.1-A790.41)										
11286-MOB-04523	Provision of General Items - Other Specified Requirements A790.1-A790.41) for PM (Maintain and Operate)	588	28-Jun-23 A	20-Feb-27						
Provision of Partnering (S1010.1)										
11286-MOB-04524	Provision of Partnering (S1010.1) (Completion Date + 52 Weeks)	551	14-Nov-23 A	08-Jan-27						
Provision of NEC4 ECC External Facilitator (S1010.2)										
11286-MOB-04525	Provision of NEC4 ECC External Facilitator (S1010.2)	588	19-Dec-24 A	20-Feb-27						
Contractors Superintendence										
11286-MOB-04526	Contractors Superintendence	587	23-Jun-23 A	19-Feb-27						
Optional Works (By Main Contractor's)										
Option 1: Maintenance and Operation of Hung Hom Site Office (HUHSO)										
11286-MOB-04527	Maintenance and Operation of Hung Hom Site Office (HUHSO) (17-Months)	691	19-Dec-24 A	20-Jan-27						
Cost Centre B: FOOTBRIDGE PIER 1 to 4 (HKAC & Sung Wong Toi Road)										

◆ Milestone

Overall Summary Bar

Critical Bar

Non-Critical Bar

Actual Work

MTR 11286 Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station

3 Months Rolling Programme (Mar to May 2025)

(Extract from DP-2501B - Programme Update - DD 28-2-2025)

(3 of 6)

CRCHK-CR15G JV

Date

03-Mar-25

Revision

DP-2501B Feb 2025 Prog Upd

Checked

Approved



Activity ID	Activity Name	Rem Dur	Early Start	Early Finish	2025					
					Feb	Mar	Apr	May	Jun	Jul
					21	22	23	24	25	26
Site Clearance & Mobilization & Establishment										
11286-MOB-04600	Street lamp posts relocation at Sung Wong Toi Road (Stage 1)	25	27-Jul-24 A	29-Mar-25			Street lamp posts relocation at Sung Wong Toi Road (Stage 1)			
11286-MOB-04610	Implement TTMS, Before Construction of Temp Support Tower at SUW Toi Road	7	11-Jul-24 A	08-Apr-25			Implement TTMS, Before Construction of Temp Support Tower at SUW Toi Road			
11286-MOB-04625t	Instrumentation Monitoring (FB, Mar-25)	26	01-Mar-25	31-Mar-25			Instrumentation Monitoring (FB, Mar-25)			
11286-MOB-04625u	Instrumentation Monitoring (FB, Apr-25)	22	01-Apr-25	30-Apr-25			Instrumentation Monitoring (FB, Apr-25)			
11286-MOB-04625v	Instrumentation Monitoring (FB, May-25)	24	02-May-25	30-May-25				Instrumentation Monitoring (FB, May-25)		
Columns & Pier Construction										
Trial Panel Works										
11286-CON-A1013b	Trial Panel Works	18	23-Oct-24 A	21-Mar-25		Trial Panel Works				
Pier P3 Works										
Preparation for & Erection of Segments 4&5 + Backfill Works										
11286-CON-A1013h	Removal of Temporary Backfilling	3	22-Mar-25	25-Mar-25		Removal of Temporary Backfilling				
Pier P3 - RC Works,Curing & Backfill										
Pier P3 - Misc. Works / Bearing Works										
11286-CON-A1022e	Pier 3 - Backfilling	4	25-Mar-25	31-Mar-25		Pier 3 - Backfilling				
Pier P2 Works										
Pier P2 - RC Works,Curing & Backfill										
Pier P2 - Pier Column & Pier Head										
11286-CON-A1054	Pier 2 - Working Platform	6	25-Mar-25	01-Apr-25		Pier 2 - Working Platform				
11286-CON-A1056	Pier 2 - Steel Formwork Installation	8	01-Apr-25	11-Apr-25		Pier 2 - Steel Formwork Installation				
11286-CON-A1056a	Pier 2 - Rebar Fixing for Pier Head	7	11-Apr-25	23-Apr-25		Pier 2 - Rebar Fixing for Pier Head				
11286-CON-A1056b	Pier 2 - Rebar Inspection	1	23-Apr-25	24-Apr-25		Pier 2 - Rebar Inspection				
11286-CON-A1058	Pier 2 - Casting Pier 2	1	24-Apr-25	24-Apr-25		Pier 2 - Casting Pier 2				
11286-CON-A1059	Pier 2 - Curing of Pier 2	14	24-Apr-25	13-May-25		Pier 2 - Curing of Pier 2				
11286-CON-A1059a	Pier 2 - Formwork Dismantling & Cleaning / Prepare for bearing Installation	3	13-May-25	16-May-25		Pier 2 - Formwork Dismantling & Cleaning / Prepare for bearing Installation				
Pier 2 - Misc. Works / Bearing Works										
11286-CON-A1060	Pier 2 - Installation of Bearing at PC2	9	16-May-25	27-May-25		Pier 2 - Installation of Bearing at PC2				
11286-CON-A1061	Pier 2 - Backfilling	4	16-May-25	21-May-25		Pier 2 - Backfilling				
FootBridge Structure										
(Advance Works) FootBridge Erection for Temporary Support Towers										
Construction of Temporary Support Towers										
T7										
11286-CON-14885a	Temporary Support Tower T7 - Construct RC Footing	10	21-May-25	03-Jun-25			Temporary Support Tower T7 - Construct RC Footing			
T8										
11286-CON-14884a	Temporary Support Tower T8 - Construct RC Footing	10	21-May-25	03-Jun-25			Temporary Support Tower T8 - Construct RC Footing			
Segments 1 and 2 (Fabrication & Erection)										
Segments 1 & 2 - Fabrication& Erection										
Fabrication + Prepare for Erection										
11286-CON-14900a	On-site Prefabrication & Assembly (installation & weld) for Footbridge Segment 1 & 2 (25%)	7	11-Apr-25	23-Apr-25		On-site Prefabrication & Assembly (installation & weld) for Footbridge Segment 1 & 2 (25%)				
11286-CON-14900b	On-site Prefabrication & Assembly (installation & weld) for Footbridge Segment 1 & 2 (50%)	7	23-Apr-25	02-May-25		On-site Prefabrication & Assembly (installation & weld) for Footbridge Segment 1 & 2 (50%)				
11286-CON-14900c	On-site Prefabrication & Assembly (installation & weld) for Footbridge Segment 1 & 2 (75%)	7	02-May-25	12-May-25		On-site Prefabrication & Assembly (installation & weld) for Footbridge Segment 1 & 2 (75%)				
11286-CON-14901	On-site Prefabrication & Assembly (welding and testing) for Footbridge Segment 1 & 2	25	12-May-25	11-Jun-25		On-site Prefabrication & Assembly (welding and testing) for Footbridge Segment 1 & 2				
Footbridge - Box Frame Structure (Segment 1-4)										
Segment 3										
Segment 3 - Install Scaffolding										
11286-CON-34989	Erection of Scaffolding for Low & High Zone Installation for Footbridge Segment 3	28	10-May-25	12-Jun-25		Erection of Scaffolding for Low & High Zone Installation for Footbridge Segment 3				
Segment 4										
Segment 4 - Lifting & Erect Scaffold										
11286-CON-44941	Footbridge (Segment 4) - FRP Touch Up for connection (Day-Time)	12	09-Apr-25	25-Apr-25		Footbridge (Segment 4) - FRP Touch Up for connection (Day-Time)				
11286-CON-44942	Erection of Scaffolding for Low & High Zone Installation for Footbridge Segment 4	10	26-Apr-25	09-May-25		Erection of Scaffolding for Low & High Zone Installation for Footbridge Segment 4				
Segment 4 - Roof & Ceiling Level										
11286-CON-44904a	ABWF Access Date for Footbridge Segment 4	0	10-May-25			ABWF Access Date for Footbridge Segment 4				
11286-CON-44905	Install Top Subframe with Cladding & Lightning brackets for Footbridge Segment 4	14	10-May-25	26-May-25		Install Top Subframe with Cladding & Lightning brackets for Footbridge Segment 4				
11286-CON-44905a	Handover to MEP for Footbridge Segment 4	1	27-May-25	27-May-25		Handover to MEP for Footbridge Segment 4				
11286-CON-44991	Installation of MEP Services for Footbridge Segment 4	21	28-May-25	21-Jun-25		Installation of MEP Services for Footbridge Segment 4				
Footbridge - Deck Frame Structure (Segment 5-10 & 11)										
Segment 5										

◆ Milestone

Overall Summary Bar

Critical Bar

Non-Critical Bar

Actual Work

MTR 11286 Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station

3 Months Rolling Programme (Mar to May 2025)

(Extract from DP-2501B - Programme Update - DD 28-2-2025)

(4 of 6)

CRCHK-CR15G JV

Date

03-Mar-25

Revision

DP-2501B Feb 2025 Prog Upd

Checked

Approved

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish	2025						
					Feb	Mar	Apr	May	Jun	Jul	
					21	22	23	24	25	26	
<b>Misc Works after Erection</b>											
11286-CON-54989	Erection of Scaffolding for Low & High Zone Installation for Footbridge Segment 5	14	02-Apr-25	22-Apr-25							
11286-CON-54989c	Footbridge (Segment 5 ) - FRP Touch Up for connection (Day-Time)	18	23-Apr-25	15-May-25							
<b>Segment 5 - Roof &amp; Ceiling Level</b>											
11286-CON-54989b	ABWF Access Date for Footbridge Segment 5	0	23-Apr-25								
11286-CON-54990a	Install Top Subframe with Cladding & Lightning brackets for Footbridge Segment 5	14	23-Apr-25	10-May-25							
11286-CON-54990a1	Handover to MEP for Footbridge Segment 5	1	12-May-25	12-May-25							
11286-CON-54990b	Installation of MEP Services for Footbridge Segment 5	21	13-May-25	06-Jun-25							
<b>Segment 6</b>											
<b>Erection Segments 6</b>											
11286-CON-54923	Erection of Segment 6 (Full Truss) (L=12m) (Daytime Lifting)	1	31-Mar-25	01-Apr-25							
<b>Misc Works after Erection</b>											
11286-CON-A54924	Footbridge (Segment 6) - Bridge Alignment, Full Welding Connections & NDT (Day-Time)	25	01-Apr-25	07-May-25							
11286-CON-A54989	Erection of Scaffolding for Low & High Zone Installation for Footbridge Segment 6	14	28-May-25	14-Jun-25							
<b>Segment 7 &amp; 8 - Lifting &amp; Erect Scaffold</b>											
<b>Fabrication + Prepare for Erection</b>											
11286-CON-74900c	On-site Prefabrication & Assembly Bottom Frame (installation & weld) for Footbridge Segment 7 & 8 (75%)	7	01-Mar-25	08-Mar-25							
11286-CON-74902	On-site Prefabrication & Assembly Bottom Frame (FRP touch up) for Footbridge Segment 7 & 8	4	10-Mar-25	13-Mar-25							
11286-CON-74950	Footbridge (Segment 7 & 8) - Install Metal Bondek at Floor & Roof Level (Day-Time)	7	14-Mar-25	21-Mar-25							
<b>Segment 9 &amp; 10 - Lifting &amp; Erect Scaffold</b>											
<b>Fabrication + Prepare for Erection</b>											
11286-CON-94901	On-site Prefabrication & Assembly Bottom Frame (welding and testing) for Footbridge Segment 9 & 10	12	01-Mar-25	14-Mar-25							
<b>Segment 11</b>											
<b>Segement 11 Fabrication</b>											
11286-CON-A1098	Setting up of Assembling Yard	15	01-Mar-25	18-Mar-25							
11286-CON-E4900b1	On-site Prefabrication & Assembly Vertical Side Frame (installation & welding) for Footbridge Segment 11 (100%)	12	01-Mar-25	14-Mar-25							
<b>Segments 1 - 11 Concreting &amp; Misc Items after Concreting</b>											
<b>Dismantle Temporary Tower</b>											
11286-CON-34965a	Dismantle & Remove Footing Block for Temporary Tower T3 - Between Segments 3 & 4	12	26-Apr-25	12-May-25							
<b>Cost Centre C: APPROACH LOBBY at CONCOURSE LEVEL of SUW Station</b>											
<b>Site Clearance &amp; Mobilization &amp; Establishment</b>											
11286-MOB-05690s	Instrumentation Monitoring (AL, Mar-25)	26	01-Mar-25	31-Mar-25							
11286-MOB-05690t	Instrumentation Monitoring (AL, Apr-25)	22	01-Apr-25	30-Apr-25							
11286-MOB-05690u	Instrumentation Monitoring (AL, May-25)	24	02-May-25	30-May-25							
<b>Approach Lobby - Substructure / Pilecaps</b>											
<b>Approach Lobby - Excavation and ELS Works (S2-S4)</b>											
<b>Excavation &amp; Lateral Support Work (ELS)</b>											
<b>Additional Works Due to NA</b>											
<b>Subletting &amp; Procurement</b>											
11286-CON-05872c	Materials Testing and Report Submission	7	24-Feb-25 A	08-Mar-25							
11286-CON-05872d	Material Approval	6	03-Mar-25	08-Mar-25							
11286-CON-05872f	Waterproofing Material Approval	7	15-Feb-25 A	07-Mar-25							
11286-CON-05872f10	Waterproofing Material Delivery	45	08-Mar-25	21-Apr-25							
<b>Excavation 2nd Layer from +5.00 to +0.95mPD (2329m3:)</b>											
11286-CON-05870c	AL - Excavation from +5.00 to +0.95mPD (Upto75% of 2329m3:Soil&Rock)	5	24-Feb-25 A	06-Mar-25							
11286-CON-05870d	AL - Excavation from +5.00 to +0.95mPD (Upto 100% of 2329m3:Soil&Rock)	10	07-Mar-25	18-Mar-25							
11286-CON-05880a	AL - Install Struts (S2 Layer) @ +1.45 mPD (Upto 50%)	7	11-Mar-25	18-Mar-25							
11286-CON-05880b	AL - Install Struts (S2 Layer) @ +1.45 mPD (Upto 100%)	7	19-Mar-25	26-Mar-25							
<b>Excavation 3rd Layer from +0.95 to -3.10mPD (2329m3)</b>											
11286-CON-05890a	AL - Excavation from +0.95 to -3.10mPD (Upto 25% of 2329m3: Soil&Rock)	20	27-Mar-25	23-Apr-25							
11286-CON-05890b	AL - Excavation from +0.95 to -3.10mPD (Upto 50% of 2329m3:Soil&Rock)	20	17-Apr-25	15-May-25							
11286-CON-05890c	AL - Excavation from +0.95 to -3.10mPD (Upto75% of 2329m3:Soil&Rock)	20	13-May-25	05-Jun-25							
<b>Pier 1 - Excavation, ELS Works &amp; Pilecap @ Deck Lvl (+13.112mPD)</b>											
<b>Pier 1 - Excavation, ELS Works; Pier 1 + (GL C4 to P1)</b>											
11286-CON-058100	Pier 1 - Excavation & Installation of Struts (GL C4 to P1) from Grd Level to +5.0mPD	7	01-Mar-25	08-Mar-25							
11286-CON-05810a	Pier 1 - Trimming an Capping Plate Works (GL C4 to P1) from Grd Level to +5.0mPD	14	10-Mar-25	25-Mar-25							
11286-CON-05810c	Pier 1 - Prepare areas for Blinding Layer (GL C4 to P1) from Grd Level to +5.0mPD	7	18-Mar-25	25-Mar-25							
11286-CON-A1101a	Pier 1 - Excavation and Pile Head Trimming complete (GL C4 to P1) from GrdL to +5.0mPD	0		25-Mar-25							

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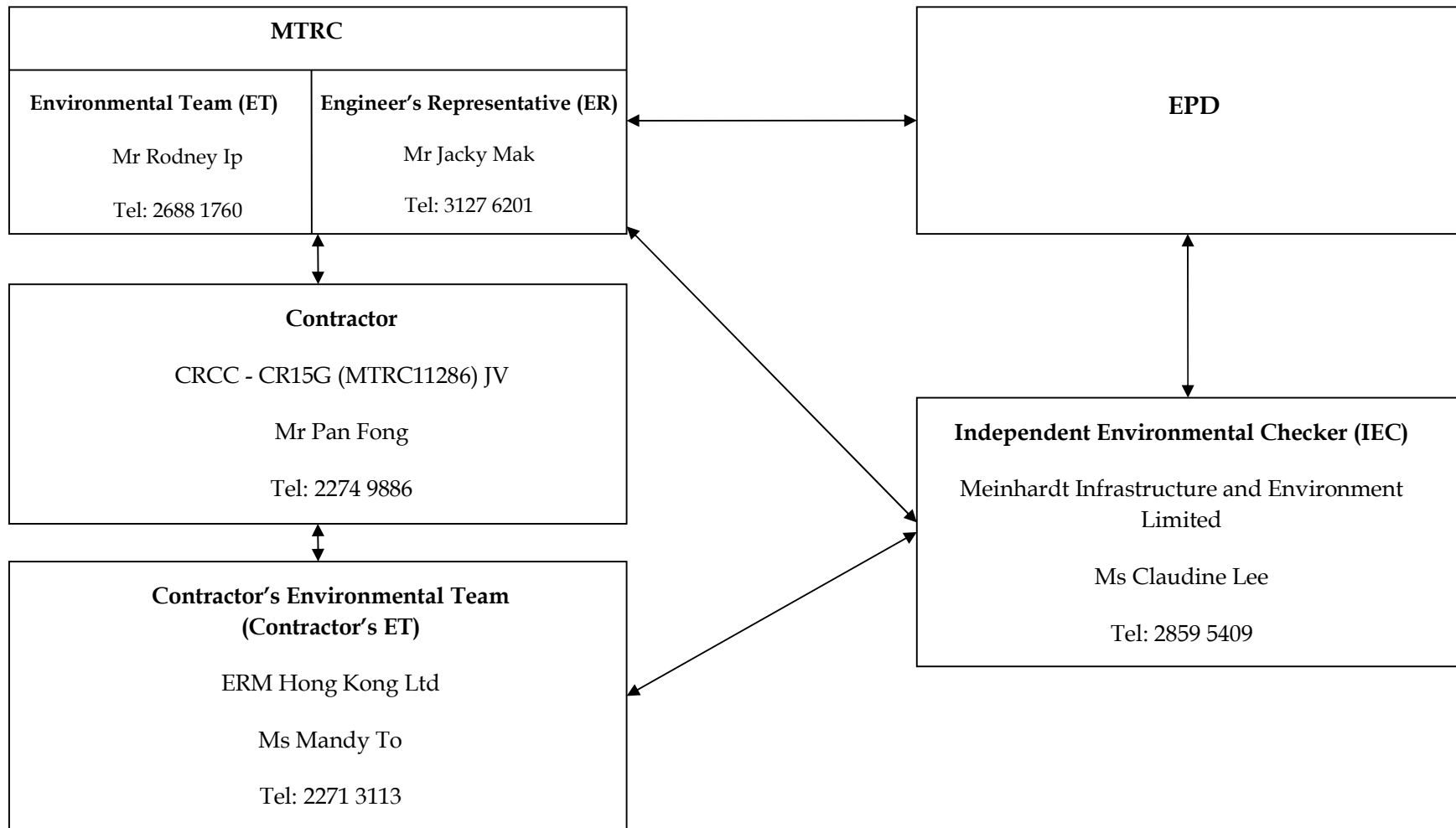
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish	2025						
					Feb	Mar	Apr	May	Jun	Jul	
					21	22	23	24	25	26	
Pier 1 - Pile Cap RC Works; for Pier 1 + (GL C4 to P1) (From +5.0 to +7.35 = 2.35m thick)											
11286-CON-A1101b	Pier 1 - Blinding Layer & preparation for Waterproofing Pier 1 + (GL C4 to P1) (2.35m thick)	4	22-Apr-25	25-Apr-25							Pier 1 - Blinding Layer & preparation for Waterproofing Pier 1 + (GL C4 to P1) (2.35m thick)
11286-CON-A1101c	Pier 1 - Apply Waterproofing Works Pier 1 + (GL C4 to P1) (2.35m thick)	3	26-Apr-25	29-Apr-25							Pier 1 - Apply Waterproofing Works Pier 1 + (GL C4 to P1) (2.35m thick)
11286-CON-A1101d	Pier 1 - Rebar Fixing for Pile Cap Pier 1 + (GL C4 to P1) (2.35m thick)	14	30-Apr-25	17-May-25							Pier 1 - Rebar Fixing for Pile Cap Pier 1 + (GL C4 to P1) (2.35m thick)
11286-CON-A1101e	Pier 1 - Rebar Inspections Pier 1 + (GL C4 to P1) (2.35m thick)	1	19-May-25	19-May-25							Pier 1 - Rebar Inspections Pier 1 + (GL C4 to P1) (2.35m thick)
11286-CON-A1101f	Pier 1 - Formwork Erection & Inspections Pier 1 + (GL C4 to P1) (2.35m thick)	7	20-May-25	27-May-25							Pier 1 - Formwork Erection & Inspections Pier 1 + (GL C4 to P1) (2.35m thick)
11286-CON-A1101g	Pier 1 - Casting Pile Cap Pier 1 + (GL C4 to P1) (2.35m thick)	1	28-May-25	28-May-25							Pier 1 - Casting Pile Cap Pier 1 + (GL C4 to P1) (2.35m thick)
11286-CON-A1101h	Pier 1 - Concrete Curing Pier 1 + (GL C4 to P1) (2.35m thick)	7	29-May-25	04-Jun-25							Pier 1 - Concrete Curing Pier 1 + (GL C4 to P1) (2.35m thick)
Cost Centre D: Entrance C at Pak Tai Street											
Site Clearance & Mobilization & Establishment											
11286-MOB-07370r	Instrumentation Monitoring (EntC, Mar-25)	26	01-Mar-25	31-Mar-25			Instrumentation Monitoring (EntC, Mar-25)				
11286-MOB-07370s	Instrumentation Monitoring (EntC, Apr-25)	22	01-Apr-25	30-Apr-25			Instrumentation Monitoring (EntC, Apr-25)				
11286-MOB-07370t	Instrumentation Monitoring (EntC, May-25)	24	02-May-25	30-May-25				Instrumentation Monitoring (EntC, May-25)			
Entrance C - Utilities Diversion											
Utilities Diversion & Removal Underground Structure											
Utilities Diversion & Removal Underground Structure Items											
11286-MOB-07400	Street lamp posts relocation at Pak Tai Street	6	31-Jan-24 A	07-Mar-25			Street lamp posts relocation at Pak Tai Street				
Entrance C - Foundation & Substructure											
Pile Cap											
Entance C - ELS											
Breaking Existing Footing											
11286-CON-07490a	Excavation to approx. +3.1mPD (Soft = 513m3 @ 107m3/d)	5	08-Mar-25	13-Mar-25			Excavation to approx. +3.1mPD (Soft = 513m3 @ 107m3/d)				
11286-CON-07490b	Existing RC Footing Demolition and removal	23	14-Mar-25	10-Apr-25			Existing RC Footing Demolition and removal				
11286-CON-07490c	Additional Lagging for insufficient sheet piles	5	11-Apr-25	16-Apr-25			Additional Lagging for insufficient sheet piles				
11286-CON-07490d	Install S1 Struts and walings	14	17-Apr-25	08-May-25			Install S1 Struts and walings				
11286-CON-07490e	Excavation to approx. -0.475mPD FEL	2	09-May-25	10-May-25			Excavation to approx. -0.475mPD FEL				
11286-CON-07490f	Install S2 Struts and walings	7	12-May-25	19-May-25			Install S2 Struts and walings				
Trimming											
11286-CON-07520a	Pile Head Trimming and Capping Plate Works (including for Pier 4)	16	21-May-25	09-Jun-25			Pile Head Trimming and Capping Plate Works (including for Pier 4)				
Cost Centre E: Modification Works at SUW Concourse Level											
Modifications Works at SUW Station - Concourse Level											
SUW Station (Concourse Level) - Before Breakthrough - ABWF & Civil Works											
11286-MOB-96008	CE13 Additional (3nos.) Settlement Monitoring Points at SUW Concourse Level (Mar-25)	26	01-Mar-25	31-Mar-25			CE13 Additional (3nos.) Settlement Monitoring Points at SUW Concourse Level (Mar-25)				
Cost Centre F: Building Services / E&M Works											
Footbridge - Installation & Cable Laying Works											
Footbridge - Installations Works											
Footbridge Segments 2 to 5 - Installation Works											
Footbridge Segments 2 to 5 - Electrical Services System											
11286-CON-E4006	Footbridge (S2-5) - (Elect) E&M Composite Hanger Installation (7 Days/ Segment)	45	13-May-25	05-Jul-25							
Testing and Commisioning / Statutory Inspections											
WWO46 Part I to Part III Submission & Approval											
11286-StA-08980	WSD : Submit to WSD Form WWO 046 Part I & II	0	14-May-25				WSD : Submit to WSD Form WWO 046 Part I & II				
11286-StA-08990	WSD :Preparation for Form WWO 046 Part I & II submission	12	14-May-25	25-May-25			WSD :Preparation for Form WWO 046 Part I & II submission				
11286-StA-09000	WSD :Preparation for Form WWO 046 Part I & II submission	12	26-May-25	06-Jun-25			WSD :Preparation for Form WWO 046 Part I & II submission				



APPENDIX C PROJECT ORGANIZATION CHART AND  
CONTACT DETAILS

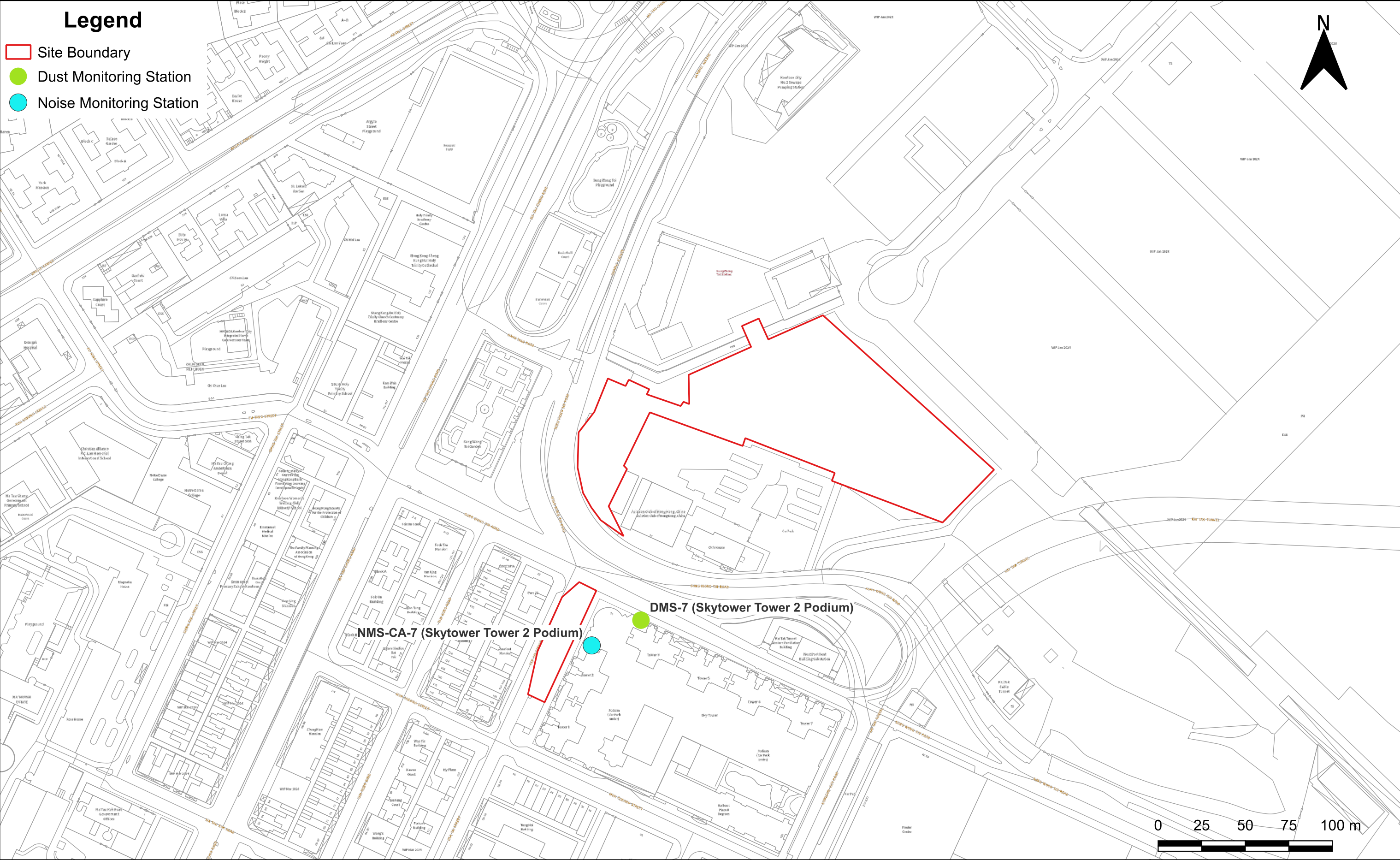


**Appendix C – Organization Chart of SCL Works Contract 11286**





## APPENDIX D LOCATIONS OF NOISE AND DUST MONITORING STATION



Appendix D

Locations of Dust and Noise Monitoring Stations



## APPENDIX E MONITORING SCHEDULE OF THE REPORTING MONTH AND THE NEXT MONTH

## Tentative Monitoring Schedule in February 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						<b>1-Feb</b>
						- Noise Monitoring - 24-hour TSP
<b>2-Feb</b>	<b>3-Feb</b>	<b>4-Feb</b>	<b>5-Feb</b>	<b>6-Feb</b>	<b>7-Feb</b>	<b>8-Feb</b>
					- Noise Monitoring - 24-hour TSP	
<b>9-Feb</b>	<b>10-Feb</b>	<b>11-Feb</b>	<b>12-Feb</b>	<b>13-Feb</b>	<b>14-Feb</b>	<b>15-Feb</b>
				- Noise Monitoring - 24-hour TSP		
<b>16-Feb</b>	<b>17-Feb</b>	<b>18-Feb</b>	<b>19-Feb</b>	<b>20-Feb</b>	<b>21-Feb</b>	<b>22-Feb</b>
			- Noise Monitoring - 24-hour TSP			
<b>23-Feb</b>	<b>24-Feb</b>	<b>25-Feb</b>	<b>26-Feb</b>	<b>27-Feb</b>	<b>28-Feb</b>	
		- Noise Monitoring - 24-hour TSP				

**Note:**

The dates indicated in red are public holidays.

## Tentative Monitoring Schedule in March 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1-Mar
2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar
	- Noise Monitoring - 24-hour TSP				- 24-hour TSP	
9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
				- Noise Monitoring - 24-hour TSP		
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
			- Noise Monitoring - 24-hour TSP			
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
		- Noise Monitoring - 24-hour TSP				
30-Mar	31-Mar					
	- Noise Monitoring - 24-hour TSP					

**Note:**



## APPENDIX F CALIBRATION REPORTS



# Certificate of Calibration

## Calibration Certification Information

Cal. Date: December 2, 2024

Rootsmeter S/N: 438320

Ta: 293

°K

Operator: Jim Tisch

Pa: 757.4

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	12.8	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)
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592
<b>QSTD</b>	m=	<b>2.08315</b>	<b>QA</b>	m=	<b>1.30443</b>
	b=	<b>-0.04938</b>		b=	<b>-0.03050</b>
	r=	<b>0.99985</b>		r=	<b>0.99985</b>

## Calculations

Vstd=	$\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$	Va=	$\Delta Vol((Pa-\Delta P)/Pa)$
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
<b>Key</b>	
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*

*for*

*Description:* **Sound Level Meter**  
*Manufacturer:* **RION**  
*Type No.:* **NL-52 (Serial No.: 00643040)**  
*Microphone:* **PCB 377B02 (Serial No.: 172764)**  
*Preamplifier:* **NH-25 (Serial No.: 21757)**

***Submitted by:***

*Customer:* **Envirotech Services Co.**  
*Address:* **Rm. 712, 7/F., My Loft, 9 Hoi Wing Road,  
Tuen Mun, Hong Kong**

**Upon receipt for calibration, the instrument was found to be:**

- ☒ **Within (31.5Hz – 8kHz)**  
☐ **Outside**

**the allowable tolerance.**

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

**Date of receipt: 25 September 2024**

**Date of calibration: 27 September 2024**

**Date of NEXT calibration: 26 September 2025**

**Calibrated by:**   
**Calibration Technician**

**Certified by:**   
**Mr. Ng Yan Wa**  
**Laboratory Manager**

**Date of issue: 27 September 2024**

**Certificate No.: APJ24-072-CC001**



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**1. Calibration Precaution:**

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

**2. Calibration Conditions:**

Air Temperature: 24.9 °C  
Air Pressure: 1006 hPa  
Relative Humidity: 54.5 %

**3. Calibration Equipment:**

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS

**4. Calibration Results**

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

Certificate No.: APJ24-072-CC001



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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dB	SPL	94	31.5	93.8	$\pm 2.0$
				63	93.9	$\pm 1.5$
				125	93.9	$\pm 1.5$
				250	93.9	$\pm 1.4$
				500	93.9	$\pm 1.4$
				1000	94.0	Ref
				2000	94.0	$\pm 1.6$
				4000	94.5	$\pm 1.6$
				8000	91.8	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	94	31.5	54.4	$-39.4 \pm 2.0$
				63	67.8	$-26.2 \pm 1.5$
				125	77.8	$-16.1 \pm 1.5$
				250	85.3	$-8.6 \pm 1.4$
				500	90.7	$-3.2 \pm 1.4$
				1000	94.0	Ref
				2000	95.2	$+1.2 \pm 1.6$
				4000	95.5	$+1.0 \pm 1.6$
				8000	90.8	$-1.1 \pm 2.1$ ; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBC	SPL	94	31.5	90.8	$-3.0 \pm 2.0$
				63	93.1	$-0.8 \pm 1.5$
				125	93.7	$-0.2 \pm 1.5$
				250	93.9	$-0.0 \pm 1.4$
				500	93.9	$-0.0 \pm 1.4$
				1000	94.0	Ref
				2000	93.8	$-0.2 \pm 1.6$
				4000	93.7	$-0.8 \pm 1.6$
				8000	89.0	$-3.0 \pm 2.1$ ; -3.1

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## 5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

### Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)\*L shall not be liable for any loss or damage resulting from the use of the equipment.

High-Volume TSP Sampler  
5-Point Calibration Record

Location : Sky Tower  
Calibrated by : K.T.Ho  
Date : 26/02/2025

Sampler

Model : TE-5170  
Serial Number : S/N 3958

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
Next Calibration Date : 02 December 2025  
Slope (m) : 2.08315  
Intercept (b) : -0.04938  
Correlation Coefficient(r) : 0.99985

Standard Condition

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

Calibration Condition

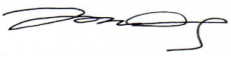
Pa (hpa) : 1019  
Ta(K) : 293

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	8.6	2.976	1.452	52	52.78
2	13 holes	6.6	2.607	1.275	46	46.69
3	10 holes	4.6	2.177	1.069	42	42.63
4	7 holes	3.2	1.816	0.895	34	34.51
5	5 holes	2.0	1.435	0.713	28	28.42

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

Sampler Calibration Relationship

Slope(m): 32.652      Intercept(b): 5.710      Correlation Coefficient(r): 0.9931

Checked by:   
Magnum Fan

Date: 27/02/2025



## APPENDIX G SUMMARY OF EVENT/ACTION PLANS

## Appendix G1 – Event and Action Plan for Regular Construction Noise Monitoring

EVENT	Action			
	Contractor's Environmental Team (Contractor's ET)	Independent Environmental Checker (IEC)	Engineer Representative (ER)	The Contractor
Exceeding Action Level	<ol style="list-style-type: none"> <li>1. Notify the IEC, Contractor and ER;</li> <li>2. Discuss with the ER, IEC and Contractor on the remedial measures required;</li> <li>3. Increase the monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the investigation results submitted by the contractor;</li> <li>2. Review and advise the ET and ER on the effectiveness of the remedial measures proposed by the Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of complaint in writing ;</li> <li>2. Notify the Contractor, IEC and ET;</li> <li>3. Review and agree on the remedial measures proposed by the Contractor;</li> <li>4. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Investigate the complaint and propose remedial measures;</li> <li>2. Report the results of investigation to the IEC, ET and ER;</li> <li>3. Submit noise mitigation proposals to the ER with copy to the IEC and ET within 3 working days of notification;</li> <li>4. Implement noise mitigation proposals.</li> </ol>
Exceeding Limit Level	<ol style="list-style-type: none"> <li>1. Notify the IEC, Contractor and EPD;</li> <li>2. Repeat measurement to confirm findings;</li> <li>3. Increase the monitoring frequency;</li> <li>4. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>5. Arrange meeting with the IEC, Contractor and ER to discuss the remedial measures to be taken;</li> <li>6. Inform the IEC, ER and EPD the causes and actions taken for the exceedances</li> <li>7. Assess the effectiveness of the Contractor's remedial measures and keep the IEC, ER and EPD informed of the results</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the monitoring data submitted by the ET;</li> <li>2. Check the Contractor's working method;</li> <li>3. Discuss with the ET, ER, and Contractor on the potential remedial measures;</li> <li>4. Review and advise the ET and ER on the effectiveness of the remedial measures proposed by the Contractor</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify the Contractor, IEC and ET;</li> <li>3. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures;</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>1. Identify reason(s) and investigate the causes of exceedance;</li> <li>2. Take immediate action to avoid further exceedance;</li> <li>3. Submit proposals for remedial measures to the ER with a copy to the IEC and ET within three working days of notification;</li> <li>4. Implement the agreed proposals;</li> <li>5. Revise and resubmit proposals if problem is still not under control;</li> <li>6. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

## Appendix G2 – Event and Action Plan for Regular Construction Dust Monitoring

Event	Action			
	Contractor's Environmental Team (Contractor's ET)	Independent Environmental Checker (IEC)	Engineer Representative (ER)	The Contractor
<b>Action Level</b>				
Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Inform the IEC, Contractor and ER;</li> <li>2. Discuss with the Contractor, IEC and ER on the remedial measures required;</li> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase the monitoring frequency</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the monitoring data submitted by the ET;</li> <li>2. Check the Contractor's working method;</li> <li>3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notifications of exceedance in writing;</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify reason(s), investigate the causes of exceedance and propose remedial measures;</li> <li>2. Implement remedial measures;</li> <li>3. Amend working methods and agree them with the ER as appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Inform the IEC, Contractor and ER;</li> <li>2. Discuss with the ER, IEC and Contractor on the remedial measures required;</li> <li>3. Repeat measurements to confirm findings;</li> <li>4. Increase the monitoring frequency to daily;</li> <li>5. If exceedance continues, arrange meeting with the IEC, ER and Contractor;</li> <li>6. If exceedance stops, the monitoring frequency will resume normal.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the monitoring data submitted by the ET;</li> <li>2. Check the Contractor's working method;</li> <li>3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify the Contractor, IEC and ET;</li> <li>3. Review and agree on the remedial measures proposed by the Contractor;</li> <li>4. Supervise the Implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify reasons and investigate the causes of exceedance;</li> <li>2. Submit proposals of remedial measures to the ER with a copy to the ET and IEC within three working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Amend the proposal as appropriate.</li> </ol>



Event	Action							
	Contractor's Environmental Team (Contractor's ET)		Independent Environmental Checker (IEC)	Engineer Representative (ER)	The Contractor			
Limit Level								
Exceedance for one sample	1.	Inform the IEC, Contractor and ER;	1.	Check the monitoring data submitted by the ET;	1.	Confirm receipt of notification of exceedance in writing;	1.	Identify reason(s) and investigate the causes of exceedance;
	2.	Repeat measurement to confirm findings;	2.	Check the Contractor's working method;	2.	Notify the Contractor, IEC and ET;	2.	Take immediate action to avoid further exceedance;
	3.	Increase the monitoring frequency to daily;	3.	Discuss with the ET, ER and Contractor on possible remedial measures;	3.	Review and agree on the remedial measures proposed by the Contractor;	3.	Submit proposals of remedial measures to ER with a copy to the ET and IEC within three working days of notification;
	4.	Discuss with the ER, IEC and contractor on the remedial measures and assess the effectiveness.	4.	Review and advise the ER and ET on the effectiveness of Contractor's remedial measures.	4.	Supervise the implementation of remedial measures.	4.	Implement the agreed proposals;
							5.	Amend proposal if appropriate.
Exceedance for two or more consecutive samples	1.	Notify the IEC, Contractor and EPD;	1.	Check the monitoring data submitted by the ET;	1.	Confirm receipt of notification of exceedance in writing;	1.	Identify reason(s) and investigate the causes of exceedance;
	2.	Repeat measurement to confirm findings;	2.	Check the Contractor's working method;	2.	Notify the Contractor, IEC and ET;	2.	Take immediate actions to avoid further exceedance;
	3.	Increase the monitoring frequency to daily;	3.	Discuss with the ET, ER, and Contractor on the potential remedial measures;	3.	In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented;	3.	Submit proposals of remedial measures to the ER with a copy to the IEC and ET within three working days of notification;
	4.	Carry out analysis of the Contractor's working procedures with the ER to determine possible mitigation to be implemented;	4.	Review and advise the ER and ET on the effectiveness of Contractor's remedial measures.	4.	Supervise the implementation of remedial measures;	4.	Implement the agreed proposals;
	5.	Arrange meeting with the IEC, Contractor and ER to discuss the remedial measures to be taken;			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.	5.	Revise and resubmit proposals if problem still not under control;
	6.	Review the effectiveness of the Contractor's remedial measures and keep the IEC, EPD and ER informed of the results;					6.	Stop the relevant portion of works as determined by the ER until the exceedance is abated.
	7.	If exceedance stops, the monitoring frequency will return to normal.						

### Appendix G3 – Event and Action Plan for Landscape and Visual Impacts during the construction phase

Event	Action			
	Contractor's Environmental Team (Contractor's ET)	Independent Environmental Checker (IEC)	Engineer Representative (ER)	The Contractor
Non-conformity on one occasion	<ol style="list-style-type: none"> <li>1. Inform the Contractor, the IEC and the ER.</li> <li>2. Discuss remedial actions with the IEC, ER and Contractor.</li> <li>3. Monitor remedial actions until rectification has been completed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the inspection report.</li> <li>2. Check the Contractor's working method.</li> <li>3. Discuss with the ET, ER and Contractor on possible remedial measures.</li> <li>4. Advise the ER on the effectiveness of proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notifications of nonconformity in writing.</li> <li>2. Review and agree on the remedial measures proposed by the Contractor.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify reasons and investigate the non-conformity.</li> <li>2. Implement remedial measures</li> <li>3. Amend working methods and agree them with the ER as appropriate.</li> <li>4. Rectify the damage and undertake any necessary replacement.</li> </ol>
Repeated Nonconformity	<ol style="list-style-type: none"> <li>1. Identify Reasons.</li> <li>2. Inform the Contractor, IEC and ER.</li> <li>3. Increase the inspection frequency.</li> <li>4. Discuss remedial actions with the IEC, ER and Contractor.</li> <li>5. Monitor remedial actions until rectification has been completed.</li> <li>6. If non-conformity stops, the inspection frequency return to normal (ie., Once every two weeks)</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the inspection report.</li> <li>2. Check the Contractor's working method.</li> <li>3. Discuss with the ET and Contractor on possible remedial measures.</li> <li>4. Advise the ER on the effectiveness of proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify the Contractor.</li> <li>2. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify Reasons and investigate the non-conformity.</li> <li>2. Implement remedial measures.</li> <li>3. Amend working methods and agree them with the ER as appropriate.</li> <li>4. Rectify the damage and undertake any necessary replacement.</li> <li>5. Stop relevant works as determined by the ER until the non-conformity is abated.</li> </ol>



APPENDIX H SUMMARY OF IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION

## Appendix H Environmental Mitigation Implementation Status – SCL Works Contract 11286 (Pedestrian Link Connecting Pak Tai Street and Sung Wong Toi Station)

### Note:

- \* Reference has been made to the approved SCL (TAW-HUH) EM&A Manual.
- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by the Contractor
- Δ Deficiency of Mitigation Measures but rectified by the Contractor
- N/A Not Applicable in Reporting Period

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
<b>Cultural Heritage Impact</b>							
-	Table 3.3 of Works Contract's ERR	Special attention should be paid to avoid adverse physical impact arising from the proposed works to the buildings of the School. Design proposal, method of works and choice of machinery should be targeted to minimize adverse impacts to the heritage sites. Works boundary should be set away from the historic buildings of the School as far as practical and physical barrier should be provided to fence off historic buildings from the works site of the Project.	Minimise built heritage impacts	Contractor	Old Far East Flying Training School (existing HKAC)	During foundation works of construction stage	√
-	Table 3.3 of Works Contract's ERR	Detailed design proposal, impact assessment and precautionary measures of the footbridge (including but not limited to piling, ELS and footbridge deck construction) and entrance lobbies should be submitted for AMO's consideration.	Minimise built heritage impacts	Contractor	Old Far East Flying Training School (existing HKAC)	During foundation works of construction stage	N/A
-	Table 3.3 of Works Contract's ERR	Foundation information of the historic buildings should be verified on site if needed and sufficient lateral support should be provided and de-watering (if required) should be carried out with great caution to control ground movement and change of groundwater regime during the excavation works in close vicinity to the historic	Minimise built heritage impacts	Contractor	Old Far East Flying Training School (existing HKAC)	During foundation works of construction stage	N/A

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		buildings.					
-	Table 3.3 of Works Contract's ERR	Pre- and post-construction condition survey of the historical buildings should be carried out to record their conditions. The survey reports should be submitted to AMO for record	Minimise built heritage impacts	Contractor	Old Far East Flying Training School (existing HKAC)	During foundation works of construction stage	N/A
-	Table 3.3 of Works Contract's ERR	Any vibration and building movement induced from the proposed works should be closely monitored to ensure no disturbance and physical damages made to the heritage sites during the course of works. Monitoring proposal for the heritage sites, including checkpoint locations, installation details, response actions for each of the Alert/ Alarm/ Action (3As) levels and frequency of monitoring should be submitted for AMO's consideration.	Minimise built heritage impacts	Contractor	Old Far East Flying Training School (existing HKAC)	During foundation works of construction stage	N/A
-	Section 3.6 of Works Contract's ERR	As a precautionary measure, vibration and settlement monitoring is recommended during foundation works of the construction phase of the Project.	Minimise archaeological impacts	Contractor	All construction sites	During foundation works of construction stage	√
<b>Ecology (Construction Phase)</b>							
S5.7	E5	<u>Good Site Practices</u> Impact on any habitats or local fauna should be avoided by implementing good site practices, including the containment of silt runoff within the site boundary, containment of contaminated soils for removal from the site, appropriate storage of chemicals and chemical waste away from sites of ecological value and the provision of sanitary facilities for on-site workers. Adoption of such measures should permit waste to be suitably contained within the site for subsequent removal and appropriate disposal.  The following good site practices should also be implemented:	Minimise ecological impacts	Contractor	All construction sites	Construction Stage	N/A

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		<ul style="list-style-type: none"> <li>Erection of temporary geotextile silt or sediment fences/oil traps around earth-moving works to trap sediments and prevent them from entering watercourses;</li> <li>Avoidance of soil storage against trees or close to water bodies;</li> <li>Delineation of works site by erecting hoardings to prevent encroachment onto adjacent habitats and fence off areas which have some ecological value e.g. tunnel on hill at top of slope stabilisation works;</li> <li>No on-site burning of waste;</li> <li>Store waste and refuse in appropriate receptacles.</li> </ul>					
<b>Landscape &amp; Visual (Construction Phase)</b>							
S6.12	LV2 / Table 5.4 of Works Contract's ERR	<u>Decorative Hoarding</u> <ul style="list-style-type: none"> <li>Erection of decorative screen in visual and landscape sensitive areas during the construction stage to screen off undesirable views of the construction site . Hoarding should be designed to be compatible with the existing urban context.</li> </ul>	Minimize visual & landscape impact	Contractor	Within Project Site	Construction Stage	√
S6.12	LV2 / Table 5.4 of Works Contract's ERR	<u>Management of facilities on work sites</u> <ul style="list-style-type: none"> <li>To provide proper management of the on-site facilities, control the height and disposition/ arrangement of all facilities on the works site to minimize visual impact to adjacent Visual Sensitive Receivers (VSRs).</li> </ul>	Minimize visual & landscape impact	Contractor	Within Project Site	Construction Stage	√
S6.12	LV2 / Table 5.4 of Works Contract's ERR	<u>Aesthetic landscape and architectural treatment on Station/ Entrance/ ventilation shaft/ portal</u> <ul style="list-style-type: none"> <li>All station entrances, ventilation shafts and all aboveground structures shall be sensitively designed to ensure that suitable architectural design and the constraints.</li> </ul>	Minimize visual & landscape impact	MTRC	Within Project Site	Construction Stage	N/A
S6.12	LV2 /	<u>Re-instatement of excavated area</u>	Minimize visual &	MTRC	Within Project Site	Construction Stage	N/A

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
	Table 5.4 of Works Contract's ERR	<ul style="list-style-type: none"> <li>All excavated area and disturbed area for temporary works utilities diversion, temporary road diversion, and pipeline works shall be reinstated to former conditions or better, to the satisfaction of the relevant Government departments.</li> </ul>	landscape impact				
<b>Construction Dust</b>							
S7.6.5	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	√
S7.6.5	D2	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul roads in the Kowloon area should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.8 l/m <sup>2</sup> to achieve the dust removal efficiency	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<>
S7.6.5	D3	<ul style="list-style-type: none"> <li>Proper watering of exposed spoil should be undertaken throughout the construction phase;</li> <li>Any excavated or stockpile of dusty material should be covered entirely by an impervious sheeting or sprayed with water to maintain an entirely wet surface and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>Any dusty materials remaining after a stockpile has been removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty materials should not be extended beyond the pedestrian barriers,</li> </ul>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	Δ

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		<p>fencing or traffic cones.</p> <ul style="list-style-type: none"> <li>• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by an impervious sheeting to ensure that the dusty materials do not leak from the vehicle;</li> <li>• Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> <li>• When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;</li> <li>• The portion of any road which leads only to construction site and is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;</li> <li>• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operations take place should be sprayed with water or a dust suppression chemical continuously;</li> <li>• Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain an entirely wet surface</li> </ul>					



EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		<ul style="list-style-type: none"> <li>Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building upward, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;</li> <li>Any skip hoist for material transport should be totally enclosed by an impervious sheeting;</li> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by an impervious sheeting or placed in an area sheltered on the top and 3 sides;</li> <li>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;</li> <li>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; and</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> </ul>					
S7.6.5	D6	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor's ET	Selected representative dust monitoring station	Construction stage	√

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
EP Condition 2.18(a)	D7	Watering once every working hour for active works areas, exposed areas and paved haul roads shall be provided in Kowloon area to keep these active works areas, exposed areas and paved haul roads wet.	Minimize construction dust impact	Contractor	All construction sites	Construction stage	<>
EP Condition 2.19	D8	All diesel fuelled construction plant, including marine vessels if possible, used by the contractors within the works areas of the Project shall be powered by ultra low sulphur diesel fuel.	Minimize aerial emissions of sulphur dioxide from construction plant	Contractor	All construction sites	Construction stage	√
<b>Construction Noise (Airborne)</b>							
S8.3.6	N1	Implement the following good site practices: <ul style="list-style-type: none"> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>plant known to emit noise strongly in one direction, where possible, should be orientated so that the noise is directed away from nearby NSRs;</li> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the period of construction works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction airborne noise	Contractor	All construction sites	Construction stage	√
S8.3.6	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	<>

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		construction period.					
S8.3.6	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressor, generators and saw.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	N/A
S8.3.6	N4	Use "Quiet plants"	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	√
S8.3.6	N5	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	Contractor All construction sites where practicable	Construction stage	N/A
S8.3.6	N6	Implement noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor's ET	Selected representative noise monitoring station	Construction stage	√
-	Section 4.5.12 of Works Contract's ERR	Noise insulating fabric (the Fabric) would be installed for PME such as vibratory hammers, drill rigs and piling rigs. The Fabric should be lapped such that there would be no opening or gaps on the joints.	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	N/A
<b>Water Quality</b>							
S10.7.1	W1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following: <u>Construction Runoffs and Site Drainage</u> <ul style="list-style-type: none"> <li>At the start of the site establishment, 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 on site to direct stormwater to silt removal facilities.</li> </ul>	To minimise water quality impact from construction site runoffs and general construction activities	Contractor	All construction sites where practicable	Construction stage	Δ

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		<p>The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction.</p> <ul style="list-style-type: none"> <li>The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates.</li> <li>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. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m<sup>3</sup>/s, a sedimentation basin of 30m<sup>3</sup> would be required and for a flow rate of 0.5 m<sup>3</sup>/s the basin would be 150 m<sup>3</sup>. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the commencement of construction.</li> <li>All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, and definitely, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means.</li> <li>The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage from the use of crushed stone is the positive traction</li> </ul>					

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		<p>gained during prolonged periods of inclement weather and the reduction of surface sheet flows.</p> <ul style="list-style-type: none"> <li>• All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operations at all times and particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading them evenly over stable, vegetated areas.</li> <li>• Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, trenches should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.</li> <li>• Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m<sup>3</sup> 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.</li> <li>• 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.</li> <li>• Precautions should be taken at any time of year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or</li> </ul>					

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		<p>after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoffs during storm events, especially for areas located near steep slopes.</p> <ul style="list-style-type: none"> <li>• All vehicles and plant should be cleaned before leaving a construction site to ensure that 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 every construction site exit 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-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.</li> <li>• Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The 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 the oil interceptors to prevent flushing during heavy rain.</li> <li>• Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.</li> <li>• All fuel tanks and storage areas should be provided with locks and sited in sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to</li> </ul>					

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		<p>prevent spilled fuel oils from reaching nearby water sensitive receivers.</p> <ul style="list-style-type: none"> <li>All the earth works should be conducted sequentially to limit the amount of construction runoffs generated from exposed areas during the wet season (April to September) as far as practicable.</li> <li>Adopt best management practices</li> </ul>					
S10.7.1	W2	<p><u>Tunnelling Works</u></p> <ul style="list-style-type: none"> <li>Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge.</li> <li>The wastewater with a high concentration of suspended solids should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove oil, lubricants and grease from the wastewater.</li> <li>Direct discharge of the bentonite slurry (as a result of D-wall and bored tunnelling construction) is not allowed. The slurry should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities have been completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.</li> </ul>	To minimize construction water quality impact from tunnelling works	Contractor	All tunnelling portion	Construction stage	N/A
S10.7.1	W3	<p><u>Sewage Effluent</u></p> <p>Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for their</p>	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	√

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		appropriate disposal and maintenance.					
S10.7.1	W4	<u>Groundwater from Contaminated Area in case contamination is found:</u> <ul style="list-style-type: none"> <li>No direct discharge of groundwater from contaminated areas is allowed. Prior to the excavation works within potentially contaminated areas, the groundwater quality should be reviewed with reference to the site investigation data in the EIA report for compliance and the Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters (TM-Water). The existence of prohibited substance should be confirmed. The review results should be submitted to EPD for examination if the review results indicate that the groundwater to be generated from the excavation works would be contaminated. The contaminated groundwater should be either properly treated in compliance with the requirements of the TM-Water or properly recharged into the ground.</li> <li>If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. total petroleum hydrocarbon (TPH)) to undetectable range. All treated effluent from the wastewater treatment plant shall meet the requirements as stated in TM Water and should be discharged into the foul sewers.</li> <li>If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The</li> </ul>	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found.	Construction stage	N/A



EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		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-Water. The baseline groundwater quality shall be determined prior to the selection of the recharge wells. It is necessary to 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 the 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. The Contractor should apply for a discharge licence under the Water Pollution Control Ordinance (WPCO) through the Regional Office of EPD for groundwater recharge operation or discharge of treated groundwater.					
S10.7.1	W7	<p>In order to prevent accidental spillage of chemicals, the following is recommended:</p> <ul style="list-style-type: none"> <li>• All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains.</li> <li>• The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings.</li> <li>• Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste disposal</li> </ul>	To minimize water quality impact from accidental spillage	Contractor	All construction sites where practicable	Construction stage	Δ

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
(Chemical Waste) (General) Regulation.							
<b>Waste Management (Construction Waste)</b>							
S11.4.1.1	WM1	<u>On-site sorting of C&amp;D (Construction and Demolition) material</u> <ul style="list-style-type: none"> <li>Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored in the designated stockpile areas avoiding delivering them to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from being ended up at concrete batching plants and turned into concrete for structural use. Details regarding control measures at source sites and crushing facilities should be submitted by the Contractors for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated. The traceability of delivery will be ensured via the implementation of Trip Ticket System and enforcement by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc should also be explored.</li> </ul>	Separation of unsuitable rock from ending up at Concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	√
S11.5.1	WM2	<u>Construction and Demolition (C&amp;D) Material</u> <ul style="list-style-type: none"> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> </ul>	Good site practice to minimize waste generation and recycle C&D materials as far as	Contractor	All construction sites	Construction stage	<>

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		<ul style="list-style-type: none"> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified;</li> <li>Implement an enhanced Waste management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&amp;D materials and minimize waste generation during the course of construction.</li> <li>Disposal of the C&amp;D materials to any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get his approval before implementation</li> </ul>	practicable so as to reduce the amount for final disposal				
S11.5.1	WM3	<u>C&amp;D Waste</u> <ul style="list-style-type: none"> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used. Metal hoarding should be used to enhance the possibility of recycling. The purchase of construction materials will be carefully planned in order to avoid over ordering and wastage.</li> </ul>	Good site practice to minimize waste generation and recycle C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref* / ERR Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the implementation of measures	When to implement the measures?	Implementation Status
		<ul style="list-style-type: none"> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.</li> </ul>					
S11.5.1	WM4	<u>General Refuse</u> <ul style="list-style-type: none"> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.</li> <li>Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible.</li> <li>Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.</li> </ul>	Minimize the production of general refuse and minimise odour, pest and litter impacts	Contractor	All construction sites	Construction stage	√
S11.5.1	WM7	<u>Chemical Waste</u> <ul style="list-style-type: none"> <li>Chemical waste as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, that is produced should</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	<>

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		<p>be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</p> <ul style="list-style-type: none"> <li>Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed. They should have a capacity of less than 450 litres unless the specification has been approved by the EPD. A label in English and Chinese should be displayed in accordance with instructions prescribed in Schedule 2 of the regulation.</li> <li>The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides. It should also have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest. It should have adequate ventilation and be covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated.</li> <li>Disposal of chemical waste should be via a licensed waste collector; to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre (which also offers a chemical waste collection service and can supply the necessary storage containers); or to a reuser of the waste, under the approval from the EPD.</li> </ul>					



## APPENDIX I REGULAR NOISE MONITORING RESULTS

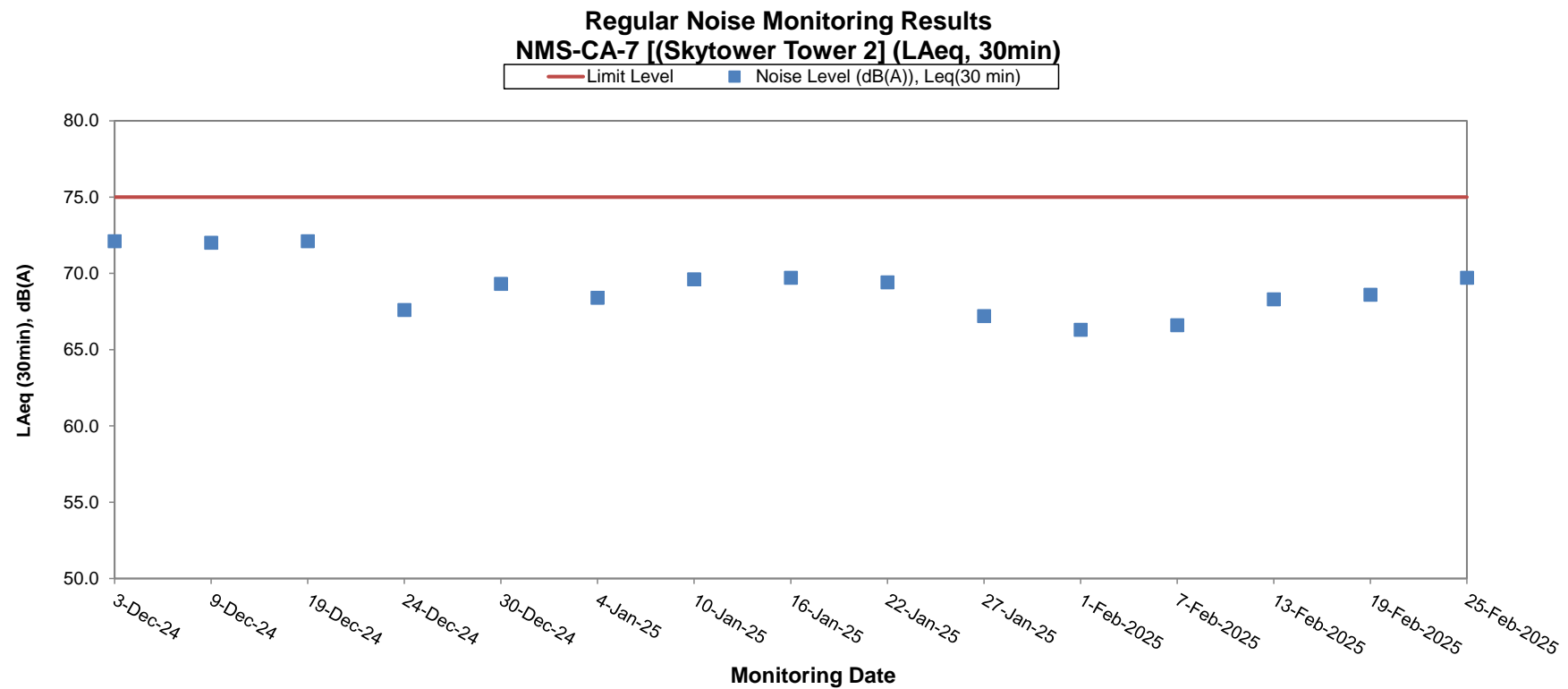
Appendix I - Regular Noise Monitoring Results

Station		NMS-CA-7		Skytower Tower 2								
Date	Start Time	End Time	Weather	Measured Noise level (dB(A)), L <sub>Aeq</sub> (30 min)	Baseline (dB(A)), L <sub>Aeq</sub> (30 min)	Corrected LAeq(dBA) <sup>(a)</sup>	Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Temp. (°C)	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
1-Feb-2025	9:02	9:32	Cloudy	66.6	70.0	-(b)	-	Traffic noise	19.0	0.4	NL-52 00643061	CAL200 16890
7-Feb-2025	9:00	9:30	Cloudy	68.3	70.0	-(b)	-	Traffic noise	15.0	0.3	NL-52 00643062	CAL200 16891
13-Feb-2025	9:06	9:36	Cloudy	68.6	70.0	-(b)	Backhole	Traffic noise	18.0	0.3	NL-52 00643063	CAL200 16892
19-Feb-2025	9:00	9:30	Cloudy	69.7	70.0	-(b)	Backhole	Traffic noise	17.0	0.5	NL-52 00643064	CAL200 16893
25-Feb-2025	9:02	9:32	Cloudy	68.9	70.0	-(b)	Backhole	Traffic noise	15.0	0.4	NL-52 00643065	CAL200 16894

Remarks:

- (a) The Measured LAeq is corrected against the corresponding Baseline Level.
- (b) No correction was made as the measured noise levels were equal to or below the baseline noise levels.

Appendix I - Regular Noise Monitoring Results



Remark:  
- The presented noise level has been corrected, if the measured noise level is higher than the baseline noise level.





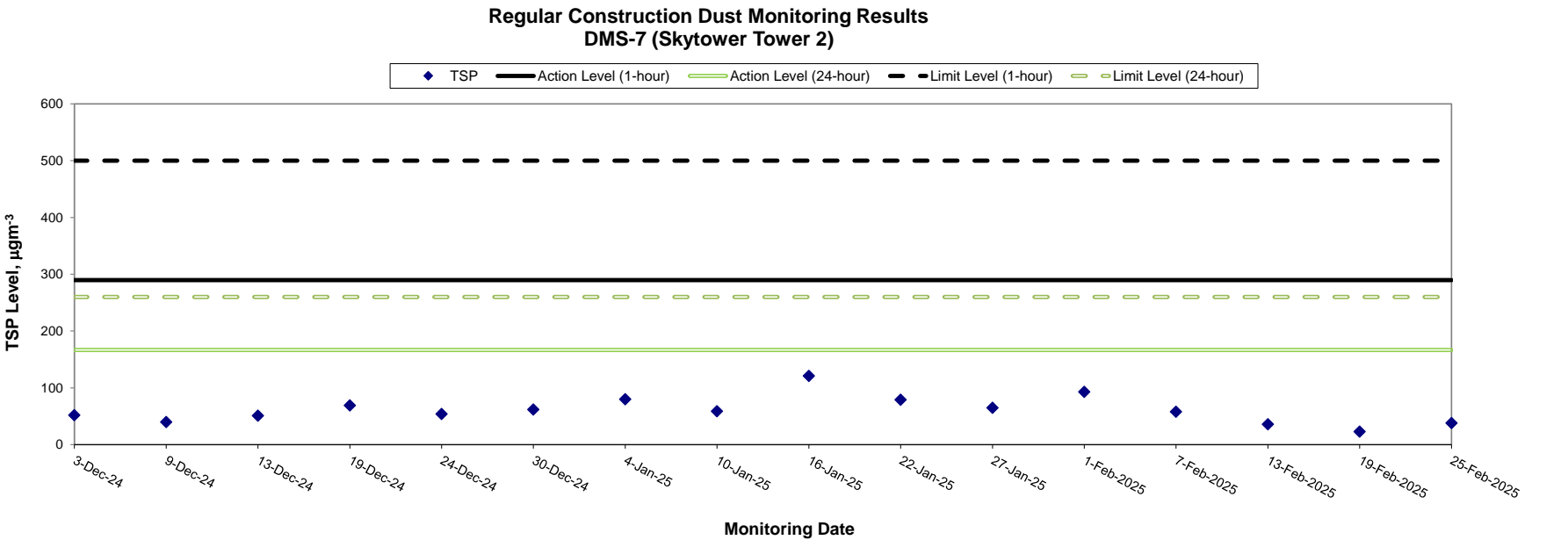
## APPENDIX J REGULAR DUST MONITORING RESULTS

## Appendix J - Construction Dust Monitoring Results

Station DMS-7 Skytower Tower 2

Start		Finish		Weather	Sampling Time	Measurement (µg/m3)	Action Level	Limit Level	Observations / Remarks	Dust Meter Model / ID
Date	Time	Date	Time		(hrs)		(µg/m3)	(µg/m3)		
1-Feb-2025	09:08	2-Feb-25	09:08	Cloudy	24.00	93.0	166.7	260	Construction, work in progress	Tisch Environmental 3987
7-Feb-2025	09:06	8-Feb-25	09:06	Cloudy	24.00	58.0	166.7	260	Construction, work in progress	Tisch Environmental 3988
13-Feb-2025	09:06	14-Feb-25	09:06	Cloudy	24.00	36.0	166.7	260	Construction, work in progress	Tisch Environmental 3989
19-Feb-2025	09:06	20-Feb-25	09:06	Cloudy	24.00	23.0	166.7	260	Construction, work in progress	Tisch Environmental 3990
25-Feb-2025	09:09	26-Feb-25	09:09	Cloudy	24.00	38.0	166.7	260	Construction, work in progress	Tisch Environmental 3991

Appendix J - Construction Dust Monitoring Results



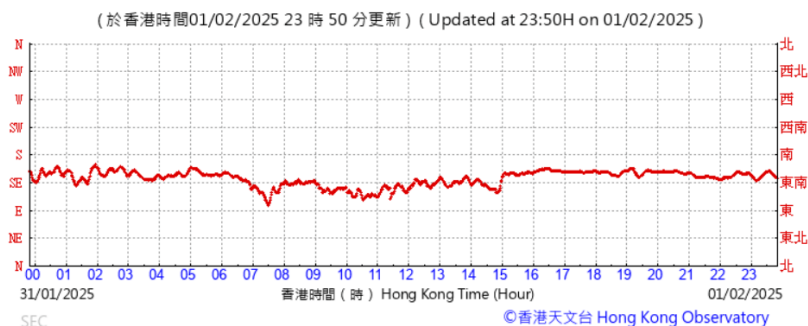
\* The measurement has been updated to 24-hour TSP Level and the monitoring station has changed from Parc 22 to Skytower Tower 2 starting from 27 Oct 2023.



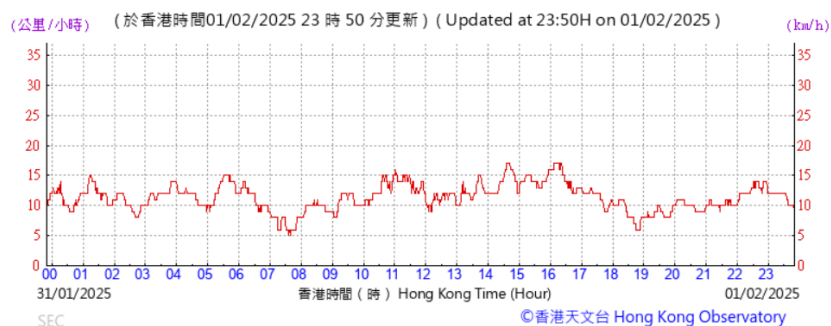
## APPENDIX K WIND DATA FROM HONG KONG OBSERVATORY

## Appendix K – Wind data obtained from the Kai Tak meteorological station from the Hong Kong Observatory

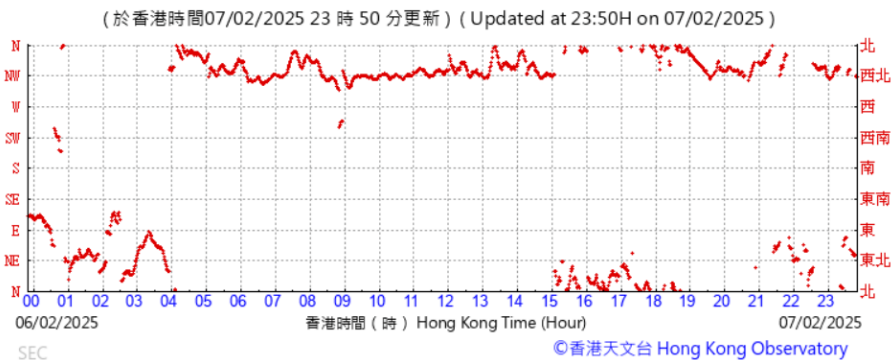
Wind Direction:



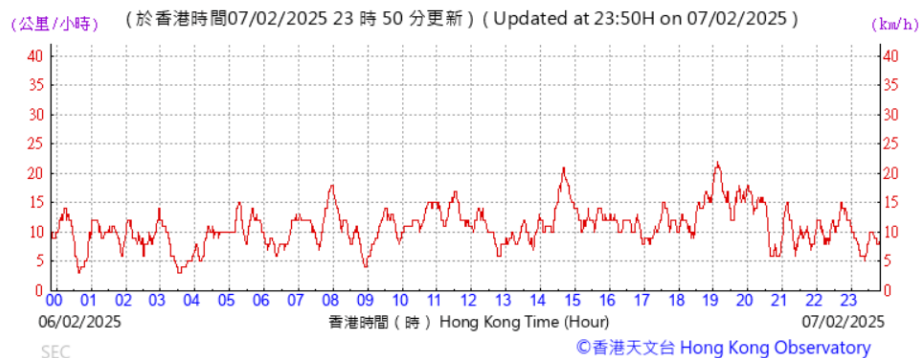
Wind Speed:



Wind Direction:

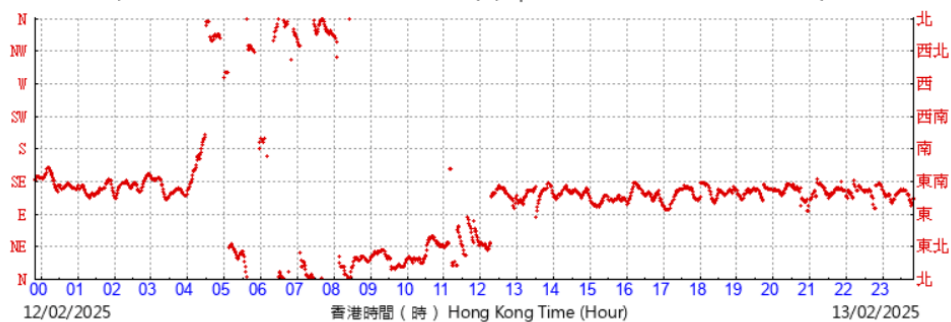


Wind Speed:



Wind Direction:

(於香港時間13/02/2025 23 時 50 分更新) (Updated at 23:50H on 13/02/2025)



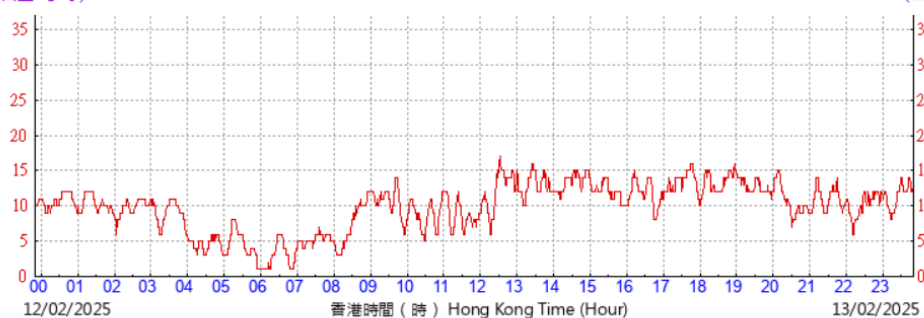
SEC

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Wind Speed:

(公里/小時) (於香港時間13/02/2025 23 時 50 分更新) (Updated at 23:50H on 13/02/2025)

(km/h)

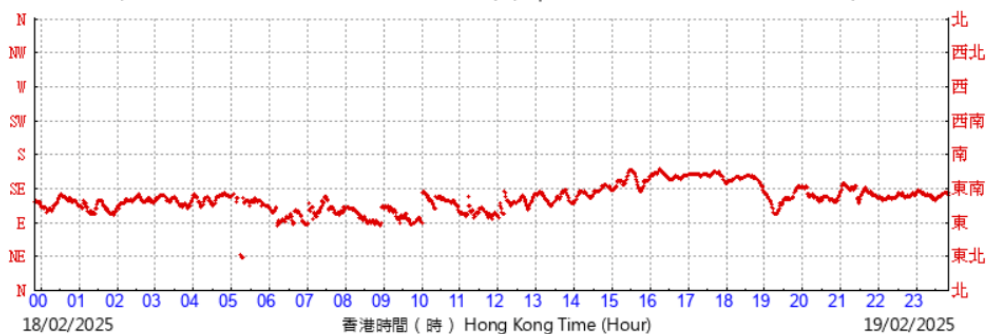


SEC

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Wind Direction:

(於香港時間19/02/2025 23 時 50 分更新) (Updated at 23:50H on 19/02/2025)



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Wind Speed:

(公里/小時) (於香港時間19/02/2025 23 時 50 分更新) (Updated at 23:50H on 19/02/2025)

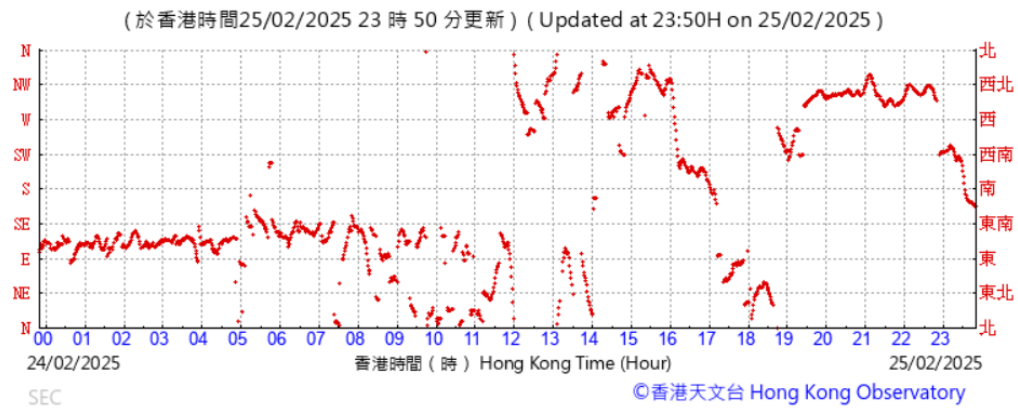
(km/h)



SEC

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Wind Direction:



Wind Speed:





## APPENDIX L WASTE FLOW TABLE



CONTRACT 11286 –  
PEDESTRIAN LINK CONNECTING PAK TAI STREET AND SUNG WONG TOI STATION

Month	Actual Quantities of Inert C&D Material Generated						Actual Quantities of Non-Inert C&D Material Generated				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal (Note 1)	Paper / carboard packing (Note 1)	Plastic (Note 1,2)	Chemical Waste	Other, e.g. general refuse
	(in '000 m³)	(in '000 m³)	(in '000 m³)	(in '000 m³)	(in '000m³)	(in '000m³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)
Jan	4.80	0	0	0	4.80	0	0	0	0	0	0
Feb	2.1	0	0	0.05	2.03	0	0	0	0	0	0.02
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0
Grand Total	6.88	0	0	0.05	6.83	0	0	0	0	0	0.02

Year	Actual Quantities of Inert C&D Material Generated						Actual Quantities of Non-Inert C&D Material Generated				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal (Note 1)	Paper / carboard packing (Note 1)	Plastic (Note 1,2)	Chemical Waste	Other, e.g. general refuse
	(in '000 m³)	(in '000 m³)	(in '000 m³)	(in '000 m³)	(in '000m³)	(in '000m³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)
2023	2.28	0	0	0	2.28	0	0	0	0	0	0
2024	11.22	0	0	0	11.22	0	0	0	0	0	0
2025	6.88	0	0	0.05	6.83	0	0	0	0	0	0.02
2026											

- Note: (1) Metal, paper & platic were collected by recycler  
(2) Plastic refer to plastic bottles / containers, plastic sheets / foam from packaging  
(3) Use the conversion factor, density of general refues (0.75 tonne / m3), soft inert C&D materials (2 tonnes/m3) and hard rocks / big boulders (2.5 tonne/m3).  
(4) 1 tonne = 1000 kg



APPENDIX M ENVIRONMENTAL COMPLAINT,  
ENVIRONMENTAL SUMMON AND PROSECUTION LOG

**Appendix M Environmental Complaint, Environmental Summon and Prosecution Log**

Reporting Period	Number of Complaints in Reporting Period	Number of Summons/Prosecutions in Reporting Period
15 – 30 July 2023	0	0
August 2023	0	0
September 2023	1	0
October 2023	0	0
November 2023	0	0
December 2023	0	0
January 2024	0	0
February 2024	0	0
March 2024	0	0
April 2024	0	0
May 2024	0	0
June 2024	0	0
July 2024	0	0
August 2024	0	0
September 2024	0	0
October 2024	0	0
November 2024	0	0
December 2024	0	0
January 2025	0	0
February 2025	0	0
Overall Total	1	0



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**Appendix B**

**Monthly EM&A Report for  
SCL (TAW-HUH) and SCL(MKK-HUH) –  
Re-provisioning of Ma Chai Hang Recreation Ground  
(Contract No. 11234)**

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# Monthly Environmental Monitoring and Audit Report (February 2025)

Re-provision of Ma Chai Hang Recreation Ground (Contract No. 11234)

0165/22/ED/0578

# Document Control

## Document Information

Document Title	Monthly Environmental Monitoring and Audit Report (February 2025)
Issue Status	Revision 0

## Main Contractor Information

Main Contractor	Build King Civil Eng. Ltd.
Main Contractor Address	Units 601-605A, 6/F, Tower B, Manulife Financial Centre, 223 Wai Yip Street, Kwun Tong, Kln
Main Contractor Contact	Mr Pogen Ho/ Mr Jason Law / Ms Louisa Fung

## Revision History

Issue	Date	Status	Prepared By	Checked By	Approved By
0	12 March 2025	Initial Issue	EH	MS	AF

## Project Team

Initials	Name	Role
AF	Alfred Fong	Environmental Team Leader
MS	Michelle Shum	Environmental Consultant
EH	Eric Ho	Project Consultant

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Figure 2	Air Monitoring Location
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## Executive Summary

- i. The Build King Civil Engineering Limited (BKCEL) (hereafter referred to as “the Contractor”) has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This is the monthly Environmental Monitoring and Audit (EM&A) Report for February 2025 prepared by Fugro Technical Services Limited (FTS), the designated Environmental Team (ET), for the Project “Re-provision of Ma Chai Hang Recreation Ground (Contract No. 11234)”. This Monthly EM&A report presents the environmental monitoring and audit works for the period between 1 February 2025 and 28 February 2025. As informed by the Contractor, major activities in the reporting month were summarized as below:
  - Site Clearance,
  - Installation of mesh for football pitch fence
  - Laying of artificial turfing system
  - Testing and Commissioning for football pitch
  - Hard & Soft landscaping

### Breaches of the Action and Limit Levels

- iii. 24-hour impact monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- iv. Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.

### Environmental Auditing

- v. Total of 4 weekly environmental site audits were conducted during the reporting period. The site inspections held on 5, 10, 17, and 24 February 2025 were joint inspection with the ER, the Contractor and the ET during the reporting period. No non-conformance to the environmental requirements was identified during the reporting period.

### Complaint, Notification of Summons and Successful Prosecution

- vi. No complaint case was received during the reporting period.

### Reporting Changes

- vii. There was no reporting change in the reporting month.

### Future Key Issues

- viii. The key issues to be considered in the coming reporting month include:

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water quality, waste management and landscape and visual impact.

# 1. Introduction

## 1.1 Background

- 1.1.1 The Shatin to Central Link – Tai Wai to Hung Hom Section (hereafter referred to as SCL (TAW-HUH)) is an extension of the Ma On Shan Line and links up with the West Rail Line at Hung Hom forming a strategic east-west rail corridor. It is a Designated Project under the Environmental Impact Assessment Ordinance (Cap.499) (EIAO).
- 1.1.2 Contract No. SCL 11234 – Re-provisioning of Ma Chai Hang Recreation Ground (MCHRG) (hereafter referred as “the Contract”), is the remaining reinstatement works of SCL.
- 1.1.3 The Environmental Monitoring and Audit (EM&A) programme under this Contract is governed by the Environmental Permit (EP) (EP No: EP-438/2012/L) and the EM&A Manual (Reference No.: 0165/22/ED/0219). The Works to be executed under this Contract and corresponding EPs include but not be limited to the following main items:
- Construction of an 11-A-Side Artificial Turf Football Pitch
  - Hard & Soft Landscape
- 1.1.4 The location and boundary of the site is shown in **Figure 1**.
- 1.1.5 This Monthly EM&A report is required under EP-438/2012/L Condition 3. It is to report the results and findings of the EM&A programme required in the agreed proposal for resumption EM&A Works.
- 1.1.6 This is the monthly EM&A Report for February 2025 which summarized the impact monitoring results and audit findings for Construction of Ma Chai Hang Recreation Ground (MCHRG) (hereafter referred as “the Project”) within the period between 1 February and 28 February 2025.

## 1.2 Construction Programme

- 1.2.1 This project was commenced in November 2022 and the construction works is expected to be completed in May 2025. The construction programme is shown in **Appendix A**.

### 1.3 Work Undertaken During the Reporting Month

1.3.1 A summary of the major construction activities undertaken in the reporting month were shown in below:

- Site Clearance,
- Installation of mesh for football pitch fence
- Laying of artificial turfing system
- Testing and Commissioning for football pitch
- Hard & Soft landscaping

### 1.4 Project Organization

1.4.1 Contacts of key environmental staff of the Project and are shown in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Proponent (MTRC Limited)	Chief Construction Manager	Mr. Jacky Mak	3127 6201
	Project-wide Environmental Team Leader	Mr. Rodney Ip	2688 1760
IEC	Independent Environmental Checker	Ms. Claudine Lee	2859 5409
Main Contractor (Build King Civil Engineering Limited)	Project Manager	Mr. Craig Higgins	9220 1442
	Environmental Officer	Ms. Louisa Fung	9271 5370
ET (FTS)	Environmental Team Leader	Mr. Alfred Fong	9273 0715
	Environmental Team Member	Ms. Yenny Yu	6219 5125

## 1.5 Status of Environmental Licenses, Notifications and Permits

- 1.5.1 A summary of the relevant environmental licenses permits and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

Table 1.2 Summary of Environmental Licensing Status

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit	EP-438/2012/L	16/08/2024	NA
Notification of Construction Works under Air Pollution (Construction Dust) Regulation	351345	22/10/2012	NA
Billing Account for Disposal of Construction Waste	7045214	03/10/2022	NA
Chemical Waste Producer Registration	5293-282-B2500-09	20/10/2022	NA
Effluent Discharge License	WT00043112-2023	13/02/2023	29/02/2028
Construction Noise Permit	GW-RE0910-24	00:00 of 05/08/2024	24:00 of 04/02/2025
Construction Noise Permit	GW-RE0058-25	00:00 of 05/02/2024	24:00 of 04/08/2025

## 1.6 Project Area and Environmental Monitoring Location

- 1.6.1 The project area is shown in **Figure 1**. **Table 1.3** summarizes the name and location of air quality and noise monitoring station.

Table 1.3 Summary of Air Quality and Noise Monitoring

ID	Premise
Air Quality	
DMS-2	Price Memorial Catholic Primary School
Noise	
NMS-CA-2	Price Memorial Catholic Primary School

## 1.7 Impact Monitoring Schedule

- 1.7.1 Environmental Monitoring and audit was carried out in accordance with the requirements stipulated in the EM&A Manual. Air quality and noise monitoring as well as site audit schedule for the reporting month with respect to the construction programme is shown in **Appendix B**.

## 2. Implementation Status

### 2.1 Implementation Status of Mitigation Measure

- 2.1.1 During weekly site inspection, the environmental protection, and pollution control/ mitigation measures in accordance with the requirements stipulated in EIA were observed. The key observations and ET's corresponding recommendations. The Contractor's response and follow-up status are described in **Section 7.1**.

### 2.2 Updated Implementation Schedule

- 2.2.1 According to the Environmental permit, the mitigation measures detailed in the permits are required to be implemented. The Implementation Schedule of Mitigation Measures was inspected during the weekly site inspections in reporting month. The details of the findings/observations are described in **Section 7.1**. An updated summary of the Implementation Schedule of Mitigation Measures is presented in **Appendix C**.

## 3. Landscape and Visual Monitoring

### 3.1 Introduction

- 3.1.1 In accordance with the EM&A Manual, the landscape and visual mitigation measures shall be implemented and a site inspection shall be conducted once every two weeks throughout the construction period.

### 3.2 Mitigation Measure

- 3.2.1 Bi-weekly inspection of landscape and visual mitigation measures were conducted on 10 and 24 February 2025 during the reporting period.

## 4. Waste Disposal

### 4.1 Waste Requirement

- 4.1.1 The amount of wastes generated by the site activities in the reporting month is shown in **Appendix J**.

## 5. Air Quality

### 5.1 Monitoring Requirements

- 5.1.1 In accordance with the EM&A Manuals, 24-hour Total Suspended Particulates (TSP) level at the designated air quality monitoring station are required during the construction period. And 1-hour TSP levels shall be monitored in case of complaints received. The monitoring frequency is summarised in **Table 3.1**.

Table 5.1 Air Quality Monitoring Parameters and Frequency

Parameters	Monitoring Frequency
24-hour TSP	Once every 6 days
1-hour TSP	3 times every 6 days (as required in case of complaints)

### 5.2 Monitoring Location

- 5.2.1 In accordance with the EM&A Manual and the subsequent Baseline Monitoring Report, 1 air quality monitoring locations during construction stage are required. The locations of the air quality monitoring station is shown below in **Table 3.2**:

Table 5.2 Air Quality Monitoring Location

ID	Premise
DMS-2	Price Memorial Catholic Primary School

### 5.3 Wind Monitoring

- 5.3.1 Wind monitoring data including wind speed and wind directions shall be collected from Hong Kong Observatory – Kai Tak Meteorological Stations and shown in **Appendix F**.

### 5.4 Environmental /Quality Performance Limits

- 5.4.1 The monitoring results will be checked against the Action and Limit levels described in the Baseline Monitoring Report, of which they are excerpted and summarised in **Table 5.3**.

Table 5.3 Action / Limit Levels for Air Quality

Parameters	Monitoring Location	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
1-hour TSP Level in $\mu\text{g}/\text{m}^3$	Price Memorial Catholic Primary School	276.2	500
24-hour TSP Level in $\mu\text{g}/\text{m}^3$		167.4	260

Remark: 1-hr TSP monitoring would be required in case if receiving complaints.

## 5.5 Monitoring Equipment

- 5.5.1 The 24-hour and 1-hour TSP air quality monitoring was performed using High Volume Air Samplers (HVS) located at the monitoring station. **Table 5.4** summarizes the equipment used in air quality monitoring.

Table 5.4 24-hour TSP Monitoring Equipment

Item	Location	Model	Equipment	Serial Number
1	DMS-2	TE-5170	High Volume Sampler	4316
2		TE-5025A	HVS Calibration Kit	2456
3		-	Fiberglass Filter	M15692, M15506, M15507, M15689, M15694

## 5.6 Monitoring Procedures

### 5.6.1 High Volume Sampler

High volume samplers (HVSs) complying with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:

- I. 0.6 - 1.7 m<sup>3</sup> per minute adjustable flow range;
- II. equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- III. installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- IV. capable of providing a minimum exposed area of 406 cm<sup>2</sup>;
- V. flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- VI. equipped with a shelter to protect the filter and sampler;
- VII. incorporated with an electronic mass flow rate controller or other equivalent devices;
- VIII. equipped with a flow recorder for continuous monitoring;
- IX. provided with a peaked roof inlet;
- X. incorporated with a manometer;
- XI. able to hold and seal the filter paper to the sampler housing at horizontal position;
- XII. easily changeable filter; and
- XIII. capable of operating continuously for a 24-hour period.

- 5.6.2 The HVS was equipped with an electronic mass flow controller and calibrated against a traceable standard at regular intervals. All equipment, calibration kit and filter papers were clearly labelled.

- 5.6.3 The relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and other special phenomena observed and work progress of the concerned site were recorded.



- 5.6.4 A HOKLAS accredited laboratory (Fugro Technical Services Limited (HOKLAS no.: 015)), in accordance with their standard QA/QC procedures, with constant temperature and humidity control as well as equipped with necessary measuring and conditioning instruments to handle the 24-hour TSP samples was employed for sample analysis, and equipment calibration and maintenance. Filter papers of size 8"x10" were labelled before sampling. They were inspected clean with no pin holes and conditioned in a humidity controlled chamber for over 24-hour and be pre-weighed before use for the sampling.
- 5.6.5 The 24-hour TSP levels were measured by following the standard High Volume Method for Total Suspended Particulates as set out in the Title 40 of the United States Code of Federal Regulations, Chapter 1 (Part 50), Appendix B. TSP was sampled by drawing air through a conditioned, pre-weighed filter paper inside the HVS at a controlled air flow rate. After 24-hour sampling, the filter papers loaded with dust were kept in a clean and tightly sealed plastic bag, and then returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with a readout down to 0.1 mg. All the collected samples shall be kept in a good condition for 6 months before disposal.

## 5.7 Monitoring Maintenance and Calibration

### 5.7.1 High Volume Sampler

The HVS and their accessories were frequently checked and maintained in accordance with the manufacturer's operation and maintenance manual. The maintenance included checking of supporting screen and gasket, as well as routine replacement of motor carbon brushes for the blower motor. The power cords and power supply were checked each time before sampling to ensure proper operation.

The HVS was calibrated at 2-month intervals using TE-5025A calibration kit which is re-calibrated by the manufacturer after one year of use. The calibration spreadsheets of the HVS and calibration certificate of the calibration kit are provided in **Appendix D**.

## 5.8 Monitoring Results and Observations

- 5.8.1 Monitoring of 24-hour TSP was conducted on 1, 7, 13, 19, and 25 February 2025 at DMS-2. All monitoring data and graphical presentation of the monitoring results are provided in **Appendix E** and are summarised in **Table 5.5**. Wind data obtained from the Hong Kong Observatory – Kai Tak station during the reporting period are presented in **Appendix F**.

Table 5.5 Summary of Impact Air Quality Monitoring Results

Monitoring Station	24-hour TSP Monitoring Result ( $\mu\text{g}/\text{m}^3$ )		Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
	Average	Range		
DMS – 2	47.0	12.9 – 89.6	167.4	260

- 5.8.2 All 24-hour TSP measurements during the reporting month were below the Action/Limit Level. No exceedance of action and limit level was found. The event and action plan is provided in **Appendix I.**

## **5.9 General Observations**

- 5.9.1 Major construction works including site clearance and Construction of football field fence footing.

## 6. Noise Monitoring

### 6.1 Monitoring Parameters

- 6.1.1 Construction noise shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). L<sub>10</sub> and L<sub>90</sub> shall also be recorded as supplementary reference information for data auditing.

### 6.2 Monitoring Frequency

- 6.2.1 Noise measurements shall be conducted on a weekly basis. The monitoring time periods, monitoring parameters and frequency are summarised in **Table 6.1**.

Table 6.1 Construction Noise Monitoring Parameters and Frequency

Time Period (When construction activity is found)	Parameters	Monitoring Frequency
Between 0700 – 1900 hours on normal weekdays	L <sub>eq</sub> (30 min)	Once per week

### 6.3 Monitoring Location

- 6.3.1 In accordance with the EM&A Manual and the subsequent Baseline Monitoring Report, 1 noise monitoring location during the construction stage are required, the detail are shown as below:

Table 6.2 Noise Monitoring Locations

ID	Premise
NMS-CA-2	Price Memorial Catholic Primary School

### 6.4 Environmental /Quality Performance Limits

- 6.4.1 The monitoring results will be checked against the Action and Limit levels described in the Baseline Monitoring Report, of which they are excerpted and summarised in **Tables 6.3**.

Table 6.3 Action and Limit Levels of Construction Noise

Location	Time Period	Action Level	Limit Level dB (A)
NMS-CA-2	0700 – 1900 hours on normal weekdays	When one documented complaint is received	70/65 <sup>[1]</sup>

- Remark:
- [1] For normal daytime working hours, the noise criteria is 70 dB(A) and 65 dB(A) for normal teaching periods and examination periods respectively.
  - [2] 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.

## 6.5 Monitoring Equipment

- 6.5.1 Noise level was measured by a Sound Level Meter (SLM) in terms of A-weighted equivalent continuous sound pressure level.  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  were recorded as supplementary information for data auditing. **Table 6.4** shows the equipment list of the noise monitoring.

Table 6.4 Noise Equipment List for Impact Noise Monitoring

Item	Brand	Model No.	Equipment	Serial No.
1	Casella	CEL-120 Series	Calibrator	2092809
2	Casella	CEL-63X	Integrating Sound Level Meter	2206937

## 6.6 Monitoring Procedures

- 6.6.1 The monitoring procedures are as follows:

- The monitoring station is set at a point 1m from the exterior of the sensitive receivers building façade and set at a position 1.2m above the ground.
- The battery condition is checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time are set as follows:
  - frequency weighting : A
  - time weighting : Fast
  - measurement time : Weekly 30 minutes between 0700-1900 on normal weekdays
- Prior to and after noise measurement, the meter shall be calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement will be considered invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
- Noise monitoring should 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.
- Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
- At the end of the monitoring period, the  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  are recorded. In addition, site conditions and noise sources are recorded on a standard record sheet.

## 6.7 Maintenance and Calibration

- 6.7.1 Maintenance and Calibration procedures are as follows:

- The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator should be calibrated annually by a HOKLAS laboratory.
- The SLM and calibrator in compliance with the International Electrotechnical Commission (IEC) Publication 651:1979 (Type 1) and 804:1985 (Type 1) specifications according to the EM&A manual.
- SLM complying with the standards of IEC 651 (Fast, Slow, Impulse rms detector tests) and IEC 804 ( $L_{eq}$  functions) and acoustical calibrator complying with IEC 942 were adopted for the noise measurement. All equipment are calibrated externally.

- Relevant calibration certificates are provided in **Appendix G**.

## 6.8 Monitoring Results and Observations

- 6.8.1 Monitoring of the construction noise level was conducted on 7, 13, 19, and 25 February 2025 at NMS-CA-2. All monitoring data and graphical presentation of the monitoring results are provided in **Appendix H** and are summarised in **Table 6.5**.

Table 6.5 Summary of Impact Noise Monitoring

Date	Time	Measured Noise Level <sup>[1]</sup> , dB (A)	Baseline Noise Level, dB (A)	Corrected Noise Level <sup>[2]</sup> , dB (A)	Limit Level <sup>[3]</sup> , dB(A)
		L <sub>eq</sub> (30min)	L <sub>eq</sub> (30min)	L <sub>eq</sub> (30min)	L <sub>eq</sub> (30min)
7-Feb-25	9:32	68.5	66.0	64.9	70 (non-exam period)
13-Feb-25	9:45	69.6		67.1	
19-Feb-25	9:26	69.2		66.4	
25-Feb-25	9:40	70.1		68.0	

- Remark:
- [1] Measured Noise Level is corrected against a +3 dB( A) correction for free-field measurement.
- [2] Corrected Noise Level is corrected against the corresponding Baseline Level.
- $$\text{Corrected Noise Level, } L_{\text{corrected}} = 10 \log \left( 10^{\frac{L_{\text{measured}}}{10}} - 10^{\frac{L_{\text{baseline}}}{10}} \right)$$
- Where L<sub>measured</sub> and L<sub>baseline</sub> represent Measured Noise Level and Baseline Noise Level respectively.
- [3] For normal day-time working hours, the noise criteria is 70 dB(A) and 65 dB(A) for normal teaching periods and examination periods respectively.

## 6.9 Exceedance of Limit and Action Levels for Construction

- 6.9.1 No Action Level and Limit Level exceedance of construction noise was recorded during the reporting month.

## 6.10 General Observation

- 6.10.1 According to the onsite observation, no raining was observed and no wind speed over 5 m/s was measured during the noise monitoring. The weather conditions during the monitoring month are provided in **Appendix F**.
- 6.10.2 The construction site has been under normal operation during the noise monitoring period and no unusual operation was observed.

## 7. Environmental Performance

### 7.1 Environmental Site Inspection

7.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures during the reporting period is presented in **Table 7.1**.

7.1.2 In the reporting month, 4 site inspections were carried out on 5, 10, 17, and 24 February 2025.

Table 7.1 Key Findings of Weekly Environmental Site Audit

Inspection Date	Observations / Reminders/ Recommendations	Follow Up Action	Completion Date
Follow up action(s) of last reporting month	NIL	NA	NA
<b>Weekly Site Inspection</b>			
5/02/2025	<u>Observation:</u> 1. No Observation during this site inspection.	N/A	N/A
10/02/2025	<u>Observation:</u> 1. No Observation during this site inspection.	N/A	N/A
17/02/2025	<u>Observation:</u> 1. No Observation during this site inspection.	N/A	N/A
24/02/2025	<u>Observation:</u> 1. The Stockpile should be watered or covered to prevent dust  2. The water spraying in the main haul road should be kept reviewing to prevent dust	1. The stockpile was covered to prevent dust  2. The water spraying in the main haul road has been kept reviewing to prevent dust	Completed on 26 Feb 2025.  Completed on 26 Feb 2025.

## 7.2 Summary of Environmental Complaint

- 7.2.1 No complaints were received in the reporting period. The updated statistical summary of complaint is presented in **Table 7.2**.

Table 7.2 Summary of Complaints

Reporting Period	Complaint Statistics		Area of Concern	Status
	Number	Cumulative		
01/02/2025 – 28/02/2025	0	0	NA	NA

- 7.2.2 No notification of summons or successful prosecutions were received in the reporting period.
- 7.2.3 The Cumulative exceedances, complaint log, notification of summons and successful prosecutions are presented in **Appendix K**.

## 7.3 Summary of Environmental Non-Compliance

- 7.3.1 There was no non-compliance identified during the reporting month, so review of the non-compliance was not required.

## 7.4 Summary of Environmental Summon and Successful Prosecution

- 7.4.1 No summons of prosecutions related to environmental issues were received or made against the project in the reporting month.

## 8. Future Key Issues

### 8.1 Key Issues for the Coming Month

8.1.1 Works to be undertaken in the coming reporting month are summarised in **Table 8.1** as below.

Table 8.1 Tentative Programme of Construction Works for the Coming Month

	Major Works Undertaken
March 2025	<ul style="list-style-type: none"><li>- Installation of mesh for football pitch fence</li><li>- Laying of artificial turfing system</li><li>- Testing and commissioning for football pitch</li><li>- Hard &amp; Soft Landscaping</li></ul>
April 2025	<ul style="list-style-type: none"><li>- Installation of mesh for football pitch fence</li><li>- Laying of artificial turfing system</li><li>- Testing and Commissioning for football pitch</li><li>- Hard &amp; Soft landscaping</li></ul>
May 2025	<ul style="list-style-type: none"><li>- Installation of mesh for football pitch fence</li><li>- Laying of artificial turfing system</li><li>- Testing and Commissioning for football pitch</li><li>- Hard &amp; Soft landscaping</li></ul>

### 8.2 Environmental Monitoring Program for the Coming Month

8.2.1 Environmental monitoring and audit will be carried out in accordance with the requirements stipulated in the EM&A manual. Tentative air and noise monitoring as well as weekly site audit schedule for the coming month with respect to the construction programme is shown in **Appendix B**.

### 8.3 Construction Programme for the Coming Month

8.3.1 The construction programme for the coming month is shown in **Appendix A**.



## 9. Comments, Recommendations and Conclusion

### 9.1 Effectiveness and Efficiency of Mitigation Measures

- 9.1.1 The regularly site inspections and environmental impact monitoring ensured that all the environmental mitigation measures recommended in EM&A Manual were effectively implemented. Despite the deficiencies found during site audits, the Contractor had taken appropriate actions to rectify deficiencies within a reasonable timeframe, and no exceedance related to the project was observed. Therefore, the effectiveness and efficiency of the mitigation measures were considered satisfactory for most of the time.

### 9.2 Improvement in the EM&A Programme

- 9.2.1 The EM&A programme was considered successfully and adequately conducted in the reporting period.

### 9.3 Conclusions

- 9.3.1 This is the monthly EM&A Report for February 2025 which summaries the results and findings of the EM&A programme required for the Project from 1 February and 28 February 2025.
- 9.3.2 No exceedance of the Action and Limit Levels of regular construction noise was recorded at the designated monitoring stations during the reporting period.
- 9.3.3 No exceedance of the Action and Limit Levels of 24-hour TSP monitoring was recorded at the designated monitoring stations during the reporting period.
- 9.3.4 No complaints were received in the reporting period.
- 9.3.5 No notification of summons or successful prosecutions were received in the reporting period.
- 9.3.6 There was no reporting change required in the reporting period.
- 9.3.7 Potential environmental impacts due to the construction activities will be monitored or reviewed. The ET will continue to implement the environmental monitoring & audit programme in accordance with the EM&A Manual and Environmental Permit requirements. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

**Figure 1**

**Locations of Project Works Areas – Site Layout Plan of Ma Chai Hang**



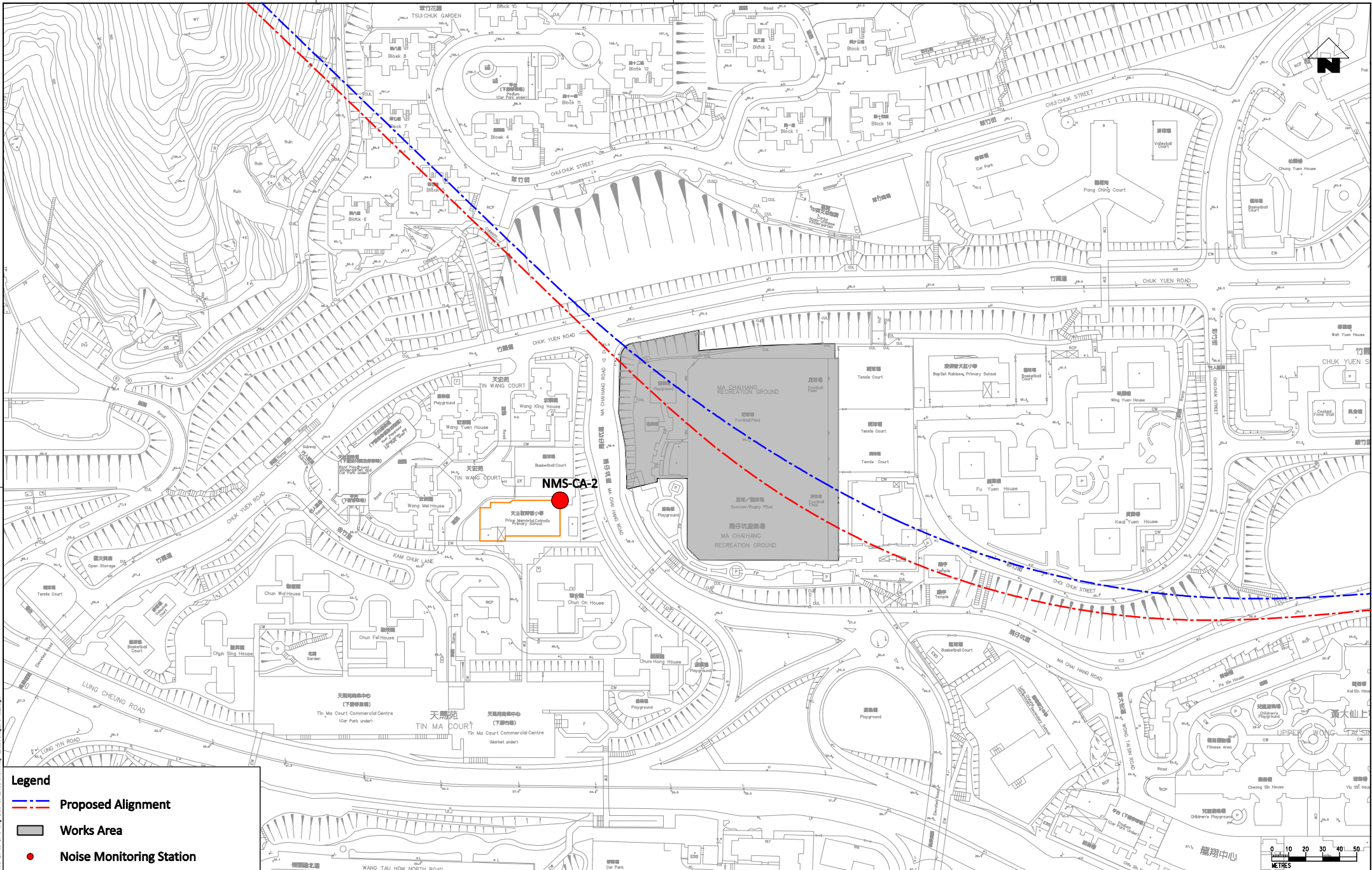
**Figure 2**  
**Air Monitoring Location**



**Figure 3**  
**Noise Monitoring Location**



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MODE NAME: 1:2000 (A3)  
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DATE: 3/12/2003  
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**Legend**

- Proposed Alignment
- Works Area
- Noise Monitoring Station

DRAWN				CL				MTR				TITLE			
DESIGNED				CL				SHATIN TO CENTRAL LINK				CONTRACT 1103			
CHECKED				CN				HIN KENG TO DIAMOND HILL TUNNELS				Locations of Noise Monitoring Stations			
APPROVED				ST				(Construction Airborne Noise)				(Sheet 2 of 3)			
DATE				12/12				ORIGINATOR				SCALE			
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE TAKEN FROM THE DRAWING.				ARUP				1:2000 (A3)				DRAWING NO.			
COPYRIGHT © 2003 BY ARUP CORPORATION LIMITED. ALL RIGHTS RESERVED. NO PART OF THIS PUBLICATION MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM ARUP CORPORATION LIMITED.				Ove Arup & Partners				Figure 1.12				REV.			
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**Appendix A**  
**Construction Programme**



Construction activities	Start	Finish	2024								2025				
			5	6	7	8	9	10	11	12	1	2	3	4	5
Site Clearance	Mar-24	May-25													
Construction of football pitch fence footing	Mar-24	Nov-24													
Erection of steel frames	Nov-24	Jan-25													
Installation of mesh for football pitch fence	Dec-24	May-25													
Laying of artificial turfing system	Jan-25	May-25													
Testing and commissioning for football pitch	Jan-25	May-25													
Hard & Soft landscaping	Jan-25	May-25													

**Appendix B**

**Environmental Monitoring Programme**

## Monitoring Schedule

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
02/2025							1 A
	2	3	4	5	6	7 A & N	8
	9	10	11	12	13 A & N	14	15
	16	17	18	19 A & N	20	21	22
	23	24	25 A & N	26	27	28	

## Tentative Monitoring Schedule

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
03/2025							1
	2	3 A & N	4	5	6	7	8 A
	9	10	11	12	13	14 A & N	15
	16	17	18	19	20 A & N	21	22
	23/30	24/31	25	26 A & N	27	28	29
04/2025			1 A & N	2	3	4	5
	6	7 A & N	8	9	10	11	12 A
	13	14	15	16	17 A & N	18	19
	20	21	22	23 A & N	24	25	26
	27	28	29 A & N	30			

Remark:

1. A: Impact Air Quality Monitoring.
2. N: Impact Noise Monitoring.
3. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition, etc

## **Appendix C**

### **Environmental Mitigation Implementation Schedule (EMIS)**

## Updated Environmental Mitigation Implementation Schedule – Contract SCL 11234\_Re-provision Ma Chai Hang Recreation Ground

Notes (\*): ✓ - Compliance; N/A – Not Applicable; N/O – Not Observed; N/C – Non-Compliance

EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
<b>Landscape and Visual (Construction Phase)</b>							
S6.9.3	LV1	<p>The following good site practices and measures for minimisation and avoidance of potential impacts are recommended:</p> <p><u>Re-use of Existing Soil</u></p> <ul style="list-style-type: none"> <li>For soil conservation, existing topsoil shall be re-used where possible for new planting areas within the project. The construction program shall consider using the soil removed from one phase for backfilling another. Suitable storage ground, gathering ground and mixing ground may be set up on-site as necessary.</li> </ul> <p><u>No-intrusion Zone</u></p> <ul style="list-style-type: none"> <li>To maximize protection to existing trees, ground vegetation and the associated under storey habitats, construction contracts may designate “No-intrusion Zone” to various areas within the site boundary with rigid and durable fencing for each individual no-intrusion zone. The contractor should closely monitor and restrict the site working staff from entering the “no-intrusion zone”, even for indirect construction activities and storage of equipment.</li> </ul> <p><u>Protection of Retained Trees</u></p> <ul style="list-style-type: none"> <li>All retained trees should be recorded photographically at the commencement of the Contract, and carefully protected during the construction period. Detailed tree protection specification shall be allowed and included in the Contract Specification, which specifying the tree protection requirement, submission and approval system, and the tree monitoring system.</li> <li>The Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor’s works sites.</li> </ul>	<ul style="list-style-type: none"> <li>Minimize visual &amp; landscape impact</li> </ul>	Within Project Site	Construction Stage	TM-EIAO	<p>NA</p> <p>✓</p> <p>✓</p>
S6.12	LV2	<ul style="list-style-type: none"> <li><u>Management of facilities on work sites</u></li> </ul> <p>To provide proper management of the facilities on the sites, give control on the height and disposition/ arrangement of all facilities on the works site to minimize visual impact to adjacent VSRs.</p>	Minimize visual & landscape impact	Within Project Site	Detailed design and construction stage	EIAO – TM ETWB TCW 2/2004 ETWB TCW 3/2006	✓

EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
		<ul style="list-style-type: none"> <li>• <u>Tree Transplanting</u></li> </ul> <p>Trees of high to medium survival rate would be affected by the works shall be transplanted where possible and practicable. Tree transplanting proposal including final location for transplanted trees shall be submitted separately to seek relevant government department's approval, in accordance with ETWB TCW No 3/2006.</p>					NA
<b>Construction Dust Impact</b>							
S7.6.5	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• APCO</li> <li>• To control the dust impact to meet HKAQO and TM-EIA criteria</li> </ul>	✓
S7.6.5	D2	<ul style="list-style-type: none"> <li>• Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road in the Kowloon area and once per 1.5 hour at those in the Tai Wai area should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.8 L/m2 to achieve the dust removal efficiency</li> </ul>	Minimize dust impact at the nearby sensitive receivers	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• APCO</li> <li>• To control the dust impact to meet HKAQO and TM-EIA criteria</li> </ul>	✓
	D3	<ul style="list-style-type: none"> <li>• Proper watering of exposed spoil should be undertaken throughout the construction phase;</li> <li>• Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.</li> <li>• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;</li> </ul>	Minimize dust impact at the nearby sensitive receivers	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• APCO</li> <li>• To control the dust impact to meet HKAQO and TM-EIA criteria</li> </ul>	✓  ✓  ✓  ✓

EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
		<ul style="list-style-type: none"> <li>Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> <li>When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing; Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;</li> <li>The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;</li> <li>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;</li> <li>Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> <li>Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>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;</li> <li>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;</li> </ul>					<ul style="list-style-type: none"> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> </ul>

EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
		<ul style="list-style-type: none"> <li>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; and</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> </ul>					✓  ✓
<b>Construction Noise (Airborne)</b>							
S8.3.6	N1	<p>Implement the following good site practices:</p> <ul style="list-style-type: none"> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction airborne noise	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Annex 5, TM-EIA</li> </ul>	✓ ✓ ✓ ✓ ✓
S8.3.6	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Annex 5, TM-EIA</li> </ul>	✓
S8.3.6	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressor, generators and saw.	Screen the noisy plant items to be used at all construction sites	All construction sites where practicable	Construction stage	<ul style="list-style-type: none"> <li>Annex 5, TM-EIA</li> </ul>	✓
S8.3.6	N4	Use "Quiet plants"	Reduce the noise levels of plant items	All construction sites where practicable	Construction stage	<ul style="list-style-type: none"> <li>Annex 5, TM-EIA</li> </ul>	✓



EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
S8.3.6	N5	Sequencing operation of construction plants where practicable	Operate sequentially within the same work site to reduce the construction airborne noise	All construction sites where practicable	Construction stage	• Annex 5, TM-EIA	✓
<b>Water Quality (Construction Phase)</b>							
S10.7.1	W1	In accordance with the Practice Noise for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following:	To minimize water quality impact from construction site runoff and general construction activities	All construction sites where practicable	Construction stage	<ul style="list-style-type: none"> <li>• Water Pollution Control Ordinance</li> <li>• ProPECC PN1/94</li> <li>• TM-EIAO</li> <li>• TM-Water</li> </ul>	✓
		<u>Construction Runoff and Site Drainage</u> <ul style="list-style-type: none"> <li>• At the start of site establishment (including the barging facilities), 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 on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>• The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>• 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. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m<sup>3</sup> /s a sedimentation basin of 30m<sup>3</sup> would be required and for a flow rate of 0.5 m<sup>3</sup> /s the basin would be 150 m<sup>3</sup>. The detailed design of the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction.</li> <li>• All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means.</li> </ul>					✓

EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
		<ul style="list-style-type: none"> <li>The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m<sup>3</sup> 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.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>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.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken 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, especially for areas located near steep slopes.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at every construction site exit 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-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.</li> </ul>					✓

EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
		<ul style="list-style-type: none"> <li>Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>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 water sensitive receivers nearby.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>All the earth works involving should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>Adopt best management practices</li> </ul>					✓
S10.7.1	W3	<u>Sewage Effluent</u> <ul style="list-style-type: none"> <li>Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.</li> </ul>	To minimize water quality from sewage effluent	All construction sites where practicable	Construction stage	<ul style="list-style-type: none"> <li>Water Pollution Control Ordinance</li> <li>TM-water</li> </ul>	✓
S10.7.1	W7	<p>In order to prevent accidental spillage of chemicals, the following is recommended:</p> <ul style="list-style-type: none"> <li>All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains.</li> </ul>	To minimize water quality impact from accidental spillage	All construction sites where practicable	Construction stage	<ul style="list-style-type: none"> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN1/94</li> <li>TM-EIAO</li> <li>TM-Water</li> </ul>	✓
		<ul style="list-style-type: none"> <li>The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings.</li> </ul>					✓
		<ul style="list-style-type: none"> <li>Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste disposal (Chemical Waste) (General) Regulation.</li> </ul>					✓

EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
<b>Waste Management (Construction Phase)</b>							
S11.5.1	WM1	<u>Construction and Demolition Material</u> <ul style="list-style-type: none"> <li>• Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> <li>• Carry out on-site sorting;</li> <li>• Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>• Adopt "Selective Demolition" technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> <li>• Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> <li>• Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• Land (Miscellaneous Provisions) Ordinance</li> <li>• Waste Disposal Ordinance</li> </ul>	✓  ✓  ✓  ✓  ✓



EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
S11.5.1	WM7	<p>to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.</p> <ul style="list-style-type: none"> <li>Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible.</li> <li>Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.</li> </ul>					<div>✓</div> <div>✓</div>
		<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> <li>Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> <li>Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.</li> <li>The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated.</li> <li>Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal.	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Waste Disposal (Chemical Waste) (General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	<div>✓</div> <div>✓</div> <div>✓</div> <div>✓</div>

EIA Ref.	EM & A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status*
S14.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	Control EM&A Performance	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• EIAO Guidance Note No.4/2010</li> <li>• TM-EIAO</li> </ul>	✓
S14.2 – 14.4	EM2	1) An Environmental Team needs to be employed as per the EM&A Manual.	Perform environmental monitoring & auditing.	All construction sites.	Construction stage	<ul style="list-style-type: none"> <li>• EIAO Guidance Note No.4/2010</li> <li>• TM-EIAO</li> </ul>	✓

## **Appendix D**

### **Calibration Certificates for Air Monitoring Equipment**



**RSP SAMPLER CALIBRATION CALCULATION SPREADSHEET**

Model: Tisch TE-5170				Date of Calibration: 29-Nov-24			
Location : Ma Chai Hang				Next Calibration Date: 27-Feb-25			
Serial No. : 4316				Technician: Eve Ma			
<b>CONDITIONS</b>							
Sea Level Pressure (hPa): 1220.9				Corrected Pressure (mm Hg): 916			
Temperature (°C): 18.8				Temperature (K): 292			
<b>CALIBRATION ORIFICE</b>							
Make: Tisch				Qstd Slope: 2.06365			
Model: TE-5025A				Qstd Intercept: -0.00869			
Calibration Date: 3-Jun-24				Expiry Date: 3-Jun-25			
<b>CALIBRATIONS</b>							
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qa (m³/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	4.30	-4.50	8.800	0.816	59.00	33.31	Slope = 20.9332 Intercept = 16.3025 Corr. coeff.= 0.9916
13	3.10	-3.50	6.600	0.707	56.00	31.62	
10	2.60	-2.10	4.700	0.597	51.00	28.80	
7	1.80	-1.20	3.000	0.478	45.00	25.41	
5	0.60	-0.40	1.000	0.278	40.00	22.59	
<b>Calculations:</b>							
$Qa = 1/m[\text{Sqrt}(H2O*((Ta)/(Pa)))-b]$							
$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$							
Qstd = standard flow rate							
IC = corrected chart response							
I = actual chart response							
m = calibrator Qstd slope							
b = calibrator Qstd intercept							
Ta = actual temperature during calibration (deg K)							
Pa = actual pressure during calibration (mm Hg)							
Tstd = 298 deg K							
Pstd = 760 mm Hg							
$SFR = 1.13 [(Ps/Pa)(Ta/Ts)]$							
$SSP = [m*SFR+b][\text{Sqrt}(Pa/Ta)]$							
<b>For subsequent calculation of sampler flow:</b>							
$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$							
m = sampler slope							
b = sampler intercept							
I = chart response							
Tav = daily average temperature							
Pav = daily average pressure							

**FLOW RATE CHART**

Standard Flow Rate (m³/min)	Actual Chart Response (IC)
0.278	22.59
0.478	25.41
0.597	28.80
0.707	31.62
0.816	33.31

Calibrated by: Eve MaSupervised by: Yin HODate: 29-Nov-24Date: 29-Nov-24

\*\* End of Report \*\*



RECALIBRATION

DUE DATE:

June 3, 2025

# Certificate of Calibration

## Calibration Certification Information

Cal. Date: June 3, 2024

Rootsmeter S/N: 438320

Ta: 295 °K

Operator: Jim Tisch

Pa: 756.4 mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2456

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4460	3.2	2.00
2	3	4	1	1.0250	6.4	4.00
3	5	6	1	0.9100	7.9	5.00
4	7	8	1	0.8690	8.8	5.50
5	9	10	1	0.7170	12.8	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)
1.0011	0.6924	1.4180	0.9958	0.6886	0.8832
0.9969	0.9726	2.0054	0.9915	0.9674	1.2490
0.9949	1.0933	2.2421	0.9896	1.0874	1.3964
0.9937	1.1435	2.3515	0.9884	1.1374	1.4646
0.9884	1.3785	2.8361	0.9831	1.3711	1.7664
QSTD	m=	2.06365	QA	m=	1.29222
	b=	-0.00869		b=	-0.00541
	r=	0.99996		r=	0.99996

## Calculations

Vstd=	$\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$	Va=	$\Delta Vol((Pa-\Delta P)/Pa)$
Qstd=	$Vstd/\Delta Time$	Qa=	$Va/\Delta Time$
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

**Appendix E**

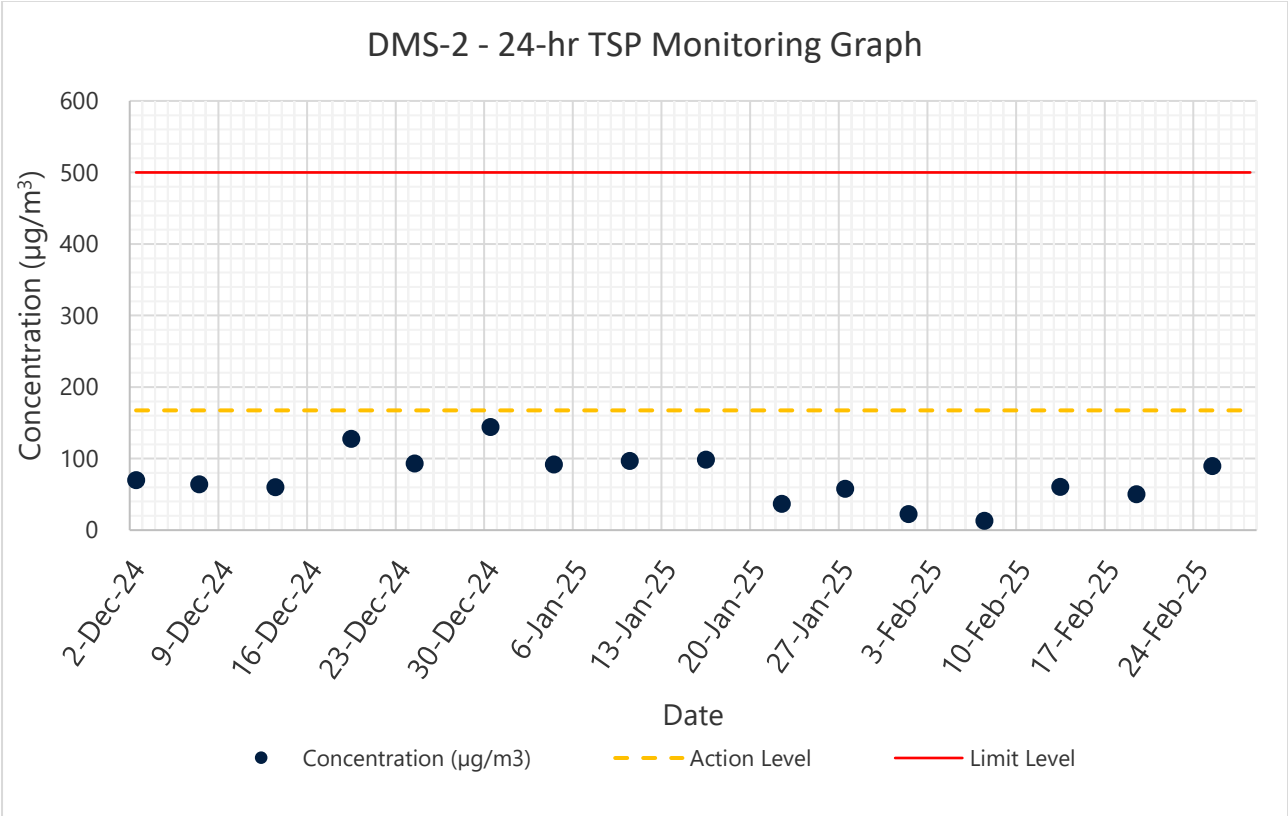
**Dust Monitoring Result**

## 24-hr TSP Monitoring Results

Monitoring Location : DMS - 2 Price Memorial Catholic Primary School

Start Date	Start Time	Weather Condition	Filter Identification No.	Elapsed-Time Meter Reading		Sampling Time (min)	Temperature (K)	Atmospheric Pressure (mmHg)	Filter Paper Weight (g)			Flow Rate (m³/min)			Total Volume (m³)	Concentration (µg/m³)		
				Start	Stop				Initial Weight	Final Weight	Particulate Weight	Initial	Final	Average		Value	Action Level	Limit Level
01-02-25	9:00	Fine	M15692	7873.20	7897.20	1440	292.5	759.9	2.7145	2.7719	0.037	1.17	1.17	1.17	1678.90	22.1	167.4	500
07-02-25	9:00	Fine	M15506	7897.30	7921.30	1440	288.5	766.1	2.7770	2.7991	0.022	1.19	1.19	1.19	1709.78	12.9	167.4	500
13-02-25	9:00	Fine	M15507	7921.40	7945.40	1440	291.1	764.2	3.7145	2.8809	0.102	1.18	1.18	1.18	1693.65	60.2	167.4	500
19-02-25	9:00	Fine	M15689	7945.50	7969.50	1440	290.2	766.5	2.7498	2.8352	0.085	1.18	1.18	1.18	1702.16	50.2	167.4	500
25-02-25	9:00	Fine	M15694	7969.60	7993.60	1440	289.9	769.6	4.7145	2.8925	0.153	1.19	1.19	1.19	1709.42	89.6	167.4	500
															Min	12.9		
															Max	89.6		
															Average	47.0		

24-hr TSP Monitoring Graph



**Appendix F**  
**Wind Data and Weather Condition**

**Average wind speed obtained from the meteorological station at Kai Tak from the Hong Kong Observatory (HKO)**

**01 Feb 2025**

Wind Speed:



**07 Feb 2025**

Wind Speed:



**13 Feb 2025**

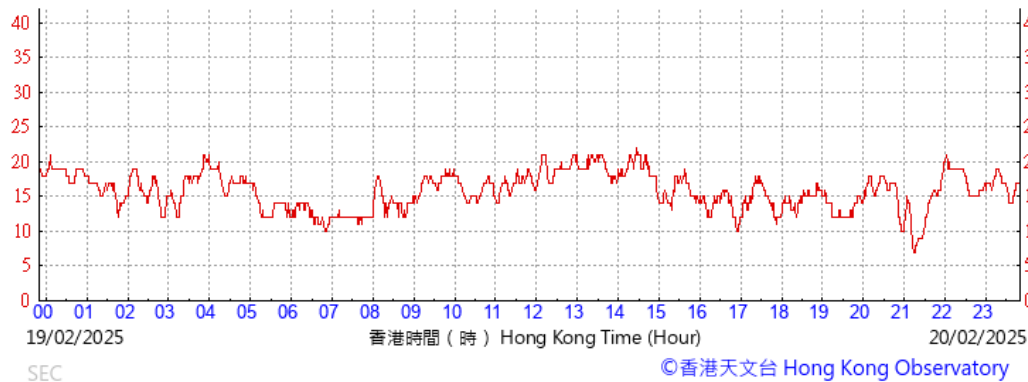
Wind Speed:



## 19 Feb 2025

Wind Speed:

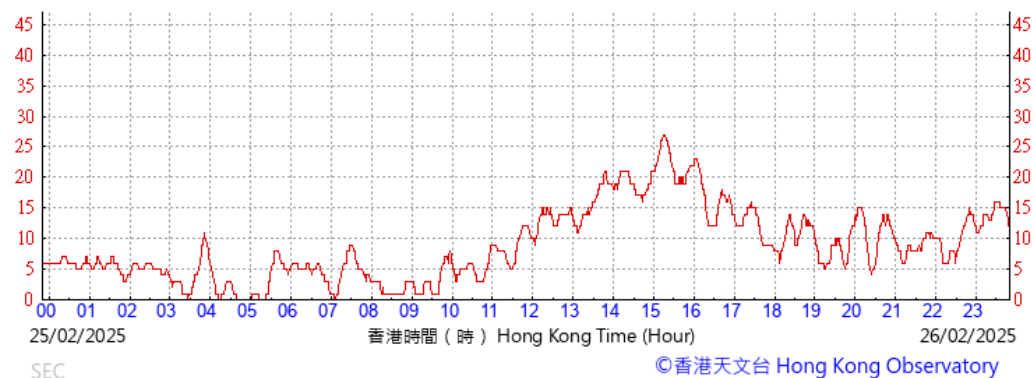
(公里/小時) (於香港時間20/02/2025 23 時 50 分更新) ( Updated at 23:50H on 20/02/2025 ) (km/h)



## 25 Feb 2025

Wind Speed:

(公里/小時) (於香港時間26/02/2025 23 時 50 分更新) ( Updated at 23:50H on 26/02/2025 ) (km/h)





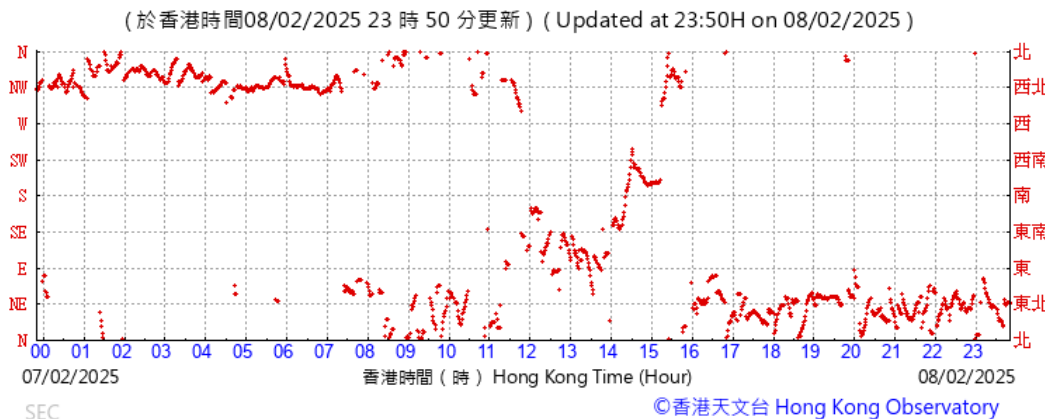
**Average wind direction obtained from the meteorological station at Kai Tak from the Hong Kong Observatory (HKO)**  
**01 Feb 2025**

Wind Direction:



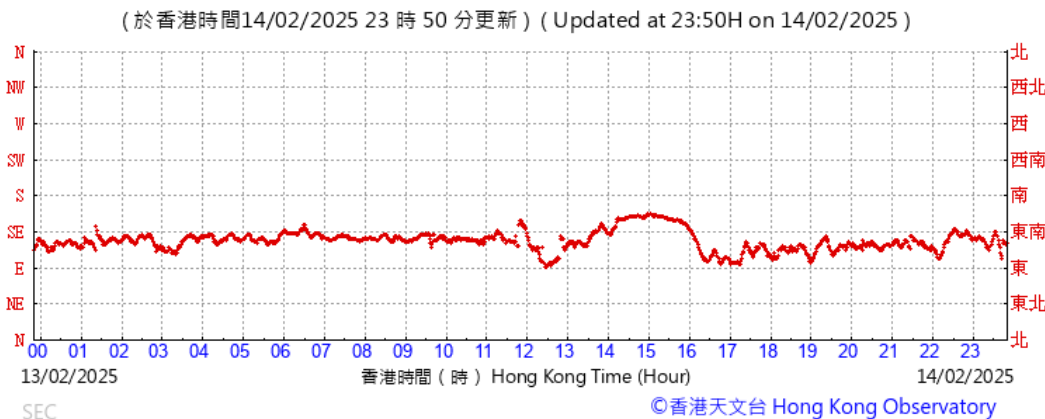
**07 Feb 2025**

Wind Direction:



**13 Feb 2025**

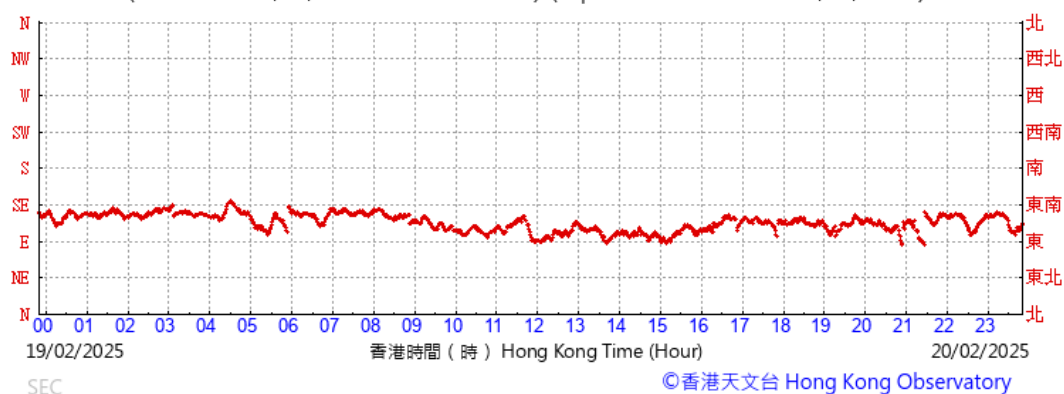
Wind Direction:



## 19 Feb 2025

Wind Direction:

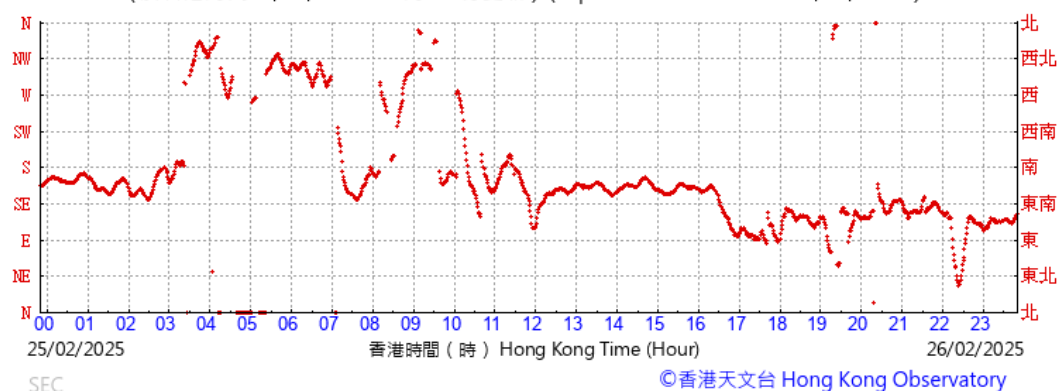
( 於香港時間20/02/2025 23 時 50 分更新 ) ( Updated at 23:50H on 20/02/2025 )



## 25 Feb 2025

Wind Direction:

( 於香港時間26/02/2025 23 時 50 分更新 ) ( Updated at 23:50H on 26/02/2025 )



**Appendix G**

**Calibration Certification of Noise Monitoring Equipment**

Report no.: 240751CA241316

Page 1 of 1

**CALIBRATION CERTIFICATE OF SOUND CALIBRATOR****Client Supplied Information**

Client : Materialab Consultants Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT -

Description : Sound Calibrator  
Manufacturer : Casella (Model CEL-120/1)  
Serial No. : 2092809  
Equipment ID : N/A

Next Calibration Date : 06-Jun-2025

Specification Limit : EN 60942: 2003 Class 1

**Laboratory Information**

Details of Calibration Equipment

Description : Multifunction Acoustic Calibrator  
Equipment ID. : R-108-1

Date of Receipt UUT : 03-Jun-2024

Date of Calibration : 07-Jun-2024

Calibration Location : Calibration Laboratory of FTS Ambient Temperature :  $20 \pm 2$  °C

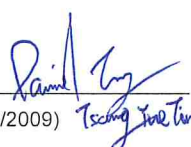
Method Used : By transfer method Relative Humidity : &lt;80% R.H.

**Calibration Results :**

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.3 dB	±0.4dB
114dB	-0.2 dB	

**Remarks :**

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The equipment under test does comply with the specification limit.
4. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by :  Date : 7-6-2024  
CA-R-297 (22/07/2009) Tsing Yim Yu

Certified by :  Date : 12-6-2024  
Wong Yim Yu (Senior Engineer)

\*\* End of Report \*\*

Report no.: 240751CA240542

Page 1 of 1

## **CALIBRATION CERTIFICATE OF SOUND LEVEL METER**

### **Client Supplied Information**

Client : Fugro Technical Services Ltd.

Project : Calibration Services

### **Details of Unit Under Test, UUT -**

Description : Sound Level Meter  
 Manufacturer : Casella

	Meter	Microphone	Preamplifier
Model No.	CEL-633A	CE-251	CEL-495
Serial No.	2206937	04228	004030
Equipment ID	N/A		
Next Calibration Date	17-Mar-2025		
Specification Limit	EN 61672-1: 2003 Class 1		
Next Calibration Date	17-Mar-2025		

### **Laboratory Information**

#### **Details of Reference Equipment -**

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)  
 Equipment ID. : R-108-1

Date of Receipt UUT : 01-Mar-2024

Date of Calibration : 18-Mar-2024

Calibration Location : Calibration Laboratory of FTS Ambient Temperature : 20±2 °C

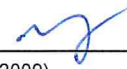
Method Used : By direct comparison Relative Humidity : &lt;80% R.H.

### **Calibration Results :**

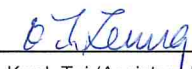
Parameters		Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	0.5	2.6 to -0.6
	2000Hz	1.1	2.8 to -0.4
	1000Hz	0.0	1.1 to -1.1
	500Hz	-3.4	-1.8 to -4.6
	250Hz	-8.7	-7.2 to -10.0
	125Hz	-16.1	-14.6 to -17.6
	63Hz	-26.2	-24.7 to -27.7
Differential level linearity	94dB-104dB	0.0	± 0.6
	104dB-114dB	0.0	± 0.6

### **Remarks :**

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
4. The UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- 5 The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties 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.

Checked by :   
 CA-R-297 (22/07/2009)

Date : 24-2024

Certified by :   
 Leung Kwok Tai (Assistant Manager)

Date : 3-4-2024

\*\* End of Report \*\*

## **Appendix H**

### **Noise Monitoring Result**

**Location: NMS-CA-2 - Price Memorial Catholic Primary School**  
**Daytime Noise Monitoring Results**

Date	Weather	Wind Speed (m/s)	Start Time	Noise Monitoring (30min) (dB(A))			
				Measured Noise Level <sup>1</sup>	L <sub>90</sub>	L <sub>10</sub>	Corrected Noise Level <sup>2</sup>
07- Feb -25	Fine	0.5	09:32	68.5	63.1	66.7	64.9
13- Feb -25	Fine	0.6	09:45	69.6	63.6	68.0	67.1
19- Feb -25	Fine	0.8	09:26	69.2	62.8	68.4	66.4
25- Feb -25	Fine	0.3	09:40	70.1	65.1	68.9	68.0
				Average:			66.7
				Baseline Level:			66.0
				Action Level:			When one valid documented complaint is received
				Limit Level:			70dB(A) for schools and 65dB(A) during school examination periods.

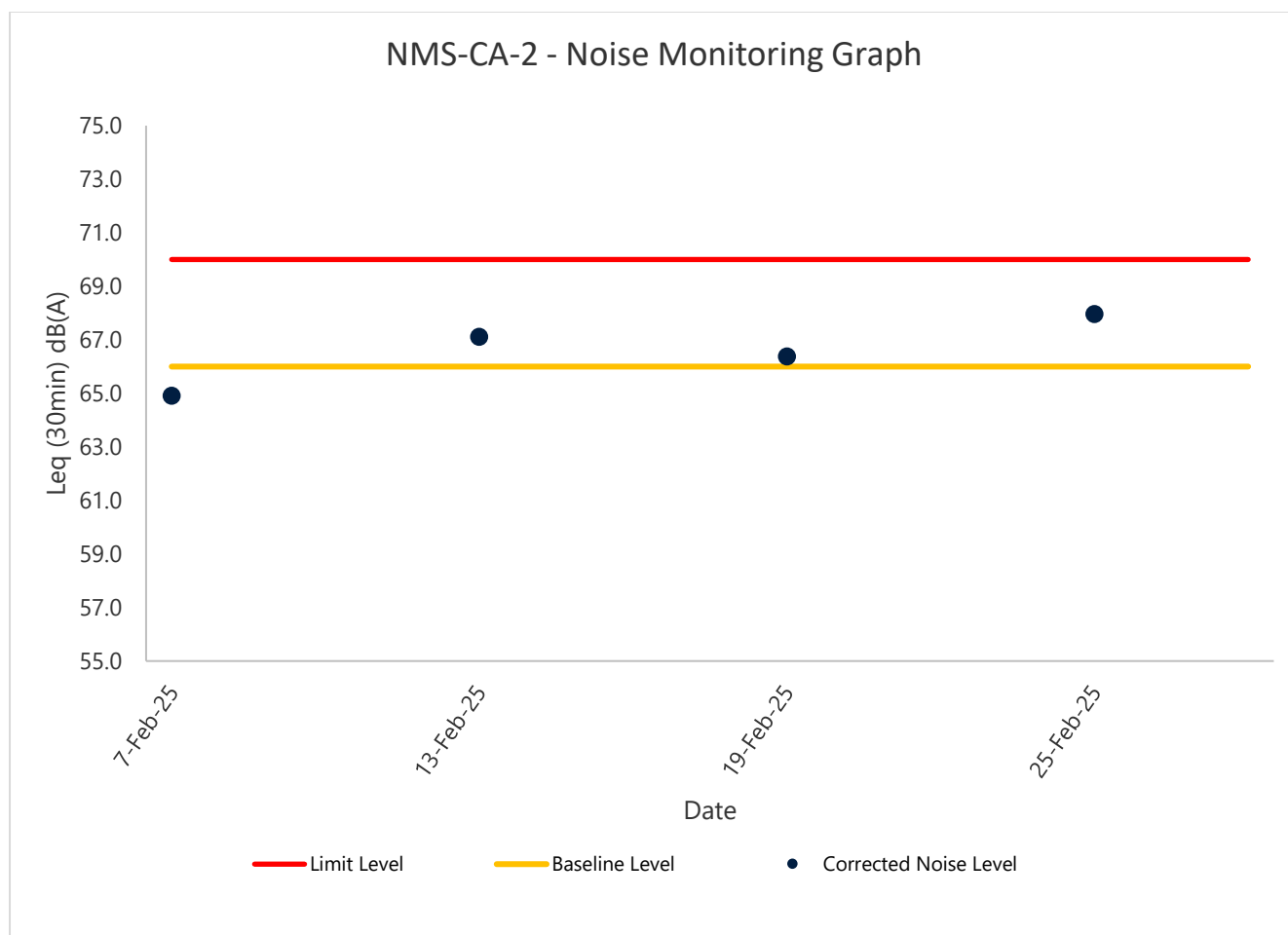
- Remarks:
1. Measured Noise Level is corrected against a +3 dB(A) correction for free-field measurement.
  2. Corrected Noise Level is calculated against the corresponding Baseline Noise Level

$$\text{Corrected Noise Level, } L_{\text{corrected}} = 10 \log(10^{\frac{L_{\text{measured}}}{10}} - 10^{\frac{L_{\text{baseline}}}{10}})$$

Where L<sub>measured</sub> and L<sub>baseline</sub> represent Measured Noise Level and Baseline Level respectively.

3. No exam in February 2025.

## Noise Monitoring Graph







Project: Re-provision of Ma Chai Hang Recreation Ground (Contract 11234)

Noise Monitoring Field Record Sheet

Date:		7-2-25
Weather:		Bine
Wind Speed:		0.5
Monitoring Location:		NMS-CA-2 Price Memorial Catholic Primary School
Measurement Start Time (hh:mm)		19:32
Measurement Time Length (min.)		30 mins
Noise Monitoring	Sound Level Meter	Model: CBL 683A Serial No: 2206937
	Sound Calibrator	Model: CBL 120/1 Serial No: 2092859
Measurement Results	L <sub>90</sub> (dB(A))	63.1
	L <sub>10</sub> (dB(A))	66.7
	L <sub>eq</sub> (dB(A))	65.5
Remarks/ Observations:		

Recorded by: Ho Chun Yin

Name

Signature

Date

賢

7-2-25

Checked by:

Michael Fung

A



7-2-25



Project: Re-provision of Ma Chai Hang Recreation Ground (Contract 11234)

Noise Monitoring Field Record Sheet

Date:	13 / 2 / 25	
Weather:	Fine	
Wind Speed:	2.6	
Monitoring Location:	NMS-CA-2 Price Memorial Catholic Primary School	
Measurement Start Time (hh:mm)	09:45	
Measurement Time Length (min.)	30 mins	
Noise Monitoring	Sound Level Meter	Model: CEL-633A Serial No: 2206937
	Sound Calibrator	Model: CEL-120/1 Serial No: 20932809
Measurement Results	L <sub>90</sub> (dB(A))	63.6
	L <sub>10</sub> (dB(A))	68
	L <sub>eq</sub> (dB(A))	66.6
Remarks/ Observations:		



	Name	Signature	Date
Recorded by:	Anson Chong		13/2/25
Checked by:	John Fy		13/2/25



Project: Re-provision of Ma Chai Hang Recreation Ground (Contract 11234)

Noise Monitoring Field Record Sheet

Date:		19-2-25
Weather:		Fine
Wind Speed:		1-8
Monitoring Location:		NMS-CA-2 Price Memorial Catholic Primary School
Measurement Start Time (hh:mm)		0926
Measurement Time Length (min.)		30 mins
Noise Monitoring	Sound Level Meter	Model: CBL 633A Serial No: 22069 37
	Sound Calibrator	Model: CBL 12011 Serial No: 2082809
Measurement Results	L <sub>90</sub> (dB(A))	62.8
	L <sub>10</sub> (dB(A))	68.4
	L <sub>eq</sub> (dB(A))	66.2
Remarks/ Observations:		



	Name	Signature	Date
Recorded by:	Ho Chun Yin		19-2-25
Checked by:	Adriel Fong		19-2-25



Project: Re-provision of Ma Chai Hang Recreation Ground (Contract 11234)

Noise Monitoring Field Record Sheet

Date:	25 / 2 / 25	
Weather:	fine	
Wind Speed:	0.3	
Monitoring Location:	NMS-CA-2 Price Memorial Catholic Primary School	
Measurement Start Time (hh:mm)	09 : 40	
Measurement Time Length (min.)	30 mins	
Noise Monitoring	Sound Level Meter	Model: CEL-633A Serial No: 2206937
	Sound Calibrator	Model: CEL-2011 Serial No: 2092809
Measurement Results	L <sub>90</sub> (dB(A))	65.1
	L <sub>10</sub> (dB(A))	68.9
	L <sub>eq</sub> (dB(A))	67.1
Remarks/ Observations:		

	Name	Signature	Date
Recorded by:	Anson Chung		25 / 2 / 25
Checked by:	Albert Fong		25 / 2 / 25

## **Appendix I**

### **Event and Action Plan**

## **Event and Action Plan for Air Quality**

Event	Action			
	ET	IEC	ER	Contractor
<b>Action Level</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Inform the IEC, Contractor and ER;</li> <li>2. Discuss with the Contractor, IEC and ER on the remedial measures required;</li> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase monitoring frequency</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify source(s), investigate the causes of exceedance and propose remedial measures;</li> <li>2. Implement remedial measures;</li> <li>3. Amend working methods agreed with the ER as appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Inform the IEC, Contractor and ER;</li> <li>2. Discuss with the ER, IEC and Contractor on the remedial measures required;</li> <li>3. Repeat measurements to confirm findings;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. If exceedance continues, arrange meeting with the IEC, ER and Contractor;</li> <li>6. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify the Contractor, IEC and ET;</li> <li>3. Review and agree on the remedial measures proposed by the Contractor;</li> <li>4. Supervise Implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify source and investigate the causes of exceedance;</li> <li>2. Submit proposals for remedial measures to the ER with a copy to ET and IEC within three working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Amend proposal as appropriate.</li> </ol>

Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Inform the IEC, Contractor and ER;</li> <li>2. Repeat measurement to confirm findings;</li> <li>3. Increase monitoring frequency to daily;</li> <li>4. Discuss with the ER, IEC and contractor on the remedial measures and assess the effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET;</li> <li>2. Check the Contractor's working method;</li> <li>3. Discuss with the ET, ER and Contractor on possible remedial measures;</li> <li>4. Review and advise the ER and ET on the effectiveness of Contractor's remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify the Contractor, IEC and ET;</li> <li>3. Review and agree on the remedial measures proposed by the Contractor;</li> <li>4. Supervise implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify source(s) and investigate the causes of exceedance;</li> <li>2. Take immediate action to avoid further exceedance;</li> <li>3. Submit proposals for remedial measures to ER with a copy to ET and IEC within three working days of notification;</li> <li>4. Implement the agreed proposals;</li> <li>5. Amend proposal if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Notify IEC, Contractor and EPD;</li> <li>2. Repeat measurement to confirm findings;</li> <li>3. Increase monitoring frequency to daily;</li> <li>4. Carry out analysis of the Contractor's working procedures with the ER to determine possible mitigation to be implemented;</li> <li>5. Arrange meeting with the IEC, Contractor and ER to discuss the remedial measures to be taken;</li> <li>6. Review the effectiveness of the Contractor's remedial measures and keep IEC, EPD and ER informed of the results;</li> <li>7. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET;</li> <li>2. Check the Contractor's working method;</li> <li>3. Discuss with ET, ER, and Contractor on the potential remedial measures;</li> <li>4. Review and advise the ER and ET on the effectiveness of Contractor's remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify the Contractor, IEC and ET;</li> <li>3. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures;</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>1. Identify source(s) and investigate the causes of exceedance;</li> <li>2. Take immediate action to avoid further exceedance;</li> <li>3. Submit proposals for remedial measures to the ER with a copy to the IEC and ET within three working days of notification;</li> <li>4. Implement the agreed proposals;</li> <li>5. Revise and resubmit proposals if problem still not under control;</li> <li>6. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

### **Event and Action Plan for Airborne Noise**

Event	Action			
	ET	IEC	ER	Contractor
<b>Action Level</b>	<ol style="list-style-type: none"> <li>1. Notify the IEC, Contractor and ER</li> <li>2. Discuss with the ER, IEC and Contractor on the remedial measures required</li> <li>3. Increase monitoring frequency to check mitigation effectiveness</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the investigation results submitted by the contractor;</li> <li>2. Review and advise the ET and ER on the effectiveness of the remedial measures proposed by the Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of complaint in writing</li> <li>2. Notify the Contractor, IEC and ET</li> <li>3. Review and agree on the remedial measures proposed by the Contractor;</li> <li>4. Supervise implementation of remedial measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Investigate the complaint and propose remedial measures</li> <li>2. Report the results of investigation to the IEC, ET and ER</li> <li>3. Submit noise mitigation proposals to the ER with copy to the IEC and ET within 3 working days of notification.</li> <li>4. Implement noise mitigation proposals</li> </ol>
<b>Limit Level</b>	<ol style="list-style-type: none"> <li>1. Notify the IEC, Contractor and EPD</li> <li>2. Repeat measurement to confirm findings</li> <li>3. Increase monitoring frequency</li> <li>4. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented</li> <li>5. Arrange meeting with the IEC, Contractor and ER to discuss the remedial measures to be taken;</li> <li>6. Inform IEC, ER and EPD the causes and actions taken for the exceedances</li> <li>7. Assess effectiveness of the Contractor's remedial measures and keep IEC, ER and EPD informed of the results</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET;</li> <li>2. Check the Contractor's working method;</li> <li>3. Discuss with the ER, ET and Contractor on the potential remedial measures</li> <li>4. Review and advise the ET and ER on the effectiveness of the remedial measures proposed by the Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing</li> <li>2. Notify the Contractor, IEC and ET</li> <li>3. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented</li> <li>4. Supervise the implementation of remedial measures</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>1. Identify source and investigate the causes of exceedance</li> <li>2. Take immediate action to avoid further exceedance</li> <li>3. Submit proposals for remedial measures to the ER with copy to the IEC and ET within 3 working days of notification.</li> <li>4. Implement the agreed proposals</li> <li>5. Revise and resubmit proposals if problem still not under control</li> <li>6. Stop the relevant portion of works as determined by the ER until the exceedance is abated</li> </ol>



**Appendix J**

**Waste Flow Table**

## Monthly Waste Flow Table for 2025 (year)

Project: Contract 11234 - Re-provisioning of Ma Chai Hang Recreation Ground

Contractor: Build King Civil Engineering Limited

Billing Account No.: 7045214

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-Inert C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 1, 2)	Chemical Waste	Others, e.g. general refuse disposed to Landfill
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	99.950
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	150.400
Mar											
Apr											
May											
Jun											
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	250.350
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	250.350

Year	Actual Quantities of Inert C&D Materials Generated						Actual Quantities of Non-Inert C&D Wastes Generated				
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 1, 2)	Chemical Waste	Others, e.g. general refuse disposed to Landfill
	(in ton)	kg/0	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2022	33000.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23.360
2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	409.000
2024	0.000	217000.160	112673.160	58423.120	30254.830	15649.050	8346.160	4173.080	2086.540	1043.270	1043.270
2025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	250.350
Cumulative	33000.000	217000.160	112673.160	58423.120	30254.830	15649.050	8346.160	4173.080	2086.540	1043.270	1475.630

Notes:

- (1) Metal, paper & plastic were collected by recycler
- (2) Plastics refer to plastic bottles/ containers, plastic from packing material
- (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (4) Broken concrete for recycling into aggregates.
- (5) All quantities are rounded off to 3 decimal places.

**Appendix K**  
**Complaint Log**

## Environmental Complaints Log

Complaint Log No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Investigation/Mitigation Action	Status
<b>NIL</b>	--	--	--	--	--	--

Remark:

(1) No Complaints, Notifications of Summons or Successful Prosecutions was received in the reporting period.