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Contract No. CM 04/2024 – Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)

Quarterly Environmental Monitoring, and Audit Report for:
May to July 2026
Revision 1

Certified By:

Lau Hoi Wai, Josephine
Environmental Team Leader
Report Date: 27 August 2026

Drainage Services Department
The Government of the Hong Kong Special Administrative Region

Real impact, made together.

Our Ref: 7076811/L33747/AC/KL/TK/KCL/jm

09 September 2026

Drainage Services Department
Sewage Services Branch
Consultants Management Division Group 4
18/F, Drainage Services Tower
8 Ying Wa Street
Cheung Sha Wan, Kowloon

By Email and Post
(kkchan06@dsd.gov.hk)

Attn: Mr. CHAN Ka Keung

Dear Sir

Contract No. SD 7/2020
Independent Environmental Checker ("IEC") for Environmental Monitoring Work for South Lantau Sewerage Works
Verification of Quarterly EM&A Summary Report (May 2026 – July 2026)

With reference to the Quarterly EM&A Summary Report (May 2026 – July 2026) Revision 1 certified by the ET Leader on 27th August 2026, please note that we have no adverse comments on the captioned. We herewith verify the captioned in accordance with Section 12.3 of the EM&A Manual (AEIAR-210/2017).

Should you have questions please do not hesitate to contact the undersigned at tel. 3995-8140 or by email to kitty.lee@sjgroup.com; or our Mr Tommy KONG on tel. 3995-8123 or by email to tommy.kong@sjgroup.com.

Yours faithfully

Kitty LEE
Independent Environmental Checker

CC	Binnies	- Mr. Kelvin Tso	by email
	Umwelt	- Ms. Josephine Lau / Mr. Ivan TING	by email
	KLCW-JV	- Mr. Daniel Chu	by email

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Executive Summary

This Quarterly Environmental Monitoring and Audit ("EM&A") Report summarises project monitoring, and auditing data, with full interpretation illustrating the acceptability or otherwise of any environmental impacts, and identification or assessment of the implementation status of agreed mitigation measures, including monitoring results, and findings of the EM&A Programme, along with findings recorded during the site inspections, and audits, reports of Complaints, Notifications of Summons, and Successful Prosecutions, and other necessary observation obtained within this reporting quarter from 1 May to 31 July 2026.

Key Construction Works in the Reporting quarter

San Shek Wan Sewage Treatment Works ("SSWSTW")

- Superstructure Reinforced Concrete ("RC") works
- Waterproofing work
- Excavation and Site formation
- Retaining wall construction
- Electrical and Mechanical ("E&M") Installation
- Architectural Builders Works and Finishes Work ("ABWF") work

Pui O Sewage Pumping Station ("POSPS")

- Excavation and Excavation and Lateral Support ("ELS") work
- Electrical and Mechanical ("E&M") Installation
- Architectural Builders Works and Finishes Work ("ABWF") work

Lo Uk Tsuen, Pui O

- Excavation, sewer laying, construction of manhole

South Lantau Road

- Excavation, sewer laying, construction of manhole

Chi Ma Wan Road

- Excavation, sewer laying construction of manhole
- Trenchless drilling works

Environmental Monitoring, and Audit Progress

The EM&A Programme is implemented in accordance with the EM&A Manual under the EIA Report. A summary of the monitoring activities during this reporting quarter as below:

Monitoring Activity	Monitoring Date		
	May 2026	June 2026	July 2026
Noise	6, 12, 21 and 28-29	4, 10, 17-19, 23 and 29	10, 17-20, 22 and 27
Nursery visit for transplanted trees	28	22	31
Site Inspection	4, 11, 18 and 28	1, 8, 15 and 22	3, 6, 13, 20 and 31

Breaches of Action, and Limit Levels

Noise Monitoring has been conducted at 8 of the designated monitoring locations (N12a, N12b, N13, N14, N15b, N16a, N16b, and N17) where construction works has been conducted nearby during the reporting quarter.

During to the reporting period, school examinations were held 6 to 7 May, 3 to 5, 8 to 12 and 15 to 16 June 2026. Accordingly, the limit for monitoring at N17-Bui O Public School was temporarily reduced to 65dB(A) on that examination.

Due to the rainstorm on 18 June 2026, Bui O Public School was closed. As the result, the noise monitoring for N17 was not conducted. The noise monitoring at N17 has resumed on 23 June 2026.

No action or limit level exceedance was recorded in construction noise level in this reporting quarter.

Subsequent to the completion of marine work on 24 May 2025, water quality monitoring was considered completed by 30 May 2025. No water quality monitoring is conducted in this reporting quarter.

Should marine works resume, water quality monitoring will be conducted in accordance with the requirement stipulated in the EM&A Manual accordingly.

A summary of environmental exceedances for this reporting quarter is as follows:

Environmental Monitoring	Parameters	Action Level	Limit Level
Noise	$L_{eq\ (30\ min)}$	0	0

Ecological Impact Monitoring

Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.

4 trees found (1 no. of *Aquilaria sinensis*, and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to POSPS.

The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.

The extent of the work site boundaries was checked by the ET during the weekly site audit.

Complaints, Notification of Summons and Prosecution

No notification of summons and successful prosecution regarding construction works were recorded in the reporting quarter.

Reporting Changes

The Engineer's Representative, holding the post of Resident Engineer for Binnies Hong Kong Limited, has been changed from Kevin Chan to Kelvin Tso.

1. Introduction

1.1 Project Background

1.1.1 The Environmental Protection Department ("EPD") completed the Outlying Islands Sewerage Master Plan ("SMP") Study in 1994 and drew up a SMP for Lantau Island and other outlying islands. The proposed sewerage works of the SMP were divided into 2 stages. The Stage 2 Works of the SMP were subsequently reviewed by EPD under the Outlying Islands Sewerage Master Plan Stage 2 Review (SMP Review Study) in 2001.

1.1.2 The proposed sewerage works for South Lantau were further reviewed in 2008 under the Review of Sewerage Scheme for South Lantau (Review Study). According to the Review Study, the proposed sewerage works for South Lantau would serve the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin.

1.1.3 The Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works, herein referred to as "the Project", referred to the sewerage works for South Lantau that would serve the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin.

1.1.4 The Project mainly comprises of the following items:

a) Construction of a secondary sewage treatment works ("STW") at San Shek Wan in South Lantau;
b) Construction of sewage pumping station ("SPS") at Pui O, San Shek Wan, Cheung Sha, Cheung Fu Street, Shui Hau and Tong Fuk;
c) Construction of about 1.4km of twin submarine outfalls with a diameter of 350mm for the disposal of treated effluent from the STW at San Shek Wan;
d) Construction of about 10.1km of gravity sewers with diameters ranging from 150mm to 375mm along South Lantau Road and Chi Ma Wan Road and at Pui O; and
e) Construction of about 3.1km of twin rising mains with a diameter of 200mm to 250mm along South Lantau Road and Chi Ma Wan Road.

1.2 Environmental Monitoring & Audit Programme

1.2.1 An Environmental Impact Assessment ("EIA") was subsequently prepared to review the potential environmental impact that would be due to the Project during its construction works and operational works. The EIA Report was submitted and approved on 24 April 2017, and Environmental Permit ("EP") No. EP-538/2017 was subsequently granted on 13 July 2017.

1.2.2 The EM&A Programme is therefore implemented in accordance with the EM&A Manual under the EIA Report.

1.2.3 Umwelt Consulting Limited ("UCL") has been appointed to work as the Environmental Team ("ET") under EP No. EP-538/2017 to implement the EM&A programme as stipulated in the EM&A Manual of the approved EIA Report for the Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works (Register No.: AEIAR-210/2017).

1.3 Quarterly Environmental Monitoring & Audit Report

1.3.1 This Quarterly EM&A Report summarises project monitoring and auditing data, with full interpretation illustrating the acceptability or otherwise of any environmental impacts and identification or assessment of the implementation status of agreed mitigation measures, including monitoring results and findings of the EM&A Programme, along with findings recorded during the site Inspections and audits, reports of Complaints, Notifications of Summons and Successful Prosecutions, and other necessary observations obtained within this reporting quarter from May to July 2026.

2. Basic project Information and Environmental Status

2.1 Basic Project Information

2.1.1 Drainage Services Department ("DSD") is the project proponent and the permit holder of the Project. For the construction phase of the Project, Contractor(s), ET and Independent Environmental Checker ("IEC") are appointed to manage and control environmental issues. Key personnel and contact particulars are summarized in Table 2.1.

2.1.2 Upon conclusion of Contract No: SD 15/2022 Outlying Island Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2023 – 2024), the subsequent contract, Contract No. CM 04/2024 Outlying Island Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 – 2027), was awarded to Umwelt Consulting Limited ("UCL"). Mr Ting Po Chung, Ivan was appointed as the environmental team leader ("ETL") for the Project with effect from 1 February 2025. With effect from 1 March 2026, Mr. Ting Po Chung, Ivan ceased to be the ETL and was replaced by Ms Lau Hoi Wai, Josephine as the Environmental Team Leader ("ETL") of the subject project. Her contact details have been updated in Table 2.1.

2.1.3 The Engineer's Representative, holding the post of Resident Engineer for Binnies Hong Kong Limited, has been changed from Kevin Chan to Kelvin Tso.

Table 2.1: Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
Drainage Services Department	The Engineer for the Contract	Engineer	Mr. KK Chan	3965 8202	3104 6426
Binnies Hong Kong Limited	Engineer's Representative	Resident Engineer	Mr. Kevin Tso	3529 3003	-
Kwan Lee – Chun Wo Joint Venture	Contractor	Sub Agent	Mr. Daniel Chu	6737 6701	2744 6937
		Environmental Supervisor	Ms. Joey Pang	6978 2876	
		Environmental Supervisor	Mr. Philip Wong	6908 8920	
SMEC Hong Kong	IEC	IEC	Ms. Kitty Lee	3995 8140	3422 3631
Umwelt Consulting Limited	ET	ET Leader	Ms. Josephine Lau	3756 9590	3582 3310

2.2 Construction Programme

2.2.1 The proposed sewerage works will collect the sewage generated from the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin in South Lantau (i.e. within the Project Catchment Area) and convey it to a proposed sewage treatment works at San Shek Wan for treatment and disposal into outer bay of Pui O / Chi Ma Wan via a submarine outfall.

2.2.2 The Project was divided into 3 contracts. The current contract, Contract No. DC/2020/02 - Construction of San Shek Wan Sewage Treatment Works, Associated Submarine

Outfall and Pui O Sewerage Works ("the Contract") would have the following implementations. The works site of the Contract is also given in **Figure 2.1**.

2.2.3 The major components of the Contract under Environmental Permit ("EP") (EP No. EP-538/2017) comprises:

a) Construction of a secondary sewage treatment works ("STW") at San Shek Wan in South Lantau;
b) Construction of a sewage pumping station ("SPS") at Pui O, San Shek Wan, Cheung Sha and Cheung Fu Street;
c) Construction of about 1.4km of submarine outfall with a diameter of 350mm for the disposal of treated effluent from the STW at San Shek Wan;
d) Construction of about 10.1km of gravity sewers with diameters ranging from 150mm to 375mm along South Lantau Road and Chi Ma Wan road and at Pui O; and
e) Construction of about 3.1km twin rising mains with a diameter of 200mm to 250mm along South Lantau Road and Chi Ma Wan Road.

2.3 Works undertaken during the Reporting quarter

2.3.1 In the reporting quarter, the principal work activities conducted are as follow:

San Shek Wan Sewage Treatment Works ("SSWSTW")

a) Superstructure Reinforced Concrete ("RC") works
b) Waterproofing Work
c) Excavation and Site formation
d) E&M Installation
e) Slop Work near SSWSTW
f) ABWF work

Pui O Sewage Pumping Station ("POSPS")

g) Excavation and Excavation and Lateral Support ("ELS") works
h) Electrical and Mechanical ("E&M") Installation
i) ABWF work

Lo UK Tsuen Pui O

j) Excavation, sewer laying, construction of manhole

South Lantau Road

k) Excavation, sewer laying, construction of manhole

Chi Ma Wan Road

l) Excavation, sewer laying, construction of manhole
m) Trenchless drilling works

3. Environmental Monitoring and Audit ("EM&A") Requirement

3.1 Summary of Monitoring Parameters

3.1.1 The EM&A programme requires environmental monitoring, noise monitoring, water quality monitoring, and ecology as specified in the approved EM&A Manual.

3.1.2 A summary of Impact EM&A requirements is presented in **Table 3.1**. The locations of noise monitoring stations, and water quality monitoring stations are shown in **Figure 3.1** and **Figure 3.2** respectively.

Table 3.1: Summary of Impact EM&A Requirements

Environmental Monitoring Aspects	Parameters and Unit	Monitoring Station	Frequencies	Remarks
Noise	$L_{eq\ (30mins)}$, $L_{10\ (30mins)}$ and $L_{90\ (30mins)}$	N12a, N12b, N13, N14, N15b, N16a, N16b, and N17	At least once per week	Daytime on normal weekdays (0700-1900 hrs).
Water Quality	Dissolved Oxygen, mg/L Temperature, °C Salinity, 0/00 Turbidity, NTU Suspended Solids, mg/L pH	CE, CF, SR4, SR5, SR6, SR9, SR10, SR12, and SR15	Three times per week during mid-ebb, and mid-flood tides	Samples are collected at 3 depths (1 m below water, mid-depth, and 1 m above seabed) shall be collected. Where the water depth is less than 6 m, in which case the mid-depth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored

3.2 Environmental quality performance limits (Action and Limit levels); and Results Summary

Noise Monitoring

3.2.1 A-weighted equivalent continuous sound pressure level ("L_{eq}") over a quarter of 30 minutes $L_{eq\ (30min)}$ shall be used as the monitoring parameter for construction noise monitoring. Supplementary information for data auditing, statistical results such as L_{10}, and L_{90} should also be recorded for reference.

3.2.2 For impact monitoring of construction works, noise monitoring should be undertaken on weekly basis. Six consecutive $L_{eq\ (5min)}$ between 07:00-19:00 hours on normal weekdays is taken in this EM&A Programme.

3.2.3 The Action and Limit Levels for noise monitoring are given as in **Table 3.2.** During the reporting period, school examinations were held from 6 to 7 May, 3 to 5, 8 to 12 and 15 to 16 June 2026. Accordingly, the noise limit for monitoring station N17 Bui O Public

School was temporarily reduced to 65 dB(A) remained applicable for all other days outside this examination period.

Due to the rainstorm on 18 June 2026, Bui O Public School was closed. As the result, the noise monitoring for N17 was not conducted. The noise monitoring at N17 has resumed on 23 June 2026.

Table 3.2: Action and Limit Levels for Noise Monitoring

Monitoring Station ID	Monitoring Location	Action Level	Limit Level
N12a	Lo Uk Tsuen	When one documented complaint is received from any one of the noise sensitive receivers	75 dB(A)
N12b	Lo Uk Tsuen		75 dB(A)
N13	Pui O San Wai Tsuen		75 dB(A)
N14	South Lantau Community Centre		75 dB(A)
N15b	Pui O Lo Wai Tsuen		75 dB(A)
N16a	Residences at Ham Tin		75 dB(A)
N16b	Residences at Ham Tin		75 dB(A)
N17	Bui O Public School		70 dB(A) / 65 dB(A) [1]

Note:
1. The Limit Level for N17 is 70 dB(A) for being an educational institution. The Limit Level is reduced to 65 dB(A) during school examination quarter.

3.2.4 No exceedance was recorded for the reporting quarter. The detailed results and graphical plot for noise monitoring is given in **Appendix 3.1**.

Water Quality Monitoring

Completion of Water Quality Monitoring

3.2.5 Subsequent to the completion of marine work on 24 May 2025, water quality monitoring was considered completed by 30 May 2025. No water quality monitoring was conducted during the reporting quarter. Should marine works resume, water quality monitoring will be conducted in accordance with the requirement stipulated in the EM&A Manual accordingly.

Ecological Impact Monitoring

3.2.6 Monitoring in the form of regular site inspections should be carried out to ensure ecological measures in the form of tree transplantation, and establishment are being implemented, and effective for plant species of conservation importance (e.g. Aquilaria sinensis).

3.2.7 Transplanting works for plant species, *Aquilaris sinensis*, was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.

3.2.8 Monitoring of maintenance works for the transplanted plant species was conducted at the holding nursery while in the reporting quarter.

3.2.9 As per latest version of PTP, four trees found (1 no. of *Aquilaria sinensis*, and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to POSPS.

3.2.10 Within this reporting quarter, holding nursery visit for transplanted trees on 28 May, 22 June and 31 July 2026.

3.2.11 No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting quarter are listed below in **Table 3.4.**

Table 3.4: Summary of Ecological Impact Monitoring

Inspection Date	Reminder and Recommendations	Close-out Date / Status
28 May 2026	No Reminder and/or Observation	N/A
22 June 2026	The contractor is reminded to install tree labels.	Contractor has rectified on 29 June 2026
31 July 2026	No Reminder and/or Observation	N/A

Waste Management

3.2.12 The quantities of waste for disposal in present quarter are summarized in **Table 3.5**.

Table 3.5: Summary of Quantities of Waste Material in the Reporting Quarter

Waste Type	**Quantity for Reporting Quarter**	**Cumulative Quantity-to-Day**
Hard Rock and Large Broken Concrete (Inert), in '000m^3	0	0
Reused in this Contract (Inert),in '000m^3	0	0
Reused in other Projects (Inert), in '000m^3	0	0
Disposal as Public Fill (Inert), in '000m^3	0.39	31.998
Metals (in '000kg)	0.007	142.266
Paper / Cardboard Packing, in '000kg	0.146	1.838
Plastics in '000kg	0.006	0.134
Chemical Waste in '000kg	0	0.36
General Refuse in '000kg	154.04	1683.25

Note:
The table is summary of quantities of waste material of May to July 2026 quarter.

3.3 Implementation Status of Environmental Mitigation Measures

3.3.1 The mitigation measures recommended in the EIA Report has been implemented where applicable. The implemented mitigation measures for the reporting quarter are listed below:

a) Prevention of site runoff during heavy rainstorms;
b) Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan;
c) Dust control during dust generating works;

d) Adopt surface drainage and sediment control facilities for sewage installation in village and public roads;
e) Adopt temporary drainage and sediment control facilities on Site;
f) Regular water spraying on excavation works for dust control; and
g) Proper waste handling, recycling and storage.

3.3.2 The implemented mitigation measures are considered effective.

3.4 Complaints, Non-Compliance, and Notification of Summons and Prosecution

Environmental Complaints Received

3.4.1 No environmental complaint was recorded in the reporting quarter.

Environmental Non-Compliance

3.4.2 No environmental non-compliance was recorded in the reporting quarter.

Notifications of Summons and Successful Prosecutions

3.4.3 No notification of summons and successful prosecution regarding construction works were recorded in the reporting quarter.

4. Conclusion

4.1 Environmental Monitoring and Audits

4.1.1 Environmental monitoring and audits including Noise, Water Quality, Ecology, and Site audits have been conducted in the reporting quarter in accordance with the requirement stipulated in the EM&A Manua.

Noise Monitoring

4.1.2 Noise Monitoring has been conducted at 8 of the designated monitoring locations where construction works has been conducted nearby during the reporting quarter.

4.1.3 Monitoring station N17 Bui O Public School is an institutional sensitive receiver. During the reporting period, school examination were held form 6 to 7 May, 3 to 5, 8 to 12, 15 to 16 June 2026. Accordingly, the noise limit for monitoring station N17-Bui O Public School was temporarily reduced to 65 dB(A) on that examination. The standard noise limit of 70 dB(A) remained applicable for all other days outside this examination period.

4.1.4 Due to the rainstorm on 18 June 2026, Bui O Public School was closed. As the result, the noise monitoring for N17 was not conducted. The noise monitoring at N17 has resumed on 23 June 2026.

4.1.5 No action or limit level exceedance was recorded in construction noise level in this reporting quarter.

Water Quality Monitoring

4.1.6 Subsequent to the completion of marine work on 24 May 2025, water quality monitoring was considered completed by 30 May 2025. No water quality monitoring is conducted in this reporting quarter.

Ecological Impact Monitoring

4.1.7 Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.

4.1.8 As per latest version of PTP, 4 tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.

4.1.9 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.

4.1.10 The extent of the work site boundaries was checked by the ET during the weekly site audit.

4.1.11 No non-compliance was found during the site inspection while reminders on environmental measures were recommended.

4.2 Complaints, Notification of Summons and Prosecution

4.2.1 No environmental complaint, notification of summons and successful prosecution regarding construction works were recorded in the reporting quarter.

4.3 Implementation of Environmental Mitigation Measures

4.3.1 The mitigation measures recommended in the EIA Report has been implemented where applicable. The implemented mitigation measures are considered effective.

Figure

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N

大嶼山
LANTAU ISLAND

D

SITE PLAN
1:100000

大嶼山
LANTAU ISLAND

SEWERAGE SYSTEM TO BE CONSTRUCTED UNDER OTHER CONTRACT IN THE FUTURE

SEWERAGE SYSTEM TO BE CONSTRUCTED UNDER OTHER CONTRACT IN THE FUTURE

CONSTRUCTION OF SEWERAGE SYSTEM UNDER CONTRACT DC/2020/02

SEWERAGE SYSTEM TO BE CONSTRUCTED UNDER OTHER CONTRACT IN THE FUTURE (EXCEPT THE PROPOSED SAFETY PIPELINE AS SHOWN IN DRAWING NO. 178711/B&V/OUSPS/SR/001 TO BE CONSTRUCTED UNDER THIS CONTRACT.)

貝澳 PUI O
磡石灣 SAN SHEK WAN
鹹田 AM TIN
長沙 CHEUNG SHA
塘福 TONG FUK
水口 SHUI HAU
梅窩 MUI WO
芝麻灣半島 CHI MA WAN PENINSULA
大浪灣 TAI LONG WAN
二浪灣 YI LONG WAN
茶果洲 CHA KWO CHAU
鹿頸山 LUK KENG SHAN
石門山 SHEK MUN SHAN
石獅山 SHEK SZE SHAN
大東山 SUNSET PEAK (TAI TUNG SHAN)
蓮花山 LIN FA SHAN
伯公坳 PAK KUNG AU
旭平洲 Shek Lam Chau
老虎坑 Lo Fu Hang
水口灣 SHUI HAU WAN
塘福廟灣 TONG FUK MIU WAN
長沙泳灘 CHEUNG SHA BEACH
上長沙泳灘 UPPER CHEUNG SHA BEACH
下長沙泳灘 LOWER CHEUNG SHA BEACH
貝澳泳灘 PUI O BEACH
貝澳灣 PUI O WAN
芝麻灣 CHI MA WAN
東灣 TUNG WAN
東灣仔 Tung Wan Mei
梅窩碼頭 Mui Wo Ferry Pier
梅窩 MUI WO
銀礦灣 SILVER MINE BAY
大浪灣 TAI LONG WAN
二浪灣 YI LONG WAN
鹿頸 LOK KENG
鹿茸灣 LO KEI WAN
大嶼山郵政局 Lantau Post Office
大嶼山醫院 Lantau Hospital
塘福懲教所 Tong Fuk Correctional Institution
水務署 Water Supplies Department
Water Tunnel
SOUTH LANTAU ROAD
TUNG CHUNG ROAD
812 000 N
814 000 N
816 000 E
818 000 E
810 000 N
808 000 N
808 000 E
810 000 E

0 375 750 1125 1500m
1 : 15000

Revision	Date	Description	Initial
D	11/20	TENDER ADDENDUM NO.6	BL
C	11/20	TENDER ADDENDUM NO.5	BL
B	11/20	TENDER ADDENDUM NO.4	BL
A	09/20	TENDER ADDENDUM NO.2	TFL

	Designed	Checked	Drawn	Checked
Initial	TFL	BL	SZ	CSC
Date	04/20	04/20	04/20	04/20

Approved

Contract no.
DC/2020/02

Contract title
CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS

Drawing title
SOUTH LANTAU SEWERAGE WORKS - MASTER LAYOUT PLAN

Drawing no.
178711/B&V/GN/001

Revision
D

Scale
1 : 15000

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

Figure 2.1 - Master Layout Plan

Plot Date = 11/25/2020
CAD Filename = Y:\Daily Work\00 From SZ Design Team\178711 - South Lantau Sewerage Works\Tender Drawing\Dgn\178711-B&V-GN-001.dgn

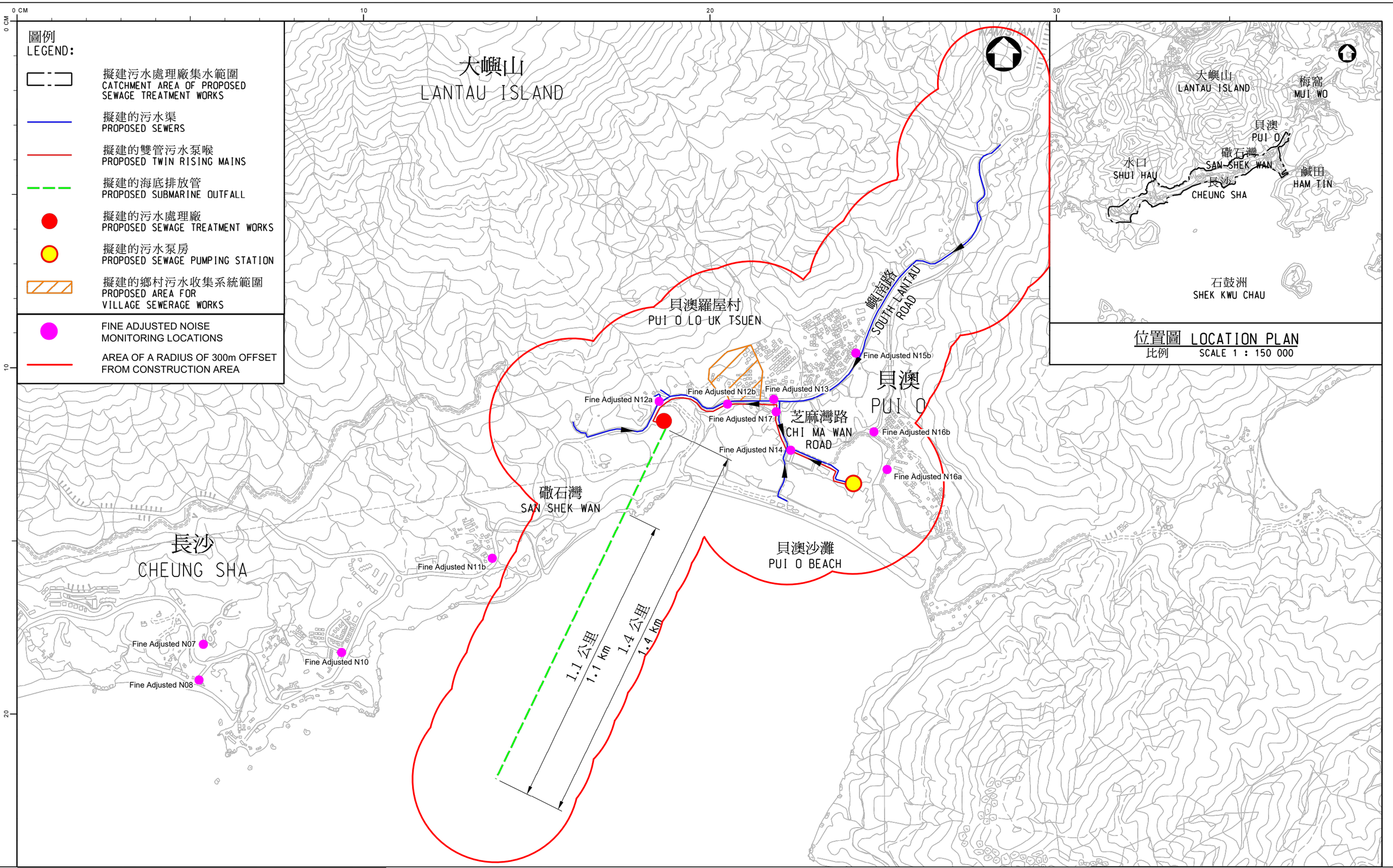
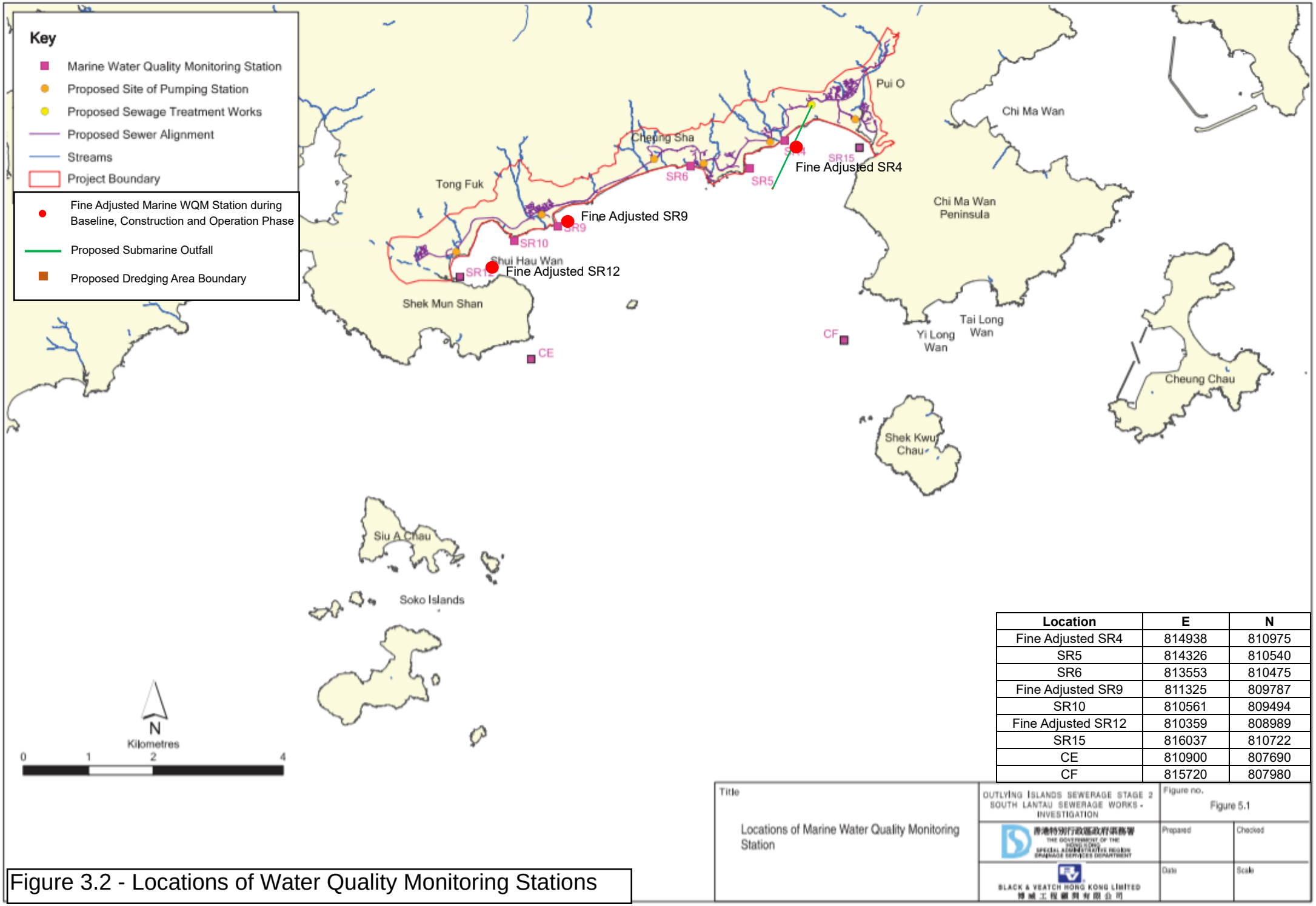


Figure 3.1 - Locations of Noise Monitoring Station



Location	E	N
Fine Adjusted SR4	814938	810975
SR5	814326	810540
SR6	813553	810475
Fine Adjusted SR9	811325	809787
SR10	810561	809494
Fine Adjusted SR12	810359	808989
SR15	816037	810722
CE	810900	807690
CF	815720	807980

Title

Locations of Marine Water Quality Monitoring Station

OUTLYING ISLANDS SEWERAGE STAGE 2 SOUTH LANTAU SEWERAGE WORKS - INVESTIGATION

Figure no. Figure 5.1

THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT

Prepared | Checked

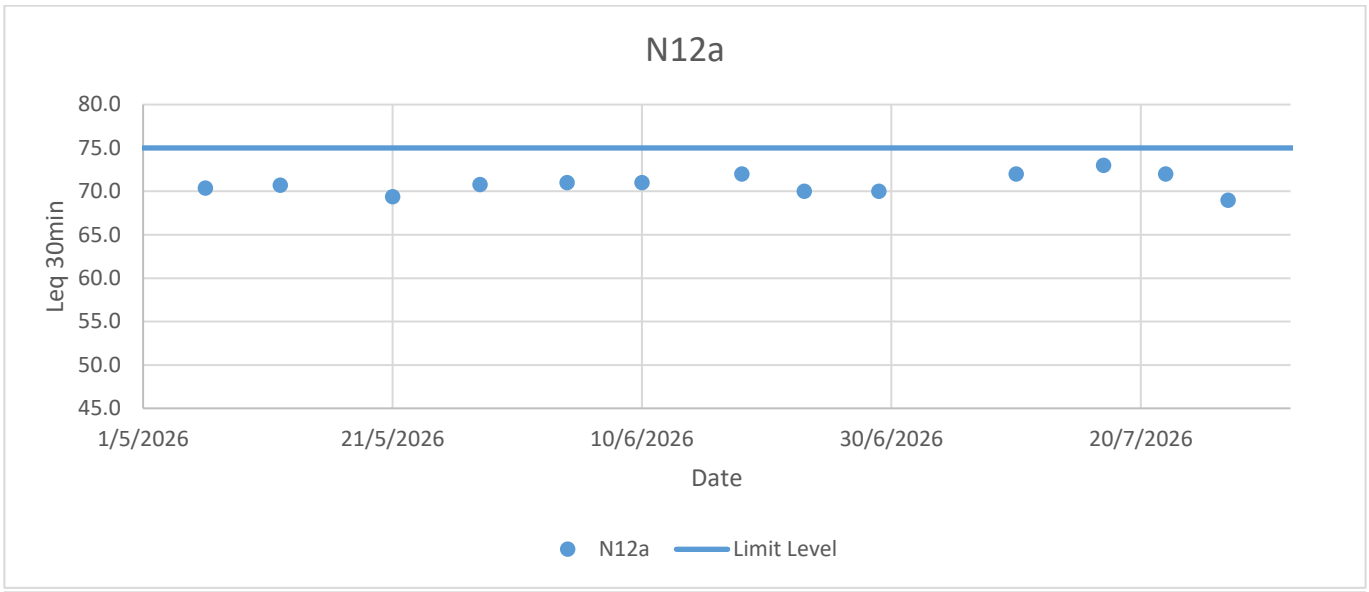
BLACK & VEATCH HONG KONG LIMITED 博威工程顧問有限公司

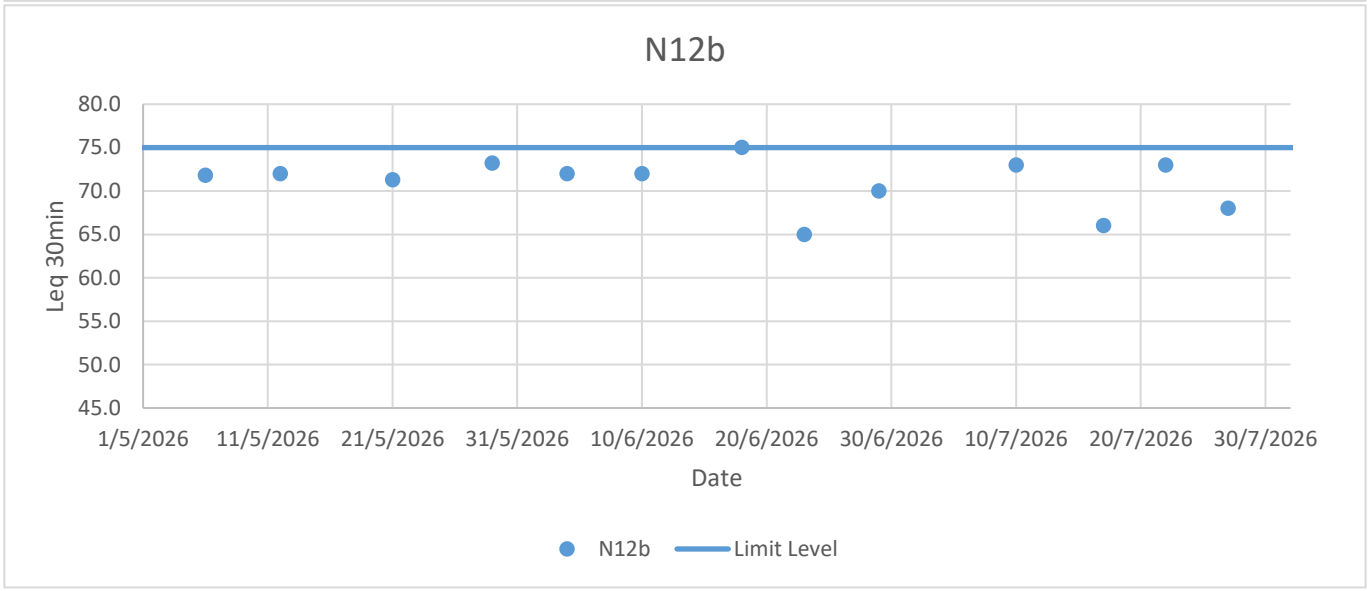
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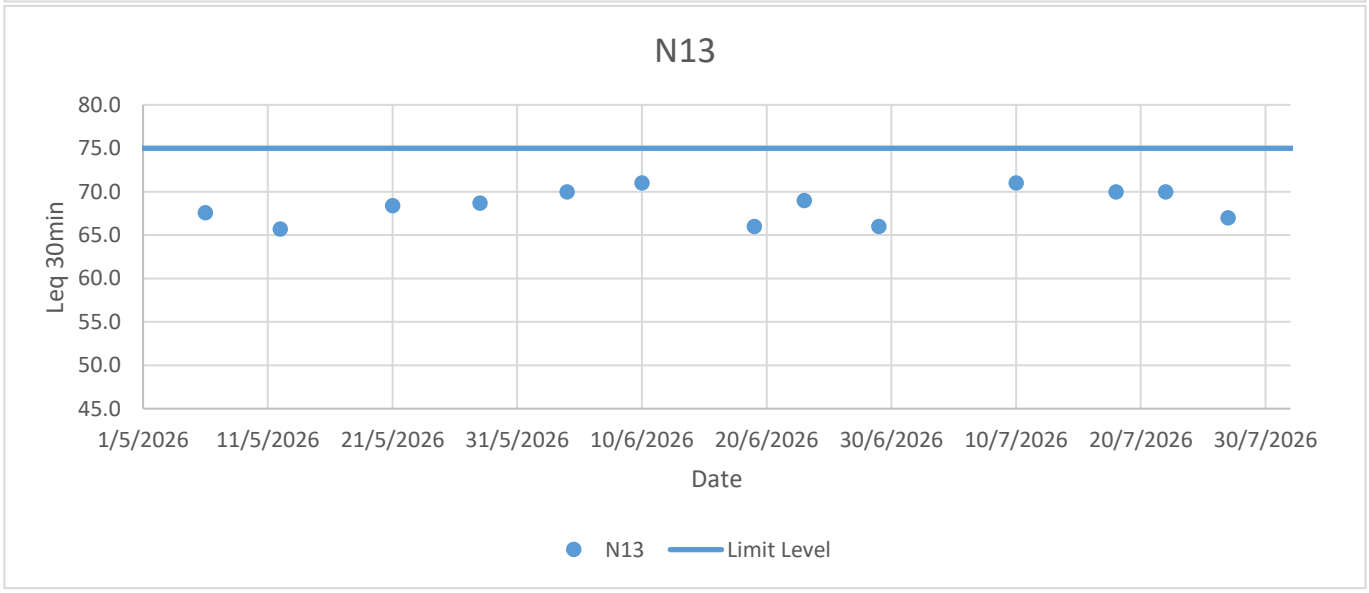
Figure 3.2 - Locations of Water Quality Monitoring Stations

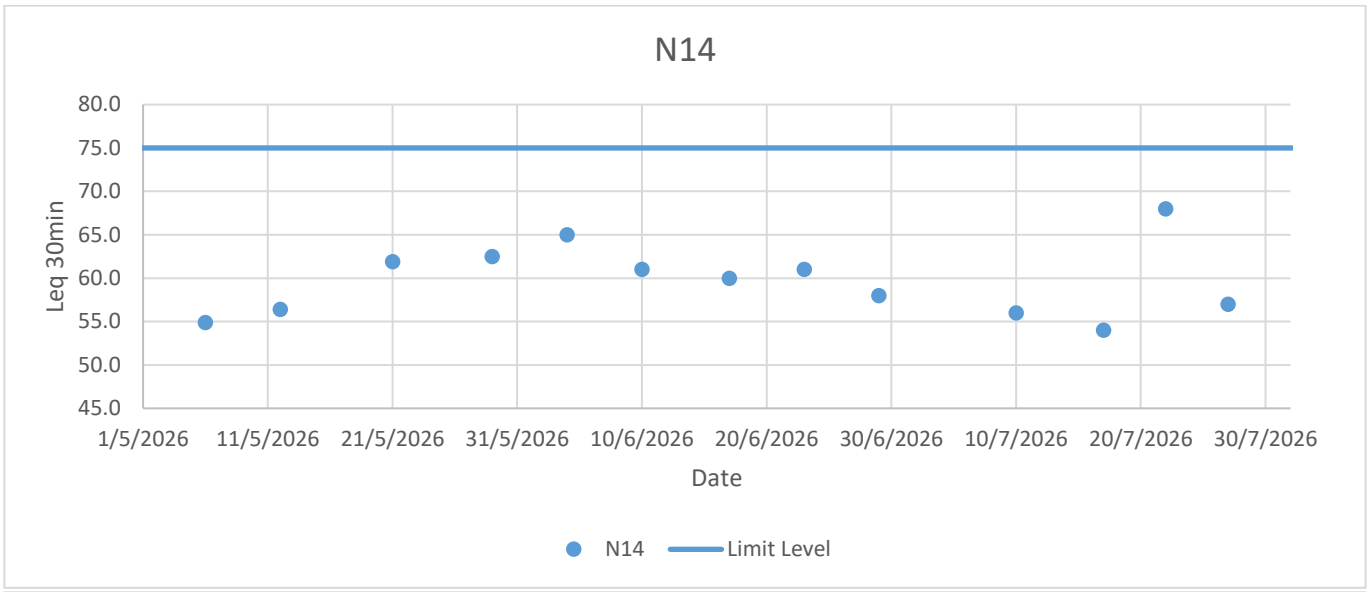
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Date: 5/8/2015

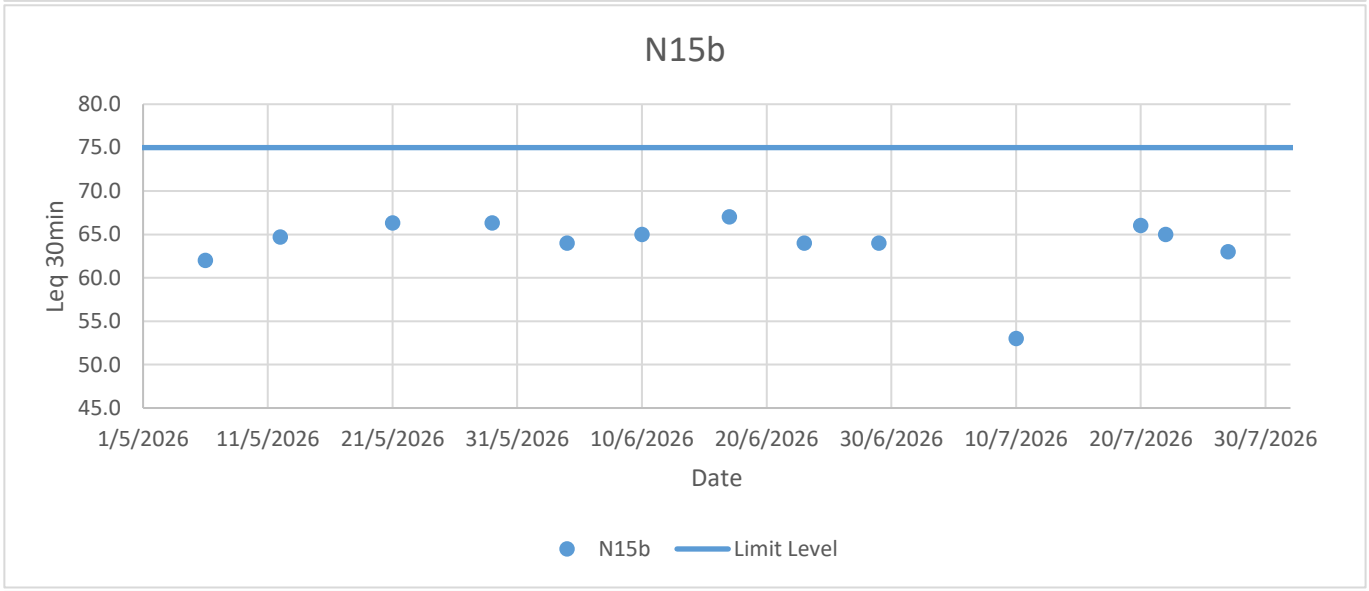
Appendix 3.1
Noise Monitoring Graphical Presentations

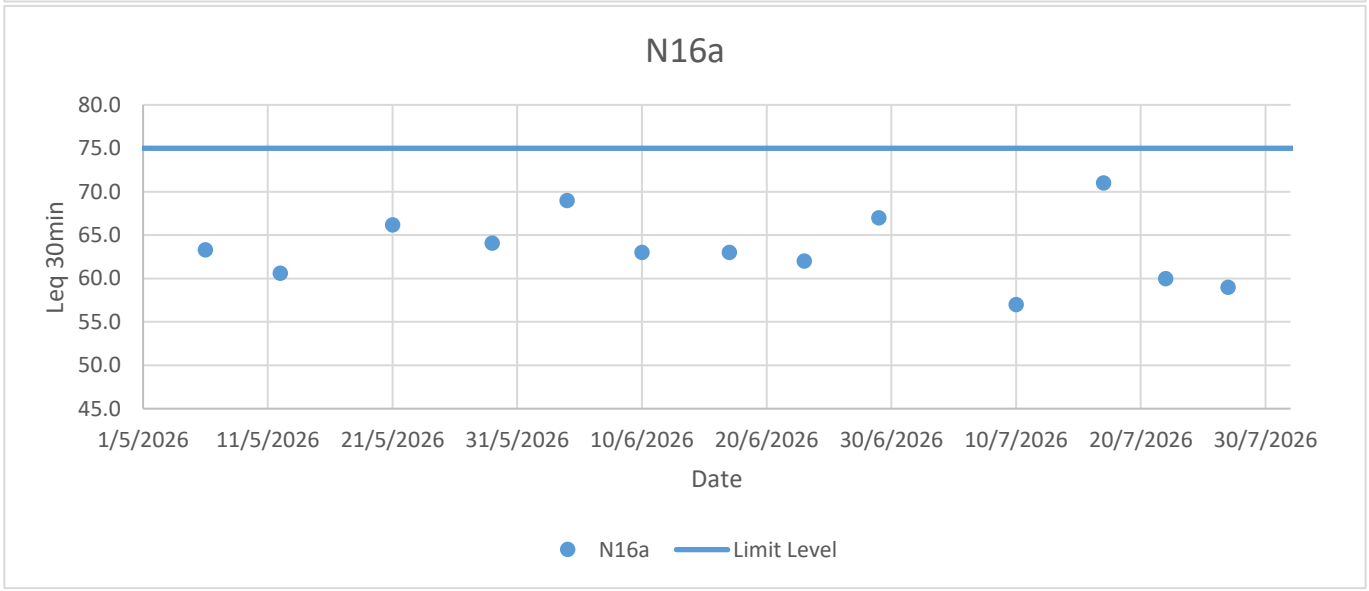

N12a
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
Leq 30min
1/5/2026
21/5/2026
10/6/2026
30/6/2026
20/7/2026
Date
N12a
Limit Level

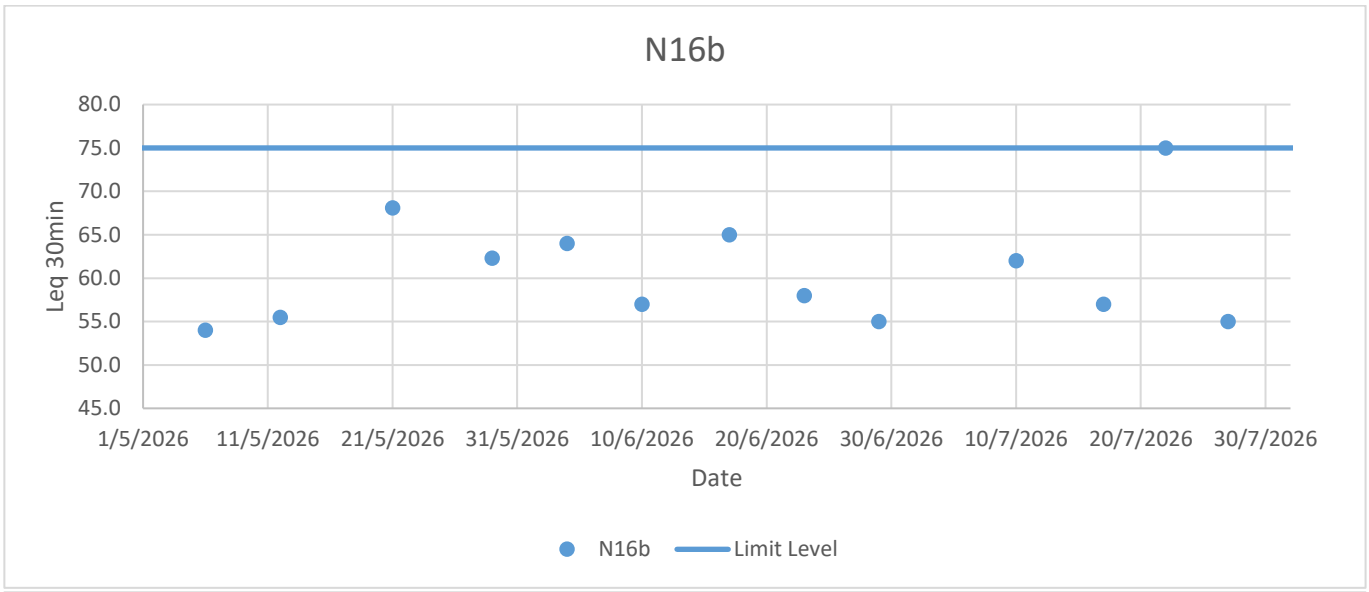

N12b
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
Leq 30min
1/5/2026
11/5/2026
21/5/2026
31/5/2026
10/6/2026
20/6/2026
30/6/2026
10/7/2026
20/7/2026
30/7/2026
Date
N12b
Limit Level

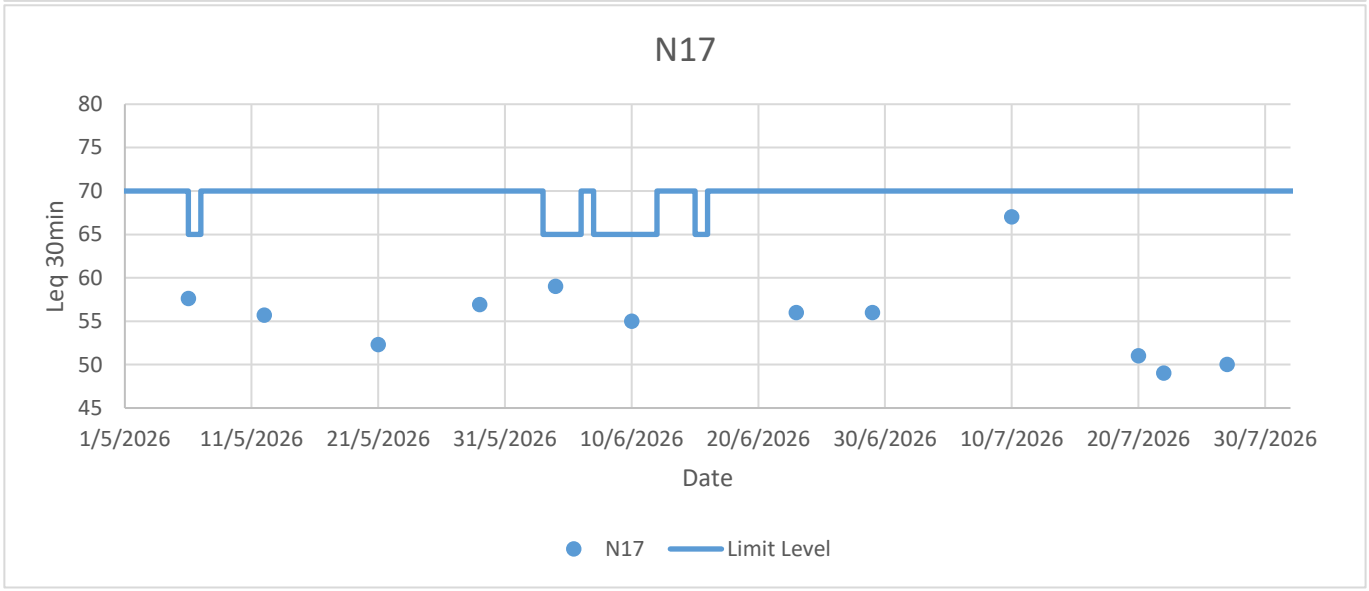

N13
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
Leq 30min
1/5/2026
11/5/2026
21/5/2026
31/5/2026
10/6/2026
20/6/2026
30/6/2026
10/7/2026
20/7/2026
30/7/2026
Date
N13
Limit Level


N14
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
Leq 30min
1/5/2026
11/5/2026
21/5/2026
31/5/2026
10/6/2026
20/6/2026
30/6/2026
10/7/2026
20/7/2026
30/7/2026
Date
N14
Limit Level


N15b
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
Leq 30min
1/5/2026
11/5/2026
21/5/2026
31/5/2026
10/6/2026
20/6/2026
30/6/2026
10/7/2026
20/7/2026
30/7/2026
Date
N15b
Limit Level


N16a
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
Leq 30min
1/5/2026
11/5/2026
21/5/2026
31/5/2026
10/6/2026
20/6/2026
30/6/2026
10/7/2026
20/7/2026
30/7/2026
Date
N16a
Limit Level


N16b
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
Leq 30min
1/5/2026
11/5/2026
21/5/2026
31/5/2026
10/6/2026
20/6/2026
30/6/2026
10/7/2026
20/7/2026
30/7/2026
Date
N16b
Limit Level


N17
80
75
70
65
60
55
50
45
Leq 30min
1/5/2026
11/5/2026
21/5/2026
31/5/2026
10/6/2026
20/6/2026
30/6/2026
10/7/2026
20/7/2026
30/7/2026
Date
N17
Limit Level

	Ref	Location Name	Level	Type of Measurement
Location	N12a	Lo Uk Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
6/5/2026	Cloudy	Calm	09:52	10:22	68.2	72.6	51.1	67	3	70	75	Traffic	Not observed	--
					67.9	72.3	50.7							
					65.7	69.1	50.3							
					71.0	74.1	59.0							
					62.6	66.4	47.8							
					62.4	66.1	50.0							
12/5/2026	Cloudy	Calm	10:15	10:45	67.6	70.8	56.0	68	3	71	75	Traffic, helicopter	Not observed	--
					65.6	68.4	54.8							
					70.7	72.7	54.0							
					67.9	70.4	55.7							
					65.5	69.7	54.5							
					66.8	69.2	55.0							
21/5/2026	Cloudy	Calm	13:44	14:14	62.4	58.7	53.7	66	3	69	75	Traffic	Not observed	--
					68.0	55.0	53.4							
					68.3	61.0	52.4							
					64.8	55.0	51.4							
					64.5	54.0	51.9							
					67.5	60.7	51.9							
28/5/2026	Cloudy	Calm	10:51	11:21	67.2	71.6	51.5	68	3	71	75	Traffic	Not observed	--
					66.0	70.2	48.1							
					68.9	70.6	47.4							
					67.4	70.4	55.0							
					68.7	73.1	55.1							
					67.9	72.0	56.0							

	Ref	Location Name	Level	Type of Measurement
Location	N12a	Lo Uk Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
4/6/2026	Sunny	Calm	09:51	10:21	66.6	70.2	50.2	68	3	71	75	Traffic, birds, human activity	Not observed	--
					70.0	71.2	52.5							
					68.1	70.4	48.2							
					71.3	72.6	58.7							
					64.7	64.8	46.4							
					65.6	69.5	50.8							
10/6/2026	Sunny	Calm	10:04	10:34	69.1	74.3	44.6	68	3	71	75	Traffic, birds, human activity	Not observed	--
					67.4	70.0	50.9							
					67.4	71.7	50.6							
					69.3	74.2	49.2							
					69.1	73.1	52.5							
					65.4	67.8	49.5							
18/6/2026	Cloudy	Calm	10:22	10:52	69.2	73.1	61.7	69	3	72	75	Traffic	Not observed	--
					69.5	72.7	62.2							
					69.4	72.6	59.6							
					68.3	71.9	53.6							
					70.0	74.0	54.2							
					67.7	72.3	53.4							
23/6/2026	Sunny	Calm	11:57	12:27	58.8	62.5	43.1	67	3	70	75	Traffic, birds, human activity	Not observed	--
					64.2	66.3	47.2							
					65.9	68.2	49.4							
					64.7	68.6	54.1							
					72.9	65.6	41.3							
					61.7	61.8	48.9							
29/6/2026	Sunny	Calm	15:34	16:04	65.9	69.2	51.6	67	3	70	75	Traffic, birds, human activity	Not observed	--
					68.3	71.9	51.4							
					66.2	69.0	51.9							
					64.7	68.5	51.0							
					64.9	68.1	52.4							
					68.0	71.9	52.4							

	Ref	Location Name	Level	Type of Measurement
Location	N12a	Lo Uk Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
10/7/2026	Sunny	Calm	10:08	10:38	71.2	70.1	56.3	69	3	72	75	Traffic	Not observed	--
					67.1	68.5	55.7							
					70.2	73.5	55.8							
					63.8	67.3	55.8							
					70.0	74.1	56.1							
					70.5	75.9	56.2							
17/7/2026	Cloudy	Calm	08:39	09:09	68.5	71.5	51.6	70	3	73	75	Traffic, dog, human activity	Not observed	--
					68.3	72.5	55.7							
					68.5	69.7	55.9							
					70.9	73.9	58.2							
					71.9	71.2	57.6							
					69.1	72.9	52.9							
22/7/2026	Sunny	Calm	10:09	10:39	69.8	72.2	56.9	69	3	72	75	Traffic, human activities	Not Observed	--
					68.7	73.0	57.3							
					68.6	72.4	57.4							
					68.3	72.7	56.9							
					69.1	71.8	56.8							
					70.3	73.4	61.8							
27/7/2026	Cloudy	Calm	16:30	17:00	67.1	69.1	58.5	66	3	69	75	Traffic, dog, human activity	Not Observed	--
					67.0	69.8	55.6							
					67.1	69.0	55.5							
					65.2	69.0	58.1							
					66.2	69.1	56.8							
					64.5	66.9	56.5							

	Ref	Location Name	Level	Type of Measurement
Location	N12b	Lo Uk Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
6/5/2026	Cloudy	Calm	10:32	11:02	66.5	70.5	56.5	69	3	72	75	Traffic, human activity,	Other project	--
					67.9	70.8	58.1							
					69.3	73.0	58.5							
					67.4	71.4	58.2							
					67.3	71.0	57.4							
					71.8	75.5	58.9							
12/5/2026	Cloudy	Calm	10:56	11:26	67.3	71.2	56.2	69	3	72	75	Traffic, human activities	Not observed	--
					71.9	71.6	56.5							
					68.5	72.8	56.4							
					68.3	71.9	56.3							
					68.1	71.4	56.4							
					68.1	70.4	56.4							
21/5/2026	Cloudy	Calm	14:24	14:54	62.4	55.4	54.5	68	3	71	75	Traffic, human activities	Not observed	--
					68.2	59.5	54.7							
					69.0	60.3	55.0							
					67.8	58.2	55.4							
					69.7	59.7	55.2							
					69.4	57.9	55.3							
29/5/2026	Sunny	Calm	10:04	10:34	69.1	72.8	53.0	70	3	73	75	Traffic, human activities	Not observed	--
					71.0	74.1	56.8							
					69.9	72.4	56.0							
					70.8	74.0	56.3							
					70.6	73.6	56.4							
					69.4	73.4	53.8							

	Ref	Location Name	Level	Type of Measurement
Location	N12b	Lo Uk Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
4/6/2026	Sunny	Calm	10:23	10:53	68.3	71.5	53.0	69	3	72	75	Traffic, birds, human activity	Not observed	--
					67.9	71.8	52.8							
					68.4	73.6	53.0							
					70.0	74.4	52.0							
					68.6	73.0	52.5							
					67.6	72.3	52.1							
10/6/2026	Sunny	Calm	10:36	11:06	69.2	72.6	56.9	69	3	72	75	Traffic, birds, human activity	Not observed	--
					69.9	74.9	58.2							
					67.4	70.0	58.2							
					70.0	73.8	57.6							
					69.3	73.0	57.0							
					65.6	68.6	54.1							
18/6/2026	Cloudy	Calm	10:58	11:28	72.0	73.0	57.5	72	3	75	75	Traffic, Truck Operations	Not observed	--
					69.1	72.1	57.2							
					73.1	76.6	58.2							
					70.3	75.1	57.6							
					68.6	73.6	55.8							
					75.8	77.4	64.1							
23/6/2026	Sunny	Calm	11:25	11:55	64.4	63.7	61.4	62	3	65	75	Traffic, birds, human activity	Not observed	--
					65.7	68.5	59.1							
					55.1	57.1	48.5							
					58.8	59.6	49.9							
					56.0	57.1	47.5							
					58.8	62.2	45.6							
29/6/2026	Sunny	Calm	14:57	15:27	68.8	72.9	58.6	67	3	70	75	Traffic, birds, human activity	Not observed	--
					63.8	67.8	56.3							
					66.2	70.3	56.4							
					66.7	69.5	56.6							
					63.4	67.2	56.5							
					67.4	71.6	55.4							

	Ref	Location Name	Level	Type of Measurement
Location	N12b	Lo Uk Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
10/7/2026	Sunny	calm	10:42	11:12	72.4	76.2	55.9	70	3	73	75	Traffic, birds	not observed	--
					67.3	70.8	54.4							
					70.4	75.3	54.6							
					67.8	72.1	54.5							
					68.8	72.4	54.7							
					70.2	73.7	55.2							
17/7/2026	Cloudy	Calm	09:11	09:41	67.0	67.2	48.8	63	3	66	75	Traffic, human activity	Not observed	--
					58.8	60.6	53.4							
					64.0	65.3	52.4							
					62.3	62.8	49.4							
					61.4	63.8	56.1							
					58.8	61.6	54.3							
22/7/2026	Sunny	Calm	10:44	11:14	68.6	72.5	57.0	70	3	73	75	Traffic, human activities, truck activities	Not Observed	--
					69.6	73.4	55.4							
					67.9	73.3	55.6							
					67.9	71.4	55.2							
					70.2	72.0	56.5							
					72.0	74.9	55.2							
27/7/2026	Cloudy	Calm	15:54	16:24	61.4	65.3	53.9	65	3	68	75	Traffic, human activity, helicopter	Not observed	--
					65.9	70.1	55.6							
					68.7	71.5	55.0							
					62.9	68.1	53.5							
					61.1	64.3	53.4							
					64.3	68.6	53.5							

	Ref	Location Name	Level	Type of Measurement
Location	N13	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
6/5/2026	Cloudy	Calm	11:07	11:37	62.3	65.9	49.9	65	3	68	75	Traffic, birds, human activities	Not observed	--
					64.6	66.8	49.5							
					65.4	67.7	50.1							
					63.5	66.8	50.7							
					64.7	68.3	49.9							
					66.1	69.7	51.7							
12/5/2026	Cloudy	Calm	11:39	12:09	61.2	62.4	49.8	63	3	66	75	Traffic, birds, human activities	Not observed	--
					57.3	60.5	51.3							
					61.9	64.3	51.3							
					60.4	64.1	51.0							
					66.0	66.9	51.9							
					64.1	67.7	52.4							
21/5/2026	Cloudy	Calm	14:52	15:22	65.7	69.0	55.4	65	3	68	75	Traffic, birds, human activities, school bell	Not observed	--
					66.7	71.2	55.6							
					61.7	64.1	56.1							
					65.8	68.9	54.9							
					67.0	69.7	55.7							
					63.7	67.3	57.8							
28/5/2026	Cloudy	Calm	11:36	12:06	68.3	71.4	56.1	66	3	69	75	Traffic, birds, human activities, school bell	Not observed	--
					64.4	67.9	54.3							
					62.6	65.9	52.7							
					65.7	70.1	53.8							
					63.2	66.1	52.8							
					67.2	72.2	55.7							

	Ref	Location Name	Level	Type of Measurement
Location	N13	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
4/6/2026	Sunny	Calm	10:56	11:26	66.9	70.5	59.5	67	3	70	75	Traffic, birds, human activity, school bell	Not observed	--
					67.9	70.7	60.0							
					68.0	70.9	60.9							
					68.9	71.4	61.2							
					66.6	69.7	59.4							
					61.8	65.8	53.2							
10/6/2026	Sunny	Calm	11:15	11:45	64.8	68.2	55.1	68	3	71	75	Traffic, birds, human activity, school bell	Not observed	--
					66.6	70.2	56.1							
					66.1	69.6	56.7							
					69.9	73.6	56.9							
					68.6	70.6	54.9							
					66.7	70.3	57.0							
19/6/2026	Fine	Calm	15:54	16:24	60.5	54.3	49.4	63	3	66	75	Traffic, Birds	Not observed	--
					64.3	56.1	49.9							
					64.1	56.0	49.4							
					62.4	54.2	49.1							
					58.6	52.2	47.4							
					65.5	57.0	49.6							
23/6/2026	Sunny	Calm	10:25	10:55	64.6	68.0	56.1	66	3	69	75	Traffic, birds, human activity, school bell	Not observed	--
					67.2	70.4	56.7							
					65.3	67.8	54.2							
					65.5	69.1	56.5							
					65.5	70.2	56.1							
					68.2	70.9	53.6							
29/6/2026	Sunny	Calm	14:24	14:54	64.1	65.5	55.9	63	3	66	75	Traffic, birds, human activity, school bell	Not observed	--
					63.3	66.4	55.2							
					61.7	65.0	54.1							
					62.0	65.5	54.1							
					62.8	65.5	54.9							
					65.0	69.7	56.1							

	Ref	Location Name	Level	Type of Measurement
Location	N13	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
10/7/2026	sunny	calm	11:19	11:49	67.8	72.3	59.1	68	3	71	75	Traffic, human activities	Not observed	--
					64.3	67.9	55.6							
					65.1	69.5	54.7							
					71.7	71.7	54.8							
					68.0	71.5	56.9							
					67.3	71.0	58.8							
18/7/2026	Cloudy	Calm	14:12	14:42	66.8	71.3	54.3	67	3	70	75	Traffic, loading works from 18/wsd/18 human activities	Not Observed	--
					69.3	73.4	54.5							
					68.5	74.5	54.5							
					65.4	68.8	51.8							
					63.7	66.5	52.1							
					67.8	71.8	53.4							
22/7/2026	Sunny	Calm	11:17	11:47	67.6	71.4	55.6	67	3	70	75	Traffic, human activities	Not Observed	--
					68.4	71.7	54.0							
					66.5	71.1	52.5							
					67.5	70.9	52.0							
					63.5	67.5	52.1							
					67.1	71.9	54.0							
27/7/2026	Cloudy	Calm	15:22	15:52	60.7	63.2	53.7	64	3	67	75	Traffic, human activities	Not Observed	--
					63.4	67.8	52.9							
					64.6	67.6	52.5							
					64.7	69.1	53.4							
					65.1	68.6	54.9							
					64.7	66.9	53.0							

	Ref	Location Name	Level	Type of Measurement
Location	N14	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
6/5/2026	Cloudy	Calm	12:23	12:53	57.0	60.2	47.6	55	--	55	75	Traffic, birds, human activities	Not observed	--
					55.3	58.5	46.7							
					51.6	55.3	44.2							
					56.0	59.9	43.8							
					52.6	56.0	45.2							
					54.7	59.0	46.0							
12/5/2026	Cloudy	Calm	13:03	13:33	51.2	53.3	42.5	56	--	56	75	Traffic, birds, human activities	Not observed	--
					57.7	59.4	42.5							
					56.1	57.8	45.0							
					56.3	60.5	44.4							
					58.0	59.8	44.5							
					56.5	60.6	43.5							
21/5/2026	Cloudy	Calm	13:45	14:15	61.3	65.3	52.3	62	--	62	75	Traffic, birds, human activities	Not observed	--
					61.1	64.9	53.7							
					60.2	64.3	52.1							
					63.7	66.1	54.8							
					61.1	64.0	52.8							
					62.8	67.1	53.1							
29/5/2026	Sunny	Calm	11:11	11:41	67.3	72.6	55.9	63	--	63	75	Traffic, birds, frog, human activities	Not observed	--
					60.3	60.8	54.9							
					60.8	62.5	57.7							
					60.0	60.9	59.2							
					59.4	60.6	57.4							
					60.3	62.8	55.9							

	Ref	Location Name	Level	Type of Measurement
Location	N14	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
4/6/2026	Sunny	Calm	12:05	12:35	62.2	65.2	59.8	65	--	65	75	Traffic, birds, human activity, frog	Not observed	--
					64.8	66.6	62.9							
					64.5	65.8	61.6							
					63.0	65.8	58.9							
					60.3	63.6	56.5							
					69.1	72.6	60.3							
10/6/2026	Sunny	Calm	12:21	12:51	56.1	59.6	48.2	61	--	61	75	Traffic, birds, human activity, frog	Not observed	--
					63.9	59.2	46.7							
					60.6	61.4	47.3							
					60.9	60.6	46.0							
					57.8	61.4	48.6							
					60.0	61.7	50.5							
17/6/2026	Cloudy	Calm	14:17	14:47	59.6	59.7	48.8	60	--	60	75	Traffic, birds, human activity	Not observed	--
					61.5	64.6	53.0							
					58.3	60.2	52.2							
					57.0	60.1	50.4							
					59.8	62.3	49.9							
					61.7	64.3	51.7							
23/6/2026	Sunny	Calm	09:53	10:23	56.0	57.6	48.6	61	--	61	75	Traffic, birds, human activity, frog	Not observed	--
					55.8	59.2	48.5							
					55.2	57.0	51.0							
					56.4	59.0	49.4							
					59.5	62.4	51.5							
					67.1	68.5	54.7							
29/6/2026	Sunny	Calm	13:03	13:33	61.1	59.8	46.9	58	--	58	75	Traffic, birds, human activity	Not observed	--
					54.5	56.7	50.3							
					57.8	58.6	51.2							
					55.4	57.3	51.6							
					55.8	59.6	49.8							
					56.6	59.4	46.5							

	Ref	Location Name	Level	Type of Measurement
Location	N14	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
10/7/2026	sunny	calm	11:54	12:24	53.3	57.3	43.9	56	--	56	75	Birds, human activities	Not observed	--
					56.9	60.3	43.1							
					52.5	56.0	43.8							
					54.9	57.5	45.2							
					54.2	57.1	44.9							
					60.3	63.2	44.6							
17/7/2026	Cloudy	Calm	10:50	11:20	56.8	60.2	49.6	54	--	54	75	Traffic, human activity	Not observed	--
					53.7	51.7	49.6							
					51.6	50.8	48.1							
					51.4	49.9	48.6							
					53.9	59.3	47.3							
					54.0	58.8	47.1							
22/7/2026	sunny	calm	12:26	12:56	69.0	68.8	67.6	68	--	68	75	Traffic, human activities	Roadside works, noise source coming from the generator	--
					68.2	68.8	67.7							
					68.2	68.8	67.7							
					68.0	68.6	67.6							
					68.1	68.6	67.6							
					68.3	68.9	67.8							
27/7/2026	Cloudy	Calm	14:04	14:34	55.4	54.4	42.4	57	--	57	75	Traffic, human activity	Not observed	--
					58.1	59.2	51.6							
					59.9	62.2	53.4							
					56.5	56.2	53.3							
					53.3	54.6	46.9							
					58.2	59.8	46.1							

	Ref	Location Name	Level	Type of Measurement
Location	N15b	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
6/5/2026	Cloudy	Calm	14:38	15:08	64.6	68.2	56.2	62	--	62	75	Traffic, birds, human activities	Other project	--
					59.9	64.6	55.2							
					58.1	61.0	55.2							
					61.8	65.3	55.5							
					61.6	64.6	57.6							
					63.1	66.6	59.1							
12/5/2026	Cloudy	Calm	14:59	15:29	63.5	66.1	57.3	65	--	65	75	Traffic, birds, human activities	Other project	--
					67.2	67.1	57.7							
					63.1	67.3	57.0							
					65.3	68.3	57.4							
					63.0	65.6	57.9							
					64.5	66.9	57.6							
21/5/2026	Cloudy	Calm	12:08	12:38	67.4	72.9	60.5	66	--	66	75	Traffic, birds, human activities	Not observed	--
					66.7	71.0	60.9							
					68.0	67.7	60.6							
					67.3	72.3	57.8							
					61.0	64.8	53.2							
					64.0	68.8	51.5							
29/5/2026	Sunny	Calm	12:49	13:19	64.8	67.7	58.3	66	--	66	75	Traffic, birds, human activities	Not observed	--
					65.2	66.7	62.9							
					67.1	71.6	59.5							
					65.4	68.2	59.1							
					65.4	68.1	59.9							
					68.6	71.6	59.0							

	Ref	Location Name	Level	Type of Measurement
Location	N15b	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
4/6/2026	Sunny	Calm	13:46	14:16	63.6	66.3	60.8	64	--	64	75	Traffic, birds, human activity	Other project	--
					63.8	65.9	60.2							
					67.3	68.4	54.6							
					59.6	62.8	53.4							
					58.6	59.9	52.5							
					65.8	70.7	56.3							
10/6/2026	Sunny	Calm	14:06	14:36	66.6	68.7	62.0	65	--	65	75	Traffic, birds, human activity	Other project	--
					62.9	66.2	58.1							
					63.8	67.8	58.0							
					65.8	68.9	59.3							
					61.2	63.6	58.2							
					65.2	69.4	56.9							
17/6/2026	Cloudy	Calm	09:48	10:18	65.2	66.8	59.9	67	--	67	75	Traffic, birds, human activity	Not observed	--
					66.2	69.7	60.7							
					67.7	70.2	60.0							
					65.2	68.6	59.9							
					68.2	72.9	60.0							
					68.0	71.2	61.1							
23/6/2026	Sunny	Calm	11:41	12:11	63.0	65.3	60.5	64	--	64	75	Traffic, birds, human activity	Not observed	--
					64.5	66.7	60.6							
					65.1	67.6	60.5							
					62.7	65.0	60.2							
					63.0	65.2	60.3							
					63.4	65.8	60.7							
29/6/2026	Sunny	Calm	11:07	11:37	64.7	67.2	57.4	64	--	64	75	Traffic, birds, human activity	Not observed	--
					60.9	63.3	56.4							
					64.5	66.9	57.1							
					62.5	64.3	55.9							
					65.1	67.9	56.3							
					65.5	66.6	54.9							

	Ref	Location Name	Level	Type of Measurement
Location	N15b	Pui O San Wai Tsuen	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
10/7/2026	Sunny	Calm	12:34	13:04	50.2	52.1	47.4	53	--	53	75	Traffic, human activities	Not observed	--
					50.7	53.0	47.3							
					51.3	53.5	48.7							
					56.3	54.2	48.1							
					52.4	53.3	48.5							
					51.5	54.2	48.2							
20/7/2026	Cloudy	Calm	15:57	16:27	63.8	66.6	60.6	66	--	66	75	Traffic	Not Observed	--
					66.1	68.8	60.4							
					63.0	66.9	55.7							
					63.4	66.2	55.8							
					70.3	70.5	63.2							
					64.0	67.4	54.9							
22/7/2026	Cloudy	Calm	14:17	14:47	67.9	68.8	61.2	65	--	65	75	Traffic, human activities	Not Observed	--
					64.2	66.7	61.5							
					65.0	67.2	61.0							
					63.7	65.8	61.1							
					64.4	67.1	61.5							
					63.2	64.9	61.0							
27/7/2026	Cloudy	Calm	12:15	12:45	63.2	64.9	60.4	63	--	63	75	Traffic	Not Observed	--
					63.0	65.5	60.7							
					63.7	68.0	55.2							
					62.7	64.4	55.1							
					60.2	62.8	56.0							
					65.5	69.3	51.8							

	Ref	Location Name	Level	Type of Measurement
Location	N16a	Residences at Ham Tin	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
6/5/2026	Cloudy	Calm	13:49	14:19	60.6	56.9	45.4	60	3	63	75	Traffic, birds and human activities	Not observed	--
					56.2	60.3	46.0							
					63.7	64.8	46.9							
					62.8	60.3	45.3							
					55.1	55.4	44.5							
					55.4	53.2	46.0							
12/5/2026	Cloudy	Calm	14:19	14:49	56.7	56.3	53.2	58	3	61	75	Traffic, birds and human activities	Not observed	--
					59.0	62.3	53.6							
					60.5	61.7	59.6							
					55.8	59.7	50.3							
					57.8	62.5	49.4							
					50.4	51.4	47.0							
21/5/2026	Cloudy	Calm	12:42	13:12	55.3	58.6	49.9	63	3	66	75	Traffic, birds, human activities	Not observed	--
					59.4	59.3	48.5							
					59.0	60.3	49.5							
					68.3	62.5	51.5							
					63.4	63.8	54.8							
					62.2	65.4	57.9							
29/5/2026	Sunny	Calm	11:45	12:15	63.5	64.3	59.3	61	3	64	75	Traffic, birds, human activities	Not observed	--
					61.8	63.0	59.5							
					62.3	63.9	60.6							
					60.7	63.0	57.0							
					58.7	61.5	56.2							
					55.6	59.4	51.4							

	Ref	Location Name	Level	Type of Measurement
Location	N16a	Residences at Ham Tin	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
4/6/2026	Sunny	Calm	13:11	13:41	58.4	62.3	53.5	66	3	69	75	Traffic, birds, human activity	Not observed	--
					58.5	62.7	53.1							
					60.2	63.1	55.8							
					67.1	70.1	61.5							
					70.2	71.1	69.0							
					66.1	71.0	55.5							
10/6/2026	Sunny	Calm	12:57	13:27	59.0	57.8	55.6	60	3	63	75	Traffic, birds, human activity	Not observed	--
					59.9	57.8	53.9							
					59.3	57.8	50.8							
					56.7	53.9	48.1							
					58.3	54.7	44.2							
					62.3	57.4	44.8							
17/6/2026	Cloudy	Calm	11:14	11:44	56.8	58.0	53.0	60	3	63	75	Traffic, birds, human activity	Not observed	--
					63.3	64.7	48.4							
					57.8	57.4	47.0							
					59.0	58.1	46.3							
					52.2	53.1	48.5							
					62.8	63.4	53.8							
23/6/2026	Sunny	Calm	10:16	10:46	56.8	55.4	50.6	59	3	62	75	Traffic, birds, human activity	Not observed	--
					59.7	55.5	51.6							
					62.2	58.9	53.5							
					57.2	57.9	50.7							
					56.5	57.4	48.2							
					56.8	61.9	51.2							
29/6/2026	Sunny	Calm	12:21	12:51	51.7	51.7	42.8	64	3	67	75	Traffic, birds, human activity	Not observed	--
					51.4	50.2	40.3							
					63.0	51.7	39.5							
					66.3	59.5	38.5							
					68.0	53.5	41.2							
					59.1	57.4	42.5							

	Ref	Location Name	Level	Type of Measurement
Location	N16a	Residences at Ham Tin	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
10/7/2026	Sunny	Calm	14:28	14:58	53.6	55.3	50.8	54	3	57	75	Traffic, human activities	Not observed	--
					54.9	57.7	51.6							
					53.4	55.1	51.7							
					54.0	55.0	52.5							
					54.2	55.1	53.1							
					54.6	55.8	53.5							
17/7/2026	Cloudy	Calm	12:16	12:46	67.4	72.9	50.0	68	3	71	75	Traffic, human activity	Not observed	--
					69.9	72.1	66.7							
					69.6	72.1	66.3							
					68.7	70.9	65.5							
					64.3	69.0	54.5							
					59.4	63.3	45.6							
22/7/2026	Sunny	Calm	13:07	13:37	51.7	51.6	41.1	57	3	60	75	Traffic, human activities	Not Observed	--
					58.4	54.6	41.2							
					56.8	50.5	43.8							
					60.3	58.2	44.6							
					53.6	48.5	41.5							
					58.3	52.2	42.7							
27/7/2026	Cloudy	Calm	13:27	13:57	54.5	56.3	53.3	56	3	59	75	Traffic, human activity	Not observed	--
					57.6	58.7	52.2							
					55.4	52.4	50.9							
					54.9	56.3	50.7							
					51.3	51.8	50.9							
					57.6	60.9	50.8							

	Ref	Location Name	Level	Type of Measurement
Location	N16b	Residences at Ham Tin	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
6/5/2026	Cloudy	Calm	13:09	13:39	50.2	52.6	42.5	51	3	54	75	Traffic, birds, human activities	Not observed	--
					51.3	53.8	43.9							
					48.7	52.1	42.9							
					53.2	56.8	45.8							
					51.2	54.0	46.2							
					49.8	52.0	47.2							
12/5/2026	Cloudy	Calm	13:40	14:10	51.8	55.5	44.1	53	3	56	75	Traffic, birds, human activities	Not observed	--
					51.6	55.5	44.2							
					51.7	55.5	44.8							
					55.4	54.3	43.8							
					49.6	54.4	43.7							
					52.5	57.3	44.2							
21/5/2026	Cloudy	Calm	13:14	13:44	68.3	71.7	64.1	65	3	68	75	Traffic, birds, human activities	Not observed	--
					64.8	68.5	59.9							
					64.4	66.0	62.1							
					64.4	65.8	62.0							
					63.8	65.8	60.4							
					62.6	65.8	58.6							
29/5/2026	Sunny	Calm	12:17	12:47	56.8	63.1	47.2	59	3	62	75	Traffic, birds, human activities	Not observed	--
					49.5	53.0	44.5							
					59.5	67.1	44.8							
					55.9	57.6	50.9							
					57.0	57.5	56.5							
					64.4	69.8	57.0							

	Ref	Location Name	Level	Type of Measurement
Location	N16b	Residences at Ham Tin	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
4/6/2026	Sunny	Calm	12:38	13:08	60.4	60.8	55.2	61	3	64	75	Traffic, birds, human activity	Not observed	--
					59.1	59.9	58.4							
					52.5	52.1	57.3							
					59.0	60.9	56.1							
					60.0	59.7	55.4							
					63.3	59.8	52.6							
10/6/2026	Sunny	Calm	13:30	14:00	53.2	58.6	42.9	54	3	57	75	Traffic, birds, human activity	Not observed	--
					52.3	57.4	42.9							
					53.4	58.6	42.3							
					54.4	60.3	42.7							
					53.9	59.6	43.8							
					54.8	59.9	45.6							
17/6/2026	Cloudy	Calm	11:49	12:19	68.8	65.5	59.7	62	3	65	75	Traffic, birds, human activity	Not observed	--
					59.1	60.8	56.4							
					58.1	61.8	54.2							
					55.7	57.5	50.1							
					52.6	55.9	48.3							
					55.2	58.6	46.5							
23/6/2026	Sunny	Calm	10:51	11:21	54.0	55.0	50.0	55	3	58	75	Traffic, birds, human activity	Not observed	--
					53.2	55.3	50.0							
					55.3	55.6	52.0							
					56.4	57.2	54.4							
					55.5	57.9	52.9							
					53.1	54.9	48.6							
29/6/2026	Sunny	Calm	11:48	12:18	53.6	57.3	47.6	52	3	55	75	Traffic, birds, human activity	Not observed	--
					51.3	54.6	45.0							
					50.0	53.1	44.4							
					50.6	52.6	43.5							
					48.0	50.8	42.3							
					54.5	58.7	43.0							

	Ref	Location Name	Level	Type of Measurement
Location	N16b	Residences at Ham Tin	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
10/7/2026	Sunny	Calm	15:14	15:44	57.8	58.4	43.8	59	3	62	75	Human activities, birds	Not observed	--
					55.6	51.3	42.9							
					60.8	61.2	43.3							
					57.7	53.7	44.9							
					61.1	61.2	44.7							
					56.0	57.4	44.0							
17/7/2026	Cloudy	Calm	16:52	17:22	50.9	49.8	48.0	54	3	57	75	Traffic, human activity	Not observed	--
					51.4	54.2	47.9							
					54.2	57.6	48.2							
					55.4	58.5	48.4							
					54.4	56.8	48.1							
					54.8	58.1	48.0							
22/7/2026	Sunny	Calm	13:41	14:11	71.9	72.3	71.0	72	3	75	75	Traffic, human activities, construction works from WSD	Not Observed	--
					72.7	73.1	71.4							
					71.4	71.8	70.5							
					71.3	71.7	70.7							
					71.3	71.8	70.7							
					71.5	72.7	70.4							
27/7/2026	Cloudy	Calm	12:52	13:22	52.4	54.7	48.3	52	3	55	75	Traffic, human activity	Not observed	--
					52.7	54.9	48.3							
					50.1	53.3	47.4							
					50.9	54.0	48.3							
					51.3	53.0	48.3							
					52.6	55.1	48.4							

	Ref	Location Name	Level	Type of Measurement
Location	N17	Bui O Public School	R/F	Façade

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
6/5/2026	Cloudy	Calm	11:45	12:15	58.8	62.3	50.0	58	--	58	65	School activities, birds	Not observed	--
					51.2	52.7	50.0							
					59.6	61.1	48.5							
					56.7	57.8	51.7							
					58.1	60.5	50.5							
					57.1	60.2	51.1							
12/5/2026	Cloudy	Calm	12:21	12:51	54.5	55.6	53.2	56	--	56	70	School activities, birds	Not observed	--
					55.2	56.3	53.1							
					55.9	56.9	53.2							
					56.3	57.5	55.0							
					55.8	56.4	54.8							
					56.2	57.2	54.9							
21/5/2026	Cloudy	Calm	14:19	14:49	52.7	55.0	50.1	52	--	52	70	School bell, birds	Not observed	--
					51.9	53.2	49.4							
					51.8	52.6	50.0							
					52.7	53.4	50.1							
					52.2	53.4	50.8							
					52.6	53.7	51.5							
29/5/2026	Sunny	Calm	10:38	11:08	54.8	55.7	53.5	57	--	57	70	School bell, birds	Not observed	--
					54.6	55.4	53.4							
					55.5	56.9	53.2							
					56.1	56.9	55.2							
					55.3	56.5	53.3							
					61.0	64.6	51.2							

	Ref	Location Name	Level	Type of Measurement
Location	N17	Bui O Public School	R/F	Façade

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
4/6/2026	Sunny	Calm	11:30	12:00	55.5	57.2	52.8	59	--	59	65	Birds, human activity, school bell	Not observed	--
					60.7	63.8	55.9							
					59.9	62.6	56.3							
					61.0	64.6	54.0							
					54.8	56.0	53.5							
					58.4	59.1	53.0							
10/6/2026	Sunny	Calm	11:48	12:18	52.9	54.1	50.9	55	--	55	65	Birds, human activity, school bell	Not observed	--
					53.7	55.1	50.9							
					52.9	54.3	50.7							
					53.1	54.6	50.8							
					54.0	55.5	51.2							
					58.7	62.4	50.0							
18/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	Not conducted due to rainstorm
					--	--	--							
					--	--	--							
					--	--	--							
					--	--	--							
					--	--	--							
23/6/2026	Sunny	Calm	12:20	12:50	56.0	57.8	54.2	56	--	56	70	Birds, human activity	Not observed	--
					56.5	58.4	54.4							
					56.0	57.4	54.4							
					55.5	56.9	54.0							
					55.3	56.4	54.0							
					55.8	57.0	54.4							
29/6/2026	Sunny	Calm	13:44	14:14	54.6	55.0	52.6	56	--	56	70	Birds, human activity	Not observed	--
					54.1	56.1	52.0							
					54.7	54.8	52.2							
					52.1	53.6	50.6							
					59.2	62.1	51.2							
					54.4	56.1	52.2							

	Ref	Location Name	Level	Type of Measurement
Location	N17	Bui O Public School	R/F	Façade

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Limit Level	Other Noise Sources	Construction Noise	Remake
					Leq	L10	L90							
10/7/2026	Sunny	Calm	15:52	16:22	67.5	71.4	60.8	67	--	67	70	Human activities	Not observed	--
					67.1	71.6	59.8							
					66.0	68.2	63.4							
					66.9	68.3	63.7							
					66.8	70.0	63.0							
					67.4	70.5	63.2							
20/7/2026	Cloudy	Calm	15:16	15:46	50.2	53.1	47.2	51	--	51	70	Traffic	Not Observed	--
					50.6	51.3	47.0							
					49.1	50.5	47.0							
					50.3	52.9	47.1							
					50.7	53.4	47.8							
					52.1	53.0	48.6							
22/7/2026	Sunny	Calm	11:51	12:21	49.1	50.6	47.3	49	--	49	70	Traffic, human activities	Not Observed	--
					49.4	51.2	47.8							
					49.2	50.9	47.5							
					49.2	51.0	47.2							
					48.2	49.0	46.5							
					49.5	51.4	46.9							
27/7/2026	Cloudy	Calm	14:40	15:10	49.8	52.2	45.9	50	--	50	70	Traffic	Not Observed	--
					47.9	49.2	45.3							
					48.4	50.8	45.2							
					51.8	55.3	46.4							
					52.7	56.0	45.2							
					49.6	52.2	43.8							

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Appendix 3.2
Waste Material in the Reporting Quarter

Summary Waste Flow Table for May to July 2026

Month	Actual Quantities of Inert C&D Material Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated (a) (in '000m3)	Hard Rocks and Large Broken Concrete (b) (in '000m3)	Reused in the Contract (c) (in '000m3)	Reused in other Projects (d) (in '000m3)	Disposed as Public Fill (a-b-c-d) (in '000m3)	Imported Fill (in '000m3)	Metals (in '000kg)	Paper/cardboard packaging (in '000kg)	Plastics [see Note 3] (in '000kg)	Chemical waste (in '000kg)	Others. e.g. general refuse (in '000kg)
May-26	0.04	0.00	0.00	0.00	0.040	0.000	0.003	0.097	0.002	0.00	54.04
Jun-26	0.2	0.00	0.00	0.00	0.2	0.00	0.0000	0.0000	0.0000	0.00	34.47
Jul-26	0.15	0.00	0.00	0.00	0.15	0.00	0.004	0.049	0.004	0.00	65.53
Total	0.39	0	0	0	0.39	0	0.007	0.146	0.006	0.00	154.04

Notes:
(1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF) or Tuen Mun Area 38 Fill Bank (TM38-FB)
(2) The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank (TKO137FB)
(3) The non-inert waste is disposed at NENT or Outlying Islands Transfer Facilities
(4) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(5) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
(6) Assume the density of fill material is 2 tonne/m3.