


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

Monthly Environmental Monitoring and Audit  
Report for:  
February 2026  
Revision 3

Certified By:

A handwritten signature in black ink that reads "Josephine".

Lau Hoi Wai, Josephine  
Environmental Team Leader  
Report Date: 13 March 2026



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

Our Ref: 7076811/L33081/AC/KL/TK/KCL/jm

13 March 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 Monthly EM&A Report (February 2026)**

With reference to the Monthly EM&A Report (February 2026) Revision 3 dated and certified by the ET Leader on 13 March 2026, please note that we have no adverse comments on the captioned and we hereby verify the captioned in accordance with Condition 3.4 of the Environmental Permit No. EP-538/2017.

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

Yours faithfully



**Kitty LEE**  
Independent Environmental Checker

|    |         |                                     |          |
|----|---------|-------------------------------------|----------|
| CC | Binnies | - Mr. Kevin CHAN                    | by email |
|    | Umwelt  | - Mr. Ivan TING / Ms. Josephine Lau | by email |
|    | KLCW-JV | - Mr. Daniel Chu                    | by email |

## Content:

|            |  |           |
|------------|--|-----------|
| <b>1.</b>  | <b>Introduction.....</b>   | <b>1</b>  |
| 1.1        | Project Background .....   | 1         |
| 1.2        | Environmental Monitoring & Audit Programme .....   | 1         |
| 1.3        | Monthly Environmental Monitoring & Audit Report .....  | 2         |
| <b>2.</b>  | <b>Basic project Information and Environmental Status .....</b>  | <b>4</b>  |
| 2.1        | Basic Project Information.....   | 4         |
| 2.2        | Construction Programme.....  | 4         |
| 2.3        | Works undertaken during the Reporting Month .....  | 5         |
| 2.4        | Drawing Showing the Project Area, Environmental Sensitive Receivers and Monitoring Locations .....             | 5         |
| <b>3.</b>  | <b>Implementation Status .....</b>   | <b>6</b>  |
| 3.1        | Advice on the Implementation Status of Environmental Protection and Pollution Control/Mitigation Measures<br>6 | 6         |
| 3.2        | Environmental Mitigation Measures .....  | 6         |
| 3.3        | Environmental Monitoring Requirements and Contractual Requirements .....                                       | 6         |
| 3.4        | Site Inspection and Audit Reports .....  | 7         |
| <b>4.</b>  | <b>Noise Monitoring .....</b>  | <b>10</b> |
| 4.1        | Monitoring Methodology .....   | 10        |
| 4.2        | Monitoring Stations.....   | 11        |
| 4.3        | Monitoring Date, Time, Frequency and Duration .....  | 12        |
| 4.4        | Noise Monitoring Results.....  | 12        |
| <b>5.</b>  | <b>Water Quality Monitoring.....</b>   | <b>13</b> |
| 5.1        | Completion of Water Quality Monitoring.....  | 13        |
| <b>6.</b>  | <b>Ecology.....</b>  | <b>14</b> |
| 6.1        | Monitoring Methodology .....   | 14        |
| 6.2        | Parameters Monitored .....   | 14        |
| 6.3        | Monitoring Location .....  | 14        |
| 6.4        | Monitoring Date, Time, Frequency and Duration .....  | 14        |
| 6.5        | Monitoring Results .....   | 14        |
| <b>7.</b>  | <b>Waste Management.....</b>   | <b>15</b> |
| <b>8.</b>  | <b>Complaints, Notification of Summons and Prosecution.....</b>  | <b>16</b> |
| <b>9.</b>  | <b>Future Key Issues.....</b>  | <b>18</b> |
| <b>10.</b> | <b>Conclusion .....</b>  | <b>19</b> |
| 10.1       | Noise Monitoring.....  | 19        |
| 10.2       | Water Quality Monitoring .....   | 19        |
| 10.3       | Ecological Impact Monitoring .....   | 19        |
| 10.4       | Review of the Reasons for and the Implications of Non-compliance .....   | 19        |
| 10.5       | Summary of Action Taken in the Event of and Follow-Up on Non-Compliance.....                                   | 19        |

## Tables:

|             |   |
|-------------|---|
| Table 2.1:  | Contact Details of Key Personnel  |
| Table 3.1:  | Summary of Submission Status under EP-538/2017  |
| Table 3.2:  | Summary of the Current Status on Licences and/or Permits on Environmental Protection Pertinent to The Project |
| Table 3.3:  | Summary of Environmental Inspections  |
| Table 4.1:  | Noise Monitoring Equipment  |
| Table 4.2:  | Noise Monitoring Station  |
| Table 7.1:  | Summary of Quantities of Waste Material   |
| Table 8.1:  | Cumulative Statistics on Complaints   |
| Table 8.2:  | Summary of Complaints   |
| Table 8.3:  | Cumulative Statistics on Successful Prosecutions  |
| Table 9.1:  | Construction Activities and Recommended Mitigation Measures in Coming Reporting 3 Months                      |
| Table 10.1: | Summary of Ecological Impact Monitoring   |

## Figures:

|            |   |
|------------|---|
| Figure 2.1 | Master Layout Plan  |
| Figure 2.2 | Contract Layout Plan  |
| Figure 2.3 | Locations of Noise Monitoring Station                                   |
| Figure 6.1 | Mark up Figure 5.4i extracted from approved EIA Report (AEIAR-210/2017) |
| Figure 6.2 | Location Plan for Temporary Holding Nursery                             |

## Appendices:

|              |   |
|--------------|---|
| Appendix 4.1 | Calibration Certificates for Noise Meter and Acoustic Calibrator  |
| Appendix 4.2 | Impact Monitoring Schedule for Construction Phase Noise Monitoring for the Reporting Month and Next Month |
| Appendix 4.3 | Noise Monitoring Results and Graphical Presentations  |
| Appendix 7.1 | Monthly Summary Waste Flow Table  |
| Appendix 9.1 | 3 Months Rolling Programme  |

## Executive Summary

This Monthly Environmental Monitoring and Audit (“EM&A”) Report summarise 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 month of February 2026.

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

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road;
- Trenchless drilling works (Chi Ma Wan Road);
- Excavation and Excavation and Lateral Support (“ELS”) work at Pui O Sewage Pumping Station (“POSPS”);
- Superstructure Reinforced Concrete (“RC”) works at San Shek Wan Sewerage Treatment Works (“SSWSTW”);
- Waterproofing Work at SSWSTW;
- Excavation and Site formation at SSWSTW;
- Electrical and Mechanical (“E&M”) Installation at POSPS; and
- E&M Installation at SSWSTW
- Slope Work near SSWSTW

### **Noise Monitoring**

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 month.

During the report period, Bui O Public School was on holiday from 16 to 25 February 2026. As a result, the noise monitoring for N17 was not conducted on 20 February 2026. The noise monitoring at N17 has resumed on 26 February 2026.

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

### **Water Quality Monitoring**

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 month.

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**

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

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.

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 environmental complaint was recorded in the reporting month.

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

### **Reporting Changes**

There are no reporting changes in the reporting month.

**Future Key Issues**

The construction works scheduled to be conducted in the coming 3 reporting months are listed as follows:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road;
- Excavation and site formation at SSWSTW;
- Trenchless drilling works (Chi Ma Wan Road);
- Excavation and ELS work at POSPS;
- Superstructure RC works at SSWSTW;
- Waterproofing Work at SSWSTW;
- Retaining wall construction at SSWSTW;
- E&M Installation at POSPS;
- E&M Installation at SSWSTW;
- Architectural Builders Works and Finishes Work (“ABWF”) at POSPS; and
- ABWF at SSWSTW

Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

| Key Construction Works  | Recommended Mitigation Measures   |
|---|---|
| <ul style="list-style-type: none"> <li>• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road;</li> <li>• Excavation and site formation at SSWSTW;</li> <li>• Trenchless drilling works (Chi Ma Wan Road);</li> <li>• Excavation and ELS work at POSPS;</li> <li>• Superstructure RC works at SSWSTW;</li> <li>• Waterproofing Work at SSWSTW;</li> <li>• Retaining wall construction at SSWSTW;</li> <li>• E&amp;M Installation at POSPS;</li> <li>• E&amp;M Installation at SSWSTW;</li> <li>• Architectural Builders Works and Finishes Work (“ABWF”) at POSPS; and</li> <li>• ABWF at SSWSTW</li> </ul> | <ul style="list-style-type: none"> <li>• Prevention of site runoff during heavy rainstorms.</li> <li>• Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan;</li> <li>• Dust control during dust generating works;</li> <li>• Adopt surface drainage and sediment control facilities for sewage installation in village and public roads;</li> <li>• Adopt temporary drainage and sediment control facilities on Site;</li> <li>• Vehicle wheel-washing and body washing facilities should be provided at the site entrance;</li> <li>• Regular water spraying on excavation works for dust control; and</li> <li>• Proper waste handling, recycling and storage.</li> </ul> |

## 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:
- Construction of a secondary sewage treatment works (“STW”) at San Shek Wan in South Lantau;
  - Construction of sewage pumping station (“SPS”) at Pui O, San Shek Wan, Cheung Sha, Cheung Fu Street, Shui Hau and Tong Fuk;
  - 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;
  - 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
  - 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 Environmental Monitoring & Audit (“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 Environmental Monitoring and Audit (“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 Monthly Environmental Monitoring & Audit Report

- 1.3.1 This Monthly EM&A Report summarise 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 month of February 2026.
- 1.3.2 The structure of this Report is detailed as follows:
- a) **Section 1 Introduction –**  
Details the scope and structure of the report.
  - b) **Section 2 Basic project information and Environmental Status –**  
Summarizes project organization and key personnel contact, construction programme and works undertaken for the month. Construction programme, works undertaken during the month with illustrations, drawing showing the project area, environmental sensitive receivers and monitoring locations.
  - c) **Section 3 Implementation Status –**  
Advice on the implementation status of environmental protection and pollution control/mitigation measures, as recommended in the EIA Report and summarised in the updated implementation schedule.
  - d) **Section 4 Noise Monitoring –**  
Summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration, for impact noise monitoring.
  - e) **Section 5 Water Quality Monitoring –**  
Summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration, for impact water quality monitoring.
  - f) **Section 6 Ecology –**  
Summarizes the audit findings during the reporting month on ecological aspects.
  - g) **Section 7 Waste Management –**  
Summarizes the status of waste management, including the amount and types of waste generated, and respective treatment approach.
  - h) **Section 8 Report on Complaints, Notification of Summons and Successful Prosecutions –**  
Summarizes:
    - Record of all complaints received (written or verbal) for each media, including locations and nature of complaints investigation, liaison and consultation undertaken, actions and follow-up procedures taken, results and summary.
    - Record of notifications of summons and successful prosecutions for breaches of the current environmental protection/pollution control legislations, including locations and nature of the breaches, investigation, follow-up actions taken, results and summary.

- Review of the reasons for and the implications of non-compliance, complaints, summons and prosecutions including review of pollution sources and working procedures; and
  - Description of the actions taken in the event of non-compliance and deficiency reporting and any follow-up procedures related to non-compliance.
- i) **Section 9 Future Key Issues –**  
An account of the future key issues as reviewed from the works programme and work method statements.
- j) **Section 10 Conclusion –**  
Summarises the findings conclusion drawn from the environmental monitoring and audit programme in this reporting month.

## 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 Sewage Works – Environmental Team Services (2023 – 2024), the subsequent contract, Contract No. CM 04/2024 Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025-2027), has been awarded to Umwelt Consulting Limited (“UCL”) starting 1 February 2025. As such the environmental team leader (“ETL”) appointed for the Project has been updated to Mr. Ting Po Chung, Ivan since 1 February 2025. His contact details has been updated in **Table 2.1**.

2.1.3 There are no other reporting changes in the reporting month.

**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 Chan  | 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                | Mr. Ivan Ting   | 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 Month

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

- a) Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
- b) Trenchless drilling works (Chi Ma Wan Road)
- c) Excavation and ELS work at POSPS
- d) Superstructure RC works at SSWSTW
- e) Waterproofing Work at SSWSTW
- f) Excavation and Site formation at SSWSTW
- g) E&M Installation at POSPS
- h) E&M Installation at SSWSTW
- i) Slope Work near SSWSTW

2.3.2 The locations of the works are shown in **Figure 2.2**.

### 2.4 Drawing Showing the Project Area, Environmental Sensitive Receivers and Monitoring Locations

2.4.1 Noise monitoring location plans with sensitive receivers are shown in **Figure 2.3** respectively.

### 3. Implementation Status

#### 3.1 Advice on the Implementation Status of Environmental Protection and Pollution Control/Mitigation Measures

3.1.1 Mitigation measures according to the environmental mitigation implementation schedule in Annex A of EM&A Manual were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

#### 3.2 Environmental Mitigation Measures

3.2.1 Environmental mitigation measures mentioned the EIA Report were weekly reviewed and recorded in Weekly Environmental Site Audit Checklist. Also, a summary of the current status on submissions and measures mentioned in the EP No. EP-538/2017 are shown in **Table 3.1**.

**Table 3.1: Summary of Submission Status under EP-538/2017**

| EP Condition | Submission and Revision No.   | Date of Latest Submission |
|--------------|---|---------------------------|
| 2.10         | Waste Management Plan (Rev. 5) (electronic copy)  | 4 April 2022#             |
| 2.11         | Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (Rev. 23) | 9 September 2022#         |
| 2.12         | Compensatory Woodland Planting Plan (Rev. 23)   | 15 May 2023^              |
| 2.13         | Silt Curtain Deployment Plan (Rev. 11)  | 1 June 2022#              |
| 2.14         | Landscape Mitigation Plan   | To be confirmed           |
| 2.15         | Construction Noise Mitigation Plan (Rev. 20)  | 4 August 2022#            |

Note:

^ Submission was made to EPD

# Approval from EPD was received

#### 3.3 Environmental Monitoring Requirements and Contractual Requirements

3.3.1 A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 3.2**.

**Table 3.2: Summary of the Current Status on Licences and/or Permits on Environmental Protection Pertinent to The Project**

| Permits and/or Licences  | Permit. No. / Account No.                             | Issued Date | Valid Period & Expiry Date | Status |
|--|---|-------------|----------------------------|--------|
| Notification of Works Under APCO                                     | 466408  | 14 Apr 2021 | N/A                        | Valid  |
| Wastewater Discharge Licence under Water Pollution Control Ordinance | SSWSTW: WT00039636-2021                               | 30 Dec 2021 | 30 Dec 2021 to 31 Dec 2026 | Valid  |
|  | POPS: WT00039820-2021                                 | 31 Dec 2021 | 31 Dec 2021 to 31 Dec 2026 | Valid  |
|  | SSWSTW: Gravity Sewer & Raising Main: WT00042613-2022 | 09 Jan 2023 | 09 Jan 2023 to 31 Jan 2028 | Valid  |

| Permits and/or Licences   | Permit. No. / Account No. | Issued Date | Valid Period & Expiry Date | Status                 |
|---|---------------------------|-------------|----------------------------|------------------------|
| Billing account under Waste Disposal Ordinance                              | Account No.: 7040411      | 05 May 2021 | N/A                        | Valid                  |
| Registration as a Chemical Waste Producer                                   | 0000-931-K3428-01         | 13 May 2021 | N/A                        | Valid                  |
| Construction Noise Permit under Noise Control Ordinance for SSWSTW          | GW-RS0836-25              | 13 Aug 2025 | 15 Aug 2025 to 12 Feb 2026 | Expired on 13 Feb 2026 |
|   | GW-RS0087-26              | 30 Jan 2026 | 13 Feb 2026 to 12 Aug 2026 | Valid                  |
| Construction Noise Permit under Noise Control Ordinance for POSPS           | GW-RS0993-25              | 18 Sep 2025 | 27 Sep 2025 to 26 Mar 2026 | Valid                  |
| Construction Noise Permit under Noise Control Ordinance for Chi Ma Wan Road | GW-RS0834-25              | 13 Aug 2025 | 15 Aug 2025 to 12 Feb 2026 | Expired on 13 Feb 2026 |
|   | GW-RS0088-26              | 30 Jan 2026 | 13 Feb 2026 to 12 Aug 2026 | Valid                  |

Note: Only valid permits or permits under applications within the reporting month are included.

### 3.4 Site Inspection and Audit Reports

- 3.4.1 Within this reporting month, weekly environmental site inspections were conducted on 2, 9, 16 and 23 February 2026. IEC attended the SSEMC meeting held on 16 February 2026. The ET and contractor participated in the holding nursery visit for transplanted trees on 23 February 2026.
- 3.4.2 No non-compliance was found during the site inspections while reminders on environmental measures were recommended. Reminders and/or Observations recorded during site inspections in this reporting month are listed in **Table 3.3**.

**Table 3.3: Summary of Environmental Inspections**

| Inspection Date  | Reminder and Recommendations  | Close-out Date / Status                                    |
|------------------|---|--|
| 26 January 2026  | <p><b><u>Pui O Sewage Pumping Station</u></b></p> <p>Reminder 1:<br/>The contractor should ensure EP and CNPs are displayed at all entrances of all work sites.</p> <p>Reminder 2:<br/>The contractor is reminded not to leave oily equipment on exposed earth.</p> <p><b><u>San Shek Wan Sewage Treatment Works</u></b></p> <p>Reminder 1:<br/>The contractor is reminded to ensure chemicals are properly stored on site with drip tray or other containment.</p>                               | Contractor has rectified the reminders on 2 February 2026  |
| 2 February 2026  | <p><b><u>Pui O Sewage Pumping Station</u></b></p> <p>No Reminder and/or Observation</p> <p><b><u>San Shek Wan Sewage Treatment Works</u></b></p> <p>No Reminder and/or Observation</p>  | N/A  |
| 9 February 2026  | <p><b><u>Pui O Sewage Pumping Station</u></b></p> <p>Reminder 1:<br/>The contractor is reminded to regular water spraying on exposed area.</p> <p><b><u>San Shek Wan Sewage Treatment Works</u></b></p> <p>Reminder 1:<br/>The contractor is reminded to regular water spraying on exposed area.</p>  | Contractor has rectified the reminders on 16 February 2026 |
| 16 February 2026 | <p><b><u>Pui O Sewage Pumping Station</u></b></p> <p>Reminder 1:<br/>The contractor is reminded to cover the sand piles or spray water for dust control.</p> <p><b><u>San Shek Wan Sewage Treatment Works</u></b></p> <p>Reminder 1:<br/>The contractor is reminded to maintain the housekeeping.</p> <p>Reminder 2:<br/>The contractor is reminded to cover the sand piles or spray water for dust control.</p> <p>Reminder 3:<br/>The contractor is reminded to carry out mosquito control.</p> | To be verified in next inspection.                         |

| Inspection Date  | Reminder and Recommendations  | Close-out Date / Status            |
|------------------|---|------------------------------------|
| 23 February 2026 | <p><b><u>Pui O Sewage Pumping Station</u></b><br/>           No Reminder and/or Observation</p> <p><b><u>San Shek Wan Sewage Treatment Works</u></b><br/>           Reminder 1:<br/>           The contractor is reminded to cover the sand piles or spray water for dust control.</p> <p><b><u>Kam Tin Nursery</u></b><br/>           Reminder 1:<br/>           The contractor is reminded to remove weeds.</p> | To be verified in next inspection. |

## 4. Noise Monitoring

### 4.1 Monitoring Methodology

#### Monitoring Procedure

- 4.1.1 The impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.
- 4.1.2 The monitoring station shall normally be at a point 1m from the exterior of the sensitive receiver's building façade and be at a position 1.2m above the ground.
- 4.1.3 Façade measurements were made at the monitoring locations. For free-field measurement, a correction factor of +3dB(A) will be applied.
- 4.1.4 The battery condition was checked to ensure the correct functioning of the meter.
- 4.1.5 Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
- a) Frequency weighting: A,
  - b) Time weighting: Fast,
  - c) Measurement time set: continuous 5 mins
- 4.1.6 Prior and after to the noise measurement, the meter was checked using the acoustic calibrator for 94dB (A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than  $\pm 1.0$  dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- 4.1.7 Noise measurements will be made in accordance with standard acoustical principles and shall not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

#### Equipment Used for Noise Monitoring

- 4.1.8 Noise monitoring was performed using sound level meter at the designated monitoring locations. The sound level meters shall comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator shall be deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in **Table 4.1**.

**Table 4.1: Noise Monitoring Equipment**

| Equipment                    | Brand and Model | Serial Number | Valid Until |
|------------------------------|-----------------|---------------|-------------|
| Integrated Sound Level Meter | Rion – NL-52    | 1198668       | 18 Jan 2027 |
|                              | Rion – NL-53    | 452008        | 23 Apr 2026 |
| Acoustic Calibrator          | Rion – NC-75    | 34202223      | 18 Jan 2027 |
|                              | Rion – NC-75    | 34256525      | 14 Feb 2026 |

- 4.1.9 The calibration certificates of the noise monitoring equipment are attached in **Appendix 4.1**.

### Calibration Details

- 4.1.10 The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- 4.1.11 The sound level meter and calibrator were calibrated at yearly intervals.

### Parameters Monitored

- 4.1.12 The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (“Leq”). Leq(30min) should be used as the monitoring parameter. Supplementary information for data auditing, statistical results such as L<sub>10</sub> and L<sub>90</sub> shall also be obtained for reference.
- 4.1.13 For impact monitoring for construction of village sewers / rising main, noise monitoring should be undertaken on weekly basis. 1 set of Leq(30min) noise level as 6 consecutive Leq(5min) between 07:00-19:00 hours on normal weekdays has been taken.

## **4.2 Monitoring Stations**

- 4.2.1 The noise monitoring stations for the Project are listed and shown in **Table 4.2**. Impact noise monitoring was conducted once per week at the noise monitoring stations with construction works being conducted nearby. Noise monitoring has been conducted at 8 noise monitoring stations N12a, N12b, N13, N14, N15b, N16a, N16b and N17 in the reporting month.
- 4.2.2 During the report period, Bui O Public School was on holiday from 16 to 25 February 2026. As a result, the noise monitoring for N17 was not conducted on 20 February 2026. The noise monitoring at N17 has resumed on 26 February 2026.
- 4.2.3 Monitoring station N17 Bui O Public School is an institutional sensitive receiver. During the reporting month, no examination was conducted, as such the construction noise criteria is 70dB(A).

**Table 4.2: Noise Monitoring Station**

| Monitoring Station ID * | Monitoring Location            | Measurement Type | Level (in terms of no. of floor) |
|-------------------------|--------------------------------|------------------|----------------------------------|
| N01a                    | Shui Hau Village               | Free-Field       | G/F                              |
| N01c                    | Shui Hau Village               | Free-Field       | G/F                              |
| N03a                    | Tong Fuk Village               | Free-Field       | G/F                              |
| N05a                    | Residences at Cheung Fu Street | Free-Field       | G/F                              |
| N07                     | Government Holiday Bungalows   | Free-Field       | G/F                              |
| N08                     | Cheung Sha Ha Tsuen            | Free-Field       | G/F                              |
| N10                     | Cheung Sha Sheung Tsuen        | Façade           | G/F                              |
| N11b                    | San Shek Wan – Ming Garden     | Free-Field       | G/F                              |
| N12a *                  | Lo Uk Tsuen                    | Free-Field       | G/F                              |
| N12b *                  | Lo Uk Tsuen                    | Free-Field       | G/F                              |
| N13 *                   | Pui O San Wai Tsuen            | Free-Field       | G/F                              |
| N14 *                   | South Lantau Community Centre  | Free-Field       | G/F                              |
| N15b *                  | Pui O Lo Wai Tsuen             | Façade           | G/F                              |

| Monitoring Station ID * | Monitoring Location   | Measurement Type | Level (in terms of no. of floor) |
|-------------------------|-----------------------|------------------|----------------------------------|
| N16a *                  | Residences at Ham Tin | Façade           | G/F                              |
| N16b *                  | Residences at Ham Tin | Free-Field       | G/F                              |
| N17 *                   | Bui O Public School   | Façade           | R/F                              |

NOTE:

\* Fine adjustment of noise monitoring stations at all locations was proposed as per EP Condition 3.1.

\* Measurement was conducted at the station in the reporting month.

### 4.3 Monitoring Date, Time, Frequency and Duration

4.3.1 For daytime construction work on normal weekdays, monitoring of  $L_{eq(30min)}$  should be carried out at each station at 0700-1900 hours on normal weekdays at a frequency of once a week. Impact monitoring schedule can be referred to **Appendix 4.2**.

### 4.4 Noise Monitoring Results

4.4.1 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 4.3**.

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

## 5. Water Quality Monitoring

### 5.1 Completion of Water Quality Monitoring

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

## 6. Ecology

### 6.1 Monitoring Methodology

- 6.1.1 The weekly site audit to be carried out by the ET should include checking whether good site practices are being properly implemented by the Contractor
- 6.1.2 Impact monitoring of the transplanted *Aquilaris sinensis* at holding nursery and 1 retain tree of *Aquilaris sinensis* in SSWSTW Project Site, establishment and after-establishment caring measures of the compensatory mixed woodland to ensure the affected tree would not be affected by any unacceptable construction works. The trees would be treated with establishment works immediately after transplanting.
- 6.1.3 Site inspection at the nursery was conducted on 23 February 2026. One reminder was recorded.

### 6.2 Parameters Monitored

- 6.2.1 The extent of the work site boundaries should be checked by the ET during the weekly site audit. Any disturbance by the Contractor outside the works area especially any damage to the vegetation and surrounding habitats outside the Project area shall be reported to ER and IEC.
- 6.2.2 To identify any unacceptable construction works for the trees of *Aquilaris sinensis* during transplanting, establishment and after-establishment caring measures of the compensatory mixed woodland.

### 6.3 Monitoring Location

- 6.3.1 As per latest version of PTP, 4 trees found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW (**Figure 6.1**) which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery (**Figure 6.2**) at Kam Tin and eventually be transplanted to Pui O Pumping Station.

### 6.4 Monitoring Date, Time, Frequency and Duration

- 6.4.1 The recommended good site practices to be audited once every week as part of the site audit programme. The weekly site audit to be carried out by the ET includes checking whether good site practices are being properly implemented by the Contractor. Results are recorded in Weekly Environmental Site Audit Checklist.
- 6.4.2 Monitoring programme for post-transplantation was conducted on 23 February 2026.

### 6.5 Monitoring Results

- 6.5.1 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 6.5.2 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 6.5.3 Results and findings of site audit in this reporting month are listed in **Table 3.3**.

## 7. Waste Management

7.1.1 The quantities of waste for disposal in the Reporting Period are summarized in **Table 7.1**. The Monthly Summary Waste Flow Table is shown in **Appendix 7.1**.

**Table 7.1: Summary of Quantities of Waste Material**

| Waste Type   | Quantity this month | Quantity (the end of last month) | Cumulative Quantity-to-Date |
|--|---------------------|----------------------------------|-----------------------------|
| Hard Rock and Large Broken Concrete (Inert), in '000m <sup>3</sup> | 0                   | 0                                | 0                           |
| Reused in this Contract (Inert), in '000m <sup>3</sup>             | 0                   | 0                                | 0                           |
| Reused in other Projects (Inert), in '000m <sup>3</sup>            | 0                   | 0                                | 0                           |
| Disposal as Public Fill (Inert), in '000m <sup>3</sup>             | 0.06                | 0.57                             | 31.458                      |
| Metals, in '000kg  | 0                   | 9.383                            | 133.954                     |
| Paper / Cardboard Packing, in '000kg                               | 0                   | 0.060                            | 1.519                       |
| Plastics, in '000kg  | 0                   | 0.003                            | 0.122                       |
| Chemical Wastes, in '000kg   | 0                   | 0                                | 0                           |
| General Refuses, in '000kg   | 51.56               | 114.33                           | 1405.55                     |
| Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>       | 0                   | 0                                | 1360.2                      |

## 8. Complaints, Notification of Summons and Prosecution

- 8.1.1 No environmental complaint was recorded in the reporting month.
- 8.1.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.
- 8.1.3 Cumulative statistic on complaints, summary of complaints and successful prosecutions are summarized in **Table 8.1**, **Table 8.2** and **Table 8.3** respectively.

**Table 8.1: Cumulative Statistics on Complaints**

| Reporting Period  | No. of Complaints |
|---|-------------------|
| Project commencement to the end of last reporting month | 4                 |
| This Reporting Month (February 2026)                    | 0                 |
| Total:  | 4                 |

**Table 8.2: Summary of Complaints**

| Date of Notification from EPD | Date of Complaint | Description of Complaint  | Validity of Complaint   | Close-Out Date / Status  |
|-------------------------------|-------------------|---|---|--|
| 26 May 2022                   | 22 May 2022       | A complaint is regarding to noise nuisance from marine site of San Shek Wan, Lantau Island. | Based on the investigation, the works activities of marine works did not result in any noise nuisance to Noise Sensitive Receivers (NSRs), noise nuisance from the Project is unlikely to be valid. | The interim report was submitted to EPD in June 2022. EPD replied no further comments on the final investigation report on 13 July 2022. |
| 23 Dec 2022                   | 21 Dec 2022       | A complaint is regarding to the water quality for Pui O Beach, Lantau Island.               | Based on the investigation, the works activities at POPS did not result in any water quality impacts to the Pui O Beach.  | The interim report was submitted to EPD on 4 Jan 2023.   |
| 16 Aug 2024                   | 15 Aug 2024       | A complaint is regarding to the damaged silt curtain and potential water quality impact.    | Based on the investigation, no marine works since Dec 2023 till present, the land based works activities at POPS did not result in any water quality impacts to the Pui O Wan                       | The interim report was submitted to EPD on 31 Aug 2024.  |

| Date of Notification from EPD | Date of Complaint | Description of Complaint  | Validity of Complaint   | Close-Out Date / Status   |
|-------------------------------|-------------------|---|---|---|
| 16 Sep 2025                   | 16 Sep 2025       | A complaint is regarding to oil sheen observed at Pui O Wetland, Lantau Island. | Based on the investigation, no evidence of oil leakage within our project site, it is considered that the oil pollution would not due to our site operation. As such the case is considered closed. | The Final Investigation Report was submitted to EPD by 17 Oct 2025. |

**Table 8.3: Cumulative Statistics on Successful Prosecutions**

| Environmental Parameters | Cumulative No. Brought Forward | No. of Successful Prosecutions this month (Offence Date) | Cumulative No. Project-to-Date |
|--------------------------|--------------------------------|--|--------------------------------|
| Air                      | -                              | 0  | 0                              |
| Noise                    | -                              | 0  | 0                              |
| Water                    | -                              | 0  | 0                              |
| Waste                    | -                              | 0  | 0                              |
| Other                    | -                              | 0  | 0                              |
| <b>Total</b>             | -                              | <b>0</b>   | <b>0</b>                       |

## 9. Future Key Issues

9.1.1 In coming reporting 3 months, the scheduled construction activities are listed as follows:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
- Excavation and site formation at SSWSTW
- Trenchless drilling works (Chi Ma Wan Road)
- Excavation and ELS work at POSPS
- Superstructure RC works at SSWSTW
- Waterproofing Work at SSWSTW
- Retaining wall construction at SSWSTW
- E&M Installation at POSPS
- E&M Installation at SSWSTW
- ABWF work at POSPS
- ABWF work at SSWSTW

9.1.2 The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in **Table 9.1**. The major construction activities for the next 3 months are summarized in 3 Months Rolling Programme – March 2026 to May 2026 in **Appendix 9.1**

**Table 9.1: Construction Activities and Recommended Mitigation Measures in Coming Reporting 3 Months**

| Key Construction Works   | Recommended Mitigation Measures   |
|--|---|
| <ul style="list-style-type: none"> <li>• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road</li> <li>• Excavation and site formation at SSWSTW</li> <li>• Trenchless drilling works (Chi Ma Wan Road)</li> <li>• Excavation and ELS work at POSPS</li> <li>• Superstructure RC works at SSWSTW</li> <li>• Waterproofing Work at SSWSTW</li> <li>• Retaining wall construction at SSWSTW</li> <li>• E&amp;M Installation at POSPS</li> <li>• E&amp;M Installation at SSWSTW</li> <li>• ABWF work at POSPS</li> <li>• ABWF work at SSWSTW</li> </ul> | <ul style="list-style-type: none"> <li>• Prevention of site runoff during heavy rainstorms.</li> <li>• Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan;</li> <li>• Dust control during dust generating works;</li> <li>• Adopt surface drainage and sediment control facilities for sewage installation in village and public roads;</li> <li>• Adopt temporary drainage and sediment control facilities on Site;</li> <li>• Vehicle wheel-washing and body washing facilities should be provided at the site entrance;</li> <li>• Regular water spraying on excavation works for dust control; and</li> <li>• Proper waste handling, recycling and storage.</li> </ul> |

## 10. Conclusion

### 10.1 Noise Monitoring

- 10.1.1 Noise Monitoring has been conducted at 8 of the designated monitoring locations where construction works has been conducted nearby during the reporting month.
- 10.1.2 During the report period, Bui O Public School was on holiday from 16 to 25 February 2026. As a result, the noise monitoring for N17 was not conducted on 20 February 2026. The noise monitoring at N17 has resumed on 26 February 2026.
- 10.1.3 No action or limit level exceedance was recorded in construction noise level in this reporting period.

### 10.2 Water Quality Monitoring

- 10.2.1 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 month.

### 10.3 Ecological Impact Monitoring

- 10.3.1 Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- 10.3.2 As per latest version of PTP, 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 Pui O Pumping Station.
- 10.3.3 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 10.3.4 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 10.3.5 Within this reporting period, holding nursery visit for transplanted trees on 23 February 2026.
- 10.3.6 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 period are listed below in **Table 10.1**

**Table 10.1: Summary of Ecological Impact Monitoring**

| Inspection Date  | Reminder and Recommendations                | Close-out Date / Status           |
|------------------|---|-----------------------------------|
| 23 February 2026 | The contractor is reminded to remove weeds. | To be verified in next inspection |

### 10.4 Review of the Reasons for and the Implications of Non-compliance

- 10.4.1 No environmental non-compliance was recorded in the reporting month.

### 10.5 Summary of Action Taken in the Event of and Follow-Up on Non-Compliance

- 10.5.1 There was no particular action taken since no non-compliance was recorded in the reporting month.

10.5.2 The performance of the environmental management system of the reporting period was generally satisfied. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

## **10.6 Complaints, Notification of Summons and Prosecution**

10.6.1 No complaints were recorded in the reporting month.

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

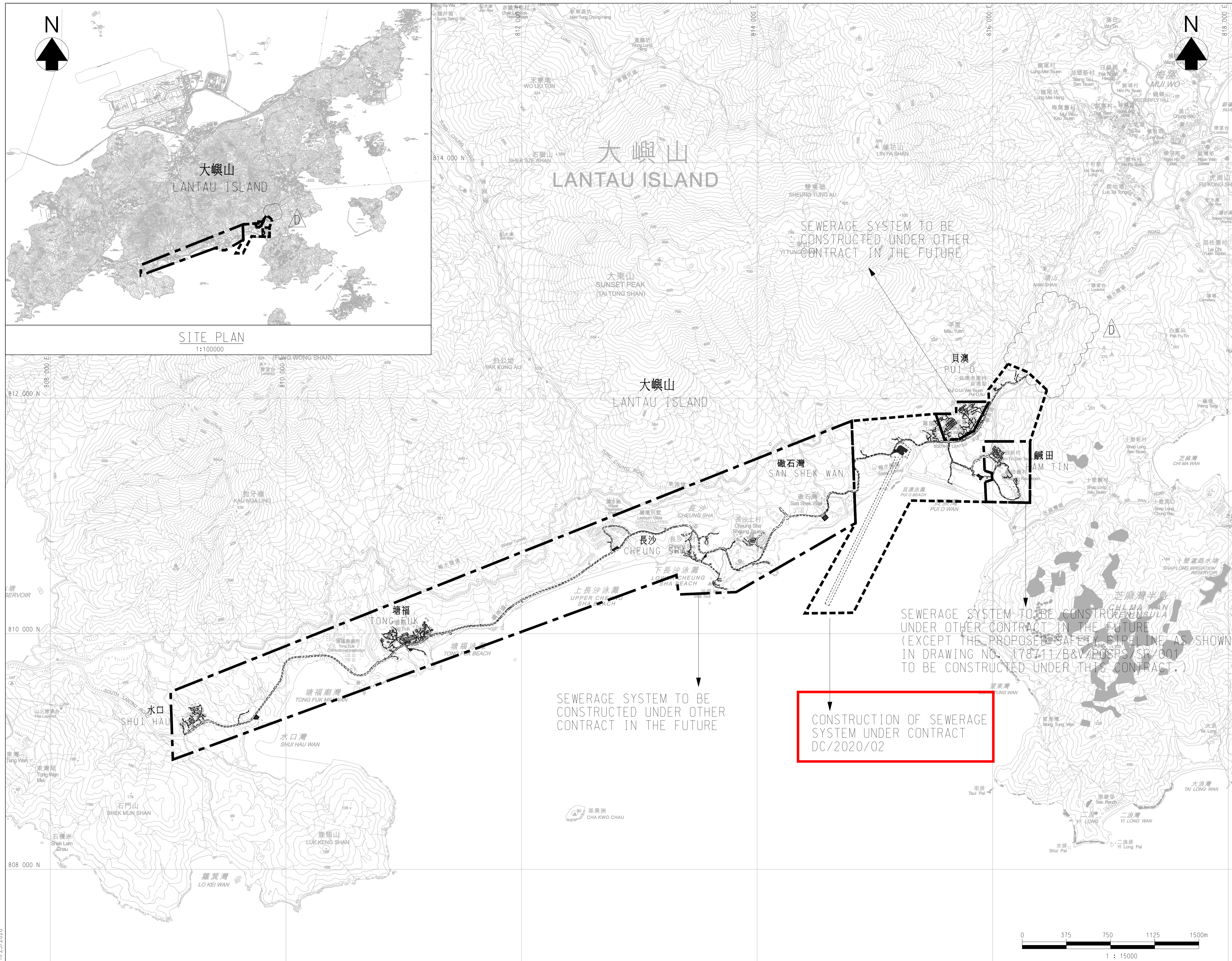


**Contract No. CM 04/2024 - Outlying Islands Sewerage  
Stage 2 – South Lantau Sewerage Works –  
Environmental Team Services (2025 - 2027)**

**UMWELT CONSULTING LIMITED**

23/F, On Hong Commercial Building, 145  
Hennessy Road, Wan Chai, Hong Kong

## Figures



**SITE PLAN**  
1:100000

|          |                  |                      |         |
|----------|------------------|----------------------|---------|
| 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     |
| Initial  | Designed         | Checked              | Drawn   |
|          | TFL              | BL                   | SZ      |
| Date     | 04/20            | 04/20                | 04/20   |
| Approved | <i>Christina</i> |                      |         |

Contract no. **DC/2020/02**

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

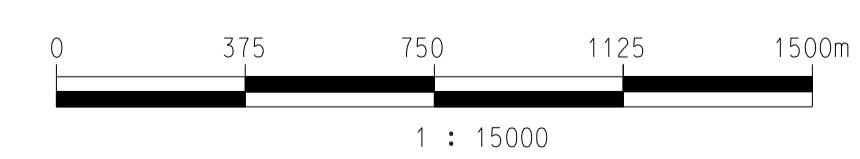
Drawing title  
**SOUTH LANTAU SEWERAGE WORKS - MASTER LAYOUT PLAN**

Drawing no. **178711/B&V/GN/001**      Revision **D**

Scale **1 : 15000**

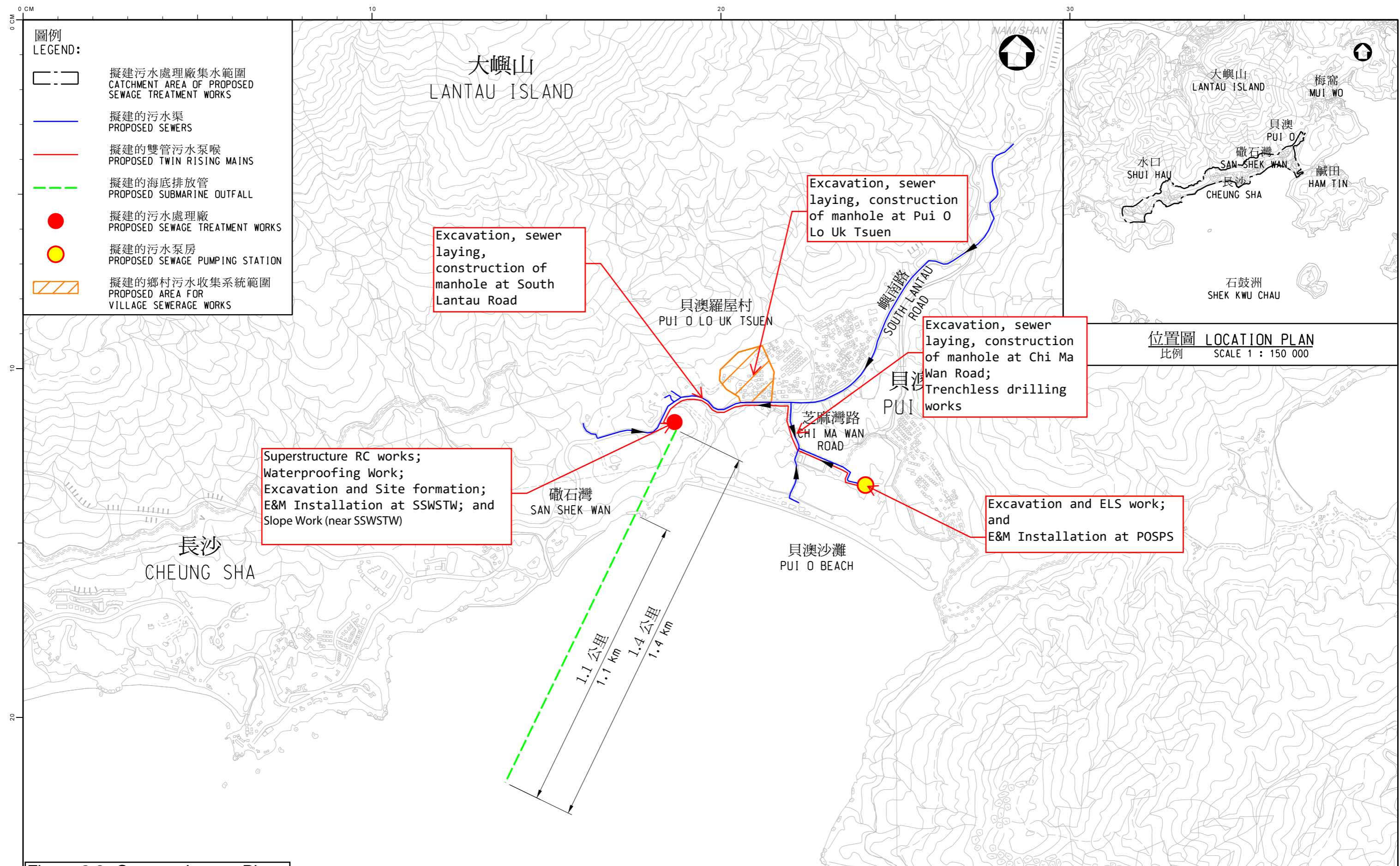
**香港特別行政區政府渠務署**  
THE GOVERNMENT OF THE HONG KONG  
SPECIAL ADMINISTRATIVE REGION  
DRAINAGE SERVICES DEPARTMENT

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




Plot Date - 11/25/2020

**Figure 2.1 - Master Layout Plan**



**Figure 2.2 Contract Layout Plan**

圖則名稱 drawing title  
 工務工程計劃編號331DS - 離島污水收集系統第2階段  
 - 南大嶼山污水收集系統工程  
 PWP ITEM NO.331DS - OUTLYING ISLANDS SEWERAGE, STAGE 2  
 - SOUTH LANTAU SEWERAGE WORKS

|   |  |                                  |                      |
|---|--|----------------------------------|----------------------|
| 繪畫 drawn<br><i>SIGNED</i> W. H. CHAN        | 日期 date<br>27 APR 2020   | 修改項目 description                 | 簡簽 initial           |
| 核對 checked<br><i>SIGNED</i> Ir K. S. CHAN   | 日期 date<br>27 APR 2020   | 圖則編號 drawing no.<br>DVD/2020/001 | 比例 scale<br>1:12 500 |
| 批核 approved<br><i>SIGNED</i> Ir L. CHEN     | 日期 date<br>27 APR 2020   | 保留版權 COPYRIGHT RESERVED          |                      |
| 部門 office<br>特別職務部<br>SPECIAL DUTY DIVISION |  香港特別行政區政府渠務署<br>DRAINAGE SERVICES DEPARTMENT<br>GOVERNMENT OF THE HONG KONG<br>SPECIAL ADMINISTRATIVE REGION |                                  |                      |

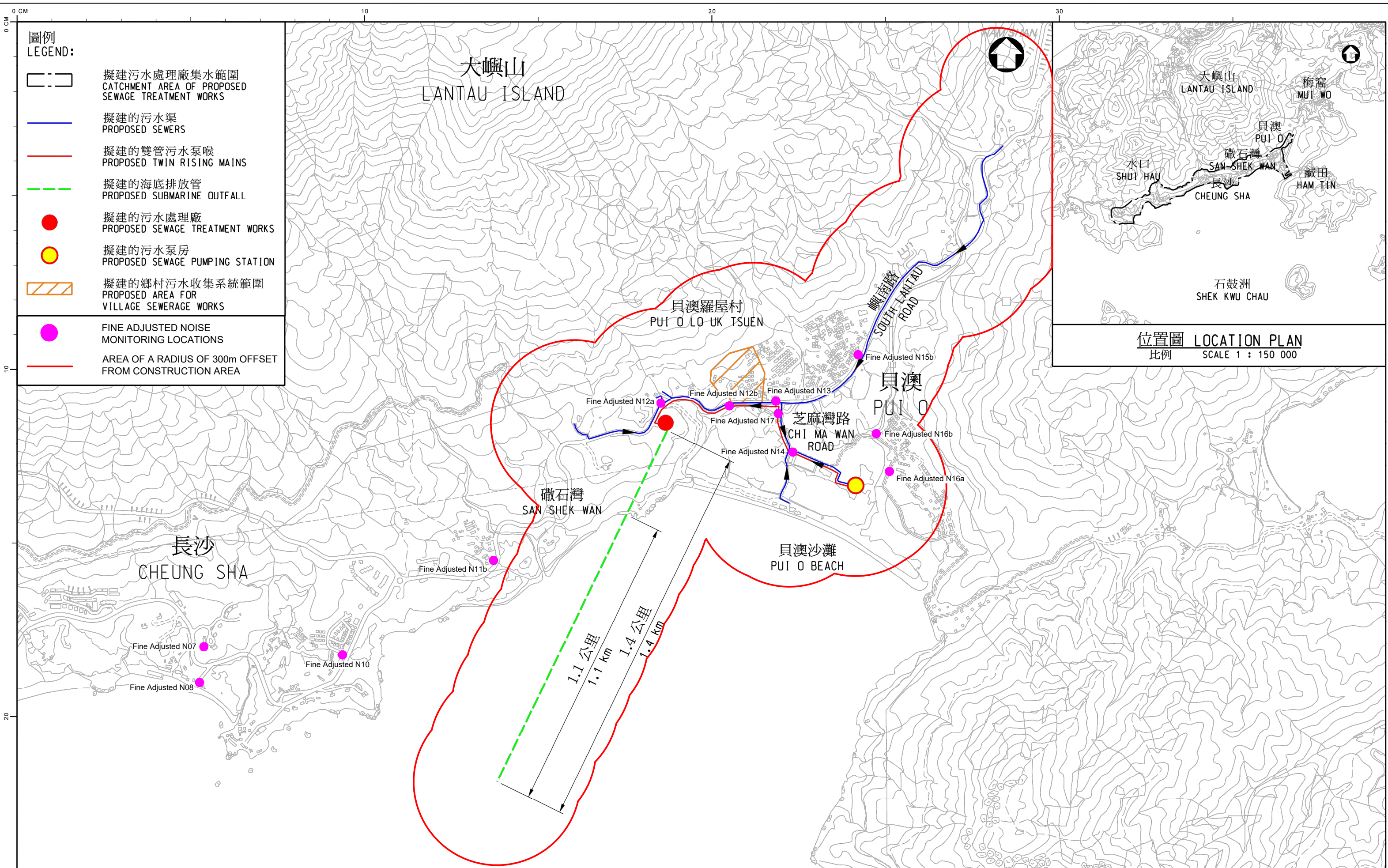
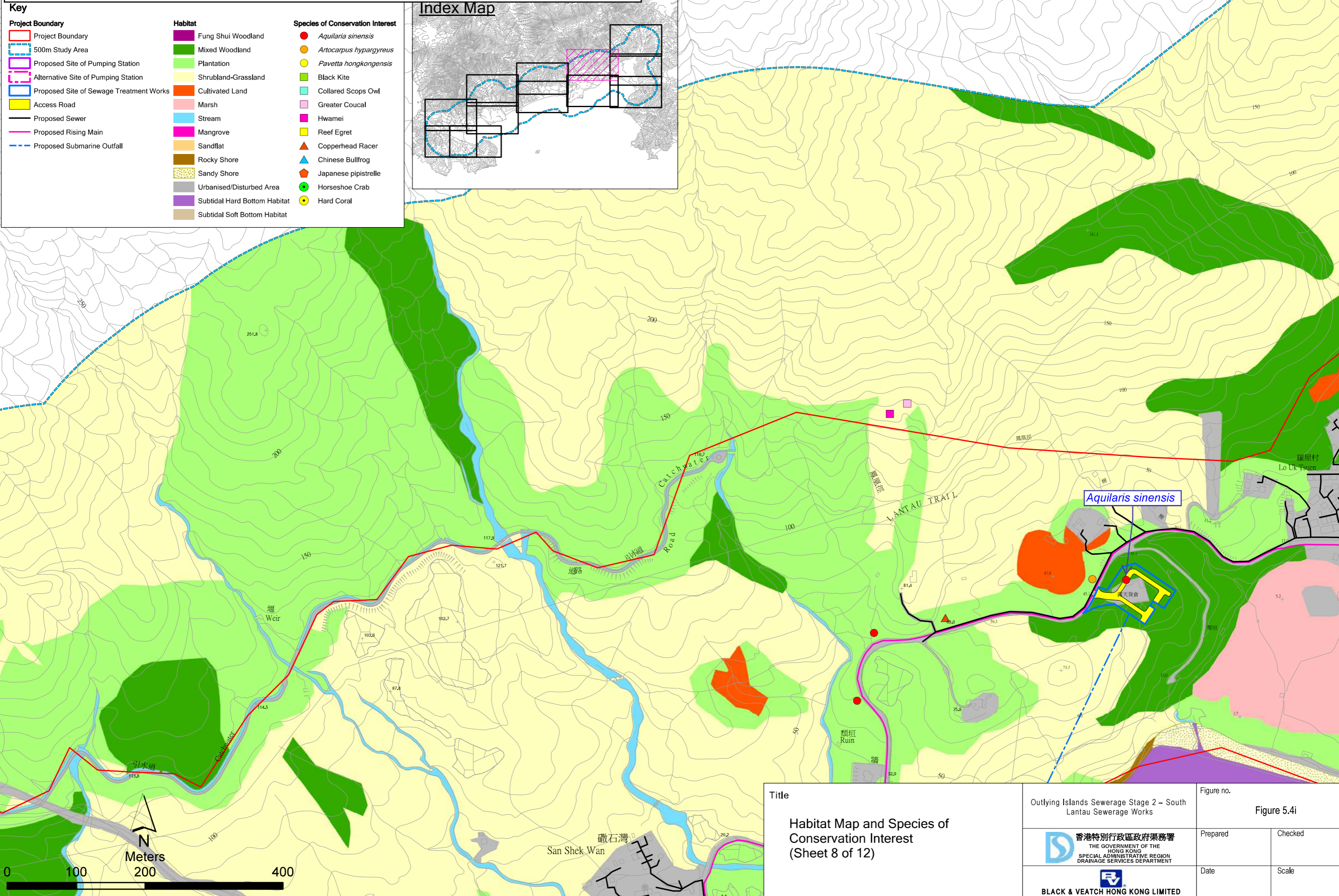


Figure 2.3 - Locations of Noise Monitoring Station

Figure 6.1 Mark up Figure 5.4i extracted from approved EIA Report (AEIAR-210/2017)



|   |   |  |   |                |
|---|---|--|---|----------------|
| <p>Title</p> <p><b>Habitat Map and Species of Conservation Interest (Sheet 8 of 12)</b></p> | <p>Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works</p>  |  | <p>Figure no.</p> <p><b>Figure 5.4i</b></p> |                |
|   | <p> 香港特別行政區政府渠務署<br/>THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION<br/>DRAINAGE SERVICES DEPARTMENT</p> |  | <p>Prepared</p>                             | <p>Checked</p> |
|   | <p> BLACK &amp; VEATCH HONG KONG LIMITED</p>  |  | <p>Date</p>                                 | <p>Scale</p>   |

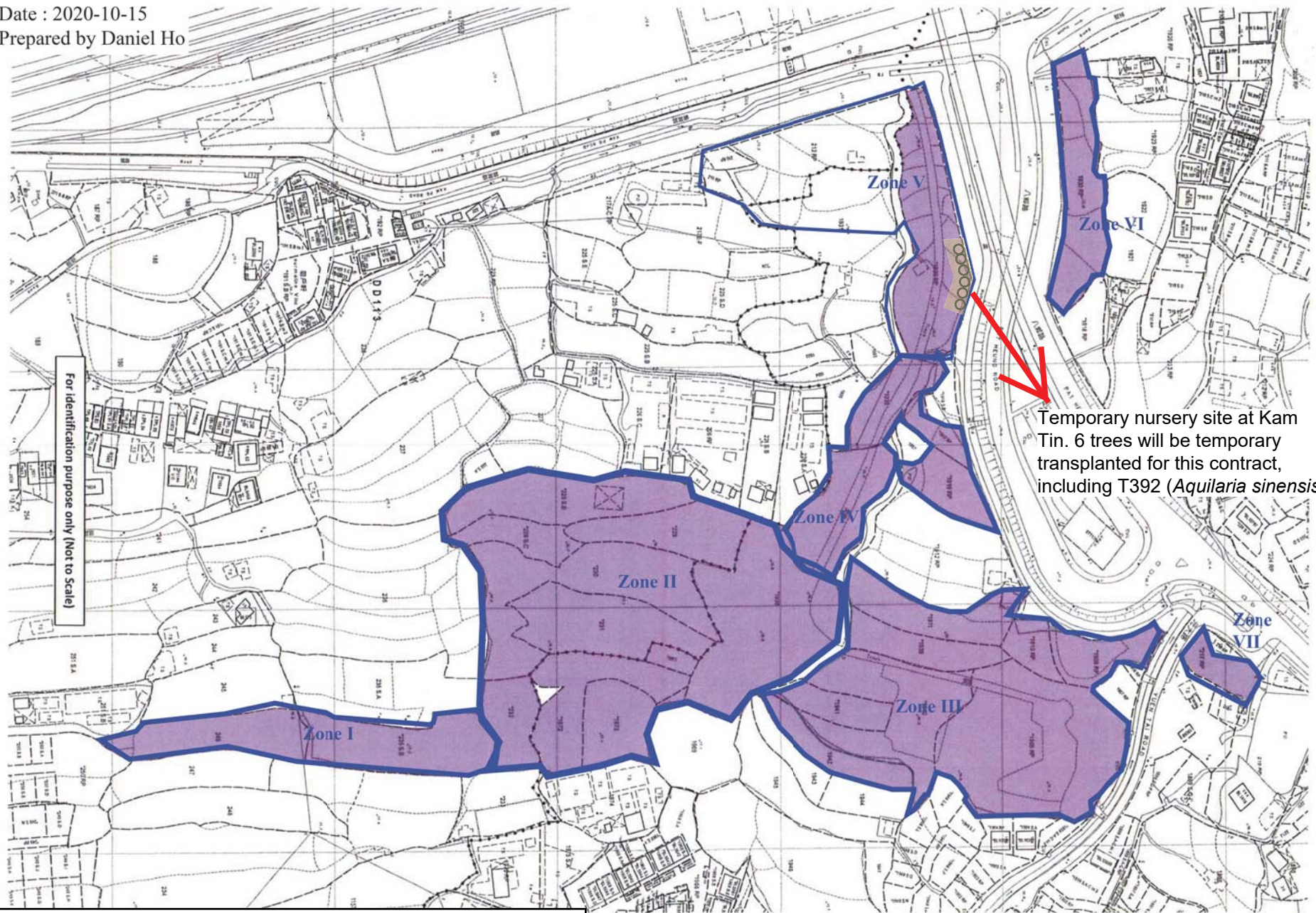


Figure 6.2 - Location Plan for Temporary Holding Nursery

COPY RIGHT®

Project : Contract No.: DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



Toyo Greenland Co., Ltd.

Drawing Title : Location Plan for 6 nos. Trees on Kam Tin Nursery

Check : Ho Tat Pui, Daniel

Scale : N.T.S.

Rev.

Ref: C3109/22/TGD0164

Date : 10 January 2022

00



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

UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145  
Hennessy Road, Wan Chai, Hong Kong

## Appendix 4.1

# Calibration Certificates for Noise Meter and Acoustic Calibrator



## CERTIFICATE OF CALIBRATION

Certificate No.: 26CA0115 01-01 Page 1 of 2

### Item tested

|                       |                             |                  |                |
|-----------------------|-----------------------------|------------------|----------------|
| Description:          | Sound Level Meter (Class 1) | , Microphone     | Preamp         |
| Manufacturer:         | Rion Co., Ltd.              | , Rion Co., Ltd. | Rion Co., Ltd. |
| Type/Model No.:       | NL-52                       | , UC-59          | NH-25          |
| Serial/Equipment No.: | 01198668                    | , 16390          | 98882          |
| Adaptors used:        | -                           | , -              | -              |

### Item submitted by

Customer Name: Umwelt Consulting Limited.  
Address of Customer: -  
Request No.: -  
Date of receipt: 15-Jan-2026

Date of test: 19-Jan-2026

### Reference equipment used in the calibration

| Description:                    | Model:   | Serial No. | Expiry Date: | Traceable to: |
|---------------------------------|----------|------------|--------------|---------------|
| Multi function sound calibrator | B&K 4226 | 2288444    | 28-Aug-2026  | CIGISMEC      |
| Signal generator                | DS 360   | 61227      | 24-Feb-2026  | CEPREI        |

### Ambient conditions

Temperature: 20.0~20.4 °C  
Relative humidity: 62.2~62.7 %  
Air pressure: 1005 ± 5 hPa

### Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure response of the Sound Level Meter.

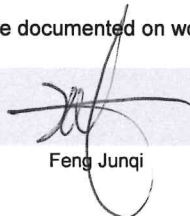
### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:



Feng Junqi

Date: 20-Jan-2026

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 26CA0115 01-01

Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

| Test:                   | Subtest:   | Status: | Expanded Uncertainty (dB) | Coverage Factor |
|-------------------------|--|---------|---------------------------|-----------------|
| Self-generated noise    | A  | Pass    | 0.3                       |                 |
|                         | C  | Pass    | 0.8                       |                 |
|                         | Lin (Z)  | Pass    | 1.6                       |                 |
| Linearity range for Leq | At reference range , Step 5 dB at 4 kHz          | Pass    | 0.3                       |                 |
|                         | Reference SPL on all other ranges                | Pass    | 0.3                       |                 |
|                         | 2 dB below upper limit of each range             | Pass    | 0.3                       |                 |
|                         | 2 dB above lower limit of each range             | Pass    | 0.3                       |                 |
|                         | At reference range , Step 5 dB at 4 kHz          | Pass    | 0.3                       |                 |
| Linearity range for SPL | A  | Pass    | 0.3                       |                 |
|                         | C  | Pass    | 0.3                       |                 |
|                         | Lin (Z)  | Pass    | 0.3                       |                 |
| Time weightings         | Single Burst Fast                                | Pass    | 0.3                       |                 |
|                         | Single Burst Slow                                | Pass    | 0.3                       |                 |
| Peak response           | Single 100µs rectangular pulse                   | Pass    | 0.3                       |                 |
|                         | Crest factor of 3                                | Pass    | 0.3                       |                 |
| R.M.S. accuracy         | Single burst 5 ms at 2000 Hz                     | N/A     | N/A                       |                 |
|                         | Repeated at frequency of 100 Hz                  | N/A     | N/A                       |                 |
| Time weighting I        | 1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz | Pass    | 0.3                       |                 |
|                         | 1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz | Pass    | 0.3                       |                 |
| Pulse range             | Single burst 10 ms at 4 kHz                      | Pass    | 0.4                       |                 |
|                         | Single burst 10 ms at 4 kHz                      | Pass    | 0.4                       |                 |
| Sound exposure level    | SPL  | Pass    | 0.3                       |                 |
|                         | Leq  | Pass    | 0.4                       |                 |

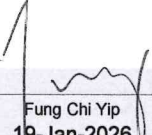
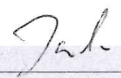
### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test results at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

| Test:             | Subtest                | Status | Expanded Uncertainty (dB) | Coverage Factor |
|-------------------|------------------------|--------|---------------------------|-----------------|
| Acoustic response | Weighting A at 125 Hz  | Pass   | 0.3                       |                 |
|                   | Weighting A at 8000 Hz | Pass   | 0.5                       |                 |

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

|  |  |
|--|--|
| <p>Calibrated by: </p> <p>Date: 19-Jan-2026</p> | <p>Checked by: </p> <p>Date: 20-Jan-2026</p> |
|--|--|

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



Test Data for Sound Level Meter

Page 1 of 5

|                         |       |            |          |         |                |
|-------------------------|-------|------------|----------|---------|----------------|
| Sound level meter type: | NL-52 | Serial No. | 01198668 | Date    | 19-Jan-2026    |
| Microphone type:        | UC-59 | Serial No. | 16390    |         |                |
| Preamp type:            | NH-25 | Serial No. | 98882    | Report: | 26CA0115 01-01 |

**SELF GENERATED NOISE TEST**

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

|                            |      |    |
|----------------------------|------|----|
| Noise level in A weighting | 10.4 | dB |
| Noise level in C weighting | 14.2 | dB |
| Noise level in Lin (Z)     | 19.6 | dB |

**LINEARITY TEST**

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals. (SLM set to LEQ/SPL)

| Reference/Expected level | Actual level   |            | Tolerance | Deviation      |            |
|--------------------------|----------------|------------|-----------|----------------|------------|
|                          | non-integrated | integrated |           | non-integrated | integrated |
| dB                       | dB             | dB         | +/- dB    | dB             | dB         |
| 94.0                     | 94.0           | 94.0       | 0.7       | 0.0            | 0.0        |
| 99.0                     | 99.0           | 99.0       | 0.7       | 0.0            | 0.0        |
| 104.0                    | 104.0          | 104.0      | 0.7       | 0.0            | 0.0        |
| 109.0                    | 109.0          | 109.0      | 0.7       | 0.0            | 0.0        |
| 114.0                    | 114.0          | 114.0      | 0.7       | 0.0            | 0.0        |
| 119.0                    | 119.0          | 119.0      | 0.7       | 0.0            | 0.0        |
| 124.0                    | 124.0          | 124.0      | 0.7       | 0.0            | 0.0        |
| 125.0                    | 125.0          | 125.0      | 0.7       | 0.0            | 0.0        |
| 126.0                    | 126.0          | 126.0      | 0.7       | 0.0            | 0.0        |
| 127.0                    | 127.0          | 127.0      | 0.7       | 0.0            | 0.0        |
| 128.0                    | 128.0          | 128.0      | 0.7       | 0.0            | 0.0        |
| 129.0                    | 129.0          | 129.0      | 0.7       | 0.0            | 0.0        |
| 130.0                    | 130.0          | 130.0      | 0.7       | 0.0            | 0.0        |
| 89.0                     | 89.0           | 89.0       | 0.7       | 0.0            | 0.0        |
| 84.0                     | 84.0           | 84.0       | 0.7       | 0.0            | 0.0        |
| 79.0                     | 79.0           | 79.0       | 0.7       | 0.0            | 0.0        |
| 74.0                     | 74.0           | 74.0       | 0.7       | 0.0            | 0.0        |
| 69.0                     | 69.0           | 69.0       | 0.7       | 0.0            | 0.0        |
| 64.0                     | 64.0           | 64.0       | 0.7       | 0.0            | 0.0        |
| 59.0                     | 59.0           | 59.0       | 0.7       | 0.0            | 0.0        |
| 54.0                     | 54.0           | 54.0       | 0.7       | 0.0            | 0.0        |
| 49.0                     | 49.0           | 49.0       | 0.7       | 0.0            | 0.0        |
| 44.0                     | 44.0           | 44.0       | 0.7       | 0.0            | 0.0        |
| 39.0                     | 38.9           | 38.9       | 0.7       | -0.1           | -0.1       |



Test Data for Sound Level Meter

Page 2 of 5

|                         |       |            |          |         |                |
|-------------------------|-------|------------|----------|---------|----------------|
| Sound level meter type: | NL-52 | Serial No. | 01198668 | Date    | 19-Jan-2026    |
| Microphone type:        | UC-59 | Serial No. | 16390    |         |                |
| Preamp type:            | NH-25 | Serial No. | 98882    | Report: | 26CA0115 01-01 |

|      |      |      |     |      |      |
|------|------|------|-----|------|------|
| 34.0 | 33.9 | 33.9 | 0.7 | -0.1 | -0.1 |
| 33.0 | 32.9 | 32.9 | 0.7 | -0.1 | -0.1 |
| 32.0 | 31.9 | 31.9 | 0.7 | -0.1 | -0.1 |
| 31.0 | 30.9 | 30.9 | 0.7 | -0.1 | -0.1 |
| 30.0 | 29.8 | 29.8 | 0.7 | -0.2 | -0.2 |

Measurements for an indication of the reference SPL on all other ranges which include it

| Other ranges | Expected level | Actual level | Tolerance | Deviation |
|--------------|----------------|--------------|-----------|-----------|
| dB           | dB             | dB           | +/- dB    | dB        |
| 30-130       | 94.0           | 94.0         | 0.7       | 0.0       |

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

| Ranges | Reference/Expected level | Actual level | Tolerance | Deviation |
|--------|--------------------------|--------------|-----------|-----------|
| dB     | dB                       | dB           | +/- dB    | dB        |
| 30-130 | 32.0                     | 31.9         | 0.7       | -0.1      |
|        | 128.0                    | 128.0        | 0.7       | 0.0       |

## FREQUENCY WEIGHTING TEST

The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

| Frequency<br>Hz | Ref. level<br>dB | Expected level<br>dB | Actual level<br>dB | Tolerance(dB) |     | Deviation<br>dB |
|-----------------|------------------|----------------------|--------------------|---------------|-----|-----------------|
|                 |                  |                      |                    | +             | -   |                 |
| 1000.0          | 94.0             | 94.0                 | 94.0               | 0.0           | 0.0 | 0.0             |
| 31.6            | 94.0             | 54.6                 | 54.5               | 1.5           | 1.5 | -0.1            |
| 63.1            | 94.0             | 67.8                 | 67.8               | 1.5           | 1.5 | 0.0             |
| 125.9           | 94.0             | 77.9                 | 78.0               | 1.0           | 1.0 | 0.1             |
| 251.2           | 94.0             | 85.4                 | 85.4               | 1.0           | 1.0 | 0.0             |
| 501.2           | 94.0             | 90.8                 | 90.8               | 1.0           | 1.0 | 0.0             |
| 1995.0          | 94.0             | 95.2                 | 95.1               | 1.0           | 1.0 | -0.1            |
| 3981.0          | 94.0             | 95.0                 | 94.7               | 1.0           | 1.0 | -0.3            |
| 7943.0          | 94.0             | 92.9                 | 92.8               | 1.5           | 3.0 | -0.1            |
| 12590.0         | 94.0             | 89.7                 | 89.6               | 3.0           | 6.0 | -0.1            |

Frequency weighting C:

| Frequency<br>Hz | Ref. level<br>dB | Expected level<br>dB | Actual level<br>dB | Tolerance(dB) |     | Deviation<br>dB |
|-----------------|------------------|----------------------|--------------------|---------------|-----|-----------------|
|                 |                  |                      |                    | +             | -   |                 |
| 1000.0          | 94.0             | 94.0                 | 94.0               | 0.0           | 0.0 | 0.0             |
| 31.6            | 94.0             | 91.0                 | 91.0               | 1.5           | 1.5 | 0.0             |
| 63.1            | 94.0             | 93.2                 | 93.2               | 1.5           | 1.5 | 0.0             |
| 125.9           | 94.0             | 93.8                 | 93.8               | 1.0           | 1.0 | 0.0             |



Test Data for Sound Level Meter

Page 3 of 5

|                         |       |            |          |         |                |
|-------------------------|-------|------------|----------|---------|----------------|
| Sound level meter type: | NL-52 | Serial No. | 01198668 | Date    | 19-Jan-2026    |
| Microphone type:        | UC-59 | Serial No. | 16390    |         |                |
| Preamp type:            | NH-25 | Serial No. | 98882    | Report: | 26CA0115 01-01 |

|         |      |      |      |     |     |      |
|---------|------|------|------|-----|-----|------|
| 251.2   | 94.0 | 94.0 | 94.1 | 1.0 | 1.0 | 0.1  |
| 501.2   | 94.0 | 94.0 | 94.1 | 1.0 | 1.0 | 0.1  |
| 1995.0  | 94.0 | 93.8 | 93.7 | 1.0 | 1.0 | -0.1 |
| 3981.0  | 94.0 | 93.2 | 92.9 | 1.0 | 1.0 | -0.3 |
| 7943.0  | 94.0 | 91.0 | 91.0 | 1.5 | 3.0 | 0.0  |
| 12590.0 | 94.0 | 87.8 | 87.7 | 3.0 | 6.0 | -0.1 |

Frequency weighting Lin:

| Frequency<br>Hz | Ref. level<br>dB | Expected level<br>dB | Actual level<br>dB | Tolerance(dB) |     | Deviation<br>dB |
|-----------------|------------------|----------------------|--------------------|---------------|-----|-----------------|
|                 |                  |                      |                    | +             | -   |                 |
| 1000.0          | 94.0             | 94.0                 | 94.0               | 0.0           | 0.0 | 0.0             |
| 31.6            | 94.0             | 94.0                 | 94.0               | 1.5           | 1.5 | 0.0             |
| 63.1            | 94.0             | 94.0                 | 94.0               | 1.5           | 1.5 | 0.0             |
| 125.9           | 94.0             | 94.0                 | 94.0               | 1.0           | 1.0 | 0.0             |
| 251.2           | 94.0             | 94.0                 | 94.0               | 1.0           | 1.0 | 0.0             |
| 501.2           | 94.0             | 94.0                 | 94.1               | 1.0           | 1.0 | 0.1             |
| 1995.0          | 94.0             | 94.0                 | 93.8               | 1.0           | 1.0 | -0.2            |
| 3981.0          | 94.0             | 94.0                 | 93.7               | 1.0           | 1.0 | -0.3            |
| 7943.0          | 94.0             | 94.0                 | 94.0               | 1.5           | 3.0 | 0.0             |
| 12590.0         | 94.0             | 94.0                 | 94.1               | 3.0           | 6.0 | 0.1             |

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

| Ref. level | Expected level | Actual level | Tolerance(dB) |     | Deviation |
|------------|----------------|--------------|---------------|-----|-----------|
| dB         | dB             | dB           | +             | -   | dB        |
| 126.0      | 125.0          | 125.0        | 1.0           | 1.0 | 0.0       |

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

| Ref. level | Expected level | Actual level | Tolerance(dB) |     | Deviation |
|------------|----------------|--------------|---------------|-----|-----------|
| dB         | dB             | dB           | +             | -   | dB        |
| 126.0      | 121.9          | 121.9        | 1.0           | 1.0 | 0.0       |

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range. Positive polarities: (Weighting Z, set the generator signal to single, Lzpeak)

| Ref. level | Response to 10 ms | Response to 100 us | Tolerance | Deviation |
|------------|-------------------|--------------------|-----------|-----------|
|------------|-------------------|--------------------|-----------|-----------|



Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type: NL-52 Serial No. 01198668 Date 19-Jan-2026  
Microphone type: UC-59 Serial No. 16390  
Preamp type: NH-25 Serial No. 98882 Report: 26CA0115 01-01

| dB    | dB    | dB    | +/- dB | dB  |
|-------|-------|-------|--------|-----|
| 129.0 | 129.0 | 129.6 | 2.0    | 0.6 |

Negative polarities:

| Ref. level | Response to 10 ms | Response to 100 us | Tolerance | Deviation |
|------------|-------------------|--------------------|-----------|-----------|
| dB         | dB                | dB                 | +/- dB    | dB        |
| 129.0      | 129.0             | 129.6              | 2.0       | 0.6       |

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

|                | Ref. Level | Expected level | Tone burst signal | Tolerance | Deviation |
|----------------|------------|----------------|-------------------|-----------|-----------|
| Time weighting | dB         | dB             | indication(dB)    | +/- dB    | dB        |
| Slow           | 128.0+6.6  | 128.0          | 127.9             | 0.5       | -0.1      |

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

| Repetition Time | Level of tone burst | Expected Leq | Actual Leq | Tolerance | Deviation | Remarks      |
|-----------------|---------------------|--------------|------------|-----------|-----------|--------------|
| msec            | dB                  | dB           | dB         | +/- dB    | dB        |              |
| 1000            | 100.0               | 100.0        | 99.9       | 1.0       | -0.1      | 60s integ.   |
| 10000           | 90.0                | 90.0         | 89.9       | 1.0       | -0.1      | 6min. integ. |

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec

The integrating sound level meter set to Leq:

| Duration | Rms level of tone burst (dB) | Expected | Actual | Tolerance | Deviation |
|----------|------------------------------|----------|--------|-----------|-----------|
| msec     | tone burst (dB)              | dB       | dB     | +/- dB    | dB        |
| 10       | 100.0                        | 70.0     | 70.0   | 1.7       | 0.0       |

The integrating sound level meter set to SEL:

| Duration | Rms level of tone burst (dB) | Expected | Actual | Tolerance | Deviation |
|----------|------------------------------|----------|--------|-----------|-----------|
| msec     | tone burst (dB)              | dB       | dB     | +/- dB    | dB        |
| 10.0     | 100.0                        | 80.0     | 80.0   | 1.7       | 0.0       |

OVERLOAD INDICATION TEST



Test Data for Sound Level Meter

Page 5 of 5

|                         |       |            |          |         |                |
|-------------------------|-------|------------|----------|---------|----------------|
| Sound level meter type: | NL-52 | Serial No. | 01198668 | Date    | 19-Jan-2026    |
| Microphone type:        | UC-59 | Serial No. | 16390    |         |                |
| Preamp type:            | NH-25 | Serial No. | 98882    | Report: | 26CA0115 01-01 |

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

| Level            | Level reduced by | Further reduced | Difference | Tolerance | Deviation |
|------------------|------------------|-----------------|------------|-----------|-----------|
| at overload (dB) | 1 dB             | 3 dB            | dB         | dB        | dB        |
| 131.1            | 130.1            | 127.1           | 3.0        | 1.0       | 0.0       |

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz  
Integration time: 10 sec  
Single burst duration: 1 msec

| Rms level        | Level reduced by | Expected level | Actual level | Tolerance | Deviation |
|------------------|------------------|----------------|--------------|-----------|-----------|
| at overload (dB) | 1 dB             | dB             | dB           | dB        | dB        |
| 138.3            | 137.3            | 97.3           | 97.3         | 2.2       | 0.0       |

## ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

| Frequency<br>Hz | Expected level<br>dB | Actual level<br>Measured (dB) | Tolerance (dB) |     | Deviation<br>dB |
|-----------------|----------------------|-------------------------------|----------------|-----|-----------------|
|                 |                      |                               | +              | -   |                 |
| 1000            | 94.0                 | 94.0                          | 0.0            | 0.0 | 0.0             |
| 125             | 77.9                 | 78.1                          | 1.0            | 1.0 | 0.2             |
| 8000            | 92.9                 | 93.5                          | 1.5            | 3.0 | 0.6             |

-----END-----



## CERTIFICATE OF CALIBRATION

Certificate No.: 26CA0115 01-02

Page: 1 of 2

### Item tested

Description: Acoustical Calibrator (Class 1)  
Manufacturer: Rion  
Type/Model No.: NC-75  
Serial/Equipment No.: 34202223  
Adaptors used: -

### Item submitted by

Customer: Umwelt Consulting Limited.  
Address of Customer: -  
Request No.: -  
Date of receipt: 15-Jan-2026

Date of test: 19-Jan-2026

### Reference equipment used in the calibration

| Description:            | Model:   | Serial No. | Expiry Date: | Traceable to: |
|-------------------------|----------|------------|--------------|---------------|
| Lab standard microphone | B&K 4180 | 3257856    | 17-Jul-2026  | SCL           |
| Preamplifier            | B&K 2673 | 3353200    | 02-Jul-2026  | CEPREI        |
| Measuring amplifier     | B&K 2610 | 2346941    | 04-Jul-2026  | CEPREI        |
| Signal generator        | DS 360   | 61227      | 24-Feb-2026  | CEPREI        |
| Digital multi-meter     | 34401A   | US36087050 | 22-Apr-2026  | CEPREI        |
| Audio analyzer          | 8903B    | GB41300350 | 10-Jul-2026  | CEPREI        |
| Universal counter       | 53132A   | MY40003662 | 07-Jul-2026  | CEPREI        |

### Ambient conditions

Temperature: 20.0~20.4 °C  
Relative humidity: 62.2~62.7 %  
Air pressure: 1005 ± 5 hPa

### Test specifications

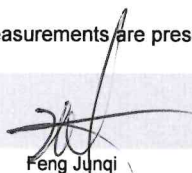
- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

### Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on **page 2** of this certificate.

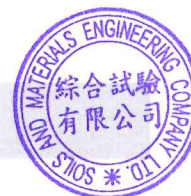
Approved Signatory:



Feng Junqi

Date: 20-Jan-2026

Company Chop:



**Comments:** The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 26CA0115 01-02

Page: 2 of 2

### 1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

| Frequency Shown<br>Hz | Output Sound Pressure Level Setting<br>dB | Measured Output Sound Pressure Level<br>dB | (Output level in dB re 20 $\mu$ Pa)  |
|-----------------------|---|--|--------------------------------------|
|                       |   |  | Estimated Expanded Uncertainty<br>dB |
| 1000                  | 94.00                                     | 94.14                                      | 0.10                                 |

### 2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz STF = 0.007 dB

Estimated expanded uncertainty 0.005 dB

### 3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz Actual Frequency = 1000.0 Hz

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

### 4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:


At 1000 Hz TND = 1.0 %

Estimated expanded uncertainty 0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.


- End -

Calibrated by:

  
Fung Chi Yip

Date: 19-Jan-2026

Checked by:

  
Chan Yuk Yiu

Date: 20-Jan-2026

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



**RION CO., LTD.**

3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533  
Phone:042(359)7888, Facsimile:042(359)7442

## **Certificate of Calibration**

**Name** : **Class 1 Sound Level Meter**  
**Model** : **NL-53**      **S/No.** : **00452008**  
**Date of Calibration** : **April, 23, 2025**

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

**RION CO., LTD.**

Manager, Quality Control Department



## CALIBRATION CERTIFICATE

Product : SOUND CALIBRATOR  
Model : NC-75  
Serial number : 34256525  
Manufacturer : RION CO., LTD.  
Calibration item : Sound pressure level (with reference standard microphone)  
Calibration method : Measured by specified secondary standard microphone  
according to JCSS calibration procedure specified by RION.  
Ambient conditions : Temperature 23.2 °C, Relative humidity 49 %,  
Static pressure 100.2 kPa  
Calibration date : 12/2/2025 (D/M/YYYY)  
Calibration location : 3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan  
RION CO., LTD. Calibration Room

We hereby certify that the results of this calibration were as follows.

Issue date : 14/2/2025 (D/M/YYYY)

Yoshio Maruyama  
Manager  
Quality Assurance Section,  
Quality Assurance Department,  
Production Division  
RION CO., LTD.  
3-20-41 Higashimotomachi, Kokubunji,  
Tokyo 185-8533, Japan



This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI).

The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2017.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Accreditation Cooperation (APAC). This (These) calibration result(s) may be accepted internationally through ILAC/APAC MRA.

## CALIBRATION RESULT

Sound pressure level (with reference standard microphone)

| Measured Value | Expanded Uncertainty * |
|----------------|------------------------|
| 93.99 dB       | 0.09 dB                |

Specified secondary standard microphone:

Model : 4160  
Serial number : 2973341

Reference Sound pressure :  $2 \times 10^{-5}$  Pa

\* Defines an interval estimated to have a level of confidence of approximately 95 %.  
Coverage factor  $k = 2$

Calibration result is the calibration value in ambient conditions during calibration.

## BE OUT OF JCSS CALIBRATION

### 1. Frequency

| Measured Value | Measurement uncertainty ( $k = 2$ ) |
|----------------|-------------------------------------|
| 1000.0 Hz      | $4.0 \times 10^{-4}$ Hz             |

Working measurement standard universal counter:

Model : 53132A  
Serial number : MY40005574  
(JCSS Calibration Certificate No. 2408008578510)

### 2. Total distortion

| Measured Value |
|----------------|
| 0.3 %          |

Working measurement standard distortion meter:

Model : VA-2230A  
Serial number : 11076061  
(A2LA Calibration Certificate No. 1504-03541)

- closing -

## **Appendix 4.2**

# **Impact Monitoring Schedule for Construction Phase Noise Monitoring for the Reporting Month and Next Month**





Contract No. CM 04/2024

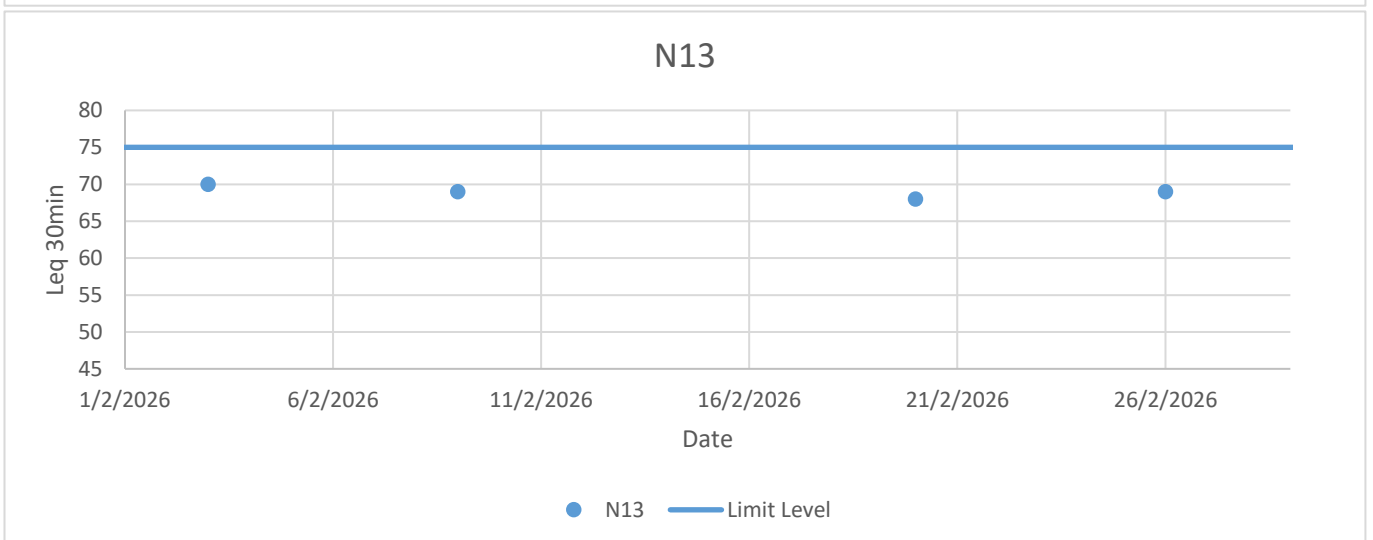
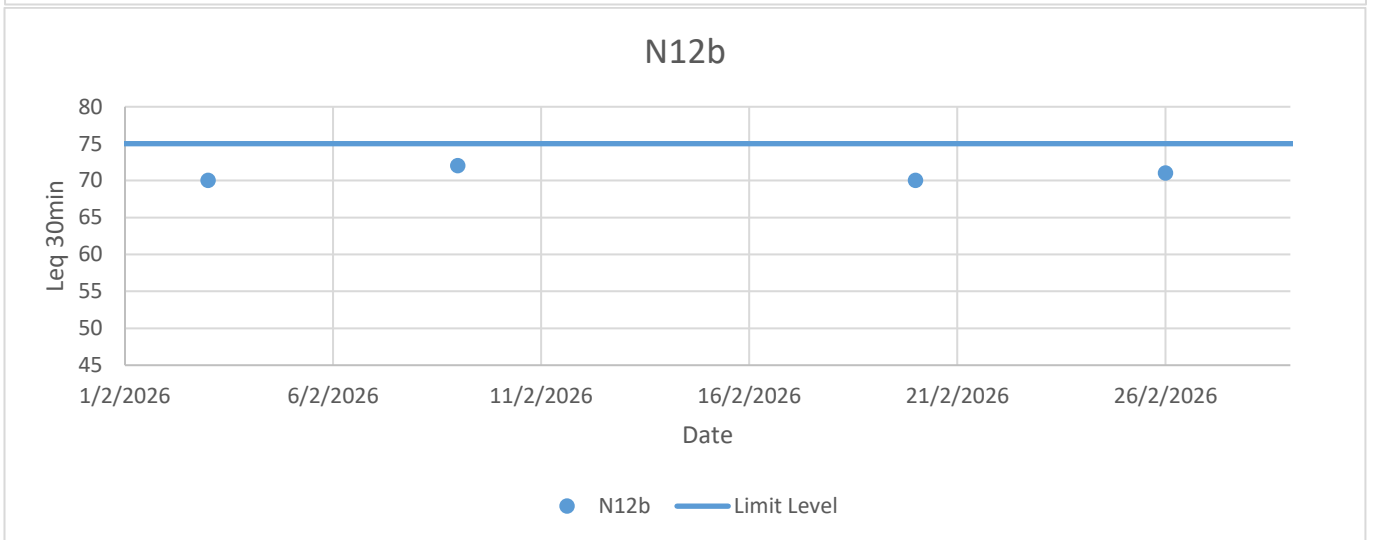
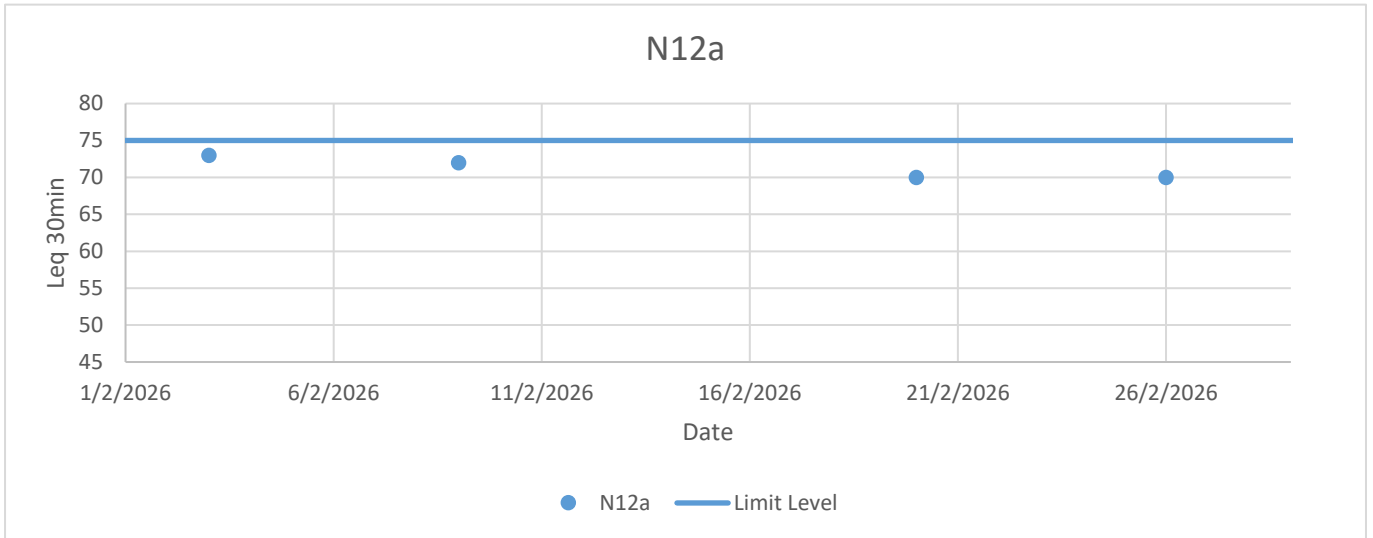
Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)

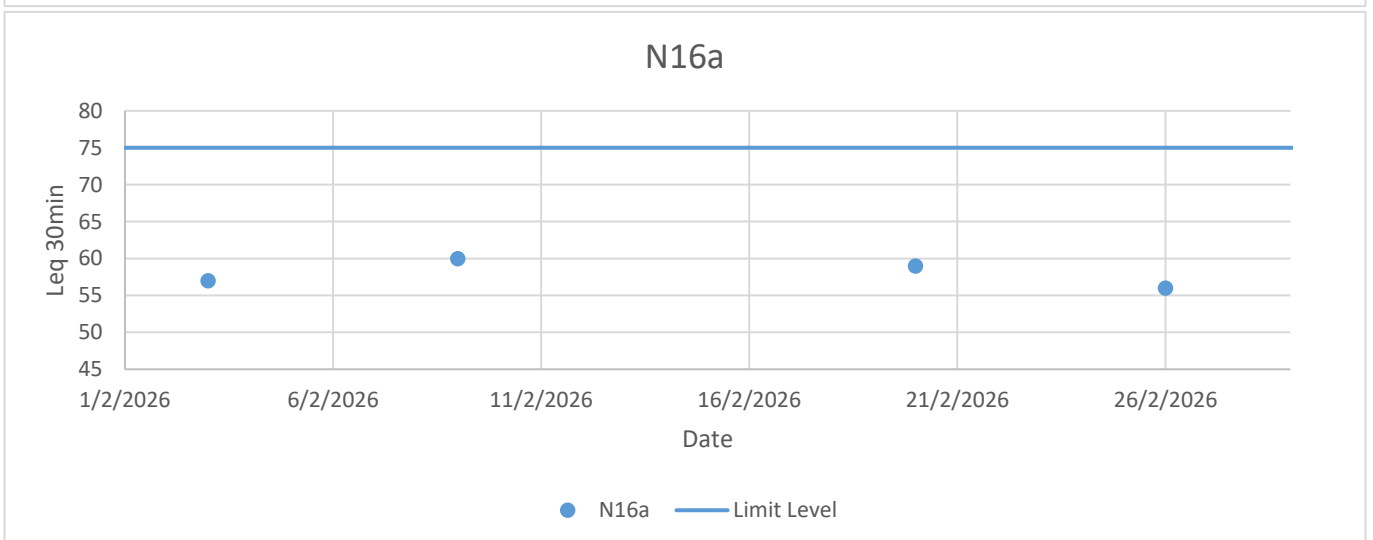
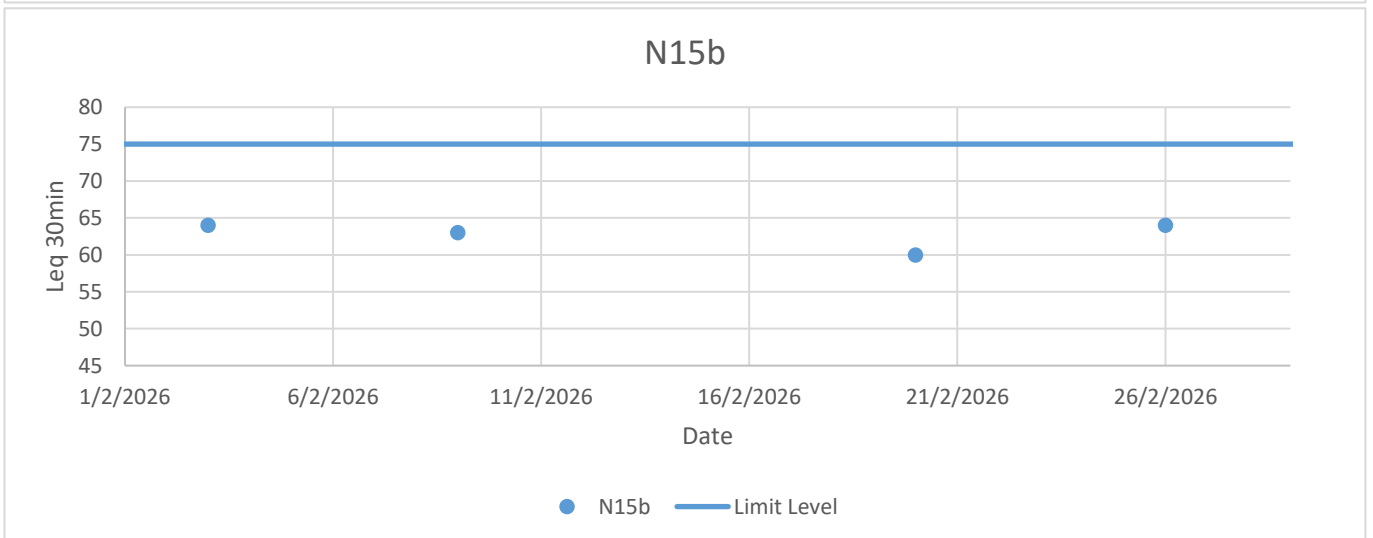
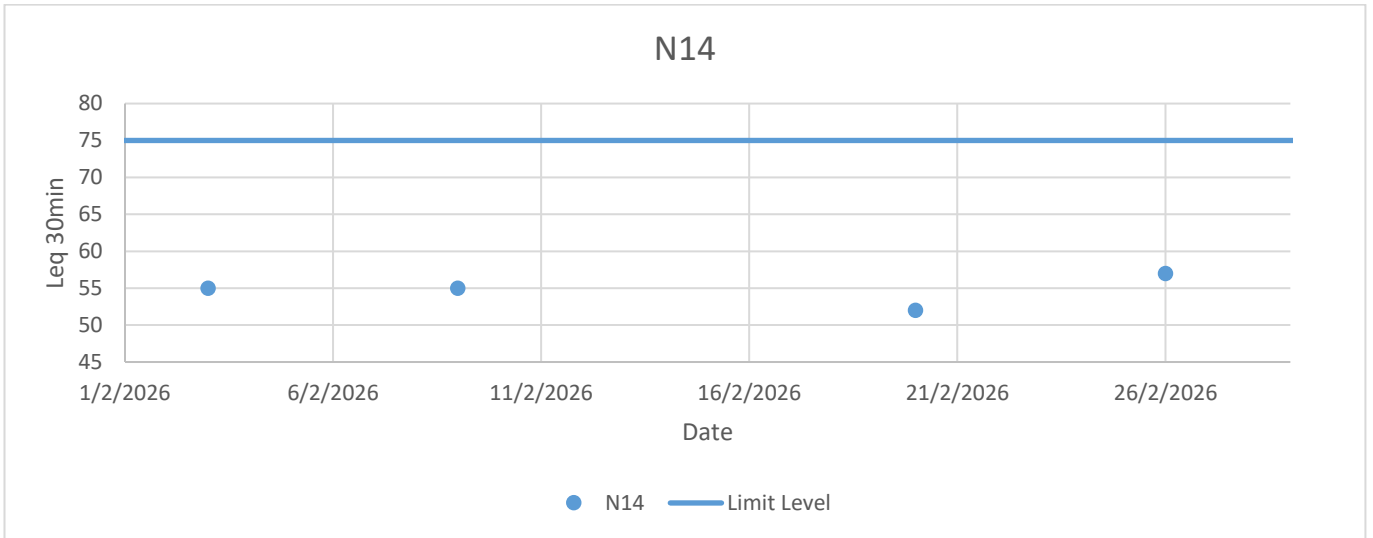
Environmental Monitoring Schedule

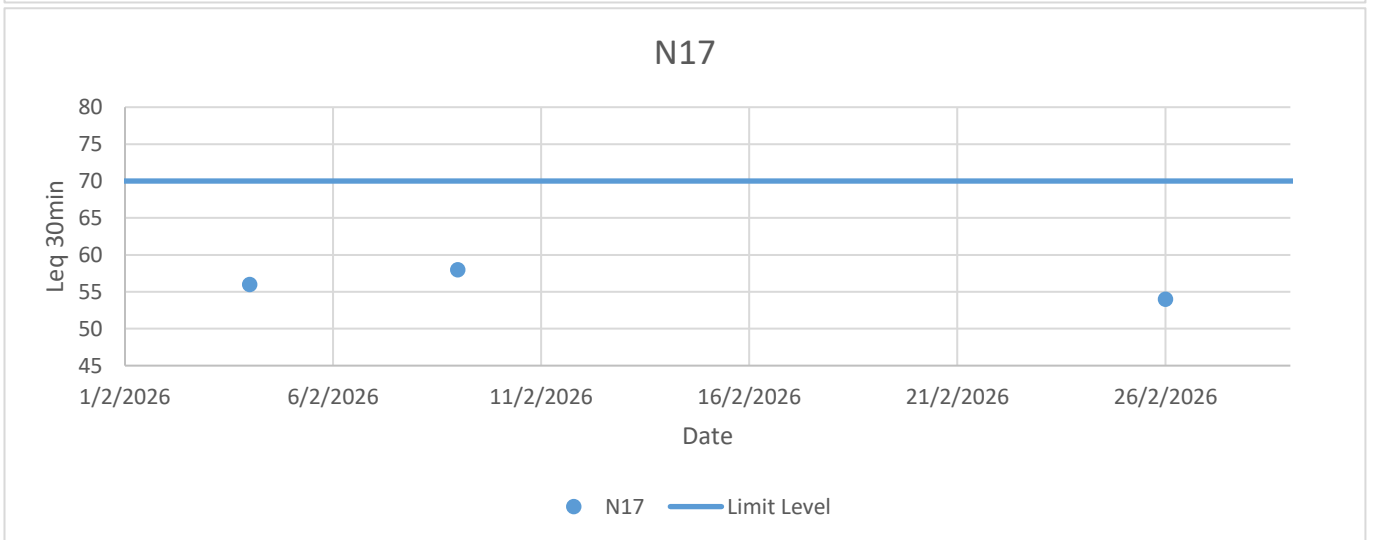
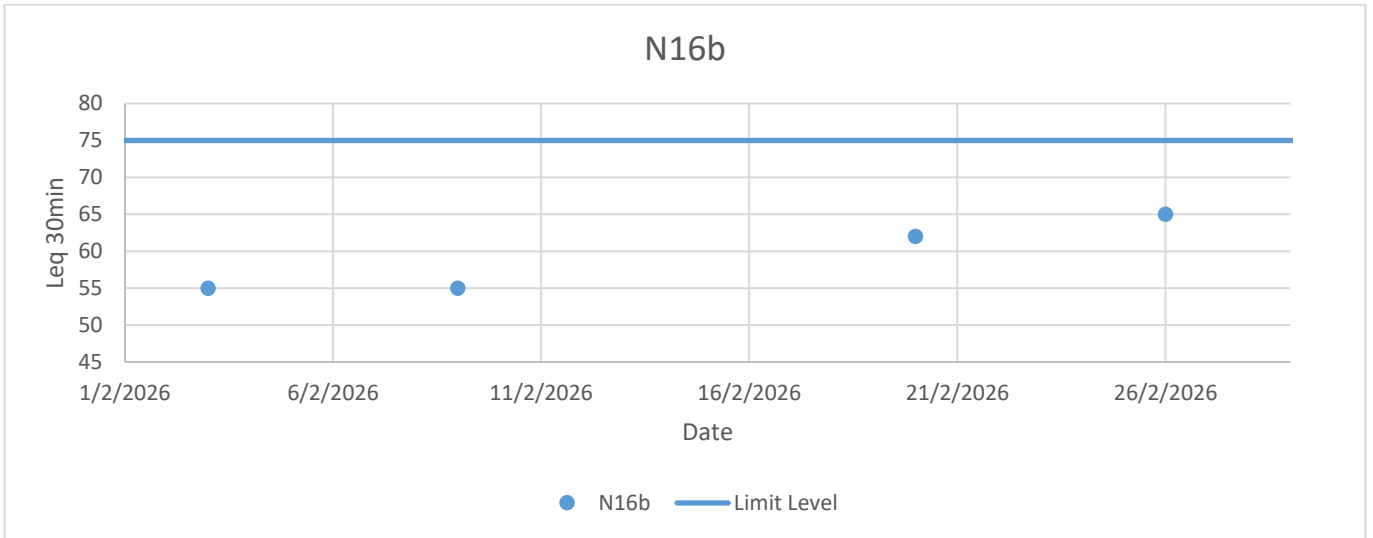
Month: March-2026

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

# **Appendix 4.3 Noise Monitoring Results and Graphical Representations**









Ref: N12a      Location Name: Lo Uk Tsuen      Level: G/F      Type of Measurement: 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  |           |                   |                     |             |  |                         |        |
| 3/2/2026  | Sunny   | Calm           | 15:41      | 16:11    | 70.1                 | 74.4 | 53.3 | 70        | 3                 | 73                  | 75          | Traffic, human activity, birds, construction | Our project (hammering) | --     |
|           |         |                |            |          | 69.4                 | 72.4 | 48.9 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 73.2                 | 72.2 | 46.4 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 66.6                 | 69.5 | 49.5 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 67.1                 | 69.6 | 47.3 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 69.9                 | 73.3 | 48.5 |           |                   |                     |             |  |                         |        |
| 9/2/2026  | Cloudy  | Windy          | 14:50      | 15:20    | 66.7                 | 68.7 | 48.4 | 69        | 3                 | 72                  | 75          | Traffic, human activity, birds, construction | Not observed            | --     |
|           |         |                |            |          | 68.4                 | 69.4 | 48.5 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 66.6                 | 70.5 | 54.9 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 70.1                 | 73.7 | 54.0 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 68.4                 | 72.4 | 49.6 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 71.8                 | 71.7 | 48.8 |           |                   |                     |             |  |                         |        |
| 20/2/2026 | Sunny   | Calm           | 15:22      | 15:52    | 67.1                 | 74.4 | 59.9 | 67        | 3                 | 70                  | 75          | Traffic, human activity, birds               | Not observed            | --     |
|           |         |                |            |          | 65.7                 | 73.3 | 49.6 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 66.9                 | 74.3 | 54.2 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 64.5                 | 70.1 | 47.4 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 67.7                 | 73.7 | 59.4 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 67.8                 | 75.5 | 57.8 |           |                   |                     |             |  |                         |        |
| 26/2/2026 | Cloudy  | Calm           | 09:47      | 10:17    | 68.3                 | 75.2 | 60.2 | 67        | 3                 | 70                  | 75          | Traffic, human activity, dog bark            | Not observed            | --     |
|           |         |                |            |          | 65.3                 | 73.2 | 57.6 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 66.9                 | 73.7 | 60.1 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 68.8                 | 75.9 | 59.8 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 67.2                 | 73.5 | 58.3 |           |                   |                     |             |  |                         |        |
|           |         |                |            |          | 67.1                 | 74.2 | 58.4 |           |                   |                     |             |  |                         |        |



Ref: N12b      Location Name: Lo Uk Tsuen      Level: G/F      Type of Measurement: 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  |           |                   |                     |             |   |                    |        |
| 3/2/2026  | cloudy  | Calm           | 16:22      | 16:52    | 66.6                 | 71.4 | 46.5 | 67        | 3                 | 70                  | 75          | Traffic, human activity(child scream), construction, bird | Not observed       | --     |
|           |         |                |            |          | 66.8                 | 70.2 | 46.9 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 65.0                 | 66.1 | 46.3 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 68.6                 | 70.1 | 49.1 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 68.0                 | 71.3 | 53.7 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.0                 | 68.7 | 45.1 |           |                   |                     |             |   |                    |        |
| 9/2/2026  | Cloudy  | Windy          | 14:12      | 14:42    | 66.7                 | 70.4 | 57.3 | 69        | 3                 | 72                  | 75          | Traffic, human activity, construction, bird               | Not observed       | --     |
|           |         |                |            |          | 68.7                 | 71.4 | 55.1 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 69.3                 | 72.2 | 54.5 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 66.1                 | 70.6 | 54.6 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 70.3                 | 73.7 | 57.3 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 70.9                 | 73.6 | 55.7 |           |                   |                     |             |   |                    |        |
| 20/2/2026 | Sunny   | Calm           | 14:47      | 15:17    | 65.2                 | 72.9 | 55.3 | 67        | 3                 | 70                  | 75          | Traffic, human activity, birds                            | Not observed       | --     |
|           |         |                |            |          | 68.8                 | 76.1 | 50.3 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.1                 | 69.9 | 48.9 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 67.9                 | 74.6 | 58.8 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 68.3                 | 74.1 | 57.0 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.0                 | 71.4 | 51.4 |           |                   |                     |             |   |                    |        |
| 26/2/2026 | Cloudy  | Calm           | 10:22      | 10:52    | 64.6                 | 72.7 | 53.3 | 68        | 3                 | 71                  | 75          | Traffic, human activity, birds, dog bark                  | Not observed       | --     |
|           |         |                |            |          | 68.5                 | 75.1 | 55.4 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 67.5                 | 74.6 | 57.1 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 69.6                 | 75.1 | 59.3 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 66.9                 | 74.5 | 58.9 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 69.8                 | 77.0 | 61.7 |           |                   |                     |             |   |                    |        |



Ref: N13 Location Name: Pui O San Wai Tsuen Level: G/F Type of Measurement: 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  |           |                   |                     |             |   |                    |        |
| 3/2/2026  | cloudy  | Calm           | 11:40      | 12:10    | 67.8                 | 72.4 | 56.4 | 67        | 3                 | 70                  | 75          | Traffic, human activity, school bell, dog bark  | Not observed       | --     |
|           |         |                |            |          | 65.1                 | 69.0 | 51.4 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.1                 | 68.8 | 51.4 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 69.2                 | 71.7 | 52.6 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.3                 | 67.5 | 51.5 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 67.2                 | 71.4 | 51.4 |           |                   |                     |             |   |                    |        |
| 9/2/2026  | Cloudy  | Windy          | 11:05      | 11:35    | 63.0                 | 66.6 | 53.3 | 66        | 3                 | 69                  | 75          | Human activity, birds, PA system(school+ music) | Not observed       | --     |
|           |         |                |            |          | 65.3                 | 68.9 | 54.4 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 67.2                 | 71.7 | 53.1 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 66.5                 | 70.8 | 53.0 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 63.2                 | 67.3 | 53.4 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 66.9                 | 71.1 | 55.0 |           |                   |                     |             |   |                    |        |
| 20/2/2026 | Sunny   | Calm           | 12:16      | 12:46    | 64.9                 | 72.5 | 55.4 | 65        | 3                 | 68                  | 75          | Traffic, human activity, birds                  | Not observed       | --     |
|           |         |                |            |          | 64.5                 | 70.6 | 55.2 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.3                 | 70.5 | 57.9 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 63.4                 | 69.3 | 54.8 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 65.4                 | 72.6 | 57.9 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.3                 | 69.3 | 55.1 |           |                   |                     |             |   |                    |        |
| 26/2/2026 | Cloudy  | Calm           | 10:54      | 11:24    | 66.5                 | 73.0 | 60.6 | 66        | 3                 | 69                  | 75          | Traffic, human activity, birds                  | Not observed       | --     |
|           |         |                |            |          | 66.7                 | 72.4 | 60.0 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 63.8                 | 70.7 | 57.9 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.2                 | 70.5 | 59.1 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 66.2                 | 72.6 | 58.5 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 67.2                 | 72.5 | 56.6 |           |                   |                     |             |   |                    |        |



**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  |           |                   |                     |             |  |                    |        |
| 3/2/2026  | cloudy  | Calm           | 12:20      | 12:50    | 59.3                 | 58.8 | 40.2 | 55        | --                | 55                  | 75          | Human activity, traffic, Pa system(school) | Not observed       | --     |
|           |         |                |            |          | 48.8                 | 48.7 | 39.3 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 50.0                 | 56.0 | 39.6 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 56.9                 | 59.4 | 39.9 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 47.1                 | 45.8 | 38.4 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 53.5                 | 49.1 | 39.6 |           |                   |                     |             |  |                    |        |
| 9/2/2026  | Cloudy  | Windy          | 12:16      | 12:46    | 53.2                 | 54.8 | 47.4 | 55        | --                | 55                  | 75          | Human activity, traffic, Pa system(school) | Not observed       | --     |
|           |         |                |            |          | 53.7                 | 56.6 | 47.6 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 53.0                 | 55.3 | 45.5 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 57.2                 | 58.3 | 46.4 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 54.1                 | 56.5 | 45.1 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 56.2                 | 56.9 | 46.3 |           |                   |                     |             |  |                    |        |
| 20/2/2026 | Sunny   | Calm           | 12:51      | 13:21    | 50.7                 | 56.0 | 43.6 | 52        | --                | 52                  | 75          | Traffic, human activity, birds             | Not observed       | --     |
|           |         |                |            |          | 53.1                 | 60.5 | 45.2 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 50.4                 | 56.9 | 44.2 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 49.6                 | 57.5 | 44.2 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 53.6                 | 58.0 | 45.4 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 53.9                 | 61.5 | 48.5 |           |                   |                     |             |  |                    |        |
| 26/2/2026 | Cloudy  | Calm           | 11:59      | 12:29    | 54.4                 | 59.9 | 50.9 | 57        | --                | 57                  | 75          | Traffic, human activity, birds             | Not observed       | --     |
|           |         |                |            |          | 55.3                 | 61.6 | 52.4 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 57.0                 | 63.4 | 51.4 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 58.9                 | 64.2 | 54.4 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 56.9                 | 61.7 | 54.9 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 56.5                 | 61.0 | 55.4 |           |                   |                     |             |  |                    |        |



Ref: N15b Location Name: Pui O San Wai Tsuen Level: G/F Type of Measurement: 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  |           |                   |                     |             |   |                    |        |
| 3/2/2026  | Sunny   | calm           | 11:00      | 11:30    | 61.6                 | 63.6 | 55.6 | 64        | --                | 64                  | 75          | Traffic, human activity, birds                | Not observed       | --     |
|           |         |                |            |          | 63.8                 | 68.2 | 55.3 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 65.7                 | 68.8 | 56.6 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 59.3                 | 61.6 | 55.7 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 65.0                 | 67.8 | 55.7 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 65.4                 | 68.7 | 55.9 |           |                   |                     |             |   |                    |        |
| 9/2/2026  | Cloudy  | Windy          | 10:29      | 10:59    | 66.3                 | 71.2 | 55.9 | 63        | --                | 63                  | 75          | Traffic, human activity, birds, car repairing | Not observed       | --     |
|           |         |                |            |          | 63.3                 | 66.9 | 55.8 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 60.5                 | 63.4 | 55.5 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 61.2                 | 65.8 | 55.8 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 61.4                 | 65.4 | 55.5 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.0                 | 66.9 | 55.2 |           |                   |                     |             |   |                    |        |
| 20/2/2026 | Sunny   | calm           | 11:39      | 12:09    | 62.0                 | 68.6 | 56.4 | 60        | --                | 60                  | 75          | Traffic, human activity, birds                | Not observed       | --     |
|           |         |                |            |          | 60.2                 | 66.2 | 56.6 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 58.5                 | 63.3 | 55.4 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 60.4                 | 66.3 | 56.4 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 59.1                 | 64.7 | 56.3 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 60.6                 | 67.1 | 56.3 |           |                   |                     |             |   |                    |        |
| 26/2/2026 | Cloudy  | Calm           | 13:43      | 14:13    | 64.8                 | 71.5 | 59.3 | 64        | --                | 64                  | 75          | Traffic, human activity, birds                | Not observed       | --     |
|           |         |                |            |          | 62.9                 | 68.3 | 60.3 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 65.0                 | 70.5 | 61.6 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 63.5                 | 68.9 | 58.7 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 61.7                 | 66.4 | 58.7 |           |                   |                     |             |   |                    |        |
|           |         |                |            |          | 64.2                 | 69.0 | 59.2 |           |                   |                     |             |   |                    |        |



Ref: N16a Location Name: Residences at Ham Tin Level: G/F Type of Measurement: 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  |           |                   |                     |             |  |                    |        |
| 3/2/2026  | Sunny   | Calm           | 14:51      | 15:21    | 56.1                 | 53.3 | 40.5 | 54        | 3                 | 57                  | 75          | Traffic, human activity, birds, construction, dog bark | Not observed       | --     |
|           |         |                |            |          | 56.7                 | 52.1 | 40.3 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 50.6                 | 49.4 | 36.9 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 55.4                 | 48.2 | 37.3 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 54.1                 | 53.8 | 36.0 |           |                   |                     |             |  |                    |        |
| 40.9      | 43.5    | 35.5           |            |          |                      |      |      |           |                   |                     |             |  |                    |        |
| 9/2/2026  | Cloudy  | Windy          | 13:28      | 13:58    | 53.1                 | 48.8 | 39.9 | 57        | 3                 | 60                  | 75          | Traffic, human activity, birds, construction, dog bark | Not observed       | --     |
|           |         |                |            |          | 54.5                 | 58.5 | 37.7 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 56.9                 | 60.6 | 42.9 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 56.0                 | 53.9 | 41.5 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 60.0                 | 59.3 | 41.3 |           |                   |                     |             |  |                    |        |
| 54.5      | 55.0    | 41.2           |            |          |                      |      |      |           |                   |                     |             |  |                    |        |
| 20/2/2026 | Sunny   | Calm           | 14:02      | 14:32    | 55.6                 | 61.8 | 47.6 | 56        | 3                 | 59                  | 75          | Traffic, human activity, birds                         | Not observed       | --     |
|           |         |                |            |          | 60.6                 | 67.1 | 46.8 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 56.0                 | 61.7 | 44.7 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 51.6                 | 54.2 | 43.8 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 52.4                 | 50.2 | 42.3 |           |                   |                     |             |  |                    |        |
| 46.2      | 52.3    | 42.1           |            |          |                      |      |      |           |                   |                     |             |  |                    |        |
| 26/2/2026 | Cloudy  | Calm           | 12:35      | 13:05    | 57.4                 | 61.8 | 47.1 | 53        | 3                 | 56                  | 75          | Traffic, human activity, birds                         | Not observed       | --     |
|           |         |                |            |          | 52.5                 | 55.5 | 46.6 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 51.5                 | 57.3 | 48.1 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 46.6                 | 50.5 | 42.8 |           |                   |                     |             |  |                    |        |
|           |         |                |            |          | 53.1                 | 60.3 | 48.0 |           |                   |                     |             |  |                    |        |
| 52.9      | 58.0    | 50.1           |            |          |                      |      |      |           |                   |                     |             |  |                    |        |



| 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 |      |      | Leq30 mins | Façade Correction | Corrected Leq30mins | Limit Level | Other Noise Sources                     | Construction Noise | Remake |  |
|           |               |                       |                     |            | Leq                  | L10  | L90  |            |                   |                     |             |   |                    |        |  |
| 3/2/2026  | Cloudy        | Moderate              | 14:01               | 14:31      | 47.1                 | 48.9 | 41.2 | 52         | 3                 | 55                  | 75          | Traffic, human activity                 | Not observed       | --     |  |
|           |               |                       |                     |            | 49.5                 | 50.9 | 43.6 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 52.5                 | 52.1 | 41.4 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 50.7                 | 52.8 | 41.8 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 50.0                 | 53.0 | 42.8 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 50.8                 | 54.0 | 43.8 |            |                   |                     |             |   |                    |        |  |
| 9/2/2026  | Cloudy        | Windy                 | 12:53               | 13:23      | 55.2                 | 56.2 | 49.3 | 52         | 3                 | 55                  | 75          | Traffic, human activity( speaker), bird | Not observed       | --     |  |
|           |               |                       |                     |            | 50.0                 | 51.5 | 46.9 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 52.9                 | 54.2 | 48.7 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 51.0                 | 52.9 | 47.0 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 51.2                 | 52.4 | 47.7 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 49.5                 | 51.2 | 46.3 |            |                   |                     |             |   |                    |        |  |
| 20/2/2026 | Sunny         | Calm                  | 13:27               | 13:57      | 46.3                 | 50.4 | 44.5 | 59         | 3                 | 62                  | 75          | Traffic, human activity, birds          | Not observed       | --     |  |
|           |               |                       |                     |            | 45.9                 | 50.9 | 43.1 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 46.6                 | 52.7 | 44.2 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 67.0                 | 61.4 | 49.3 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 44.8                 | 49.1 | 43.7 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 45.6                 | 50.3 | 44.4 |            |                   |                     |             |   |                    |        |  |
| 26/2/2026 | Cloudy        | Calm                  | 13:09               | 13:39      | 64.8                 | 73.4 | 59.5 | 62         | 3                 | 65                  | 75          | Traffic, human activity, birds          | Not observed       | --     |  |
|           |               |                       |                     |            | 61.2                 | 65.2 | 59.8 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 61.9                 | 68.0 | 59.4 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 59.2                 | 64.3 | 58.5 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 59.6                 | 61.4 | 58.8 |            |                   |                     |             |   |                    |        |  |
|           |               |                       |                     |            | 59.2                 | 60.6 | 58.9 |            |                   |                     |             |   |                    |        |  |



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

| Date      | Weather | Wind Condition | Start Time | End Time | Measured Noise Level |      |      | Leq30 mins | Façade Correction | Corrected Leq30mins | Limit Level | Other Noise Sources  | Construction Noise  | Remake |
|-----------|---------|----------------|------------|----------|----------------------|------|------|------------|-------------------|---------------------|-------------|--|---|--------|
|           |         |                |            |          | Leq                  | L10  | L90  |            |                   |                     |             |  |   |        |
| 4/2/2026  | Cloudy  | Calm           | 15:13      | 15:43    | 57.7                 | 60.7 | 50.9 | 56         | --                | 56                  | 70          | Human activity, birds  | Not observed  | --     |
|           |         |                |            |          | 58.4                 | 61.5 | 49.4 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 52.5                 | 54.9 | 48.0 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 51.4                 | 54.0 | 47.0 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 57.5                 | 60.0 | 47.3 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 52.6                 | 55.3 | 47.6 |            |                   |                     |             |  |   |        |
| 9/2/2026  | Cloudy  | Windy          | 11:40      | 12:10    | 58.1                 | 60.6 | 53.4 | 58         | --                | 58                  | 70          | Human activity, birds, helicopter, PA system(sc hool+ music) | Not observed  | --     |
|           |         |                |            |          | 57.2                 | 59.4 | 52.7 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 57.7                 | 60.6 | 53.4 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 57.8                 | 60.3 | 53.1 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 60.1                 | 63.5 | 54.2 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 58.8                 | 62.9 | 51.9 |            |                   |                     |             |  |   |        |
| 20/2/2026 | --      | --             | --         | --       | --                   | --   | --   | --         | --                | --                  | --          | --   | Bui O Public School was in holiday and hence the monitoring for N17 was not conducted. The noise monitoring at N17 will resume when the school is opened. |        |
|           |         |                |            |          | --                   | --   | --   |            |                   |                     |             |  |   |        |
|           |         |                |            |          | --                   | --   | --   |            |                   |                     |             |  |   |        |
|           |         |                |            |          | --                   | --   | --   |            |                   |                     |             |  |   |        |
|           |         |                |            |          | --                   | --   | --   |            |                   |                     |             |  |   |        |
|           |         |                |            |          | --                   | --   | --   |            |                   |                     |             |  |   |        |
| 26/2/2026 | Sunny   | Calm           | 11:27      | 11:57    | 49.2                 | 54.3 | 46.8 | 54         | --                | 54                  | 70          | Traffic, human activity, birds                               | Not observed  | --     |
|           |         |                |            |          | 58.3                 | 66.4 | 51.3 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 54.0                 | 59.4 | 51.7 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 50.0                 | 55.8 | 46.3 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 53.5                 | 59.9 | 47.9 |            |                   |                     |             |  |   |        |
|           |         |                |            |          | 51.6                 | 57.5 | 46.6 |            |                   |                     |             |  |   |        |



## Appendix 7.1

# Monthly Summary Waste Flow Table

**Drainage Services Department**  
**Contract No. DC/2020/02**  
**Construction of San Shek Wan Sewage Treatment Works,**  
**Associated Submarine Outfall and Pui O Sewerage Works**

**Monthly Summary Waste Flow Table for 2026**

| Month            | Actual Quantities of Inert C&D Material Generated Monthly |  |  |  |   |   | Actual Quantities of C&D Wastes Generated Monthly |   |                                      |                               |  |
|------------------|---|--|--|--|---|---|---|---|--------------------------------------|-------------------------------|--|
|                  | Total Quantity Generated (a)<br>(in '000m <sup>3</sup> )  | Hard Rocks and Large Broken Concrete (b)<br>(in '000m <sup>3</sup> ) | Reused in the Contract (c)<br>(in '000m <sup>3</sup> ) | Reused in other Projects (d)<br>(in '000m <sup>3</sup> ) | Disposed as Public Fill (a-b-c-d)<br>(in '000m <sup>3</sup> ) | Imported Fill<br>(in '000m <sup>3</sup> ) | Metals<br>(in '000kg)                             | Paper/card-board packaging<br>(in '000kg) | Plastics [see Note 5]<br>(in '000kg) | Chemical waste<br>(in '000kg) | Others. e.g. general refuse<br>(in '000kg) |
| <b>Jan</b>       | 0.60  | 0.00   | 0.00   | 0.00   | 0.57  | 0.03                                      | 9.3827  | 0.0595                                    | 0.0026                               | 0.00                          | 114.33                                     |
| <b>Feb</b>       | 0.06  | 0.00   | 0.00   | 0.00   | 0.06  | 0.003                                     | 0.0000  | 0.0000                                    | 0.0000                               | 0.00                          | 51.56                                      |
| <b>Mar</b>       | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Apr</b>       | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>May</b>       | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Jun</b>       | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Sub-total</b> | 0.66  | 0.00   | 0.00   | 0.00   | 0.63  | 0.03                                      | 9.3827  | 0.0595                                    | 0.0026                               | 0.00                          | 165.89                                     |
| <b>July</b>      | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Aug</b>       | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Sept</b>      | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Oct</b>       | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Nov</b>       | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Dec</b>       | 0.00  |  |  |  |   |   |   |   |                                      |                               |  |
| <b>Total</b>     | 0.66  | 0.00   | 0.00   | 0.00   | 0.63  | 0.03                                      | 9.3827  | 0.0595                                    | 0.0026                               | 0.00                          | 165.89                                     |

- 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/m<sup>3</sup>.



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

UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145  
Hennessy Road, Wan Chai, Hong Kong

## Appendix 9.1

### 3 Months Rolling Programme

## KL-CW JV

|  |  |
|--|--|
| <b>Tentative Three Months Construction Rolling Program</b><br><b>Contract No.: DC/2020/02</b><br><b>Construction of San Shek Wan Sewage Treatment Works,</b><br><b>Associated Submarine Outfall and Pui O Sewerage Works</b> | <b>Reference No. : DC/2020/02</b><br><b>Revision No. : -</b> |
|--|--|

### Construction Activities for the reporting period

| <b>Item</b> | <b>Construction Activities</b>   |
|-------------|--|
| 1           | Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road |
| 2           | Trenchless drilling works (Chi Ma Wan Road)  |
| 3           | Excavation and ELS work at POSPS   |
| 4           | Superstructure RC works at SSWSTW  |
| 5           | Waterproofing Work at SSWSTW   |
| 6           | Excavation and Site formation at SSWSTW  |
| 7           | E&M Installation at POSPS  |
| 8           | E&M Installation at SSWSTW   |
| 9           | Slope Work near SSWSTW   |

## KL-CW JV

|  |  |
|--|--|
| <b>Tentative Three Months Construction Rolling Program</b><br><b>Contract No.: DC/2020/02</b><br><b>Construction of San Shek Wan Sewage Treatment Works,</b><br><b>Associated Submarine Outfall and Pui O Sewerage Works</b> | <b>Reference No. : DC/2020/02</b><br><b>Revision No. : -</b> |
|--|--|

### Tentative Three Months (March, April and May 2026) Construction Rolling Program

| <b>Item</b> | <b>Construction Activities</b>   |
|-------------|--|
| 1           | Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road |
| 2           | Excavation and Site formation at SSWSTW  |
| 3           | Trenchless drilling works (Chi Ma Wan Road)  |
| 4           | Excavation and ELS work at POSPS   |
| 5           | Superstructure RC works at SSWSTW  |
| 6           | Waterproofing Work at SSWSTW   |
| 7           | Retaining wall construction at SSWSTW  |
| 8           | E&M Installation at POSPS  |
| 9           | E&M Installation at SSWSTW   |
| 10          | ABWF work at POSPS   |
| 11          | ABWF work at SSWSTW  |