

JOB No.: TCS01196/22

WSD CONTRACT No.: 7/WSD/21 -

**CONSTRUCTION OF SIU HO WAN WATER TREATMENT
WORKS EXTENSION AND SIU HO WAN RAW WATER
BOOSTER PUMPING STATION**

**MONTHLY ENVIRONMENTAL MONITORING AND AUDIT
REPORT – AUGUST 2025**

PREPARED FOR

CHINA ROAD AND BRIDGE CORPORATION

Date	Reference No.	Prepared By Tam Kok Fung, Benjamin	Certified By Tam Tak Wing
10 September 2025	TCS01196/22/600/R0130v1	 Environmental Consultant	 Environmental Team Leader

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Water Supplies Department
New Works Branch
Consultants Management Division
Sha Tin Office - 6/F Sha Tin Government
Offices, 1 Sheung Wo Che Road, Sha
Tin, New Territories.

27/F, Overseas Trust Bank Building
160 Gloucester Road
Wan Chai
Hong Kong
T: +852 2815 7028
F: +852 2815 5399

www.asecg.com

Attn: Mr. SY Kin Lik (SE/CM 3)

10 September 2025

By E-mail

Dear Sir,

RE: CONTRACT NO. 7/WSD/21
INDEPENDENT ENVIRONMENTAL CHECKER FOR ENVIRONMENTAL MONITORING AND AUDIT FOR
SIU HO WAN WATER TREATMENT WORKS EXTENSION
MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT – AUGUST 2025

I refer to the Monthly Environmental Monitoring and Audit Report – August 2025 (Report No.: TCS01196/22/600/R0130v1) received on 10 September 2025 by the Environmental Team (ET), Action-United Environmental Services & Consulting (AUES) via email. In accordance with Condition 4.4 of Environmental Permit No.EP-207/2005/A, I hereby verify the captioned report.

Yours faithfully,

For and on behalf of

Allied Environmental Consultants Ltd.

Joanne NG
Independent Environmental Checker

JN/tw

c.c. Action-United Environmental Services & Consulting (AUES)
Binnies Hong Kong Limited

Attn: Mr. Ben Tam
Attn: Mr. Michael Ng

(By E-mail)
(By E-mail)

EXECUTIVE SUMMARY

- ES.01. Water Supplies Department (WSD) is the Proponent of the Works Contract 7/WSD/21 “Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station” (hereinafter named as the “Works Contract”). Under this Works Contracts, the works mainly comprise of increasing the water treatment capacity of Siu Ho Wan water treatment works (SHW WTW) from 150,000m³ per day to 300,000m³ per day within the existing water treatment works compound, by constructing new water treatment facilities and a new laboratory building and modifying the existing associated facilities; and constructing a new raw water booster pumping station at Siu Ho Wan to increase the raw water transfer capacity from Tai Lam Chung Reservoir to SHW WTW.
- ES.02. According to the Environmental Impact Assessment Ordinance (EIAO), the proposed Siu Ho Wan Water Treatment Works Extension is a Designated Project under Schedule 2, which shall be implemented under the Environmental Permit EP-207/2005/A (hereinafter called the “EP”). Besides, the works for Siu Ho Wan Raw Water Booster Pumping Station is a non-designated project which mentioned in Section 1.10 of Environmental Monitoring and Audit (EM&A) Manual.
- ES.03. On 20 March 2022, **China Road and Bridge Corporation** (hereinafter called the “Main Contractor”) awarded the **Works Contracts 7/WSD/21**. According to EM&A Manual, only air quality monitoring is required to be conducted which related to the works area under **Contracts 7/WSD/21** during construction phase of the SHW WTW Extension. Moreover, site inspection and audit is required under the EM&A program to ensure the recommended environmental mitigation measures are implemented properly and effective.
- ES.04. The Main-Contractor appointed Action-United Environmental Services & Consulting (AUES) as the Environmental Team of the Project (hereinafter referred as the “ET”) to implement air quality monitoring as well as associated duties in accordance with the EM&A Manual stipulation.
- ES.05. As advised by the Contractor, the major construction works under Works Contract was commenced on 24 May 2022. This is the **40th** Monthly EM&A Report presenting monitoring results and inspection finding for the Project for the reporting period from **1 to 31 August 2025**.

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

- ES.06. Environmental monitoring activities under the EM&A programme for the Contract in the Reporting Month are summarized in the following table.

Issues	Environmental Monitoring Parameters / Inspection	Sessions
Air Quality	24-Hour TSP	5
Inspection / Audit	ET Regular Environmental Site Inspection	4
	Joint site audit with <i>Project Manager’s</i> Delegate and IEC	1

ACTION AND LIMIT LEVELS EXCEEDANCE

- ES.07. In the Reporting Month, no air quality monitoring exceedance was recorded.

SITE INSPECTION

- ES.08. In the Reporting Month, joint site inspections to evaluate the site environmental performance had been carried out by the representatives of the PMD, ET and the Contractor on **6, 12, 21 and 26 August 2025**. Joint site inspection with PMD, ET, IEC and the Contractor was carried out on **21 August 2025**. No non-compliance was recorded during the site inspections.

ENVIRONMENTAL COMPLAINT

- ES.09. In the Reporting Month, no environmental complaint was received.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES.010. In the Reporting Month, no prosecution or notification of summons was received.

REPORTING CHANGE

ES.011. There is no reporting change made for this monthly report.

FUTURE KEY ISSUES

ES.012. Special attention should be paid on the potential construction dust impact since most of the construction sites are adjacent to Siu Ho Wan Sewage Treatment Works. The *Contractor* should fully implement the construction dust mitigation measures as appropriately.

ES.013. Due to wet season has approached, the Contractor was reminded that all effluent discharge shall fulfill the requirement of Discharge Licence under the Water Pollution Control Ordinance.

ES.014. All other mitigation measures recommended in the Implementation Schedule for Environmental Mitigation Measures of the EM&A Manual should be properly implemented and maintained as far as practicable.

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1 INTRODUCTION

1.1 PROJECT BACKGROUND

- 1.1.1 Water Supplies Department (WSD) is the Proponent of the Works Contract *7/WSD/21 – Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station* (hereinafter named as the “Works Contract”). The Project works predicted by WSD will be undertaken about 34 months. Layout plan of the Project is shown in *Appendix A*.
- 1.1.2 According to the Environmental Impact Assessment Ordinance (EIAO), the proposed Siu Ho Wan Water Treatment Works Extension is a Designated Project under Schedule 2, which shall be implemented under the Environmental Permit EP-207/2005/A (hereinafter called the “EP”). Besides, the works for Siu Ho Wan Raw Water Booster Pumping Station is a non-designated project which mentioned in Section 1.10 of Environmental Monitoring and Audit (EM&A) Manual.
- 1.1.3 The Works Contract construction activities mainly include:-
- Extension of the existing Siu Ho Wan WTW within the existing Siu Ho Wan WTW compound from a capacity of 150,000 m³/day to 300,000 m³/day
 - Uprating of the treated/fresh water pumping capacity in the existing Siu Ho Wan Raw Water and Fresh Water Pumping Station within the existing Siu Ho Wan WTW compound from a capacity of 150,000 m³/day to 300,000 m³/day
 - Construction of the proposed Siu Ho Wan Raw Water Booster Pumping Station and the laying of the associated water mains
- 1.1.4 On 20 March 2022, *China Road and Bridge Corporation* (hereinafter called the “Main Contractor”) awarded the Works Contracts *7/WSD/21*. According to EM&A Manual, only air quality monitoring is required to be conducted which related to the works area under Contracts *7/WSD/21* during construction phase of the SHW WTW Extension. Moreover, site inspection and audit is required under the EM&A program to ensure the recommended environmental mitigation measures are implemented properly and effective.
- 1.1.5 The Main-Contractor appointed Action-United Environmental Services & Consulting (AUES) as the Environmental Team of the Project (hereinafter referred as the “ET”) to implement air quality (baseline and impact) monitoring as well as associated duties in accordance with the EM&A Manual stipulation.
- 1.1.6 Some design changes of the Project have been identified after the EIA stage for betterment in the design development. Some of these changes requires supplementary environmental review to address their likely environmental impacts and to identify any additional mitigation measures required for compliance with the EIAO. Supplementary environmental review has been performed for the changes and the review results are presented in the “Review Report on Environmental Impact Assessment (Review Report on EIA)” prepared under “Agreement No. CE 82/2017 (WS)”. Having reviewed the Review Report on EIA, no changes to the environmental monitoring requirement in the EM&A Manual are proposed for the work of SHW WTW Extension.
- 1.1.7 According to the approved EM&A Manual, only air quality is required to be monitored during the construction phase of the Project. As part of the EM&A program, baseline monitoring is required to determine the ambient environmental conditions. Pursuant to the EM&A Manual, baseline environmental monitoring is required to be conducted prior to commencement of the construction works under the Project. Baseline air quality monitoring was conducted from *8 to 21 April 2022*. During the baseline monitoring period, no major construction activities under the Project was observed.
- 1.1.8 As advised by the Contractor, the major construction works under Works Contract was commenced on 24 May 2022. This is the *40th* Monthly EM&A Report presenting monitoring results and inspection finding for the Project for the reporting period from *1 to 31 August 2025*.

1.2 REPORT STRUCTURE

1.2.1 The Monthly EM&A Report is structured into the following sections:-

Section 1 Introduction

Section 2 Project Organization and Construction Progress

Section 3 Summary of Impact Monitoring Requirements

Section 4 Air Quality Monitoring

Section 5 Waste Management

Section 6 Site Inspections

Section 7 Environmental Complaints and Non-Compliances

Section 8 Implementation Status of Mitigation Measures

Section 9 Conclusions and Recommendations

2 PROJECT ORGANISATION AND CONSTRUCTION PROGRESS

2.1 PROJECT ORGANISATION

2.1.1 The project organization is shown in [Appendix B](#). The roles and responsibilities of the various parties involved in the EM&A process and the organizational structure of the organizations responsible for implementing the EM&A programme are outlined below.

Water Supplies Department (WSD)

2.1.2 WSD is the Project Proponent and the Permit Holder of the EP of the development of the Project and will assume overall responsibility for the project. An Independent Environmental Checker (IEC) shall be employed by WSD to audit the results of the EM&A works carried out by the ET.

Environmental Protection Department (EPD)

2.1.3 EPD is the statutory enforcement body for environmental protection matters in Hong Kong.

Project Manager's Delegate (PMD)

2.1.4 The *PMD* is responsible for overseeing the construction works and for ensuring that the works are undertaken by the *Contractor* in accordance with the specification and contract requirements. The duties and responsibilities of the *PMD* with respect to EM&A are:

- Supervise the *Contractor's* activities and ensure that the requirements in the EM&A Manual are fully complied with;
- Inform the *Contractor* when action is required to reduce impacts in accordance with the Event and Action Plans;
- Comply with the agreed Event Contingency Plan in the event of any exceedance.

The Contractor

2.1.5 The Main *Contractor* is responsible perform construction works and for ensuring that the works are undertaken compliance with the specification and contract requirements. The duties and responsibilities of the Main *Contractor* with respect to EM&A are:

- Employ an ET to undertake monitoring, laboratory analysis and reporting of environmental monitoring and audit;
- Provide information / advice to the ET regarding works activities which may contribute, or be continuing to the generation of adverse environmental conditions;
- Submit proposals on mitigation measures in case of exceedances of Action and Limit levels in accordance with the Event and Action Plans;
- Implement measures to reduce impact whenever Action and Limit levels are exceeded;
- Implement the corrective actions instructed by *PMD*;
- Accompany joint site audit undertaken by the ET; and
- Adhere to the procedures for carrying out complaint investigation.

Environmental Team (ET)

2.1.6 The ET is responsible perform implementation EM&A programmes of the Contract Works as stipulated in the Updated EM&A Manual ensure the works are fully compliance with environmental regulations. The duties and responsibilities of the ET with respect to EM&A are:

- Set up all the required environmental monitoring stations;
- Monitor various environmental parameters as required in the EM&A Manual;
- Analyze the EM&A data and review the success of EM&A programme to cost effectively confirm the adequacy of mitigation measures implemented and the validity of the EIA predictions and to identify any adverse environmental impacts arising;
- Carry out site inspection to investigate and audit the *Contractor's* site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and take proactive actions to pre-empt problems;
- Audit and prepare audit reports on the environmental monitoring data and site environmental conditions;

- Report on the EM&A results to the IEC, *Contractor*, the *PMD* and EPD or its delegated representative;
- Recommend suitable mitigation measures to the *Contractor* in the case of exceedance of Action and Limit levels in accordance with the Event and Action Plans;
- Undertake regular and ad-hoc on-site audits / inspections and report to the *Contractor* and the ER of any potential non-compliance; and
- Follow up and close out non-compliance actions.

Independent Environmental Checker (IEC)

2.1.7 The duties and responsibilities of IEC with respect to EM&A are:

- Review the EM&A works performed by the ET (at not less than monthly intervals);
- Audit the monitoring activities and results (at not less than monthly intervals);
- Report the audit results to the *PMD* and EPD in parallel;
- Review the EM&A reports (monthly summary reports) submitted by the ET;
- Review the proposal on mitigation measures submitted by the *Contractor* in accordance with the Event and Action Plans;
- Check the mitigation measures submitted by the *Contractor* in accordance with the Event and Action Plans;
- Check the mitigation measures that have been recommended in the EIA and this Manual, and ensure they are properly implemented in a timely manner, when necessary;
- Report the findings of site inspections and other environmental performance reviews to *PMD* and EPD;
- Coordinate the monitoring and auditing works for all the on-going contracts in the area in order to identify possible sources / causes of exceedances and recommend suitable remedial actions where appropriate; and
- Coordinate the assessment and response to complaints / enquires from locals, green groups, district councils or the public at large.

2.2 CONSTRUCTION PROGRESS

2.2.1 The major construction activities conducted under the Contract in the Reporting Period are listed below. The 3-month rolling construction programme is shown in [Appendix C](#).

- Internal ABWF and E&M works were in progress at portion BPS-1
- External ABWF works were in progress at portion BPS-1
- Construction of drainage system at portion BPS-1
- Installation of DfMA slab up to +50.5mPD at portion WTW-1
- Construction of roof up to +50.5mPD at portion WTW-1
- Internal ABWF works was in progress at portion WTW-1
- Internal and external ABWF works was in progress at portion WTW-2

2.3 SUMMARY OF ENVIRONMENTAL PERMITS AND LICENCES

2.3.1 Summary of the relevant permits, licences, and/or notifications on environmental protection for the Project are presented in *Table 2-1*.

Table 2-1 Status of Environmental Licences and Permits of the Contract

Item	Description	Licence/Permit Status			
		Reference No./ License No./ Account No.	Approval Date	Expiry Date	Status
1	Environmental Permit	EP-207/2005/A	NA	NA	Valid
2	Air Pollution Control (Construction Dust) Regulation	Ref: 477913	23 Mar 2022	N/A	Valid
3	Waste Disposal Regulation – Billing Account for Disposal of Construction Waste	EPD Ref. No: RS02509 Acc. No.: 7043631	08 Apr 2022	N/A	Valid
4	Chemical Waste Producer Registration	5213-961-C4701-01	31 May 2023	N/A	Valid
5	Water Pollution Control Ordinance – Discharge Licence	WT00041885-2022	8 Sep 2022	30 Sep 2027	Valid
6	Construction Noise Permit	GW-RS0271-25	1 Apr 2025	30 Sep 2025	Valid

3 SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 GENERAL

- 3.1.1 Only air quality monitoring is required to carry out related to Works contracts *7/WSD/21* during the construction phase to ensure the dust mitigation measures and performance properly implementation.
- 3.1.2 The other environmental monitoring for Works Area of Pui O was related to other Works Contracts and will be implemented by other appointed ET.
- 3.1.3 According to the Review Report on EIA, no changes to the environmental monitoring requirement in the EM&A Manual are proposed for the work of SHW WTW Extension. Air quality monitoring work will be implemented according to the EM&A Manual.

3.2 MONITORING PARAMETERS

- 3.2.1 The EM&A program of construction phase monitoring shall cover the following environmental issues:
- Air quality;
- 3.2.2 A summary of impact monitoring parameters is presented in *Table 3-1*:

Table 3-1 Summary of Monitoring Parameters

Environmental Issue	Parameters
Air Quality	1-hour TSP by Real-Time Portable Dust Meter(as required in case of complaints); and 24-hour TSP by High Volume Air Sampler.

3.3 MONITORING LOCATIONS

- 3.3.1 According to the Review Report on EIA, air quality monitoring work should be implemented according to the EM&A Manual. As stated in Section 4 of EM&A Manual, there was only one air quality monitoring station designated under SHW WTW Extension. The air quality monitoring locations is listed in *Table 3-2*.

Table 3-2 Designated Air Quality Monitoring Stations

Monitoring Station Identification No	Location
SHWAB	Siu Ho Wan WTW Administration Building

3.4 MONITORING FREQUENCY AND PERIOD

- 3.4.1 The requirements of impact monitoring are stipulated in *Sections 2.1.9* of the approved EM&A Manual and presented as follows.

Air Quality Monitoring

- 3.4.2 Frequency of impact air quality monitoring is as follows:
- 1-hour TSP 3 times every six days (as required in case of complaints)
 - 24-hour TSP Once every 6 days during course of works.

3.5 MONITORING EQUIPMENT

Air Quality Monitoring

- 3.5.1 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the *Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B*. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to approve.
- 3.5.2 The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.

3.5.3 All equipment to be used for air quality monitoring are listed in below table.

Table 3-3 Air Quality Monitoring Equipment

Equipment	Model
24-Hr TSP	
High Volume Air Sampler	TISCH High Volume Air Sampler, HVS Model TE-5170*
Calibration Kit	TISCH Model TE-5025A*
1-Hour TSP	
Portable Dust Meter	Sibata LD-3B Laser Dust monitor Particle Mass Profiler & Counter / SidePak™ Personal Aerosol Monitor AM510

* Instrument was used in the Reporting Period and the calibration certificate could be referred in Appendix E.

3.6 MONITORING PROCEDURES

1-hour TSP

3.6.1 Operation of the 1-hour TSP meter will follow manufacturer's Operation and Service Manual.

3.6.2 The 1-hour TSP monitor, brand named "Sibata LD-3B Laser Dust monitor Particle Mass Profiler & Counter" is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 900 light scattering. The 1-hour TSP monitor consists of the following:

- A pump to draw sample aerosol through the optic chamber where TSP is measured;
- A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
- A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

3.6.3 The 1-hour TSP meter to be used will be within the valid period, calibrated by the manufacturer prior to purchasing. Span check and BG of the instrument will be performed before each monitoring event. A valid calibration certificate is attached in [Appendix E](#).

24-hour TSP

3.6.4 The equipment used for 24-hour TSP measurement is the High Volume Sampler (hereinafter the "HVS") brand named TISCH, Model TE-5170 TSP High Volume Air Sampler, which complied with *EPA Code of Federal Regulation, Appendix B to Part 50*. The HVS consists of the following:

- An anodized aluminum shelter;
- A 8"x10" stainless steel filter holder;
- A blower motor assembly;
- A continuous flow/pressure recorder;
- A motor speed-voltage control/elapsed time indicator;
- A 7-day mechanical timer, and
- A power supply of 220v/50 Hz

3.6.5 For HVS for 24-hour TSP monitoring, the HVS is mounted in a metallic cage with a top for protection and also it is sat on the existing ground or the roof of building. The flow rate of the HVS between 0.6m³/min and 1.7m³/min will be properly set in accordance with the manufacturer's instruction to within the range recommended in *EPA Code of Federal Regulation, Appendix B to Part 50*. Glass Fiber Filter 8" x 10" of TE-653 will be used for 24-Hour TSP monitoring and would be supplied by laboratory. The general procedures of sampling are described as below:-

- A horizontal platform with appropriate support to secure the samples against gusty wind should be provided;
- Installed with elapsed-time meter with ± 2 minutes accuracy for 24 hours operation;

- Equipped with a timing/control device with ± 5 minutes accuracy for 24 hours operation;
- With flow control accuracy for $\pm 2.5\%$ deviation over 24-hour sampling period;
- No two samplers should be placed less than 2 meters apart;
- The distance between the sampler and an obstacle, such as building, must be at least twice the height that the obstacle protrudes above the sample;
- A minimum of 2 meters of separation from any supporting structure, measured horizontally is required;
- Before placing any filter media at the HVS, the power supply will be checked to ensure the sampler work properly;
- The filter paper will be set to align on the screen of HVS to ensure that the gasket formed an air tight seal on the outer edges of the filter. Then filter holder frame will be tightened to the filter hold with swing bolts. The holding pressure should be sufficient to avoid air leakage at the edge.
- The mechanical timer will be set for a sampling period of 24 hours (00:00 mid-night to 00:00 mid-night next day). Information will be recorded on the field data sheet, which would be included the sampling data, starting time, the weather condition at current and the filter paper ID with the initial weight;
- After sampling, the filter paper will be collected and transfer from the filter holder of the HVS to a sealed envelope and sent to a local HOKLAS accredited laboratory for quantifying.

3.6.6 All the sampled 24-hour TSP filters will be kept in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal.

3.6.7 The HVS used for 24-hour TSP monitoring will be calibrated before the commencement for sampling, and after in two months interval with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5025A) to establish a relationship between the follow recorder meter reading in cfm (cubic feet per minute) and the standard flow rate, Qstd, in m³/min. Motor brushes of HVS will be regularly replaced of about five hundred hours per time. Valid certificates of the calibration kit and HVS are attached in [Appendix E](#).

3.7 DERIVATION OF ACTION/LIMIT (A/L) LEVELS

3.7.1 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. According to the approved Environmental Monitoring and Audit Manual, the air quality criteria were set up, namely Action and Limit levels are listed in **Tables 3-4**.

Table 3-4 Action and Limit Levels of Air Quality

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)		Limit Level ($\mu\text{g}/\text{m}^3$)	
	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
SHWAB	291	170	500	260

3.8 METEOROLOGICAL INFORMATION

3.8.1 The meteorological information including wind direction, wind speed, humidity, rainfall, air pressure and temperature is extracted from the Chek Lap Kok Station. Meteorological data are attached in [Appendix J](#).

3.9 DATA MANAGEMENT AND DATA QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

3.9.1 All monitoring data were handled by the ET's in-house data recording and management system.

3.9.2 The monitoring data recorded in the equipment were downloaded directly from the equipment at each monitoring day or after completion of baseline measurement. The downloaded monitoring data were input into a computerized database properly maintained by the ET. The laboratory results were input directly into the computerized database and checked by personnel other than those who input the data.

3.9.3 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.

4 AIR QUALITY MONITORING

4.1 GENERAL

4.1.1 The air quality monitoring schedule is presented in [Appendix G](#) and the monitoring results are summarised in the following sub-sections.

4.1.2 In the reporting Period, no air quality complaint was received, thus no 1-hour TSP monitoring required to conduct according to **Section 2.19** of the approved EM&A Manual.

4.2 AIR MONITORING RESULTS

4.2.1 In the Reporting Period, a total of **5** events 24-hour TSP monitoring were carried out and the monitoring results are summarized in **Table 4-1**. The detailed 24-hour monitoring data are presented in [Appendix H](#) and the relevant graphical plots are shown in [Appendix I](#).

Table 4-1 Summary of 24-hour TSP Monitoring Result – SHWAB

24-hour TSP ($\mu\text{g}/\text{m}^3$)	
Date	Meas. Result
4-Aug-25	26
9-Aug-25	36
15-Aug-25	26
21-Aug-25	28
27-Aug-25	28
Average (Range)	29 (26 – 36)

4.2.2 As shown in **Tables 4-1**, all the 24-hour TSP monitoring results were below the Action/Limit Levels. No Notification of Exceedance (NOE) was issued in this Reporting Period.

4.2.3 The meteorological data during the impact monitoring days are summarized in [Appendix J](#).

5 WASTE MANAGEMENT

5.1 GENERAL WASTE MANAGEMENT

5.1.1 Waste management was carried out in accordance with the Waste Management Section in the Environmental Management Plan for the Contract.

5.2 RECORDS OF WASTE QUANTITIES

5.2.1 All types of waste arising from the construction works are broadly classified into the following:

- Insert construction and demolition (C&D) material; and
- C&D waste.

5.2.2 The quantities of waste for disposal in this Reporting Month under the Contract are summarised in **Tables 5-1** and **5-2** and the Waste Flow Table as shown in **Appendix K**. Whenever possible, materials were reused on-site as far as practicable.

Table 5-1 Summary of Quantities of Inert C&D Materials for the Contract

Type	Quantity in Reporting Month	Disposal / Dumping Ground
Reused in this Contract (Inert) (in T)	0	NA
Reused in other Contracts/ Projects (Inert) (in T)	0	NA
Disposal as Public Fill (Inert) (in T)	163.750	TM 38

Table 5-2 Summary of Quantities of C&D Wastes for the Contract

Type	Quantity in Reporting Month	Disposal / Dumping Ground
Recycled Metal ('000kg)	0.030	NA
Recycled Paper / Cardboard Packing ('000kg)	0.261	NA
Recycled Plastic ('000kg)	0.025	NA
Chemical Wastes ('000kg)	0	NA
General Refuses (in T)	64.910	NENT

6 SITE INSPECTIONS

6.1 REQUIREMENTS

- 6.1.1 According to the EM&A Manual, the programme of environmental site inspection shall be formulated by ET Leader. Weekly environmental site inspections were carried out to confirm the environmental performance.

6.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

- 6.2.1 In the Reporting Month, joint site inspections to evaluate the site environmental performance were carried out by the representatives of the PMD, ET and the Contractor on **6, 12, 21 and 26 August 2025**. Joint site inspection with PMD, ET, IEC and the Contractor was carried out on **21 August 2025**. No non-compliance was recorded.

- 6.2.2 The findings / deficiencies observed during the weekly site inspections are listed in **Table 6-1**.

Table 6-1 Site Observations for the Contract

Date	Findings / Deficiencies	Follow-Up Status
6 August 2025	- C&D waste was cumulated at BPS, the Contractor should dispose properly to enhance house-keeping. - Faded NRMM label was observed at BPS, the Contractor should replace for excavator. - The Contractor was reminded to provide covered rubbish bins for storage of domestic waste to enhance house-keeping. - The Contractor was reminded to cover sandy stockpile with tarpaulin sheet to prevent mud runoff during rainfall. - The Contractor was reminded to remove stagnant water to prevent mosquito breeding after rainstorm.	- The C&D waste was removed. - New NRMM label was displayed. - Reminder only. - Reminder only. - Reminder only.
12 August 2025	The Contractor was reminded to cover stockpile properly to minimise dust generation.	Reminder only.
21 August 2025	- Stagnant water was observed at WTB Basement, the Contractor should remove regularly to prevent mosquito breeding. - The Contractor was reminded to place chemical containers to designated storage area.	- Stagnant water was removed. - Reminder only.
26 August 2025	The Contractor was reminded to spray water at haul road to minimise dust generation. (BPS)	Reminder only.

7 ENVIRONMENTAL COMPLAINTS AND NON-COMPLIANCES

7.1 ENVIRONMENTAL COMPLAINTS, SUMMONS AND PROSECUTIONS

- 7.1.1 There was no environmental complaint, prosecution or notification of summons received in the Reporting Month.
- 7.1.2 The statistical summary table of the environmental complaints, summons and prosecution are presented in **Tables 7-1, 7-2 and 7-3**. Detailed complaint log for the Contract is presented in **Appendix L**.

Table 7-1 Statistical Summary of Environmental Complaints

Reporting Month	Environmental Complaint Statistics		
	Frequency	Cumulative	Project related complaint
24 May 2022 to 31 July 2025	0	0	0
1 to 31 August 2025	0	0	0

Table 7-2 Statistical Summary of Environmental Summons

Reporting Month	Environmental Summons Statistics		
	Frequency	Cumulative	Project related summons
24 May 2022 to 31 July 2025	0	0	0
1 to 31 August 2025	0	0	0

Table 7-3 Statistical Summary of Environmental Prosecution

Reporting Month	Environmental Prosecution Statistics		
	Frequency	Cumulative	Project related prosecution
24 May 2022 to 31 July 2025	0	0	0
1 to 31 August 2025	0	0	0

8 IMPLEMENTATION STATUS OF MITIGATION MEASURES

8.1 GENERAL REQUIREMENTS

- 8.1.1 The environmental mitigation measures recommended in the ISEMM in the EM&A Manual covered the issues of dust, noise, water, waste, land contamination and ecology and they are summarised and presented in [Appendix M](#).
- 8.1.2 The Contract works under the Project shall be implementing the required environmental mitigation measures according to the EM&A Manual as subject to the site conditions. Environmental mitigation measures generally implemented by the Contract and the implementation status are shown in [Appendix M](#).

8.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

- 8.2.1 According to the information provided by the *Contractor*, the major construction activities under the Contract in the coming month are listed below:
- Construction of HV/LV cable duct from OLB to WTB
 - Interior finishing works at level +19.8mPD and +25.0mPD at portion WTW-1
 - Water testing on SRGF tank at portion WTW-1
 - Exterior and interior finishing works at portion WTW-2
 - Exterior finishing works at portion BPS-1
 - Trench excavation for RWM-2 DN1200 pipe at portion BPS-1
 - Excavation of ELS for RWM-3 DN1200 pipe at portion WTW-7
 - Construction of HV/LV cable ducts, draw pits and drainage system at portion BPS-1

8.3 KEY ISSUES FOR THE COMING MONTH

- 8.3.1 Special attention should be paid on the potential construction dust impact since most of the construction sites are adjacent to Siu Ho Wan Sewage Treatment Works. The *Contractor* should fully implement the construction dust mitigation measures as appropriately.
- 8.3.2 Due to wet season has approached, the Contractor was reminded that all effluent discharge shall fulfill the requirement of Discharge Licence under the Water Pollution Control Ordinance.
- 8.3.3 All other mitigation measures recommended in the Implementation Schedule for Environmental Mitigation Measures of the EM&A Manual should be properly implemented and maintained as far as practicable.

9 CONCLUSIONS AND RECOMMENDATIONS

9.1 CONCLUSIONS

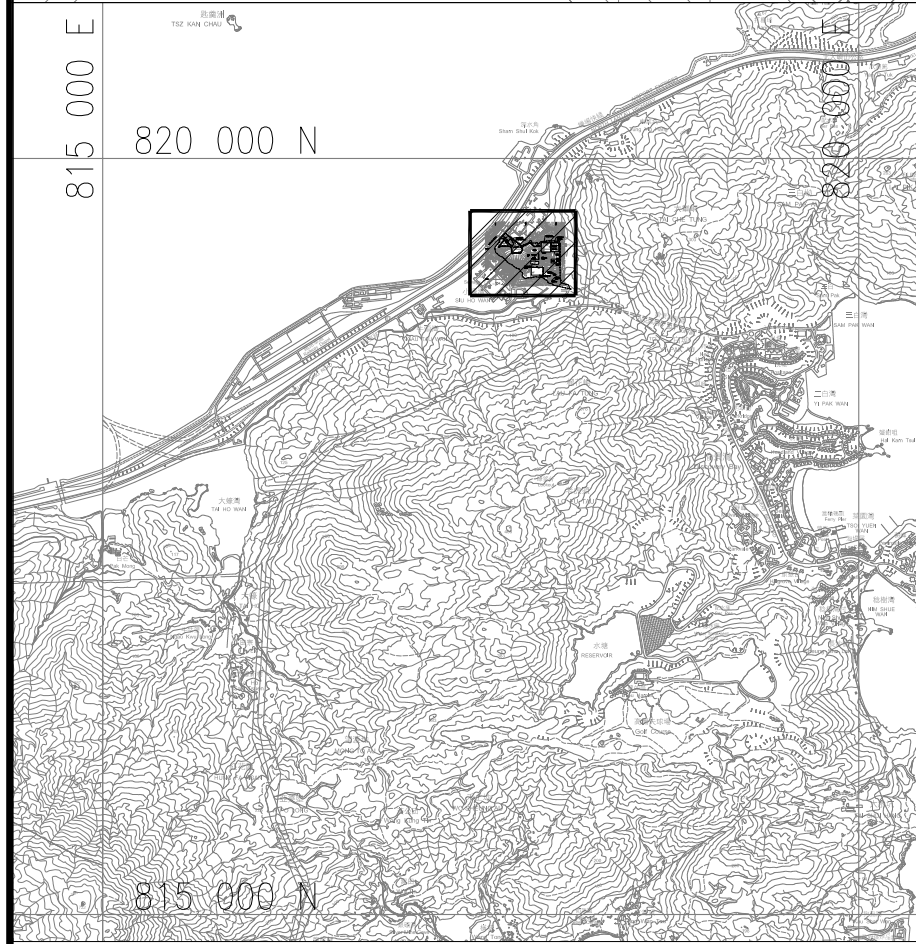
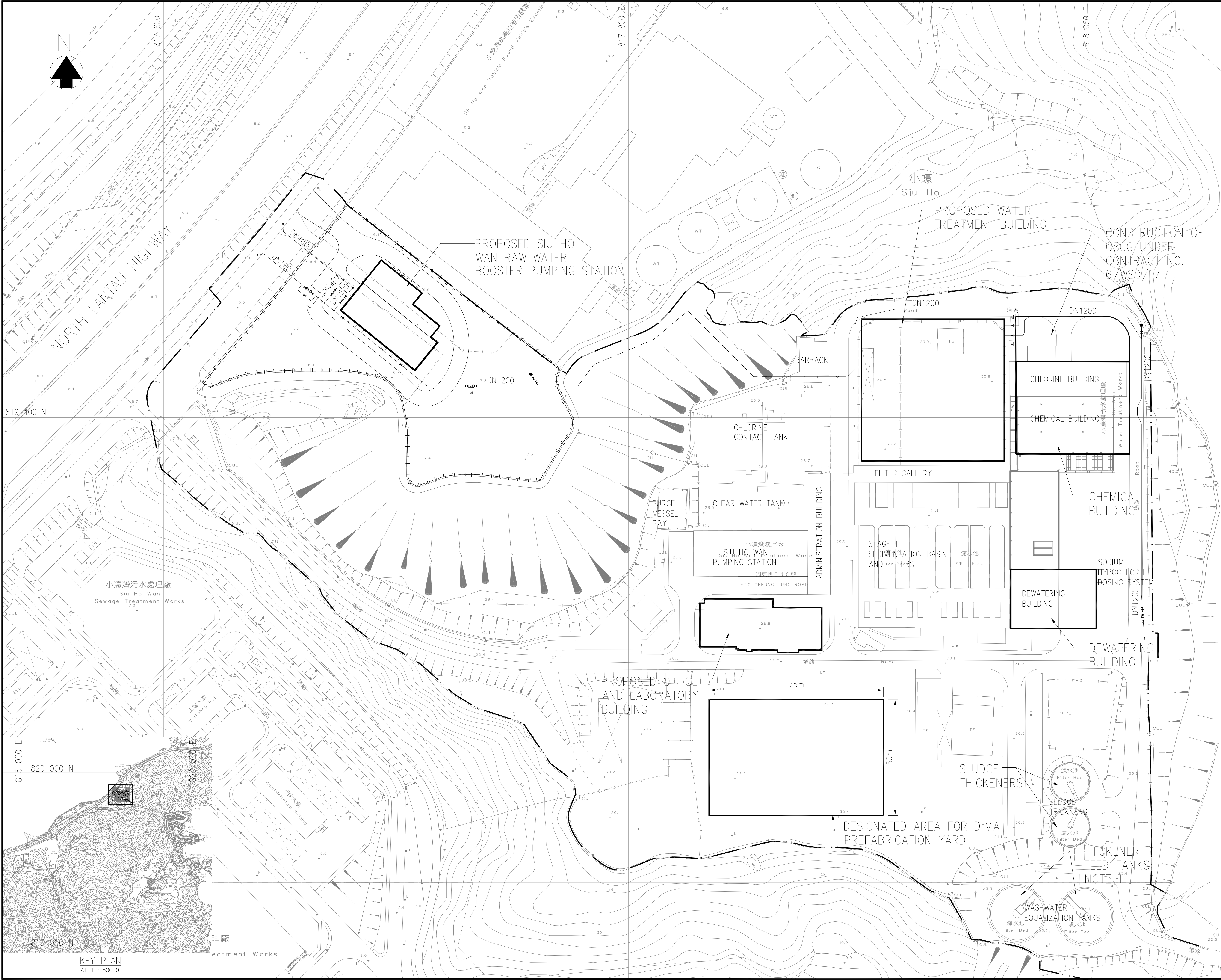
- 9.1.1 As advised by the *Contractor*, the major construction works under Works Contract was commenced on 24 May 2022. This is the **40th** Monthly EM&A Report presenting monitoring results and inspection finding for the Project for the reporting period from **1 to 31 August 2025**.
- 9.1.2 In the Reporting Month, no 24-hour TSP monitoring results triggered the Action/Limit level was recorded. No NOE or the associated corrective actions were therefore issued.
- 9.1.3 In the Reporting Month, joint site inspections to evaluate the site environmental performance had been carried out by the representatives of the *PMD*, *ET* and the *Contractor* on **6, 12, 21 and 26 August 2025**. Joint site inspection with *PMD*, *ET*, *IEC* and the *Contractor* was carried out on **21 August 2025**. No non-compliance was recorded during the site inspections.
- 9.1.4 In the Reporting Month, no environmental complaint, prosecution or notification of summons was received. In addition, no emergency event related to violation of environmental legislation for illegal dumping and landfilling was received.

9.2 RECOMMENDATIONS

- 9.2.1 Special attention should be paid on the potential construction dust impact since most of the construction sites are adjacent to Siu Ho Wan Sewage Treatment Works. The *Contractor* should fully implement the construction dust mitigation measures as appropriately.
- 9.2.2 Due to wet season had approached, the *Contractor* was reminded that all effluent discharge shall fulfill the requirement of Discharge Licence under the Water Pollution Control Ordinance.
- 9.2.3 All other mitigation measures recommended in the Implementation Schedule for Environmental Mitigation Measures of the EM&A Manual should be properly implemented and maintained as far as practicable.

Appendix A

Layout Plan of the Project



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LEGEND:

- SITE BOUNDARY
- PROPOSED RAW WATER MAINS (BURIED)
- PROPOSED RAW WATER MAINS (EXPOSED)
- PROPOSED FENCING
- PROPOSED BUILDING WORKS

NOTE 1:
THE EXISTING WASHWATER EQUALIZATION TANKS TO BE RENAMED AS "THICKENER FEED TANKS"

0	05/21	ISSUE FOR TENDER DRAWING			JC
Revision	Date	Description			Initial
		Designed	Checked	Drawn	Checked
Initial		CT/CCK	YFC/AS	SZ	JC
Date	05/21	05/21	05/21	05/21	05/21

Approved

James Chan

Contract No.

7/WSD/21

Contract Title

CONSTRUCTION OF SIU HO WAN WATER TREATMENT WORKS EXTENSION AND SIU HO WAN RAW WATER BOOSTER PUMPING STATION

Drawing Title

SITE LOCATION

Drawing No.	Revision
199755A/B&V/GN/00001	0

Scale

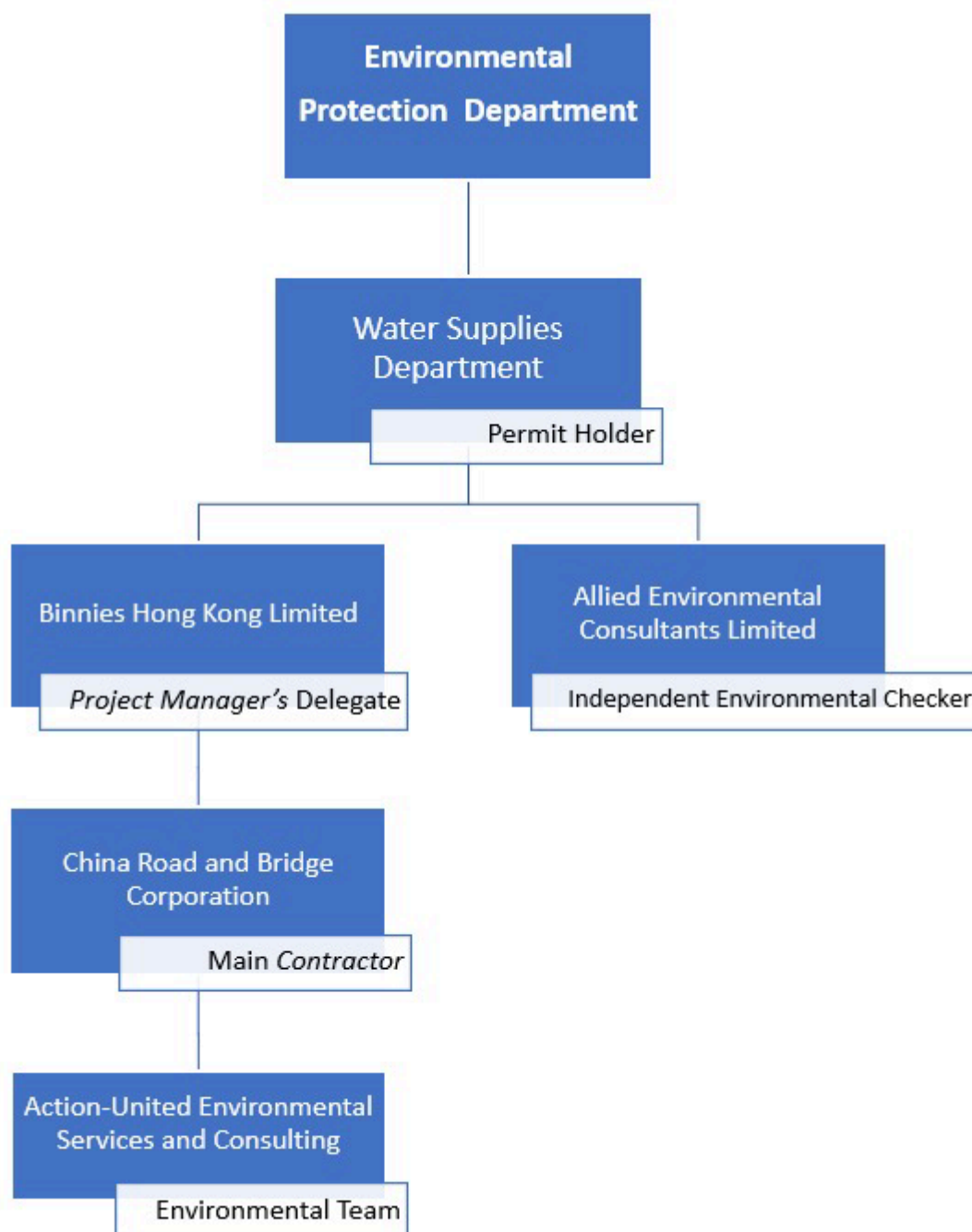
A1 1 : 750
A3 1 : 1500

水務署
Water Supplies
Department

binnies
BINNIES HONG KONG LIMITED
賓尼斯工程顧問有限公司

Appendix B

Project Organization



Contact Details of Key Personnel

Organisation	Project Role	Position	Name	Tel No.
Binnies Hong Kong Limited	<i>Project Manager's Delegate</i>	Chief Resident Engineer	Mr. Gilbert Ying	6343 1027
		Senior Resident Engineer	Mr. Raymond Kok	9037 1280
		Resident Engineer	Mr. Michael Ng	9198 7268
		Assistant Resident Engineer	Mr. Joshua Tam	9769 8786
China Road and Bridge Corporation	<i>Contractor</i>	Site Agent	Mr. Eros To	9224 0114
		Environmental Manager	Mr. Dennis Ho	5645 0563
		Environmental Officer	Mr. KF So	6273 1608
		Environmental Supervisor	Mr. Henry Cheung	5988 6488
Allied Environmental Consultants Limited	Independent Environmental Checker	Principle Consultant	Ms. Joanne Ng	2815 7028
Action-United Environmental Services and Consulting	Environmental Team	Environmental Team Leader	Mr. Tam Tak Wing	2959 6059
		Environmental Consultant	Mr. Ben Tam	2959 6059
		Environmental Consultant	Ms. Nicola Hon	2959 6059

Appendix C

3-month Rolling Construction Programme

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
Construction of Siu Ho Wan Water Treatment Works Extension & Raw Water Booster Pumping Station		1624.0d	396.0d	21-Mar-22 A	30-Aug-26	21-Mar-22		-183.0d	75.62%						
Section of the Works (Revised Completion Date)		26.0d	26.0d	04-Sep-25	30-Sep-25			0.0d	0%	Section of the Works (Revised Completion Date)					
SEW1160	Section 2- Installation and modification works for Water Treatment Building,Office and Laboratory,Chemical building,etc	0.0d	0.0d		04-Sep-25*			0.0d	0%	Section 2- Installation and modification works for Water Treatment Building,Office and Laboratory,Chemical building,etc					
SEW1170	Section 3- E&M installation works for Siu Ho Wan Raw Water Booster Pumping Station, road works and remaining works	0.0d	0.0d		04-Sep-25*			0.0d	0%	Section 3- E&M installation works for Siu Ho Wan Raw Water Booster Pumping Station, road works and remaining works					
SEW1190	Section 4- Landscape softworks and establishment works	0.0d	0.0d		30-Sep-25*			0.0d	0%	Section 4- Landscape softworks and establishment works					
Section of the Works (Planned Completion Date)		0.0d	0.0d	30-Aug-25	30-Aug-25			-183.0d	0%	Section of the Works (Planned Completion Date)					
SEW1040	Section 1- Construction of Water Treatment Building, Siu Ho Wan Raw Water Booster Pumping Station,Office and Laboratory	0.0d	0.0d		30-Aug-25			-183.0d	0%	Section 1- Construction of Water Treatment Building, Siu Ho Wan Raw Water Booster Pumping Station,Office and Laboratory					
Defect Date for Each Section of the Works		579.0d	396.0d	29-Jan-25 A	30-Aug-26	29-Jan-25		-183.0d	31.61%						
SEW1100	Section 1- Construction of Water Treatment Building, Siu Ho Wan Raw Water Booster Pumping Station,Office and Laboratory	365.0d	365.0d	31-Aug-25	30-Aug-26*			-183.0d	0%						
SEW1140	Section 3A-Entrustment Works	365.0d	213.0d	29-Jan-25 A	28-Feb-26*	29-Jan-25		-31.0d	41.64%						
Preliminaries, Contractor's Design,Method Statement Submission and Approval		1453.0d	300.0d	21-Mar-22 A	26-May-26	21-Mar-22		-184.0d	79.35%						
Contractor's Design Submission and Approval		1231.0d	74.0d	21-Mar-22 A	12-Oct-25	21-Mar-22		-51.0d	93.99%	Contractor's Design Submission and Approval					
Major Permanent Works Design		1231.0d	74.0d	21-Mar-22 A	12-Oct-25	21-Mar-22		-51.0d	93.99%	Major Permanent Works Design					
MDD3020	Design for Ozone Equipment	180.0d	30.0d	28-Mar-22 A	29-Aug-25	28-Mar-22		-130.0d	83.33%						
MDD3025	Comments and approval of Design for Ozone Equipment	14.0d	14.0d	30-Aug-25	12-Sep-25			-130.0d	0%						
MDD3046.5	CR drawings submission for WTB	120.0d	30.0d	01-Aug-23 A	29-Aug-25	01-Aug-23		-246.0d	75%						
MDD3046.6	Comments and approval of CR drawings submission for WTB	14.0d	14.0d	30-Aug-25	12-Sep-25			-246.0d	0%						
MDD3065	Design for Manufacture and Assembly(DfMA) works for E&M works	210.0d	60.0d	16-May-22 A	28-Sep-25	16-May-22		-51.0d	71.43%						
MDD3070	Comments and approval of MiMEP design	14.0d	14.0d	29-Sep-25	12-Oct-25			-51.0d	0%						
MDD3080	Design for DAF Equipment	90.0d	30.0d	20-Mar-24 A	29-Aug-25	20-Mar-24		-340.0d	66.67%						
MDD3085	Comments and approval of design for DAF Equipment	60.0d	30.0d	31-Oct-22 A	29-Aug-25	31-Oct-22		-270.0d	50%						
MDD3120	Design for building services (including FSD submission)	90.0d	15.0d	23-May-22 A	14-Aug-25	23-May-22		-325.0d	83.33%						
MDD3125	Comments and approval of design for building services	14.0d	14.0d	15-Aug-25	28-Aug-25			-325.0d	0%						
MDD3126	Design for building services at the existing building	120.0d	14.0d	21-Mar-22 A	13-Aug-25	21-Mar-22		-111.0d	88.33%						
MDD3127	Comments and approval of design for building services	14.0d	14.0d	31-Jul-25	13-Aug-25			-111.0d	0%						
MDD3150	Design for WTB POCT & IOCT Equipment	90.0d	15.0d	31-Oct-22 A	14-Aug-25	31-Oct-22		-298.0d	83.33%						
MDD3155	Comments and approval of Design for WTB POCT & IOCT Equipment	28.0d	28.0d	15-Aug-25	11-Sep-25			-298.0d	0%						
MDD3160	Design for surge analysis system	90.0d	10.0d	31-Oct-22 A	09-Aug-25	31-Oct-22		-159.0d	88.89%						
MDD3165	Comments and approval of design for surge analysis system	15.0d	15.0d	10-Aug-25	24-Aug-25			-159.0d	0%						
MDD3200	Design for Chemical Plants Equipment	180.0d	15.0d	19-Jul-22 A	14-Aug-25	19-Jul-22		-295.0d	91.67%						
MDD3205	Comments and approval of design for Chemical Plants Equipment	30.0d	30.0d	22-Mar-23 A	29-Aug-25	22-Mar-23		-110.0d	0%						
MDD3320	Design for WTB Inlet Valve Chamber Equipment	90.0d	15.0d	18-Oct-22 A	14-Aug-25	18-Oct-22		-310.0d	83.33%						
MDD3325	Comments and approval of design for WTB Inlet Valve Chamber Equipment	30.0d	30.0d	15-Aug-25	13-Sep-25			-310.0d	0%						
MDD3340	Design for Sampling System	90.0d	20.0d	04-Jul-22 A	19-Aug-25	04-Jul-22		-203.0d	77.78%						
MDD3345	Comments and approval of design for Sampling System	14.0d	14.0d	20-Aug-25	02-Sep-25			-203.0d	0%						
MDD3360	Design for Service Water Equipment	90.0d	10.0d	05-Dec-22 A	09-Aug-25	05-Dec-22		-200.0d	88.89%						
MDD3365	Comments and approval of design for Service Water Equipment	15.0d	15.0d	10-Aug-25	24-Aug-25			-200.0d	0%						
MDD3380	Design for Lamella & Supernatant Plant	90.0d	15.0d	11-Oct-22 A	14-Aug-25	11-Oct-22		-267.0d	83.33%						



中國路橋
CRBC

Actual Work
Non-Critical Activity
Critical Activity
Milestone

Summary

Date	Revision	Checked	Approved
31-Jul-25	1	CLX	RM

3 Month Rolling Programme -
August 2025 to October 2025

(sheet 1 of 10)

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
MDD3385	Comments and approval of design for Lamella & Supernatant Plant	30.0d	30.0d	15-Aug-25	13-Sep-25			-267.0d	0%						
MDD3390	Design for Lifting Appliance	120.0d	15.0d	10-Jun-22 A	14-Aug-25	10-Jun-22		-214.0d	87.5%						
MDD3391	Comment and approval of Lifting Appliance	15.0d	15.0d	15-Aug-25	29-Aug-25			-214.0d	0%						
MDD3400	Design for Electrical system	120.0d	15.0d	05-Sep-22 A	14-Aug-25	05-Sep-22		-261.0d	87.5%						
MDD3405	Comments and approval of design for Electrical system	120.0d	40.0d	15-Sep-22 A	08-Sep-25	15-Sep-22		-286.0d	66.67%						
MDD3410	Design for DCS	90.0d	15.0d	08-Sep-22 A	14-Aug-25	08-Sep-22		-288.0d	83.33%						
MDD3415	Comments and approval of design for DCS	15.0d	15.0d	15-Aug-25	29-Aug-25			-288.0d	0%						
MDD3420	Design for near real-time Operation Simulation System	80.0d	15.0d	11-Jun-22 A	14-Aug-25	11-Jun-22		-41.0d	81.25%						
MDD3425	Comments and approval of design for near real-time Operation Simulation System	30.0d	30.0d	15-Aug-25	13-Sep-25			-41.0d	0%						
MDD3440	Design Furniture and Testing Equipment Arrangement at Office and Laboratory Building.	90.0d	15.0d	01-Feb-23 A	14-Aug-25	01-Feb-23		-176.0d	83.33%						
MDD3441	Comment and approval of Design Furniture and Testing Equipment Arrangement at OLB	60.0d	20.0d	17-Feb-23 A	03-Sep-25	17-Feb-23		-176.0d	66.67%						
MDD3450	Design Building and Energy,Management system , Extra Low Voltage system and Treatment Monitoring and Alert system	90.0d	15.0d	01-Feb-23 A	14-Aug-25	01-Feb-23		-350.0d	83.33%						
MDD3451	Comment and approval of Building and Energy,Management , Extra Low Voltage and Treatment Monitoring and Alert system	90.0d	35.0d	01-Feb-23 A	03-Sep-25	01-Feb-23		-350.0d	61.11%						
Material Submission		1261.0d	33.0d	21-Mar-22 A	01-Sep-25	21-Mar-22		-230.0d	97.38%						
MAT1030	Equipment Submission (E&M Equipment other than listed below)	210.0d	20.0d	05-May-22 A	19-Aug-25	05-May-22		-293.0d	90.48%						
MAT1040	Equipment Submission (Ozone System)	210.0d	15.0d	05-May-22 A	14-Aug-25	05-May-22		-231.0d	92.86%						
MAT1041	Comment and Approval of Equipment Submission (Ozone)	8.0d	8.0d	15-Aug-25	22-Aug-25			-231.0d	0%						
MAT1050	Equipment Submission (BACF)	210.0d	25.0d	21-Mar-22 A	24-Aug-25	21-Mar-22		-230.0d	88.1%						
MAT1051	Comment and Approval of Equipment Submission (BACF)	8.0d	8.0d	25-Aug-25	01-Sep-25			-230.0d	0%						
MAT1065	Equipment Submission (Lamella & Supernatant Plant)	210.0d	25.0d	05-May-22 A	24-Aug-25	05-May-22		-247.0d	88.1%						
MAT1066	Comment and Approval of Equipment Submission (Lamella& Supernatant Plant)	8.0d	8.0d	17-Aug-25	24-Aug-25			-247.0d	0%						
BIM Deliverables		1352.0d	300.0d	20-May-22 A	26-May-26	20-May-22		-184.0d	77.81%						
BIMD1010	Fully Coordinated BIM Models	600.0d	70.0d	22-Jun-22 A	08-Oct-25	22-Jun-22		-34.0d	88.33%						
BIMD1015	Shop drawings	700.0d	200.0d	22-Jun-22 A	15-Feb-26	22-Jun-22		-164.0d	71.43%						
BIMD1020	Combined Service Drawing (CSD) and Combined Builder's Works Drawings (CBWD)	365.0d	25.0d	24-May-22 A	24-Aug-25	24-May-22		-98.0d	93.15%						
BIMD1025	4D Modelling	700.0d	300.0d	20-May-22 A	26-May-26	20-May-22		-264.0d	57.14%						
BIMD1030	BIM Progress Reporting	800.0d	300.0d	21-Jun-22 A	26-May-26	21-Jun-22		-264.0d	62.5%						
BIMD1035	Clash report	447.0d	50.0d	31-Jul-22 A	18-Sep-25	31-Jul-22		-14.0d	88.81%						
BIMD1040	3D VR	500.0d	120.0d	30-Jun-22 A	27-Nov-25	30-Jun-22		-84.0d	76%						
BIMD1045	Existing condition modelling	447.0d	25.0d	21-Jun-22 A	24-Aug-25	21-Jun-22		91.0d	94.41%						
BIMD1050	3D digital survey	447.0d	30.0d	21-Jun-22 A	29-Aug-25	21-Jun-22		86.0d	93.29%						
BIMD1060	BIM Object	700.0d	300.0d	30-Jun-22 A	26-May-26	30-Jun-22		-264.0d	57.14%						
BIMD1100	Asset information requirements	45.0d	45.0d	31-Jul-25	13-Sep-25			-189.0d	0%						
BIMD1120	Diliverables for Asset Management	180.0d	180.0d	14-Sep-25	12-Mar-26			-189.0d	0%						
BIMD1140	Draft and final report	30.0d	30.0d	31-Jul-25	29-Aug-25			6.0d	0%						
BIMD1160	Digital fabrication	700.0d	300.0d	24-Oct-22 A	26-May-26	24-Oct-22		-264.0d	57.14%						
Subcontracting and Procurement		1327.0d	195.0d	28-Mar-22 A	10-Feb-26	28-Mar-22		-215.0d	85.31%						
E&M Equipment Procurement,FAT and Delivery		1327.0d	195.0d	28-Mar-22 A	10-Feb-26	28-Mar-22		-215.0d	85.31%						



Date	Revision	Checked	Approved
31-Jul-25	1	CLX	RM

3 Month Rolling Programme - August 2025 to October 2025

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
MTW1690	Approval of Equipment test plan	30.0d	55.0d	28-Mar-22 A	23-Sep-25	28-Mar-22		-240.0d	0%						
MTW1700	Procurement and delivery of Pipeworks, valves, EM flowmeters, instruments	150.0d	150.0d	14-Sep-25	10-Feb-26			-310.0d	0%						
MTW1710	Procurement and delivery of POCT mixers, penstocks, stoplogs, EM flowmeters, instruments	240.0d	120.0d	25-Jun-22 A	27-Nov-25	25-Jun-22		-235.0d	50%						
MTW1730	Procurement and delivery of Ozone destruction system, pipeworks, instruments, valves	300.0d	131.0d	28-Mar-22 A	08-Dec-25	28-Mar-22		-151.0d	56.33%						
MTW1740	Procurement and delivery of PSA sets, Ozone Generator sets, air vessels, cooling system, PSU	360.0d	109.0d	28-Mar-22 A	30-Dec-25	28-Mar-22		-231.0d	69.72%						
MTW1750	Procurement and delivery of POCT ozone gas valve trains, gas ejectors, sidestream pumps	300.0d	131.0d	25-Jun-22 A	08-Dec-25	25-Jun-22		-246.0d	56.33%						
MTW1760	Procurement and delivery of IOCT ozone gas valve trains, gas ejectors, sidestream pumps	150.0d	60.0d	25-Jun-22 A	11-Oct-25	25-Jun-22		-298.0d	60%						
MTW1770	Procurement and delivery of DAF including flocculators, scrapers, mixers, recycle pump, air supply system, etc.	180.0d	20.0d	27-Jun-22 A	28-Oct-25	27-Jun-22		-340.0d	88.89%						
MTW1780	Procurement and delivery of DAF drain pump, instrumentation, air dryer and weir box	160.0d	15.0d	27-Jun-22 A	20-Aug-25	27-Jun-22		-270.0d	90.63%						
MTW1810	Procurement and delivery of Sodium Phosphate Plant	280.0d	100.0d	26-Aug-22 A	07-Nov-25	26-Aug-22		-175.0d	64.29%						
MTW1820	Procurement and delivery of Ammonium Sulphate Plant	280.0d	100.0d	26-Aug-22 A	07-Nov-25	26-Aug-22		-175.0d	64.29%						
MTW1830	Procurement and delivery of Sodium Sulphite Plant	300.0d	100.0d	26-Aug-22 A	07-Nov-25	26-Aug-22		-180.0d	66.67%						
MTW1840	Procurement and delivery of Sampling system	91.0d	91.0d	20-Aug-25	18-Nov-25			-203.0d	0%						
MTW1850	Procurement and delivery of Service Water System	91.0d	91.0d	15-Aug-25	13-Nov-25			-200.0d	0%						
MTW1860	Procurement and delivery of Lamella & Supernatant Plant	160.0d	15.0d	10-Oct-22 A	13-Sep-25	10-Oct-22		-267.0d	90.63%						
MTW1865	Procurement and delivery of Lifting Appliance	210.0d	40.0d	25-Jun-22 A	08-Sep-25	25-Jun-22		-224.0d	80.95%						
MTW1870	Procurement and delivery of Transformers	270.0d	100.0d	04-Jan-23 A	07-Nov-25	04-Jan-23		-256.0d	62.96%						
MTW1890	Procurement and delivery of MCCs	120.0d	25.0d	10-Oct-23 A	24-Aug-25	10-Oct-23		-271.0d	79.17%						
MTW1900	Procurement and delivery of Other electrical equipment	180.0d	15.0d	01-May-23 A	14-Aug-25	01-May-23		-261.0d	91.67%						
MTW1910	Procurement and delivery of BS equipment (MVAC, FS, P&D, BS Electrical, CCTV, PA, PV Panels, genset)	120.0d	15.0d	02-Sep-24 A	14-Aug-25	02-Sep-24		-161.0d	87.5%						
MTW1930	Procurement and delivery of Lime system, Polymer System, Chlorine System	93.0d	93.0d	31-Jul-25	31-Oct-25			-306.0d	0%						
MTW1950	Procurement and delivery of Control Panels, HV switchboard	150.0d	91.0d	19-Sep-24 A	29-Oct-25	19-Sep-24		-337.0d	39.33%						
MTW1960	Procurement and delivery of DCS	100.0d	91.0d	01-May-23 A	29-Oct-25	01-May-23		-349.0d	9%						
MTW1970	Procurement and delivery of NOSS	100.0d	91.0d	21-Nov-22 A	29-Oct-25	21-Nov-22		-262.0d	9%						
MTW2170	Procurement and delivery of UPS	100.0d	91.0d	09-Sep-24 A	29-Oct-25	09-Sep-24		-349.0d	9%						
Method Statement Submission and Approval for Major Construction Works		113.0d	63.0d	11-Jun-25 A	01-Oct-25	11-Jun-25		-54.0d	44.25%						
MSS2290	Method statement submission for equipment installation for Dewatering Building	35.0d	35.0d	31-Jul-25	03-Sep-25			-54.0d	0%						
MSS2295	Method statement comments and approval for equipment installation for Dewatering Building	28.0d	28.0d	04-Sep-25	01-Oct-25			-54.0d	0%						
MSS2300	Method statement submission for testing and commissioning	60.0d	40.0d	11-Jun-25 A	08-Sep-25	11-Jun-25		-216.0d	33.33%						
MSS2310	Method statement comments and approval for testing and commissioning	28.0d	28.0d	04-Jul-25 A	27-Aug-25	04-Jul-25		-204.0d	0%						
MSS2405	Method statement comments and approval for landscape works, irrigation system	14.0d	14.0d	31-Jul-25	13-Aug-25			-102.0d	0%						
MSS2415	Method statement comments and approval for installation of vertical greening system	15.0d	15.0d	31-Jul-25	14-Aug-25			-252.0d	0%						
Precasting and Fabrication Works		5.0d	5.0d	16-Aug-25	20-Aug-25			-301.0d	0%						
PRE2220	DiMA delivery for WTB for +50.5mPD Slab	5.0d	5.0d	16-Aug-25	20-Aug-25			-301.0d	0%						
Section 1 of the Works		146.0d	31.0d	07-May-25 A	30-Aug-25	07-May-25		5.0d	78.77%						
Construction of Water Treatment Building		51.0d	27.0d	09-Jul-25 A	30-Aug-25	09-Jul-25		-200.0d	47.06%						
Construction of Substructure and Superstructure		51.0d	27.0d	09-Jul-25 A	30-Aug-25	09-Jul-25		-200.0d	47.06%						
Construction of Superstructure at Bay 1&3 from +32.5 to +50.5 mPD		46.0d	27.0d	09-Jul-25 A	30-Aug-25	09-Jul-25		-252.0d	41.3%						



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3 Month Rolling Programme - August 2025 to October 2025

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
S110555	Construction PSA room floor at +44.0mPD	15.0d	0.0d	09-Jul-25 A	25-Jul-25 A	09-Jul-25	25-Jul-25		100%						
S110556	Construction wall of PSA room floor from +44.0 to +49.5mPD	15.0d	12.0d	28-Jul-25 A	13-Aug-25	28-Jul-25		-252.0d	20%						
S110557	Construction roof floor slab +50.5mPD	15.0d	15.0d	14-Aug-25	30-Aug-25			-252.0d	0%						
Construction of Superstrucure at Bay 2&4 from +25.0 to +50.5 mPD		30.0d	27.0d	21-Jul-25 A	30-Aug-25	21-Jul-25		-200.0d	10%	Construction of Superstrucure at Bay 2&4 from +25.0 to +50.5 mPD					
S110602	Construction beam,wall &slab of roof floor +50.5mPD	30.0d	27.0d	21-Jul-25 A	30-Aug-25	21-Jul-25		-200.0d	10%						
Construction of Superstrucure at Bay 5&6 from +29.5 to +50.5 mPD		32.0d	27.0d	21-Jul-25 A	30-Aug-25	21-Jul-25		-252.0d	15.63%	Construction of Superstrucure at Bay 5&6 from +29.5 to +50.5 mPD					
S110525	Construction roof floor beam,wall and slab to +50.5mPD	32.0d	27.0d	21-Jul-25 A	30-Aug-25	21-Jul-25		-252.0d	15.63%						
Construction of Raw Water Booster Pumping Station Pipework and Modification		121.0d	25.0d	07-May-25 A	28-Aug-25	07-May-25		6.0d	79.34%	Construction of Raw Water Booster Pumping Station Pipework and Modification					
Raw Water Main Connections at Chenung Tung Road ((RWM-1) CHC 0 to 43.6 & (RWM-2) CHD0 to 100)		121.0d	25.0d	07-May-25 A	28-Aug-25	07-May-25		6.0d	79.34%	Raw Water Main Connections at Chenung Tung Road ((RWM-1) CHC 0 to 43.6 & (RWM-2) CHD0 to 100)					
Laying of Raw Water Main (RWM-2) CHD5 to 52&Chamber A		15.0d	15.0d	31-Jul-25	18-Aug-25			-137.0d	0%	Laying of Raw Water Main (RWM-2) CHD5 to 52&Chamber A					
S152230	Pressure Test	10.0d	10.0d	31-Jul-25	11-Aug-25			-137.0d	0%						
S152231	CCTV Inspection	5.0d	5.0d	12-Aug-25	16-Aug-25			-137.0d	0%						
S152261	Pre-handover to WSD	0.0d	0.0d	18-Aug-25				-137.0d	0%	◆ Pre-handover to WSD					
Raw Water Main Connections at Chenung Tung Road(CH0-5)		113.0d	25.0d	07-May-25 A	28-Aug-25	07-May-25		6.0d	77.88%	Raw Water Main Connections at Chenung Tung Road(CH0-5)					
Preparation works		113.0d	25.0d	07-May-25 A	28-Aug-25	07-May-25		6.0d	77.88%	Preparation works					
S151582.3	Application and Implementation of TTA at Cheung Tung Road(stage 4)	85.0d	25.0d	07-May-25 A	28-Aug-25	07-May-25		6.0d	70.59%						
S151583	ELS and Excavation for Pipe Trench to Expose the Pipe	70.0d	0.0d	07-May-25 A	26-Jul-25 A	07-May-25	26-Jul-25		100%						
S151584	Preparation of Pipe Fitter Connection	10.0d	0.0d	11-Jun-25 A	26-Jul-25 A	11-Jun-25	26-Jul-25		100%						
Laying RWM-1&RWM-2 (CH 0-5)		1.0d	0.0d	29-Jul-25 A	29-Jul-25 A	29-Jul-25	29-Jul-25		100%	▼ Laying RWM-1&RWM-2 (CH 0-5)					
S151181	Laying of RWM-2 CHD 0-5	1.0d	0.0d	29-Jul-25 A	29-Jul-25 A	29-Jul-25	29-Jul-25		100%						
S151182	Laying of RWM-1 CHC 0-3.5	1.0d	0.0d	29-Jul-25 A	29-Jul-25 A	29-Jul-25	29-Jul-25		100%						
Connection at Chenung Tung Road		6.0d	0.0d	29-Jul-25 A	31-Jul-25 A	29-Jul-25	31-Jul-25		100%	▼ Connection at Chenung Tung Road					
S151760	Water Connection to Existing RWM-1&RMW-2(CH0-5) (Water Main Suspension for Connection shall be at Wet Season Jun - Sep)	6.0d	0.0d	29-Jul-25 A	31-Jul-25 A	29-Jul-25	31-Jul-25		100%						
Laying of Raw Water Main (RWM-2) CHD 43.6 to 100 & Chamber B,C		96.0d	24.0d	15-May-25 A	27-Aug-25	15-May-25		-146.0d	75%	Laying of Raw Water Main (RWM-2) CHD 43.6 to 100 & Chamber B,C					
S151210	Laying of Raw water main(RWM-2) CHD 43.6 to 100	50.0d	15.0d	15-May-25 A	16-Aug-25	15-May-25		-142.0d	70%						
S151220	Construction of valve Chambers B&C (2nos)	60.0d	19.0d	15-May-25 A	21-Aug-25	15-May-25		-146.0d	68.33%						
S151230	Pressure test	5.0d	5.0d	22-Aug-25	27-Aug-25			-146.0d	0%						
Planned competion of Section 1		0.0d	0.0d	30-Aug-25	30-Aug-25			-183.0d	0%	▼ Planned competion of Section 1					
S110885	Planned completion of Section 1 of the Works	0.0d	0.0d		30-Aug-25			-183.0d	0%	◆ Planned completion of Section 1 of the Works					
Section 2 of the Works		1489.0d	359.0d	27-Jun-22 A	24-Jul-26	27-Jun-22		-323.0d	75.89%						
Water Treatment Building		1489.0d	359.0d	27-Jun-22 A	24-Jul-26	27-Jun-22		-344.0d	75.89%						
Ancillary Works		33.0d	33.0d	01-Sep-25	10-Oct-25			-200.0d	0%	Ancillary Works					
S110710	Construction of up roof at +53.5mPD	14.0d	14.0d	01-Sep-25	16-Sep-25			-200.0d	0%						
S110715	Construction of planter wall at +53.5mPD	10.0d	10.0d	13-Sep-25	24-Sep-25			-200.0d	0%						
S401790	Construction of plinths & doghouses at +53.5mPD	20.0d	20.0d	16-Sep-25	10-Oct-25			-200.0d	0%						
Architectural Works		207.0d	176.0d	07-May-25 A	22-Jan-26	07-May-25		-186.0d	14.98%						
S110740.2	Finishing works from+19.8mPD to +25.0mPD floor including water tightness test of water tanks	73.0d	55.0d	07-May-25 A	23-Sep-25	07-May-25		-372.0d	24.66%						
S110760.1	Finishing works from +23.0mPD up to +29.5mPD floor for Ozone Corridor	28.0d	15.0d	18-Jun-25 A	14-Aug-25	18-Jun-25		-382.0d	46.43%						



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- Actual Work
- Non-Critical Activity
- Critical Activity
- ◆

◆ Milestone

Summary

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3 Month Rolling Programme -
August 2025 to October 2025

(sheet 4 of 10)

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
S110760.2	Finishing works from +25.0mPD up to +29.5mPD floor for DAF Maintenance Hall	30.0d	20.0d	28-Jun-25 A	19-Aug-25	28-Jun-25		-175.0d	33.33%						
S110760.3	Finishing works from +23.0mPD up to +29.5mPD floor including water tightness test for IOCT	50.0d	50.0d	15-Aug-25	03-Oct-25			-382.0d	0%						
S110780	Finishing works from +25.0mPD up to +32.5mPD floor including water tightness test for SRGF	50.0d	50.0d	29-Aug-25	17-Oct-25			-315.0d	0%						
S110800	Finishing works from +29.5mPD up to +37mPD floor including water tightness test for BAC filter tanks	50.0d	50.0d	04-Oct-25	22-Nov-25			-373.0d	0%						
S110820	Finishing works from +32.5mPD to +44mPD floor including water tightness test for DAF tanks	50.0d	50.0d	15-Aug-25	03-Oct-25			-311.0d	0%						
S110840	Finishing works from +32.5mPD to +39.0mPD and water tightness test for inlet chamber and pre-ozone contact tank	45.0d	45.0d	31-Aug-25	14-Oct-25			-186.0d	0%						
S110860	Finishing to MCC Room(F.E.L.+37.0mPD)	33.0d	33.0d	10-Sep-25	12-Oct-25			-189.0d	0%						
S110880.1	Finishing works from +44.0mPD to +50.5mPD floor including PSA, Ozone Generator and Chemical Room	62.0d	62.0d	05-Oct-25	05-Dec-25			-220.0d	0%						
S110880.2	Finishing works from +44.0mPD to +50.5mPD for Transformer Room,LV Switch Room,Battery Room and PCL Room	46.0d	46.0d	25-Sep-25	09-Nov-25			-194.0d	0%						
S110881	Finishing works at roof floor +50.5mPD	82.0d	82.0d	15-Oct-25	04-Jan-26			-245.0d	0%						
S110882	Finishing works of external wall	70.0d	70.0d	27-Sep-25	05-Dec-25			-138.0d	0%						
S223170	Construction of planter on the roof	45.0d	45.0d	17-Sep-25	11-Nov-25			-122.0d	0%						
S223200	Installation of external facade	90.0d	90.0d	04-Oct-25	22-Jan-26			-176.0d	0%						
S223205	Installation of vertical greening system	80.0d	80.0d	17-Oct-25	22-Jan-26			-176.0d	0%						
S401415	Handover to E&M below +29mPD	0.0d	0.0d	04-Oct-25				-382.0d	0%						
S401420	Handover to E&M below +44mPD	0.0d	0.0d	04-Oct-25				-192.0d	0%						
Statutory Submission schedule		1224.0d	94.0d	27-Jun-22 A	01-Nov-25	27-Jun-22		-190.0d	92.32%						
GBP Submission and Approval		1202.0d	75.0d	29-Nov-24 A	13-Oct-25	29-Nov-24		-194.0d	93.76%						
S211991	Submission/Review/Approval by PM and FSD - 4th submission (To suit DG)	180.0d	45.0d	29-Nov-24 A	13-Sep-25	29-Nov-24		-194.0d	75%						
S212001	4th GBP Approval from FSD	30.0d	30.0d	14-Sep-25	13-Oct-25			-194.0d	0%						
DG Application and Approval		1224.0d	94.0d	27-Jun-22 A	01-Nov-25	27-Jun-22		-190.0d	92.32%						
S210060	DG (Ozone) installation approval - dwg & layout by FSD for WTB	680.0d	40.0d	27-Jun-22 A	08-Sep-25	27-Jun-22		-159.0d	94.12%						
S210065	Design works and re-submission to address FSD's Comment	100.0d	31.0d	10-Jul-24 A	30-Aug-25	10-Jul-24		-150.0d	69%						
S210080	DG application letter - DG store (Oxygen tank) for WTB	16.0d	16.0d	14-Oct-25	01-Nov-25			-156.0d	0%						
E&M Equipment Installation		160.0d	160.0d	09-Sep-25	24-Mar-26			-191.0d	0%						
SRGF		61.0d	61.0d	04-Oct-25	16-Dec-25			-196.0d	0%						
Backwash System for SRGF		61.0d	61.0d	04-Oct-25	16-Dec-25			-254.0d	0%						
S222100	SRGF Backwash pipework, valve & instrument installation	45.0d	45.0d	04-Oct-25	27-Nov-25			-238.0d	0%						
S222110	SRGF Air Scour Blower, pipework, valve and instrument	50.0d	50.0d	18-Oct-25	16-Dec-25			-254.0d	0%						
SRGF 5 Installation		22.0d	22.0d	04-Oct-25	31-Oct-25			-157.0d	0%						
S222140	Air Scour header, J-riser,Anchor rods,washwater trough,etc	10.0d	10.0d	04-Oct-25	16-Oct-25			-157.0d	0%						
S222150	Underdrain assembly and grouting	12.0d	12.0d	17-Oct-25	31-Oct-25			-157.0d	0%						
SRGF 6 Installation		22.0d	22.0d	04-Oct-25	31-Oct-25			-310.0d	0%						
S222220	Air Scour header, J-riser,Anchor rods,washwater trough,etc	10.0d	10.0d	04-Oct-25	16-Oct-25			-310.0d	0%						
S222230	Underdrain assembly and grouting	12.0d	12.0d	17-Oct-25	31-Oct-25			-310.0d	0%						
IOCT		60.0d	60.0d	13-Oct-25	22-Dec-25			-240.0d	0%						
S221045	IOCT Access Corridor Pipeworks Installation	60.0d	60.0d	13-Oct-25	22-Dec-25			-240.0d	0%						
DAF		50.0d	50.0d	04-Oct-25	03-Dec-25			-262.0d	0%						

◆ Handover to E&M below +29mPD

◆ Handover to E&M below +44mPD

Statutory Submission schedule

GBP Submission and Approval

DG Application and Approval

SRGF 5 Installation

SRGF 6 Installation

DAF



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Actual Work
Non-Critical Activity
Critical Activity
Milestone

Summary

Date	Revision	Checked	Approved
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3 Month Rolling Programme -
August 2025 to October 2025

(sheet 5 of 10)

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
S221130	DAF I - 4 Flocculator installation	40.0d	40.0d	04-Oct-25	21-Nov-25			-252.0d	0%						
S221190	DAF 1 - 4 Saturatory Vaessel installat ion	28.0d	28.0d	30-Oct-25	01-Dec-25			-275.0d	0%						
S221210	DAF 1- 4 Recycled Water System installation	30.0d	30.0d	30-Oct-25	03-Dec-25			-275.0d	0%						
S221230	DAF 1- 4 Compressed Air System installation	30.0d	30.0d	30-Oct-25	03-Dec-25			-275.0d	0%						
MCC and Transformer Room		45.0d	45.0d	13-Oct-25	04-Dec-25			-153.0d	0%						
S222771	MCC installation	30.0d	30.0d	13-Oct-25	17-Nov-25			-143.0d	0%						
S222772	Transformer installation	45.0d	45.0d	13-Oct-25	04-Dec-25			-153.0d	0%						
Lamella & Supernatant Plant		150.0d	150.0d	09-Sep-25	12-Mar-26			-181.0d	0%						
S222830	Lamella Settler installation	43.0d	43.0d	15-Sep-25	06-Nov-25			-215.0d	0%						
S222870	Lifting Appliance installation and load test for WTB	150.0d	150.0d	09-Sep-25	12-Mar-26			-181.0d	0%						
MiMEP Erection in WTB		139.0d	139.0d	04-Oct-25	24-Mar-26			-196.0d	0%						
S222880	MiMEP erection in WTB	139.0d	139.0d	04-Oct-25	24-Mar-26			-196.0d	0%						
Building Services		270.0d	270.0d	25-Aug-25	24-Jul-26			-278.0d	0%						
S222890	Installation of Earth Mat	210.0d	210.0d	04-Oct-25	23-Jun-26			-262.0d	0%						
S222900	Installation of MVAC system,plumbing and drainage system	200.0d	200.0d	04-Oct-25	10-Jun-26			-252.0d	0%						
S222910	Installation of Fire services system	210.0d	210.0d	04-Sep-25	22-May-26			-269.0d	0%						
S222920	Plumbing and Drainage System	210.0d	210.0d	04-Oct-25	23-Jun-26			-279.0d	0%						
S222930	Electrical Services	200.0d	200.0d	30-Oct-25	06-Jul-26			-272.0d	0%						
S222940	Installation of CCTV system	250.0d	250.0d	04-Sep-25	11-Jul-26			-267.0d	0%						
S222950	Security Access Control System	210.0d	210.0d	04-Oct-25	23-Jun-26			-262.0d	0%						
S222960	Telephone System	120.0d	120.0d	04-Oct-25	02-Mar-26			-172.0d	0%						
S222970	Wireless Communication System	115.0d	115.0d	04-Sep-25	22-Jan-26			-142.0d	0%						
S222980	Public Address System	150.0d	150.0d	04-Oct-25	10-Apr-26			-202.0d	0%						
S222990	Photovoltaic Solar Power System	270.0d	270.0d	25-Aug-25	24-Jul-26			-283.0d	0%						
S223000	Water Leakage Detection System	150.0d	150.0d	04-Oct-25	10-Apr-26			-202.0d	0%						
Power Supply System		105.0d	105.0d	31-Jul-25	03-Dec-25			-133.0d	0%						
S202271	Construction of HV/LV Cable Pit	60.0d	60.0d	31-Jul-25	10-Oct-25			-133.0d	0%						
S202272	Installation of cable tray and cables	45.0d	45.0d	11-Oct-25	03-Dec-25			-133.0d	0%						
Inlet Chamber		112.0d	112.0d	17-Sep-25	31-Jan-26			-150.0d	0%						
S223300	Construction of inlet valve chamber	80.0d	80.0d	17-Sep-25	22-Dec-25			-148.0d	0%						
S223310	Installation of E&M works	90.0d	90.0d	15-Oct-25	31-Jan-26			-150.0d	0%						
Flowmeter Chambers		120.0d	120.0d	31-Jul-25	20-Dec-25			-272.0d	0%						
S223320	Construction of flow meter chambers	120.0d	120.0d	31-Jul-25	20-Dec-25			-272.0d	0%						
Office and Laboratory Building		547.0d	200.0d	30-May-24 A	31-Mar-26	30-May-24		-219.0d	63.44%						
Eletrical Works		330.0d	160.0d	26-Dec-24 A	09-Feb-26	26-Dec-24		-282.0d	51.52%						
S223420	Installation of 11kv switchboards, LV switchboards and MCCs	60.0d	20.0d	26-Dec-24 A	22-Aug-25	26-Dec-24		-152.0d	66.67%						
S223430	Installation of emergency generator system	85.0d	85.0d	30-Oct-25	09-Feb-26			-282.0d	0%						
Building Service		547.0d	200.0d	30-May-24 A	31-Mar-26	30-May-24		-221.0d	63.44%						



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Summary

Date	Revision	Checked	Approved
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3 Month Rolling Programme -
August 2025 to October 2025

(sheet 6 of 10)

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
S223450	Installation of MVAC system and electrical services	200.0d	200.0d	31-Jul-25	31-Mar-26			-221.0d	0%						
S223450.1	Installation of Fire services system	100.0d	75.0d	30-May-24 A	28-Oct-25	30-May-24		-96.0d	25%						
S223475	Installation of water leakage detection system	90.0d	90.0d	31-Jul-25	15-Nov-25			-113.0d	0%						
Architectural Works,Furniture and Labortory Equipment		243.0d	140.0d	24-Mar-25 A	16-Jan-26	24-Mar-25		-163.0d	42.39%						
S120230	Finishing works to ground floor(Grib4-11)	40.0d	40.0d	11-Jun-25 A	15-Sep-25	11-Jun-25		-153.0d	0%						
S120240	Finishing works to roof floor including water tank test	70.0d	50.0d	20-May-25 A	26-Sep-25	20-May-25		-163.0d	28.57%						
S123485	Construction of surface channel on the roof	10.0d	10.0d	04-Jul-25 A	11-Aug-25	04-Jul-25		-58.0d	0%						
S223490	Installation of S.S railing	25.0d	25.0d	27-Sep-25	28-Oct-25			-98.0d	0%						
S223495	Installation of external wall tiles	120.0d	53.0d	24-Mar-25 A	30-Sep-25	24-Mar-25		-117.0d	55.83%						
S223500	Installation of furniture and laboratory equipment	90.0d	90.0d	27-Sep-25	16-Jan-26			-163.0d	0%						
CLP Interface		56.0d	30.0d	30-Jun-25 A	03-Sep-25	30-Jun-25		-58.0d	46.43%						
S401610	CLP Inspection of HV Switchboard	20.0d	20.0d	30-Jun-25 A	22-Aug-25	30-Jun-25		-48.0d	0%						
S401680	Install CLP KWH Meter	1.0d	1.0d	22-Aug-25	22-Aug-25			-48.0d	0%						
S402001	CLP Cable Lead-in from Cheung Tung Road (by CLP)	30.0d	30.0d	31-Jul-25	03-Sep-25			-58.0d	0%						
Reinstatement Works		90.0d	90.0d	31-Jul-25	15-Nov-25			-109.0d	0%						
S223540	Removal of Concrete Blocks and Dismantling ELS	50.0d	50.0d	31-Jul-25	26-Sep-25			-109.0d	0%						
S223541	Drainage works near the O&LB	20.0d	20.0d	27-Sep-25	22-Oct-25			-109.0d	0%						
S223542	Paving works around the O&LB	20.0d	20.0d	23-Oct-25	15-Nov-25			-109.0d	0%						
Dewatering Building		270.0d	79.0d	16-Nov-24 A	03-Nov-25	16-Nov-24		-71.0d	70.74%						
S223602	Strengthening works for Filter Press	27.0d	27.0d	31-Jul-25	30-Aug-25			-19.0d	0%						
S223610	Installation of new filter press system	270.0d	12.0d	16-Nov-24 A	13-Aug-25	16-Nov-24		-29.0d	95.56%						
S223615	Replacement of MVAC system	150.0d	79.0d	20-Mar-25 A	03-Nov-25	20-Mar-25		-72.0d	47.33%						
S223616	Installation of LV switchboards in the MCC room	50.0d	50.0d	31-Jul-25	26-Sep-25			-13.0d	0%						
S223617	Dewatering system Testing and Commissioning	24.0d	24.0d	14-Aug-25	10-Sep-25			-29.0d	0%						
Washwater System		165.0d	165.0d	31-Jul-25	14-Feb-26			-154.0d	0%						
S223620	Modification of washwater equalization tanks No.1 and No.2	95.0d	95.0d	31-Jul-25	21-Nov-25			-157.0d	0%						
S223630	Modification of sludge thickeners and associated pipeworks	115.0d	115.0d	27-Sep-25	14-Feb-26			-157.0d	0%						
S223635	Electrical installation	31.0d	31.0d	27-Sep-25	05-Nov-25			-70.0d	0%						
Chemical Building		814.0d	135.0d	21-Mar-23 A	10-Jan-26	21-Mar-23		-104.0d	83.42%						
Modification of Existing Lime System & other systems and Installation of New Chemical System		550.0d	135.0d	29-Nov-23 A	10-Jan-26	29-Nov-23		-187.0d	75.45%						
S223720	Modification of the existing alum,polyelectrolyte and silicofluoride system,lime watersystem,alum sludge holding tanks	150.0d	90.0d	25-Jun-25 A	15-Nov-25	25-Jun-25		-187.0d	40%						
S223725	Modification of electrical works	180.0d	90.0d	02-Jul-25 A	10-Jan-26	02-Jul-25		-187.0d	50%						
S223726	MiMEP erection in Chemical Building	250.0d	40.0d	29-Nov-23 A	15-Sep-25	29-Nov-23		-92.0d	84%						
Electrical Installation		784.0d	90.0d	21-Mar-23 A	15-Nov-25	21-Mar-23		-59.0d	88.52%						
S223729	Replacement of MVAC system	200.0d	80.0d	21-Mar-23 A	04-Nov-25	21-Mar-23		-49.0d	60%						
S223730	Electrical installation	150.0d	90.0d	20-Jun-25 A	15-Nov-25	20-Jun-25		-142.0d	40%						
Chlorination Building		114.0d	114.0d	31-Jul-25	13-Dec-25			-193.0d	0%						
S224000	Installation of chlorinators	50.0d	50.0d	31-Jul-25	26-Sep-25			-242.0d	0%						



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Summary

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31-Jul-25	1	CLX	RM

3 Month Rolling Programme -
August 2025 to October 2025

(sheet 7 of 10)

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
S224001	Installation of hypochlorite dosing system	50.0d	50.0d	27-Sep-25	27-Nov-25			-242.0d	0%						
S224002	Modification of existing chlorine water distribution pipework	50.0d	50.0d	27-Sep-25	27-Nov-25			-242.0d	0%						
S224010	Modification and replacement of the existing Chlorine Building power supply and distribution system	60.0d	60.0d	03-Oct-25	13-Dec-25			-193.0d	0%						
Filter Gallery, Chlorine Contact Tank and Clear Water Tank		200.0d	200.0d	23-Oct-25	29-Jun-26			-242.0d	0%						
S224021	Modification of existing water pipes	200.0d	200.0d	23-Oct-25	29-Jun-26			-242.0d	0%						
Laying of Sludge Pipe (SP-01) CHF 0 to 218		19.0d	19.0d	31-Jul-25	21-Aug-25			12.0d	0%						
S313365	Pressure test for sludge pipe (SP-01)	7.0d	7.0d	31-Jul-25	07-Aug-25			17.0d	0%						
S401070	Connection to existing DN800 washwater pipe	7.0d	7.0d	14-Aug-25	21-Aug-25			12.0d	0%						
Laying of Sludge Pipe (SP-02) CHG 0 to 209		12.0d	12.0d	31-Jul-25	13-Aug-25			12.0d	0%						
S313342	Pressure test for sludge pipe (SP-02)	5.0d	5.0d	31-Jul-25	05-Aug-25			-118.0d	0%						
S401080	Connection to existing DN800 washwater pipe	7.0d	7.0d	06-Aug-25	13-Aug-25			12.0d	0%						
Remaining Laying of Pipe Works		120.0d	120.0d	31-Jul-25	20-Dec-25			-89.0d	0%						
S302079	TTA Implementation for additional trial pit (Affected by Road Access Permission by WSD Operater)	25.0d	25.0d	31-Jul-25	28-Aug-25			-130.0d	0%						
S302080	Additional Trial Pit for DN1000 Pipeworks	25.0d	25.0d	29-Aug-25	26-Sep-25			-130.0d	0%						
S302081	Excavation and ELS for fresh water main FWM-3A & FWM-3B	45.0d	45.0d	27-Sep-25	21-Nov-25			-130.0d	0%						
S313440	Laying of Sludge washwater recycle pipe (SP-03) CHJ 0 to 38.9	35.0d	35.0d	29-Aug-25	10-Oct-25			-111.0d	0%						
S313460	Laying of Thickener influent pipe (T1-01) CHH 0 to 7.2	28.0d	28.0d	11-Oct-25	13-Nov-25			-111.0d	0%						
S313491	Construction of DN800 Non-return Valve	20.0d	20.0d	27-Sep-25	22-Oct-25			-89.0d	0%						
S313500	Laying of remaining sampling pipe(spp01-05)	80.0d	80.0d	31-Jul-25	04-Nov-25			-93.0d	0%						
S313508.5	Additional for trial pit for DN800 non-return valve chamber subject to implementation TTA	20.0d	20.0d	06-Aug-25	28-Aug-25			-118.0d	0%						
S313509	Confirmation of Alignment	10.0d	10.0d	29-Aug-25	09-Sep-25			-118.0d	0%						
S313510	Construction of non-return valve chamber and associated works	80.0d	80.0d	10-Sep-25	15-Dec-25			-84.0d	0%						
S313520	Construction of DN200 by-pass system	70.0d	70.0d	27-Sep-25	20-Dec-25			-89.0d	0%						
S313530	Pipe laying of FWM-1 and FWM-2	50.0d	50.0d	02-Oct-25	01-Dec-25			-117.0d	0%						
S313540	DN300 valve for existing thickener overflow pipe	70.0d	70.0d	05-Sep-25	28-Nov-25			-114.0d	0%						
S313560	DN400 valve for existing washwater recycle pipe	70.0d	70.0d	05-Sep-25	28-Nov-25			-114.0d	0%						
S313570	DN40 PYDP-01 to be connected to existing polymer pumps	70.0d	70.0d	10-Sep-25	03-Dec-25			-118.0d	0%						
Control System		210.0d	210.0d	30-Oct-25	17-Jul-26			-254.0d	0%						
S224030	Installation of new DCS, BEMS, Local Control Panels, PLCs, ALCs, MMIs and TMS	210.0d	210.0d	30-Oct-25	17-Jul-26			-282.0d	0%						
S224040	Modification of stream I DCS system and integration with stream IIA DCS system	210.0d	210.0d	30-Oct-25	17-Jul-26			-277.0d	0%						
S224045	Installation of NOSS	170.0d	170.0d	30-Oct-25	29-May-26			-214.0d	0%						
Siu Ho Wan Pumping Station		180.0d	180.0d	31-Jul-25	07-Mar-26			-172.0d	0%						
S224050	Modification of backwash pump to stream IIA SRGF	180.0d	180.0d	31-Jul-25	07-Mar-26			-172.0d	0%						
S224060	Installation of plant water transfer system	150.0d	150.0d	31-Jul-25	28-Jan-26			-142.0d	0%						
Administration Building		641.0d	210.0d	15-Feb-24 A	16-Apr-26	15-Feb-24		-179.0d	67.24%						
S201760	Modification work to the existing Control Room located on the 1st Floor	180.0d	60.0d	15-Feb-24 A	10-Oct-25	15-Feb-24		-179.0d	66.67%						
S201770	Replacement of existing mimic display board with with new 65 inch LCD monitor and controller	150.0d	150.0d	11-Oct-25	16-Apr-26			-179.0d	0%						
S201771	Replacement of MVAC system	360.0d	160.0d	26-Sep-24 A	09-Feb-26	26-Sep-24		-129.0d	55.56%						



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Summary

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3 Month Rolling Programme -
August 2025 to October 2025

(sheet 8 of 10)

Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
S201780	Modification of the building services systems	90.0d	90.0d	31-Jul-25	15-Nov-25			-59.0d	0%						
Section 3 of the Works		960.0d	138.0d	30-Aug-22 A	15-Dec-25	30-Aug-22		-102.0d	85.63%						
Siu Ho Wan Raw Water Booster Pumping Station		926.0d	104.0d	30-Aug-22 A	11-Nov-25	30-Aug-22		-68.0d	88.77%						
Architectural Works		382.0d	86.0d	21-Jun-24 A	11-Nov-25	21-Jun-24		-137.0d	77.49%						
S111140	Finishing works from +1.25mPD to +15.05m (Grib D-C)	53.0d	25.0d	21-Jun-24 A	28-Aug-25	21-Jun-24		-76.0d	52.83%						
S312260	Installation of external facade	120.0d	16.0d	03-Sep-24 A	18-Aug-25	03-Sep-24		-205.0d	86.67%						
S312300	Installation of vertical greening system	70.0d	70.0d	19-Aug-25	11-Nov-25			-205.0d	0%						
Equipment Procurement, Manufacture, FAT and Delivery		660.0d	80.0d	30-Aug-22 A	18-Oct-25	30-Aug-22		-210.0d	87.88%						
S312000	Procurement of process and E&M equipment	60.0d	20.0d	30-Aug-22 A	19-Aug-25	30-Aug-22		-210.0d	66.67%						
S312020	Manufacture,FAT and delivery of process and E&M equipment	50.0d	20.0d	02-Jul-24 A	18-Oct-25	02-Jul-24		-210.0d	60%						
Statutory submission schedule		43.0d	43.0d	04-Sep-25	16-Oct-25			-42.0d	0%						
S312060	FS_Form FSI 314,FSI501& As-build drawings	20.0d	20.0d	04-Sep-25	23-Sep-25			-40.0d	0%						
S312080	FS_certificate (acceptance memo)	18.0d	18.0d	24-Sep-25	16-Oct-25			-34.0d	0%						
Mechanical Works		120.0d	55.0d	24-Oct-24 A	03-Oct-25	24-Oct-24		-116.0d	54.17%						
S312100	Installation of lifting appliances,raw water booster pumpsets	120.0d	55.0d	24-Oct-24 A	03-Oct-25	24-Oct-24		-116.0d	54.17%						
Electrical Works		140.0d	50.0d	22-Apr-24 A	26-Sep-25	22-Apr-24		-117.0d	64.29%						
S312140	Installation of cables and construction of ELV&LV drawpit	140.0d	50.0d	22-Apr-24 A	26-Sep-25	22-Apr-24		-117.0d	64.29%						
Building Services		283.0d	60.0d	28-Oct-24 A	10-Oct-25	28-Oct-24		-121.0d	78.8%						
S312200	Installation of MVAC system	120.0d	20.0d	28-Jan-25 A	22-Aug-25	28-Jan-25		-81.0d	83.33%						
S312201	Installation of Fire services system	120.0d	30.0d	26-Nov-24 A	03-Sep-25	26-Nov-24		-91.0d	75%						
S312202	Installation of Plumbing and drainage system	120.0d	30.0d	28-Oct-24 A	03-Sep-25	28-Oct-24		-91.0d	75%						
S312240	Installation of electrical services,CCTV, security access control system, wireless communication system and PA system	150.0d	44.0d	08-Nov-24 A	19-Sep-25	08-Nov-24		-105.0d	70.67%						
S312245	Installation of lightning protection,lighting and small power system	150.0d	54.0d	12-Nov-24 A	02-Oct-25	12-Nov-24		-115.0d	64%						
S312280	Installation of water leakage detection system	60.0d	60.0d	31-Jul-25	10-Oct-25			-121.0d	0%						
Control System		60.0d	50.0d	11-Feb-25 A	26-Sep-25	11-Feb-25		-111.0d	16.67%						
S312220	Installation of new DCS and BEMS,LCPs,PLCs, ALCPs AND MMIs	60.0d	50.0d	11-Feb-25 A	26-Sep-25	11-Feb-25		-111.0d	16.67%						
Testing and Commissioning		25.0d	25.0d	04-Oct-25	04-Nov-25			-79.0d	0%						
S312400	Inspection after installation of E&M works	20.0d	20.0d	11-Oct-25	04-Nov-25			-121.0d	0%						
S312460	Individual tests of sub-system	25.0d	25.0d	04-Oct-25	04-Nov-25			-79.0d	0%						
Remaining Works		511.0d	95.0d	04-Mar-24 A	21-Nov-25	04-Mar-24		-64.0d	81.41%						
Remaining Works at Cheung Tung Road		26.0d	26.0d	01-Aug-25	30-Aug-25			4.0d	0%						
S151770	Backfill and Road Reinstatement	26.0d	26.0d	01-Aug-25	30-Aug-25			4.0d	0%						
Laying of Raw Water Main (RWM-2) CHD 118 to 150		40.0d	40.0d	31-Jul-25	15-Sep-25			-19.0d	0%						
S313082	Construction of associated pit and chamber	30.0d	30.0d	31-Jul-25	03-Sep-25			-124.0d	0%						
S313083	Pressure test	10.0d	10.0d	04-Sep-25	15-Sep-25			-19.0d	0%						
Laying of Raw Water Main (RWM-2) CHD 150 to 403.3		269.0d	90.0d	04-Dec-24 A	15-Nov-25	04-Dec-24		-94.0d	66.54%						
S313180	Exacavation works for Laying of Raw water main(RWM-2) CHD 279 to 403.3	80.0d	20.0d	04-Dec-24 A	22-Aug-25	04-Dec-24		-87.0d	75%						
S313181	Drainage Diversion and Construction of Manhole SM-1-1 to SM-1-4	78.0d	78.0d	31-Jul-25	01-Nov-25			-83.0d	0%						



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31-Jul-25	1	CLX	RM

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Contract No. 7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping

Data Date:31-Jul-25

Activity ID	Activity Name	Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Total Float	Duration % Complete	2025					
										Jul 41	Aug 42	Sep 43	Oct 44	Nov 45	Dec 46
S313182	Laying of Raw water main(RWM-2) CHD 279 to 403.3 Water treatment building	130.0d	90.0d	17-Jan-25 A	15-Nov-25	17-Jan-25		-94.0d	30.77%						
Laying of Raw Water Main (RWM-3) CHE 0 to 200.9		511.0d	95.0d	04-Mar-24 A	21-Nov-25	04-Mar-24		-131.0d	81.41%						
S313400	Laying of Raw water main(RWM-3) CHE 85 to 125	50.0d	25.0d	04-Mar-24 A	28-Aug-25	04-Mar-24		-131.0d	50%						
S313420	Laying of Raw water main(RWM-3) CHE 126 to 175	70.0d	20.0d	02-May-24 A	22-Aug-25	02-May-24		-56.0d	71.43%						
S313421	Laying of Raw water main(RWM-3) CHE 175 to 200.9	70.0d	70.0d	29-Aug-25	21-Nov-25			-131.0d	0%						
Roadwork		80.0d	80.0d	10-Sep-25	15-Dec-25			-124.0d	0%						
S314000.1	Construction of drainage system	55.0d	55.0d	16-Sep-25	21-Nov-25			-124.0d	0%						
S314000.2	Construction of valve chambers and installation of associated pipework	70.0d	70.0d	10-Sep-25	03-Dec-25			-119.0d	0%						
S314100	Laying of ducting,power and control cables	60.0d	60.0d	04-Oct-25	15-Dec-25			-124.0d	0%						
Section 4 of the Works-Landscape Softworks and Establishment Works		150.0d	150.0d	14-Aug-25	10-Jan-26			-102.0d	0%						
S401000.2	Construction of irrigation system and Landscape softworks for O&LB	150.0d	150.0d	14-Aug-25	10-Jan-26			-102.0d	0%						



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Summary

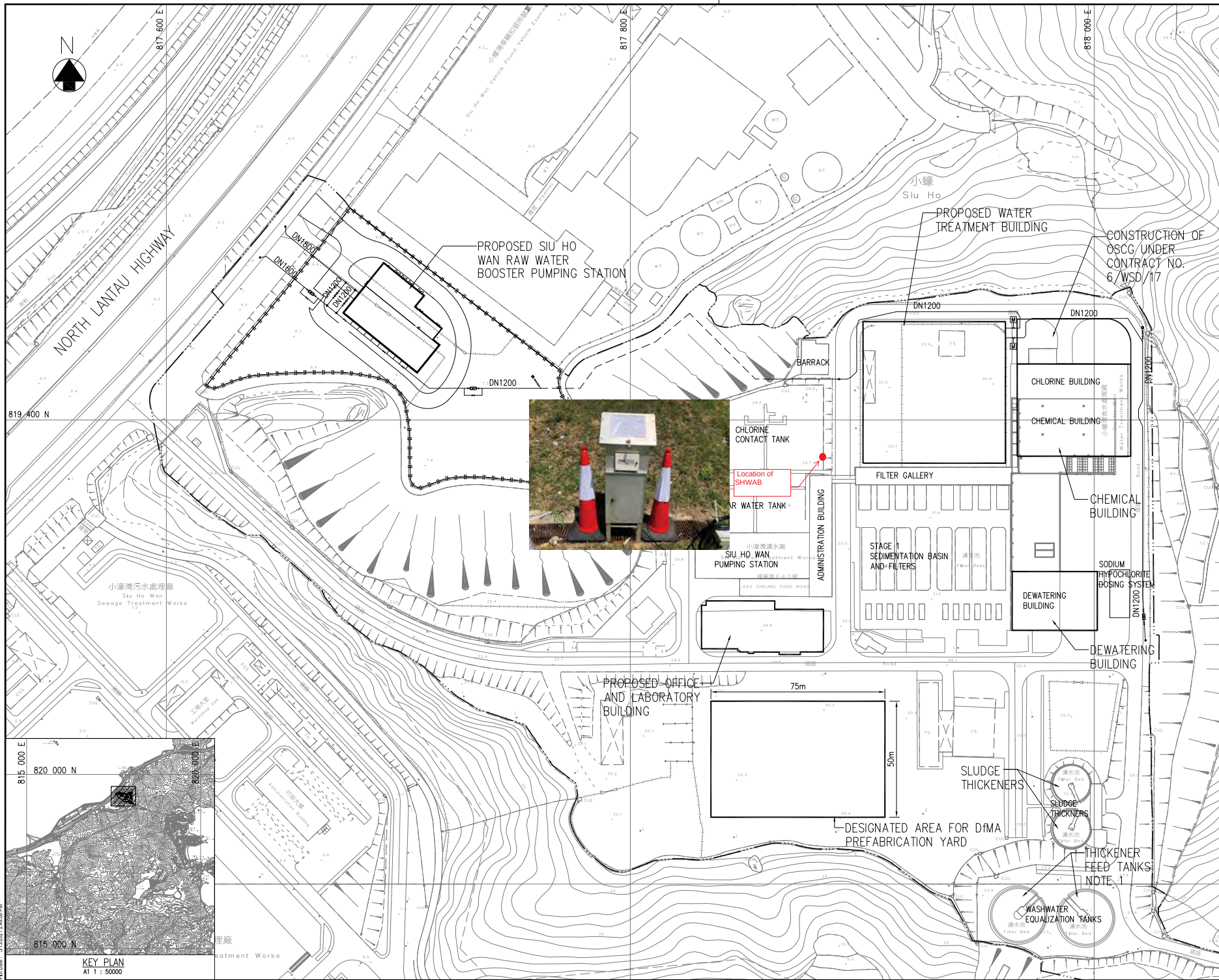
Date	Revision	Checked	Approved
31-Jul-25	1	CLX	RM

3 Month Rolling Programme -
August 2025 to October 2025

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Appendix D

Monitoring Locations



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LEGEND:

- SITE BOUNDARY
- - - - - PROPOSED RAW WATER MAINS (BURIED)
- - - - - PROPOSED RAW WATER MAINS (EXPOSED)
- |-|-| PROPOSED FENCING
- PROPOSED BUILDING WORKS

NOTE 1:
THE EXISTING WASTEWATER EQUALIZATION TANKS TO BE RENAMED AS "THICKENER FEED TANKS"

Revision	Date	Description	Drawn	Checked	Initial
0	05/21	ISSUE FOR TENDER DRAWING	JC		
Initial	05/21	05/21	05/21	05/21	05/21

Approved: *James Chan*

Contract No. 7/WS0/21

Contract Title
CONSTRUCTION OF SIU HO WAN WATER TREATMENT WORKS EXTENSION AND SIU HO WAN RAW WATER BOOSTER PUMPING STATION

Drawing Title
SITE LOCATION

Drawing No.	Revision
199755A/B&V/GN/00001	0

Scale
A1 1 : 750
A3 1 : 1500

水務署
Water Supplies Department

binnies
BINNIES HONG KONG LIMITED
寶尼新工程顧問有限公司

Appendix E

Calibration Certificates

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Siu Ho Wan WTW Administration

Date of Calibration: 1-Aug-25

Location ID : SHWAB

Next Calibration Date: 1-Oct-25

Name and Model: TISCH HVS Model TE-5170

Technician: Martin

CONDITIONS

Sea Level Pressure (hPa)

1003.5

Corrected Pressure (mm Hg)

752.625

Temperature (°C)

29.1

Temperature (K)

302

CALIBRATION ORIFICE

Make-> TISCH

Qstd Slope ->

1.99838

Model-> 5025A

Qstd Intercept ->

-0.03782

Serial # -> 4064

CALIBRATION

Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18	6.10	6.10	12.2	1.746	56	54.97	Slope = 27.2301 Intercept = 8.2591 Corr. coeff. = 0.9953
13	4.70	4.70	9.4	1.535	51	50.06	
10	3.40	3.40	6.8	1.309	46	45.16	
7	2.30	2.30	4.6	1.080	39	38.28	
5	1.30	1.30	2.6	0.816	30	29.45	

Calculations :

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart responses

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K

Pstd = actual pressure during calibration (mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope

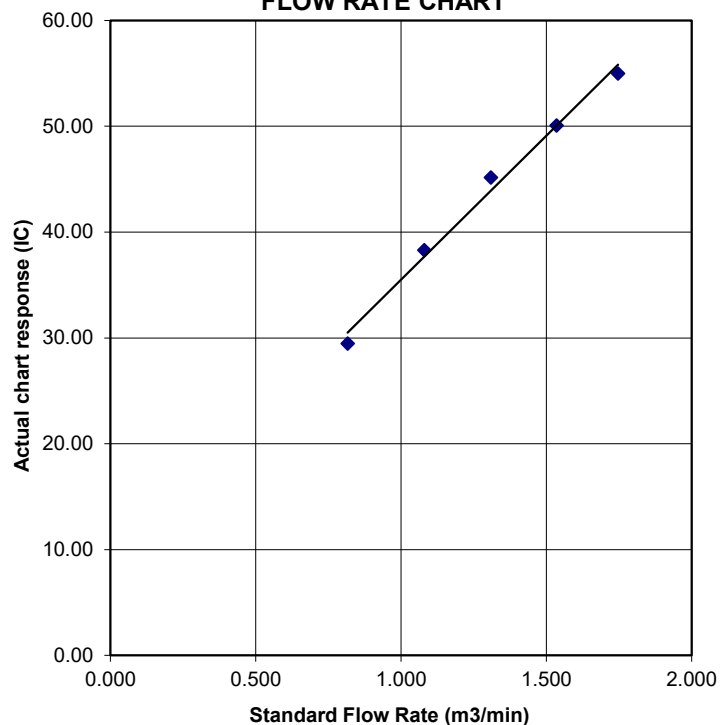
b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

FLOW RATE CHART





Certificate of Calibration

Calibration Certification Information

Cal. Date: December 16, 2024 Rootsometer S/N: 438320 Ta: 293 °K
Operator: Jim Tisch Pa: 749.0 mm Hg
Calibration Model #: TE-5025A Calibrator S/N: 4064

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4600	3.2	2.00
2	3	4	1	1.0300	6.4	4.00
3	5	6	1	0.9220	8.0	5.00
4	7	8	1	0.8770	8.8	5.50
5	9	10	1	0.7250	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
0.9981	0.6836	1.4159	0.9957	0.6820	0.8845
0.9938	0.9649	2.0024	0.9915	0.9626	1.2509
0.9917	1.0756	2.2388	0.9893	1.0730	1.3985
0.9906	1.1296	2.3480	0.9883	1.1269	1.4668
0.9853	1.3590	2.8318	0.9829	1.3557	1.7690
QSTD	m=	2.09671	QA	m=	1.31292
	b=	-0.01852		b=	-0.01157
	r=	0.99999		r=	0.99999

Calculations

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

Standard Conditions

Tstd: 298.15 °K
Pstd: 760 mm Hg

Key

ΔH: calibrator manometer reading (in H2O)
ΔP: rootsometer manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric pressure (mm Hg)
b: intercept
m: slope

RECALIBRATION

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

Appendix F

Event and Action Plan

Event Action Plan for Air Quality

Event	Action			
	ET	IEC	PMD	Contractor
Action Level exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC, <i>PMD</i> and <i>Contractor</i>; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check <i>Contractor</i>'s working method; and 3. Review and advise the ET and <i>PMD</i> on the effectiveness of the proposed remedial measures.	1. Notify <i>Contractor</i>.	1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Rectify any unacceptable practice and implement remedial measures; and 3. Amend working methods agreed with <i>PMD</i> if appropriate.
Action Level exceedance for two or more consecutive samples	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC, <i>PMD</i> and <i>Contractor</i>; 3. Advise the <i>PMD</i> and <i>Contractor</i> on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, <i>PMD</i> and <i>Contractor</i> on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and <i>PMD</i>; and 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check <i>Contractor</i>'s working method; 3. Discuss with ET and <i>Contractor</i> on possible remedial measures; 4. Advise the ET and <i>PMD</i> on the effectiveness of the proposed remedial measures; and 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify <i>Contractor</i>; and 3. Supervise and ensure remedial measures properly implemented.	1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Submit proposals for remedial actions to <i>PMD</i> with a copy to ET and IEC within 3 working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal if appropriate.
Limit Level exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform <i>PMD</i>, <i>Contractor</i>, IEC and EPD; 3. Repeat	1. Check monitoring data submitted by ET; 2. Check <i>Contractor</i>'s working method; 3. Discuss with ET, <i>PMD</i> and <i>Contractor</i> on possible remedial measures;	1. Confirm receipt of notification of failure in writing; 2. Notify <i>Contractor</i>; and 3. Supervise and ensure remedial measures properly implemented.	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Take immediate action to avoid further exceedance; 3. Submit proposals

	measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of <i>Contractor's</i> remedial actions and keep IEC, EPD and <i>PMD</i> informed of the results.	4. Advise the <i>PMD</i> and ET on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.		for remedial actions to <i>PMD</i> with a copy to ET and IEC within 3 working days of notification; 4. Implement the agreed proposals; and 5. Amend proposal if appropriate.
Limit Level exceedance for two or more consecutive samples	1. Notify IEC, <i>PMD</i>, <i>Contractor</i> and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of <i>Contractor's</i> working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC, <i>Contractor</i> and <i>PMD</i> to discuss the remedial actions to be taken; 7. Assess effectiveness of <i>Contractor's</i> remedial actions and keep IEC, EPD and <i>PMD</i> informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check <i>Contractor's</i> working method; 3. Discuss amongst <i>PMD</i>, ET, and <i>Contractor</i> on the potential remedial actions; 4. Review <i>Contractor's</i> remedial actions whenever necessary to assure their effectiveness and advise the <i>PMD</i> accordingly; and 5. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify <i>Contractor</i>; 3. In consultation with the ET and IEC, agree with the <i>Contractor</i> on the remedial measures to be implemented; 4. Supervise and ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the <i>Contractor</i> to stop that portion of work until the exceedance is abated.	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to <i>PMD</i> with a copy to ET and IEC within 3 working days of notification; 4. Implement the agreed proposals; 5. Resubmit proposals if problem still not under control; 6. Stop the relevant portion of works as determined by the <i>PMD</i> until the exceedance is abated.

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

PMD – Project Manager's Delegate

Appendix G

Monitoring Schedule

Impact Air Quality Monitoring Schedule for the Reporting Period

Date		AIR QUALITY MONITORING (24-HOUR TSP)
Fri	1-Aug-25	
Sat	2-Aug-25	
Sun	3-Aug-25	
Mon	4-Aug-25	✓
Tue	5-Aug-25	
Wed	6-Aug-25	
Thu	7-Aug-25	
Fri	8-Aug-25	
Sat	9-Aug-25	✓
Sun	10-Aug-25	
Mon	11-Aug-25	
Tue	12-Aug-25	
Wed	13-Aug-25	
Thu	14-Aug-25	
Fri	15-Aug-25	✓
Sat	16-Aug-25	
Sun	17-Aug-25	
Mon	18-Aug-25	
Tue	19-Aug-25	
Wed	20-Aug-25	
Thu	21-Aug-25	✓
Fri	22-Aug-25	
Sat	23-Aug-25	
Sun	24-Aug-25	
Mon	25-Aug-25	
Tue	26-Aug-25	
Wed	27-Aug-25	✓
Thu	28-Aug-25	
Fri	29-Aug-25	
Sat	30-Aug-25	
Sun	31-Aug-25	

✓	Monitoring Day
	Sunday or Public Holiday

Impact Air Quality Monitoring Schedule for next Reporting Period

Date		AIR QUALITY MONITORING (24-HOUR TSP)
Mon	1-Sep-25	
Tue	2-Sep-25	✓
Wed	3-Sep-25	
Thu	4-Sep-25	
Fri	5-Sep-25	
Sat	6-Sep-25	
Sun	7-Sep-25	
Mon	8-Sep-25	✓
Tue	9-Sep-25	
Wed	10-Sep-25	
Thu	11-Sep-25	
Fri	12-Sep-25	
Sat	13-Sep-25	✓
Sun	14-Sep-25	
Mon	15-Sep-25	
Tue	16-Sep-25	
Wed	17-Sep-25	
Thu	18-Sep-25	
Fri	19-Sep-25	✓
Sat	20-Sep-25	
Sun	21-Sep-25	
Mon	22-Sep-25	
Tue	23-Sep-25	
Wed	24-Sep-25	
Thu	25-Sep-25	✓
Fri	26-Sep-25	
Sat	27-Sep-25	
Sun	28-Sep-25	
Mon	29-Sep-25	
Tue	30-Sep-25	✓

✓	Monitoring Day
	Sunday or Public Holiday

Appendix H

Database of Monitoring Result

WSD Contract No.: 7/WSD/21 - Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station
Monthly Environmental Impact Monitoring and Audit Report (August 2025)

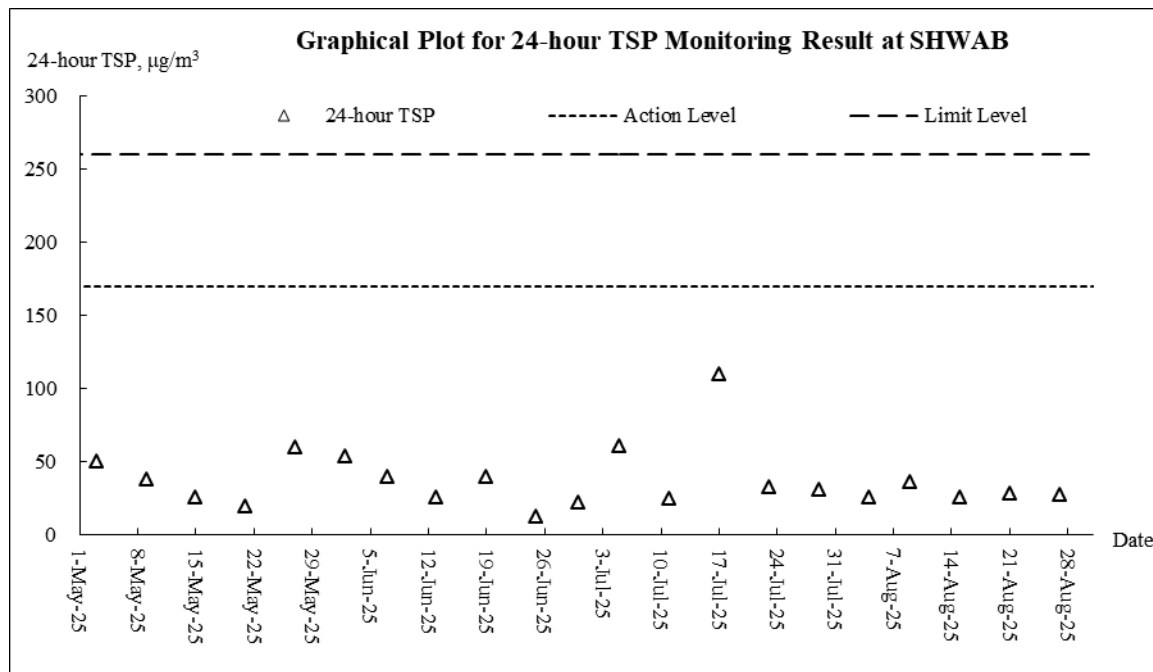


Impact Monitoring Results for 24-hour TSP at SHWAB															
DATE	SAMPLE NUMBER	ELAPSED TIME		ACTUAL (min)	CHART READING			AVG TEMP (°C)	STANDARD			FILTER WEIGHT (g)		WEIGHT DUST COLLECTED (g)	DUST 24-hour TSP IN AIR (ug/m ³)
		INITIAL	FINAL		MIN	MAX	AVG		AVG PRESS (hPa)	FLOW RATE (m ³ /min)	AIR VOLUME (std m ³)	INITIAL	FINAL		
4-Aug-25	21763	23029.44	23053.44	1440.00	38	38	38.0	28.8	1003.6	1.05	1514	2.5824	2.6217	0.0393	26
9-Aug-25	21770	23053.50	23077.50	1440.00	34	40	37.0	30.1	1007.8	1.02	1467	2.5914	2.6444	0.0530	36
15-Aug-25	21777	23078.07	23102.07	1440.00	54	58	56.0	27.5	1008.9	1.65	2369	2.5756	2.6365	0.0609	26
21-Aug-25	21809	23102.07	23126.07	1440.00	42	54	48.0	29.6	1011.4	1.44	2080	2.6146	2.6734	0.0588	28
27-Aug-25	21832	23145.07	23169.07	1440.00	44	50	47.0	29.8	1008.3	1.40	2023	2.6321	2.6879	0.0558	28

Appendix I

Graphical Plots for Monitoring Result

24-Hour TSP



Appendix J

Meteorological Data

Date		Weather	Total Rainfall l (mm)	Chek Lap Kok				
				Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction	Mean Press. (hPa)
1-Aug-25	Fri	Very hot with sunny intervals	3	30.8	20	73.7	SW	1000.3
2-Aug-25	Sat	Moderate southwesterly winds	109	27.9	25	86.2	S/SW	1002.9
3-Aug-25	Sun	Moderate to fresh southwesterly winds	47.5	29.5	26	79.5	SW	1003.1
4-Aug-25	Mon	Cloudy with showers and a few squally thunderstorms.	72.2	28.7	25	80.5	SW	1003.6
5-Aug-25	Tue	Cloudy with showers and a few squally thunderstorms.	368.9	26.9	28.5	87.5	S/SW	1005.4
6-Aug-25	Wed	Moderate to fresh southwesterly winds	6.8	28.0	20	83.0	S/SW	1007.7
7-Aug-25	Thu	Very hot with sunny intervals	0	30.1	13	75.5	S/SW	1009.3
8-Aug-25	Fri	Mainly fine. Very hot in the afternoon. Light winds.	0	30.4	10.5	75.0	N/NW	1008.7
9-Aug-25	Sat	Mainly cloudy with a few showers.	0	31.0	9.7	66.5	W/SW	1007.8
10-Aug-25	Sun	Hot with sunny intervals and isolated thunderstorms	0	30.9	12.5	72.5	SW	1006.9
11-Aug-25	Mon	Light to moderate southerly winds.	0.3	30.8	12.5	70.5	SW	1006.3
12-Aug-25	Tue	Moderate southwesterly winds	8.5	29.7	15.5	74.5	S/SW	1006.9
13-Aug-25	Wed	Moderate southwesterly winds	0	30.2	15.0	75.0	S/SW	1005.6
14-Aug-25	Thu	Hot with sunny intervals and isolated thunderstorms	117.4	26.9	26.2	88.2	E/SE	1005.5
15-Aug-25	Fri	Mainly fine. Very hot in the afternoon. Light winds.	4.3	27.9	15.5	77.7	E	1008.9
16-Aug-25	Sat	Light to moderate southerly winds.	0	31.0	21.2	64.5	E	1008.5
17-Aug-25	Sun	Moderate east to southeasterly winds,	41.5	28.8	20.5	74.7	E	1009
18-Aug-25	Mon	Mainly cloudy with occasional showers and a few squally thunderstorms.	80.1	26.9	19.5	84.2	E	1010.4
19-Aug-25	Tue	Light to moderate southerly winds.	68.9	27.9	17.5	81.2	SE	1010.9
20-Aug-25	Wed	Mainly cloudy with one or two showers	0.2	29.9	11.5	76.2	S/SE	1010.7
21-Aug-25	Thu	Very hot with sunny periods and isolated showers	0	30.5	10	72.5	SW	1011.4
22-Aug-25	Fri	Mainly fine. Very hot	0	30.4	6.2	61.5	W	1009.9
23-Aug-25	Sat	Isolated showers later. Light winds.	0.2	30.9	15.5	67.5	E	1008.5
24-Aug-25	Sun	Sunny intervals. Moderate to fresh east to southeasterly winds	0	30.9	23.7	70.0	E	1009.6
25-Aug-25	Mon	Mainly cloudy with a few showers.	0.1	30.6	20.5	66.0	E/SE	1010.2
26-Aug-25	Tue	Sunny periods and one or two showers. Hot	0	30.9	9	69.0	W	1009.7
27-Aug-25	Wed	Sunny periods and a few showers. Very hot	0	30.5	10.7	67.0	W/NW	1008.3
28-Aug-25	Thu	Mainly cloudy with a few showers.	2.7	29.8	10	69.5	E/NE	1008.1
29-Aug-25	Fri	Sunny periods. Very hot	0.5	32.1	27	61.2	E	1009.3
30-Aug-25	Sat	Light to moderate easterly winds.	7.1	31	23.7	68.5	E	1010.3
31-Aug-25	Sun	Sunny periods. Very hot	0	31	16.2	64.5	E/SE	1009.4

*Remark: The above information was extracted from the Hong Kong Observatory Station of Chek Lap Kok of below link:
<https://www.hko.gov.hk/en/index.html>*

Appendix K

Waste Flow Table

Monthly Summary Waste Flow Table for 2025 (year)

Project : Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station

Contract No.: 7/WSD/21

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete (a) (see Note 3)	Reused in the Contract (b)	Reused in other Projects (c)	Disposed as Public Fill (d)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in Tonne)	(in Tonne)	(in Tonne)	(in Tonne)	(in Tonne)	(in Tonne)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in Tonne)
Jan	129.150	51.480	0.000	0.000	77.670	16.580	0.048	0.262	0.025	0.000	57.220
Feb	828.910	98.730	0.000	0.000	730.180	923.500	0.020	0.260	0.032	0.000	76.750
Mar	1312.100	40.450	0.000	0.000	1271.650	234.030	0.010	0.255	0.012	0.000	89.510
Apr	1781.090	52.820	0.000	0.000	1728.270	149.530	7.670	0.210	0.020	0.000	77.450
May	467.330	104.110	0.000	0.000	363.220	266.690	15.140	0.263	0.008	0.000	98.720
Jun	1207.970	79.270	0.000	0.000	1128.700	80.840	0.0050	0.1765	0.0175	0.000	88.870
Sub-total	5726.550	426.860	0.000	0.000	5299.690	1671.170	22.8930	1.4265	0.1145	0.000	488.520
Jul	23.550	23.550	0.000	0.000	0.000	109.810	0.008	0.403	0.0115	0.000	70.710
Aug	245.560	81.810	0.000	0.000	163.750	128.490	0.030	0.261	0.025	0.000	64.910
Sep											
Oct											
Nov											
Dec											
Total	5995.660	532.220	0.000	0.000	5463.440	1909.470	22.9310	2.0905	0.1510	0.000	624.140

- Notes:
- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
 - (2) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging materials.
 - (3) Broken concrete for recycling into aggregates.
 - (4) Total Quantity Generated = a+b+c+d.

Appendix L

Environmental Complaints Log

Environmental Complaints Log

Log ref.	Date of complaint	Complaint route	Reference no.	Complaint nature	Investigation finding	Status
1						
2						
3						
4						

Appendix M

Implementation Schedule for Environmental Mitigation Measures

Environmental Mitigation Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures	Location/Timing	Implementation Agent	Implementation Stages*			Relevant Legislation & Guidelines
				D	C	O	
Construction Phase (Air Quality Control)							
S3.8	Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation shall be incorporated to control dust emission. Notice shall be given to authority prior to commencing of work. Relevant control measures include: - watering on the work sites at Siu Ho Wan WTW twice a day; - skip hoist for material transport shall be totally enclosed by impervious sheeting; - vehicle washing facilities shall be provided at every vehicle exit point; - the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point shall be paved with concrete, bituminous materials or hardcores; - every main haul road shall be sealed with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet; - every stock of more than 20 bags of cement shall be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides; - all dusty materials shall be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet; - every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the construction sites; - the dusty materials stockpiled on site shall be covered; and - the load of dusty materials carried by vehicle leaving a construction site shall be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.	Work site / during construction period.	Contractor		√		Air Pollution Control (Construction Dust) Regulation
Operation Phase(Air Quality)							
NA	NA	NA	NA	NA	NA	NA	NA
Construction Phase (Noise Control)							
S4.8.1	Use of silenced PME	Work site close to all NSRs	Contractor		√		NCO, EIAO-TM
S4.8.6	Good Site Practices: - Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. - Mobile plant, if any, should be sited as far away from NSRs as possible. - Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. - Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. - Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. - Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme.	Work site close to all NSRs / throughout the construction period.	Contractor		√		NCO, EIAO-TM

WSD Contract No.: 7/WSD/21 - Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station
Monthly Environmental Impact Monitoring and Audit Report (August 2025)



EIA Ref	Environmental Protection Measures	Location/Timing	Implementation Agent	Implementation Stages*			Relevant Legislation & Guidelines
				D	C	O	
Operation Phase(Noise Control)							
NA	NA	NA	NA	NA	NA	NA	NA
Construction Phase (Water Quality Control)							
S5.7.2	<i>Construction Site Runoff and Drainage</i> - Before commencing any site formation work, all sewer and drainage connections shall be sealed to prevent debris, soil, sand etc. from entering public sewers/drains. - Sand/silt removal facilities such as sand traps, silt traps and sediment basins shall be provided to remove sand/silt particles from runoff to meet the requirements of the Technical Memorandum standard under the Water Pollution Control Ordinance. The design of silt removal facilities shall be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures shall be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. - Water pumped out from foundation excavations shall be discharged into silt removal facilities. - Exposed soil surfaces shall be protected by paving or fill material as soon as possible to reduce the potential of soil erosion. - Open stockpiles of construction materials or construction wastes on-site of more than 50m3 shall be covered with tarpaulin or similar fabric during rainstorms.	Work site / During the construction period	Contractor		√		ProPECC PN 1/94; WPCO
S5.7.3	<i>General Construction Activities</i> Debris and rubbish generated on-site shall be collected, handled and disposed of properly to avoid entering the nearby watercourses and storm water drains. Stockpiles of cement and other construction materials shall be kept covered when not being used.	Work site / During the construction period	Contractor		√		ProPECC PN 1/94; WPCO
S5.7.4	Oils and fuels shall only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund shall be drained of rainwater after a rain event.	Work site / During the construction period	Contractor		√		
S5.7.5	<i>Sewage from Construction Workforce</i> Temporary sanitary facilities, such as portable chemical toilets, shall be employed on-site. A licensed contractor shall be responsible for appropriate disposal and maintenance of these facilities.	Work site / During the construction period	Contractor		√		WPCO
Operation Phase(Water Quality Control)							
NA	NA	NA	NA	NA	NA	NA	NA
Construction Phase (Ecology)							
S.6.9.3	<i>Mitigation to minimise impacts on vegetation in woodland</i> All trees shall be preserved as far as possible, especially species of high conservation or amenity value. Recommendations to be provided in the Tree Survey Report to mitigate impacts on trees shall be followed. Where trees are to be preserved in-situ, but are likely to be disturbed from works activities, protective fencing/hoarding shall be carefully set up around the affected trees (refer to	Work site / particularly woodland / During design phase and construction period	WSD/ Contractor	√	√		EIAO

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EIA Ref	Environmental Protection Measures	Location/Timing	Implementation Agent	Implementation Stages*			Relevant Legislation & Guidelines
				D	C	O	
S.6.9.4/ S.6.11.2	Landscape and Visual). Disturbance of individuals of the shrub/tree species Pavetta hongkongensis and tree Aquilaria sinensis of conservation interest should be avoided. A buffer to the dripline of each plant of at least 1m radius should be demarcated to prohibit disturbance. Where loss of this species would be unavoidable, it is recommended that these plants may be transplanted to safe locations within the same habitat. Following transplantation, regular monitoring of the trees and seedlings should be conducted by a suitably qualified botanist/horticulturist over a 12-month period.						
S.6.9.5	Mitigation to minimise impacts on aquatic ecology Trench excavation works for the raw water mains near the stream courses should be carried out in the dry season as far as practicable.	Work site / During construction period	WSD/ Contractor	√	√		
S.6.9.6	Mitigation to minimise general disturbance to wildlife Noise mitigation measures through the use of quiet construction plant shall be implemented to minimise disturbance to habitats adjacent to the works areas.	Work site / During construction period	Contractor		√		
S.6.9.7	General good site practice - Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. - Construction activities shall be restricted to works areas that shall be clearly demarcated. The works areas shall be reinstated after completion of the works. - Waste skips shall be provided to collect general refuse and construction wastes. The wastes shall be disposed of timely and properly off-site. - General drainage arrangements shall include sediment and oil traps to collect and control construction site run-off. - Open burning on works sites is illegal, and shall be strictly prohibited. Stove fires on works sites shall also not be allowed. Temporary fire fighting equipment shall be provided particularly in woodland areas.	Work site / During construction period	Contractor		√		EIAO
S.6.9.8.	Re-vegetation to reinstate works areas As far as possible compensatory planting shall use native plants of the same species that occur in the adjacent woodland habitat and have flowers/fruits attractive to wildlife. On-site compensatory planting should be conducted on at least a one to one basis.	Work site in woodland / Immediately following works	Contractor		√		EIAO
Operation Phase(Ecology)							
NA	NA	NA	NA	NA	NA	NA	NA
Construction Phase (Landscape and Visual Impact)							
S7.9	- All existing top-soil shall be conserved and reused - Temporary hoarding barriers shall be of a recessive visual appearance in both colour and form. - Chromatic colour scheme with appropriate texture should be considered while designing the external surface of the proposed SHW Raw Water Booster Pumping Station in order to visually merge the proposed structures into the surrounding landscape.	During construction phase	Contractor		√		EIAO-TM
Operation Phase(Landscape and Visual Impact)							

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				D	C	O	
S7.9	- New compensatory planting works shall be carried out as early as possible in the construction period which allow maximum time for establishment and more mature trees when the works completed. - Landscape or compensatory planting shall be provided where appropriate for enhancing greening and achieving visual screening. In this aspect, compensatory tree planting shall be considered. Selection of plant species shall match with the surrounding vegetation type and form for consistency of landscape resources and visual comfort, for matching with the local habitat. Tree planting shall be firstly considered when the amenity area or slope is feasible for planting trees so as to provide visual screening.	During operation phase	Contractor			√	EIAO-TM
S7.9	- Planting area of approximately 2000 to 3000mm wide where fast growing tall trees with dense foliage shall be provided along the site boundary of Siu Ho Wan Raw Water Booster Pumping Station for visual screening. - For planting close to or surrounded by natural terrain, compensatory planting should be arranged in a semi natural manner where feasible in order to blend the new planting into natural environment. - The newly planted trees, shrubs and grassed areas are maintained throughout the first 12 months of the operation stage.	During operation phase	Contractor			√	EIAO-TM
Waste Management							
S10.5.1 - S10.5.3	<i>Good Site Practices</i> Good site practices during the construction activities include: - Nomination of approved personnel, such as a site manager, to be responsible for good site practices and making arrangements for collection of all wastes generated at the site and effective disposal to an appropriate facility. - Training of site personnel in proper waste management and chemical waste handling procedures. - Provision of sufficient waste disposal points and regular collection for disposal. - Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. - Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. - A Waste Management Plan shall be prepared and submitted to the Engineer for approval. One may make reference to ETWB TCW No. 15/2003 for details. - A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) shall be proposed. - In order to monitor the disposal of C&D material at public filling areas and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements to be implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. One may make reference to WBTC No. 21/2002 for details.	Work site / the During construction period	Contractor		√		Waste Disposal Ordinance (Cap.54) WBTC No.21/2002, ETWB TCW No. 15/2003
S10.5.4	<i>Waste Reduction Measures</i> Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction	Work site / During planning & design stage, and construction	WSD/Contractor	√	√		WBTC No.4/98, ETWB TCW No. 15/2003

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EIA Ref	Environmental Protection Measures	Location/Timing	Implementation Agent	Implementation Stages*			Relevant Legislation & Guidelines
				D	C	O	
	include: - Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. - Separate labelled bins shall be provided to segregate aluminium cans from other general refuse generated by the work force, and to encourage collection of by individual collectors. - Any unused chemicals or those with remaining functional capacity shall be recycled. - Maximising the use of reusable steel formwork to reduce the amount of C&D material. - Proper storage and site practices to minimise the potential for damage or contamination of construction materials. - Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	stage					
S10.5.9	<i>General Refuse</i> General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material.	Work site / During the construction period	Contractor		√		Public Health and Municipal Services Ordinance (Cap. 132)
S10.5.7	<i>Construction & Demolition (C&D) Material</i> When disposing C&D material at a public filling area, it shall be noted that the material shall only consist of soil, rock, concrete, brick, cement plaster/mortar, inert building debris, aggregates and asphalt. The material shall be free from marine mud, household refuse, plastic, metals, industrial and chemical waste, animal and vegetable matter, and other material considered to be unsuitable by the Filling Supervisor.	Work site / During the construction period	Contractor		√		WBTC No. 4/98, 21/2002, 25/99, 12/2000 ETWB TCW No. 15/2003
S10.5.8	<i>Chemical Wastes</i> If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes shall be used. Appropriate labels shall be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosives, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes generated at the Chemical Waste Treatment Centre at Tsing Yi, or other licenced facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. All chemical wastes shall be removed from the waterworks installations at the first instance.	Work site / During the construction period	Contractor		√		

Note: N/A Not applicable

*D – Design; C – Construction; O – Operation