

**Contract No. SPW 01/2025
Environmental Team for
Construction of Yuen Long
Effluent Polishing Plant Stage
1**

Monthly EM&A Report (July 2026)

Drainage Services Department

2026-08-13

Contract No. SPW 02/2025

**Independent Environmental Checker for
Construction of Yuen Long Effluent Polishing Plant
Stage 1 (2025-2026)**

Environmental Permit No. EP-565/2019/A

**EP Condition 3.4 – Monthly EM&A Report for July
2026**

18 August 2026

By Hand and By E-mail

For the attention of: Mr. Simon H.M. YEUNG – CRE(C)

Dear Sir,

I refer to the captioned Monthly EM&A Report for July 2026 (Revision 1) which was received via e-mail and certified by the Environmental Team Leader on 17 August 2026 (ref.: PL-202608013).

I have no comment on the captioned report and hereby verify that this submission has complied with the requirements set out in the EM&A Manual (in particular Sections 12.4.1 and 12.4.4) for the captioned project, in accordance with Condition 3.4 of Environmental Permit No. EP-565/2019/A.

Should you have any queries regarding the captioned or require any further information, please contact the undersigned at 2828 5875.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

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Ref : PL-202608013

By Email

17 August 2026

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Attn: Mr. Brandon Wong, IEC

Dear Sir,

Contract No. SPW 01/2025
Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Environmental Permit No. EP-565/2019/A
EP Condition 3.4 – Monthly EM&A Report for July 2026

Pursuant to Clause 3.4 of Environmental Permit No. EP-565/2019/A for the captioned project, we are pleased to submit the certified Monthly EM&A Report for July 2026 (Rev.1) for your verification.

Should you have any queries regarding the captioned or require any further information, please contact the undersigned at 2531 0243.

Yours faithfully,
For and on behalf of
Aurecon Hong Kong Limited

A handwritten signature in black ink, appearing to be "V. Lu", written over a horizontal line.

Vincent M. J. Lu
Environmental Team Leader

Encl.

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EXECUTIVE SUMMARY

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. SPW 01/2025 “Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1”. Drainage Services Department (DSD) has appointed Aurecon Hong Kong Limited (Aurecon) to undertake the Environmental Team services for the project and implement the EM&A works.

This is the 64th Monthly EM&A Report for the construction phase which summaries findings of the EM&A programme during the reporting period from 1 July 2026 to 31 July 2026. As informed by the Contractors, major activities in the reporting month were:

Contract DC/2019/10:

- Pipe works for Modification of Existing Inspection Chamber and Inlet Effluent Pipes from Nam Sang Wai Sewage Pumping Station
- ABWF and E&M works at IW (Remaining area)
- RC works at PST Stage 2
- RC work at SDB
- ELS and RC work at ADB and Underpass
- RC works at AGS
- RC and ABWF structure at TTS
- ABWF and E&M works at STB
- ELS work at Sludge Digester no. 4-6 and UC4
- E&M work at Sludge Digester no. 1-3
- Water test and rectification work at Sludge Digester no. 1-3
- E&M work at Biogas Holder no. 2
- Disposal of construction waste as indicated in **Appendix I**.

Contract DE/2020/01:

- No site works in July
- Disposal of construction waste as indicated in **Appendix I**.

Breaches of Environmental Quality Performance Limits (AL levels)

No Action and Limit Level exceedance was recorded for air quality monitoring and construction noise monitoring in the reporting month.

No Action and Limit Level exceedance was recorded for water quality monitoring in the reporting month.

No Action / Limit exceedance was recorded for noise levels at stations (NMS1 and NMS2) in close proximity to the two active ardeid night roosts (ANR1 and ANR2) observed within the Survey Area during the reporting month.

No Action / Limit exceedance for the ecological monitoring of birds in the reporting month.

No corrective actions were required according to the Event and Action Plans for the Monitoring Parameters.

Land Contamination

Regular site inspection was carried out to ensure the recommended mitigation measures are properly implemented. The signed final Contamination Assessment Report (CAR) for “Main Storeroom & Workshops”, “Mechanical Workshop”, “Waste Storage Area”, “SAS Thickener House-1”, “SAS Thickener House-2” and “Screening Press House” were submitted to EPD respectively on 1st November 2021, 23rd November 2021, 29th April 2022, 6th July 2022, 19th June 2023 and 29th October 2024. No contaminated soil and ground water was found within the Main Storeroom & Workshop, Mechanical Workshop, Waste Storage Area, SAS Thickener House-1, SAS Thickener House-2 and Screening Press House, and no remedial action is required for these locations.

Complaint Log

No complaints were received in the reporting period.

Notifications of Summons and Successful Prosecutions

No notifications of summons and successful prosecutions were received in the reporting period.

Reporting Change

There were no reporting changes during the reporting month.

Future Key Issues

The main works anticipated in the next three months are as follow:

Contract DC/2019/10:

- Fixing GRC panel at CLP Substation
- Pipe works for Modification of Existing Inspection Chamber and Inlet Effluent Pipes from Nam Sang Wai Sewage Pumping Station
- ABWF and E&M works at IW (Remaining area)
- RC works at PST Stage 2
- RC work at SDB
- RC work at Underpass
- RC work at ADB
- External UU works at site-wide
- RC structure at AGS and Water Tightness Test
- RC structure at TTS and Water Tightness Test and AWBF Works
- ABWF, E&M and T&C work at STB
- ELS work at UC2 and UC3
- E&M, Water Tightness Test and Lining work at Sludge Digester no. 1-3
- RC work at PP1

- ELS work at Sludge Digester no. 4-6 and UC4
- E&M work at Biogas Holder no. 2 & 3
- Demolition of existing consolidation tank at Zone 3

Contract DE/2020/01:

- Installation of PV panels

1 INTRODUCTION

1.1 Background

- 1.1.1 The existing Yuen Long Sewage Treatment Works (YLSTW) is a secondary sewage treatment works, located at Yuen Long Industrial Estate serves Yuen Long Town, Yuen Long Industrial Estate and Kam Tin areas with a design capacity of 70,000 m³ per day. Based on the latest planning data, the volume of sewage generation from the YLSTW catchment is estimated to increase to 150,000 m³ per day after 20 years. In addition, since YLSTW has been operating for over 30 years and most of its facilities are of out-dated design and reaching the end of their design life, the environmental facilities of the plant will also be upgraded and hence improving the adjacent environment through upgrading the YLSTW to Yuen Long Effluent Polishing Plant (YLEPP). The Location of Proposed Yuen Long Effluent Polishing Plant is given in **Figure 1**.
- 1.1.2 YLSTW will be reconstructed in two stages to increase its capacity to 150,000 m³ per day. The proposed works, as Stage 1 of the project, will firstly increase the treatment capacity to 100,000 m³ per day. In the course of Stage 1 construction, about half of the existing facilities of YLSTW would be demolished, while the other half would be kept in operation to maintain the sewage treatment service for Yuen Long area. This 72-month works contract (Contract DC/2019/10) commenced on 9 November 2020. Demolition of existing YLSTW for construction of new treatment facilities are in progress.
- 1.1.3 Under Contract DE/2020/01, this 54-month works contract commenced on 13 June 2022. Design and installation of E&M system, and the supply and installation of PV panels are in progress.
- 1.1.4 The Project is a designated project under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499) for which Environmental Impact Assessment (EIA) report and Environmental Monitoring and Audit (EM&A) Manual was approved by EPD (Register No.: AEIAR-220/2019) on 25 April 2019. The Environmental Permit (EP) (EP No. EP-565/2019) was issued by EPD on 26 April 2019. Variation of the Environmental Permit (EP) (EP No. EP-565/2019/A) was issued by EPD on 26 November 2024.
- 1.1.5 Fugro Technical Services Limited was appointed as the Environmental Team (ET) by Drainage Services Department (DSD) to undertake the Environmental Team services for the Project and implement the EM&A works under the Contract No. DC/2019/10 Yuen Long Effluent Polishing Plant -Main Works for Stage 1 (hereinafter referred as “the Contract”) for the period from July 2020 to 6 July 2023.
- 1.1.6 Aurecon Hong Kong Limited (Aurecon) has been appointed as the Environmental Team (ET) by Drainage Services Department (DSD) to undertake the Environmental Team services for the Project and implement the EM&A works under the Contract from July 2023. Air quality, noise, water quality and ecological monitoring, site inspections and auditing (as scheduled) under EM&A programme with effect from 7 July 2023 was conducted by Aurecon. Aurecon is undertaking the preparation (including reporting of monitoring results), certification by ET Leader and submission of this report to EPD.
- 1.1.7 All ET roles and responsibilities under the EP for this Project were undertaken by Fugro up to 6 July 2023 and by Aurecon with effect from 7 July 2023. Air quality, noise, water quality and ecological monitoring, site inspections and auditing (as scheduled) under EM&A programme up to 6 July 2023 was conducted by Fugro, and the corresponding monitoring results were shared with Aurecon for the purposes of reporting in this report.

- 1.1.8 This is the 64th Monthly EM&A report to document the findings of site inspection activities and EM&A programme for this project from 1 July 2026 to 31 July 2026 (reporting period) and is submitted to fulfil Condition 3.4 of the EP and Section 12.4.1 of the EM&A Manual. According to Condition 4 of the EP, electronic reporting is provided on the internet website to facilitate public inspection of the report.

1.2 Project Organization

- 1.2.1 The Project Organization structure is shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1**.

Table 1 Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Proponent (Drainage Services Department)	Engineer	Mr. Wallace Cheng	2594 7473
	Engineer	Mr. George Lam	2594 7572
Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Simon Yeung	9075 7172
	Senior Resident Engineer	Mr. Patrick Leung	6124 8838
Independent Environmental Checker (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker (IEC)	Mr. Brandon Wong	2828 5875
	Environmental Specialist	Mr. Gabriel Wong	5269 5723
Contractor (DC/2019/10) (Paul Y. - CREC Joint Venture)	Environmental Officer	Mr. Henry Lau	5490 5271
	Environmental Officer	Mr. Chris Cheng	6389 2975
Contractor (DE/2020/01) (JEC)	Environmental Officer	Mr. Chris Cheng	6389 2975
Environmental Team (Aurecon Hong Kong Limited)	Environmental Team Leader (ETL)	Mr. Vincent Lu	6346 5908

1.3 Construction Programme and Activities

- 1.3.1 The construction programme of this project is shown in **Appendix A**.

1.4 Works undertaken during the month

- 1.4.1 The main construction works carried out in the reporting period were as follow:

Contract DC/2019/10:

- Pipe works for Modification of Existing Inspection Chamber and Inlet Effluent Pipes from Nam Sang Wai Sewage Pumping Station
- ABWF and E&M works at IW (Remaining area)
- RC works at PST Stage 2
- RC work at SDB
- ELS and RC work at ADB and Underpass
- RC works at AGS
- RC and ABWF structure at TTS
- ABWF and E&M works at STB
- ELS work at Sludge Digester no. 4-6 and UC4
- E&M work at Sludge Digester no. 1-3
- Water test and rectification work at Sludge Digester no. 1-3

- E&M work at Biogas Holder no. 2

Contract DE/2020/01:

- No site works in July

1.4.2 The environmental mitigation measures corresponding to the main construction works implemented in the reporting period can be referred to **Appendix J**.

1.5 Status of Environmental Licences, Notification and Permits

1.5.1 A summary of the status of the relevant permits, licenses and/or notifications on environmental protection for this project is presented in **Table 2**.

Table 2 Environmental Licenses, Notification and Permits Summary

Permit/ Notification/ License	Reference No	Valid From	Valid Till
Environmental Permit	EP-565/2019/A	26-Nov-2024	The whole construction and operation period of the Project
Contract DC/2019/10			
Notification of Works under APCO	461616	6-Nov-2020	The whole construction and operation period of the Project
Construction Waste Disposal Billing Account	7038933	20-Nov-2020	The whole construction and operation period of the Project
Registration as Chemical Waste Producer under WDO	WPN5213-528-P2796-03	4-Feb-2021	The whole construction and operation period of the Project
Construction Noise Permit (24 hrs Pump)	GW-RN0129-26	6-Feb-2026	5-Aug-2026
Construction Noise Permit (General 24 hrs)	GW-RN0500-26	16-June-2026	15-July-2026
Construction Noise Permit (General 24 hrs)	GW-RN0835-26	25-Jun-2026	24-Sep-2026
Construction Noise Permit (Percussive Pilling)	PP-RN0026-26	1-Jul-2026	31-Oct-2026
Water Pollution Control Ordinance (WPCO) (CAP. 358) Licence pursuant to Section 20 (Variation of Licence Pursuant to Section 28 of WPCO)	WT00038102-2021	1-Dec-2022	31-Aug-2026
Wastewater Discharge License (YLEPP)(Variation) 4 nos. Wetsep	Ref. 493768	11-Dec-2023	31-Aug-2026
Wastewater Discharge Licence (WA1)	WT00041585-2022	27-July-2022	31-July-2027
Marine Dumping Permit (Excavated Sediment of Category L – Suitable for Capping Exhausted Contaminated Mud Pits)	EP/MD/27-012	4-June-2026	3-Sep-2026

Permit/ Notification/ License	Reference No	Valid From	Valid Till
Marine Dumping Permit (Type 1 – Open Sea Disposal (Dedicated Site) and Type 2 – Confined	EP/MD/27-011	4-June-2026	3-Dec-2026
Revised Sediment Quality Report (SQR)	(14) in EP60/G1/12-583V	4-Dec-2025	25-Nov-2027
Contract DE/2020/01			
Construction Waste Disposal Billing Account	7044285	21-Jun-2022	The whole construction and operation period of the Project
Registration as Chemical Waste Producer under WDO	WPN5517-528-T4062-01	8-Sep-2022	The whole construction and operation period of the Project

2 AIR QUALITY

2.1 Monitoring Requirement

- 2.1.1 In accordance with the EM&A Manual, 1-hour Total Suspended Particulates (TSP) levels should be measured at the designated air quality monitoring stations to ensure that any deteriorating air quality could be readily detected and timely action shall be undertaken to rectify such situation. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days when the highest dust impact occurs.

2.2 Monitoring Equipment

- 2.2.1 A portable direct reading dust meter was used to carry out the 1-hour TSP monitoring at the designated monitoring stations.
- 2.2.2 Wind data monitoring equipment is provided at the conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. The equipment installation location is agreed with the ER and the IEC.
- 2.2.3 The details of the air quality monitoring equipment used are summarized in **Table 3**.

Table 3 Air Quality Monitoring Equipment

Item	Location	Brand	Model	Equipment	Serial No.
1	AM1	Sibata	Model LD-5R	SIBATA LD-5R Digital Dust Indicator	882106
2	AM2				882109
					851819

2.3 Monitoring Methodology for Direct Reading Dust Meter

- 2.3.1 SIBATA LD-5R Digital Dust Indicator complete with appropriate sampling inlets are employed for 1-hour TSP measurement.

Measuring Procedures

- Pulling up the air sampling inlet cover
- Changing the Mode 0 to BG
- Pressing Start/Stop switch
- Turning the knob to SENSI.ADJ and press it
- Pressing Start/Stop switch again
- Returning the knob to the position MEASURE slowly
- Pressing the timer set switch to set measuring time
- Removing the cap and start the measurement

Equipment Calibration

1-hour dust meter should be calibrated at 1 year intervals. The calibration certificates are presented in **Appendix D**.

2.4 Maintenance and Calibration for Direct Reading Dust Meter

- 2.4.1 ET shall submit sufficient information to the IEC to prove that the instrument is capable of achieving comparable results to the HVS. The instrument should also be calibrated regularly, and the 1-hour sampling shall be determined periodically by the HVS to check the validity and accuracy of the results measured by direct reading method. The calibration certificate for the direct reading dust meter is provided in **Appendix D**.

2.5 Monitoring Locations

- 2.5.1 In accordance with the EM&A Manual, two air quality monitoring locations, namely AM1, AM2 are covered under Contract No. SPW 01/2025 “Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1”.
- 2.5.2 The most updated locations are summarized in **Table 4** and the locations of the air monitoring stations shown in **Figure 2**.

Table 4 Air Quality Monitoring Location

Monitoring Station	Location
AM1	Topfine Machinery (China) Co. Ltd
AM2	Squatter house at the west of YLSTW

2.6 Monitoring Results

- 2.6.1 The schedule of air quality monitoring in reporting month is provided in **Appendix E**.
- 2.6.2 No Action / Limit Level exceedance was recorded for 1-hr TSP at AM1 and AM2.
- 2.6.3 No effect that arose from the other special phenomena and work progress of the concerned site was noted during the current monitoring month.
- 2.6.4 The weather and meteorological conditions during the monitoring are provided in **Appendix K**.
- 2.6.5 The Air Quality Monitoring Results of 1-hr TSP are summarized in **Table 5**. Detailed monitoring data are presented in **Appendix F**.

Table 5 Summary of Air Quality Monitoring Results

Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
1-hour TSP				
AM1	34	32– 36	291	500
AM2	34	32 – 36	296	

- 2.6.6 The Action and Limit Levels for air quality monitoring have been set and are presented in **Appendix C**.
- 2.6.7 The Event and Action Plan for air quality is given in **Appendix H**.
- 2.6.8 The wind data obtained from the on-site wind station during the reporting period is provided in **Appendix G**.

2.7 Comparison of 1-hr TSP Monitoring Results with EIA Predictions

2.7.1 The monitoring data of 1-hr TSP was compared with the EIA predictions as summarized in **Table 6**.

Table 6 Comparison of 1-hr TSP data with EIA predictions

Monitoring Station	EIA ID	Predicted Maximum Hourly Average TSP Concentration (µg/ m ³)	Maximum 1-hr TSP Monitoring Results in July 2026 (µg/ m ³)
Content			
AM1	ASR A09	205-451	36
AM2	ASR A11		36

Notes: Predicted TSP Concentration extracted from Table 3.20 of EIA Report, AEIAR-220/2019

2.7.2 The 1-hr TSP monitoring results at AM1 and AM2 were below the Predicted Maximum Hourly Average TSP Concentration in the approved Environmental Impact Assessment (EIA) Report.

3 NOISE

3.1 Monitoring Requirement

- 3.1.1 In accordance with the EM&A Manual, Leq (30min) monitoring is conducted at least once a week when there are Project-related construction activities being undertaken within a radius of 300 m from the monitoring stations. The monitoring is conducted during the construction phase between 0700 and 1900 on normal weekdays at the designated monitoring locations.

3.2 Monitoring Equipment

- 3.2.1 As referred to the requirements of the Technical Memorandum (TM) issued under the NCO, the sound level meters in compliance with the International Electro technical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications should be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. The measurements may be accepted as valid only if the difference between calibration levels obtained before and after the noise measurement is less than 1.0 dB (94 dB $\pm$ 0.1 dB).
- 3.2.2 The details of the noise monitoring equipment used are summarized in **Table 7**.

Table 7 Construction Noise Monitoring Equipment

Item	Brand	Model	Equipment	Serial No.
1	Lutron	SL-4033SD	Lutron SL-4033SD Sound Level Meter	I.491835
2	Lutron	SL-4033SD	Lutron SL-4033SD Sound Level Meter	I.571098
3	Lutron	SL-4033SD	Lutron SL-4033SD Sound Level Meter	I.518013
4	RION	NC-75	RION NC-75 Acoustic Calibrator	35124527
5	RION	NC-75	RION NC-75 Acoustic Calibrator	35124529
6	RION	NC-75	RION NC-75 Acoustic Calibrator	34724243

3.3 Monitoring Parameters and Frequency

- 3.3.1 The parameters and frequencies of impact noise monitoring is summarized in **Table 8**.

Table 8 Monitoring Parameters and Frequencies of Noise Monitoring

Parameter	Frequency
L _{Aeq} (30 min) (L ₁₀ and L ₉₀ will be recorded for reference)	At each station at 0700-1900 hours on normal weekdays at a frequency of once a week when construction activities are underway

3.4 Monitoring Methodology

- 3.4.1 Noise measurement should be conducted as the following procedures:
- The monitoring station will set at a point 1m from the exterior of the sensitive receivers building façade and set at a position 1.2m above the ground. (In case façade measurement is not feasible on-site, a free field correction of +3dB(A) will be applied.)

- The battery condition was checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time will set as follows:
 - frequency weighting: A
 - time weighting: Fast
 - measurement time: 30 minutes
- Prior to and after noise measurement, the meter shall be calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement will consider invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
- Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
- Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s. Calibration certificate of the anemometer is provided in **Appendix D**.

3.5 Maintenance and Calibration

3.5.1 Maintenance and calibration procedures should also be carried out, including:

- The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator should be calibrated annually by a HOKLAS laboratory.
- Relevant calibration certificates are provided in **Appendix D**.

3.6 Monitoring Locations

3.6.1 In accordance with the EM&A Manual, three noise monitoring locations, namely CM1, CM2 and CM3 are covered under Contract No. SPW 01/2025 “Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1”.

3.6.2 The most updated locations are summarized in **Table 9** and the locations of the noise monitoring stations shown in **Figure 3**.

Table 9 Construction Noise Monitoring Location

Monitoring Station ID	Location	Measurements
CM1	Squatter house at the north of YLSTW	Free Field
CM2	Squatter house at the west of YLSTW	Free Field
CM3	Squatter house at the east of YLSTW	Free Field

Note: Correction of +3 dB(A) shall be made to the free field measurements.

3.7 Monitoring Results

3.7.1 The schedule of noise monitoring in reporting month is provided in **Appendix E**.

3.7.2 No Action / Limit Level exceedance of location CM1, CM2 and CM3 was recorded for construction noise in the reporting month.

- 3.7.3 During the monitoring month, at CM2, road traffic from the squatter house at the west of Yuen Long STW was observed, at CM3, road traffic from the Nam Sang Wai Road was observed. No effect that arose from the other special phenomena and work progress of the concerned site for CM1 was noted during the current monitoring month.
- 3.7.4 No raining and wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation. The weather and meteorological conditions during the monitoring month are provided in **Appendix K**.
- 3.7.5 The Construction Noise Monitoring Results are summarized in **Table 10**. Detailed monitoring data are presented in **Appendix F**.

Table 10 Summary of Construction Noise Monitoring Results

Time Period	Noise Monitoring Stations	Leq (30min) dB(A) (Range)	Action Level	Limit Level dB(A)
0700-1900 hrs on normal weekdays	CM1	59.6 – 61.9	When one documented complaint is received	75
	CM2	59.6 – 61.4		75
	CM3	59.2 – 62.1		75

Remark: CM1, CM2 and CM3: Free-field measurement (+3 dB(A) correction has been applied).

- 3.7.6 The Action and Limit Levels for Construction Noise have been set and are presented in **Appendix C**.
- 3.7.7 The Event and Action Plan for Construction Noise is given in **Appendix H**.

3.8 Comparison of Noise Monitoring data with EIA Predictions

- 3.8.1 The noise monitoring data was compared with the EIA predictions as summarized in **Table 11**.

Table 11 Comparison of Noise monitoring data with EIA predictions

Monitoring Station	EIA ID	Maximum Predicted Mitigated Construction Noise Level Leq (30min) dB(A)	Maximum Construction Noise Level in July 2026 Leq (30min) dB(A)
CM1	NSR1	72	61.9
CM2	NSR2	74	61.4
CM3	NSR3	75	62.1

Notes: Predicted TSP Concentration extracted from Table 4.9 of EIA Report, AEIAR-220/2019

- 3.8.2 The construction noise monitoring results at CM1, CM2 and CM3 were below the Maximum Predicted mitigated Construction Noise Level in the approved Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-220/2019).

4 WATER QUALITY

4.1 Monitoring Requirement

- 4.1.1 In accordance with the EM&A Manual, impact monitoring is conducted for three days per week at mid-flood and mid-ebb with sampling and measurement at the designated monitoring stations.

4.2 Monitoring Equipment

- 4.2.1 Equipment used for in-situ measurement and water sampling during impact water quality monitoring is summarised in **Table 12**. The equipment is in compliance with the requirements set out in the EM&A Manual. All in-situ monitoring instruments were calibrated by a HOKLAS- accredited laboratory. Calibration of temperature, DO, salinity, pH and turbidity is conducted in three-month interval. Calibration certificates for the water quality monitoring equipment are attached in **Appendix D**.

Table 12 Water Quality Monitoring and Sampling Equipment

Parameter	Equipment	Model	Range	Equipment Accuracy	Serial No.
Temperature Dissolved Oxygen Salinity pH Turbidity	YSI Water Quality Multipara meter	YSI ProDSS	Tem: -5 to 50°C DO: 0-50mg/L DO%: 0-500% Sal: 0 to 70ppt pH: 0 to 14 pH units Turb: 0- 4000NTU	Temp: $\pm 0.2^{\circ}\text{C}$; DO: $\pm 0.1\text{mg/L}$ or 1% for 0-20mg/L; $\pm 8\%$ for 20-50mg/L Sal: $\pm 1\%$ of reading or 0.1 ppt (whichever is greater) pH: ± 0.2 units Turb: $\pm 3\%$ or 0.3NTU (FNU) (whichever greater)	24G101659
Current Velocity and Direction	Current Meter	Valeport Model 106	Speed: 0.03 to 5 m/s Direction: 0 to 360	Speed: $\pm 1.5\%$ of reading above 0.15m/s, ± 0.004 m/s below 0.15m/s Direction: $\pm 2.5^{\circ}$	N/A
Water Sampling	Water Sampler	Aquatic Research Instruments 2.2L Horizontal Water Sampler HWS2.2CP	N/A	N/A	N/A
Positioning	DGPS	GARMIN GPSMAP 78s	N/A	GPS: $\pm 1\text{m}$	N/A
Water Depth	Echo Sounder	Garmin ECHO 101	Maximum depth: 457.2 m	0.1 m	N/A

4.3 Equipment Calibration

- 4.3.1 All in-situ monitoring instruments shall be checked, calibrated and certified by a laboratory accredited under HOKLAS before use and subsequently re-calibrated at three monthly intervals throughout all stages of the water quality monitoring programme. Responses of sensors and electrodes shall be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.

- 4.3.2 Sufficient stocks of spare parts shall be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring is uninterrupted even when some equipment is under maintenance or calibration etc.

4.4 Monitoring Parameters

The monitoring parameters and frequency for both in-situ measurement and laboratory analysis are summarised in **Table 13**.

Table 13 Monitoring Parameters and Frequency

Parameters	Monitoring Frequency
<u>In-situ Measurement</u> Turbidity (in NTU), pH, DO (in mg/L and % of saturation), Temperature (in °C), Salinity (in ppt)	3 days per week, at mid-flood and mid-ebb tides (The interval between two sets of monitoring shall not be less than 36 hours.)
<u>Laboratory Analysis</u> Suspended Solids	

4.5 Monitoring Operation

- 4.5.1 The position of water monitoring station will be located by the Differential Global Positioning System (DGPS) or equivalent. The water depth of water monitoring station will be determined by the echo sounder affixed to the bottom of the monitoring vessel or a portable echo sounder depth detector.
- 4.5.2 Once the location and water depth are confirmed, water samples shall be collected at 3 depths (1m below the surface, mid-depth, and 1m above the seabed) of the water column at each location, except where water depth is less than 6m, the mid-depth will be omitted and if the water depth is less than 3m only the mid-depth station will be monitored. Duplicate marine samples will be collected in each sampling event. The water samples are decanted from the water sampler into the water sample bottles. The bottles are labelled, tightly sealed, placed into a cool-box and packed with ice ready for delivery to the laboratory.
- 4.5.3 Two consecutive measurements of water quality data, including pH, salinity, dissolved oxygen and turbidity will be recorded according to the monitoring locations. Separate deployment of the monitoring instruments and water samplers will be conducted for the consecutive measurements or samplings. The monitoring location / position, time, water depth, sampling depth, tidal stages, weather conditions, sea condition and any special phenomena or work underway nearby shall also be recorded. If the difference in value between the first and second measurement of DO or turbidity parameters is more than 25% of the value of the first reading, the reading shall be discarded and further readings should be taken.

4.6 Laboratory Measurement / Analysis

Background

- 4.6.1 Acumen Laboratory and Testing Limited (HOKLAS Reg: No.241) and ALS Technichem (HK) Pty Limited (HOKLAS Reg. No. 066) have been appointed to conduct the laboratory measurement or analysis of water sample in this project.

Quality Assurance / Quality Control

4.6.2 The laboratory incorporates a variety of QA/QC monitoring programme into their testing system. Where applicable or available, the quality of the analysis will be monitored by conducting the following QC analysis:

For each batch of 20 samples:

- A minimal of 1 laboratory method blank will be analyzed;
- A minimal of 1 sample duplicate will be analyzed;
- A minimal of 1 sample matrix spike will be analyzed.

4.7 Monitoring Locations

4.7.1 In accordance with the EM&A Manual, water quality monitoring should be carried out at 3 designated monitoring locations.

4.7.2 The coordinates of the monitoring location stated in the EM&A Manual is summarised in **Table 14** and the locations of the water quality monitoring stations shown in **Figure 4**.

Table 14 Coordinates of Water Quality Monitoring Locations

Sampling Location		Easting	Northing
M1	Serve as the control station at upstream location of construction site (Flood Tide) / Serve as the impact station at downstream location of construction site (Ebb Tide)	821 086	836 656
M2	Serve as the impact station at downstream location of construction site (Flood Tide)/ Serve as the control station at upstream location of construction site (Ebb Tide)	820 996	836 246
M3	Serve as the impact station at downstream location of construction site (Flood Tide) / Serve as the control station at upstream location of construction site (Ebb Tide)	820 645	820 335

4.8 Monitoring Results

4.8.1 The schedule of water quality monitoring in reporting month is provided in **Appendix E**.

4.8.2 Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in **Appendix F**.

4.8.3 Due to safety concerns and weather was unstable, the water quality monitoring for mid-flood on 25 July 2026 have been cancelled by the Strong Wind Signal No. 3.

4.8.4 The weather and meteorological conditions during the monitoring are provided in **Appendix K**.

4.8.5 Number of Action/ Limit exceedance recorded in the reporting month at each impact stations is summarized in **Table 15**.

Table 15 Summary of Water Quality Exceedance

Sampling Location	Exceedance Level	DO		Turbidity		Suspended Solids		Total	
		Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
M1	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
M2	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
M3	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
Total	Action	0	0	0	0	0	0	0	
	Limit	0	0	0	0	0	0	0	

4.8.6 During the reporting period, no Action and Limit Level exceedance was recorded for water quality monitoring.

4.8.7 The Event and Action Plan for water quality is given in **Appendix H**.

4.9 WetSeps

Four WetSeps are deployed within the site for treatment of the site runoff prior to disposal in compliance with the conditions stipulated in the water discharge license (Variation of WPCO Discharge Licence was approved by EPD on 11 December 2023 with immediate effect).

5 ECOLOGY MONITORING

5.1 Ardeid Night Roost Monitoring

5.1.1 Monitoring Requirement

With reference to the Pre-construction Ardeid Night Roost survey (January 2021) findings that identified two active ardeid night roosts within 100 m from the Project boundary (one approximately 40 m east of the Project boundary and the other one approximately 45 m northeast of the Project boundary), consequent monthly monitoring of these active ardeid night roosts was done in accordance to the **EM&A Manual Sections 7.3.10 and 7.3.11**; and **EIA Report Section 8.12.1.3**.

The Ardeid Night Roost Monitoring survey was conducted with the following objectives:

- Check the status and location of any active ardeid night roosts within 100 m from the Project boundary (Survey Area) with reference to **EM&A Manual Section 7.3.10**;
- Monitor the effectiveness of proposed mitigation measures and detect any unpredicted indirect ecological impacts arising from the proposed Project as specified in **EIA Report Section 8.12.1.3**; and
- Recommend remedial actions, where appropriate, based on the impact monitoring results (**EIA Report Section 8.12.1.3**) for the implementation of the contractors as only necessary.

5.1.2 Monitoring Methodology

5.1.2.1 Monitoring Area

With reference from **Section 7.3.10** of the **approved EM&A Manual**, the monitoring was conducted in areas within 100 m from the Project boundary. The monitoring area and vantage points for direct observation of any active night roosts are shown in **Appendix O**.

5.1.2.2 Monitoring Activity

5.1.2.2.1 Active Ardeid Night Roost

Current Ardeid Night Roost Monitoring Survey focused on the two active night roosts within the Survey Area (100 m from the Project boundary) that were previously confirmed during the pre-construction Survey. These roosts include one that was approximately 40 m east of the Project boundary and another around 45 m northeast of the mentioned boundary (**Section 3** of the **approved Pre-construction Survey Report of Ardeid Night Roost**). Primary data collection with the use of 8x and 10x binoculars; and field guides including the Avifauna of Hong Kong (Carey et al., 2001) and The Birds of Hong Kong and South China (Viney et al., 2005), was from about one hour before sunset time until one hour after sunset with reference to **Section 7.3.10 of the approved EM&A Manual**. Sunset time was according to Hong Kong Observatory (HKO). The survey was conducted on 24 July 2026.

Species composition, abundance and locations of night roosts were recorded. Species composition, abundance and location of pre-roosting aggregations (PRA) were also noted. PRAs are gatherings of avian individuals prior to flying into a night roost (Moore and Switzer, 1998). The time of return of the ardeids to the pre-roost and the final night roost were also recorded. Direct observations were made from vantage points adjacent the Project site with clear and unobstructed view of any active roosting location (s) within the Survey Area. However, aside from the established vantage points for the focused mangrove strips along Shan Pui River, observations were also conducted throughout the whole 100 m study site to cover other areas aside from the mangrove strips.

Observations such as any changes in site condition or disturbances detected or observed at the monitoring locations, including both construction and non-construction related activities, during the monitoring activity was recorded with reference to **Section 7.3.10** of the **approved EM&A Manual**. Additionally, other observations such as bird droppings on the ground which may possibly indicate presence of night roosts were noted in addition to noting of the roosting substrate (i.e. substrate species and approximate height). Any breeding activity usage of the roosting locations within the Survey Area was also noted.

5.1.2.2.2 Noise Monitoring

Monitoring Locations, Frequency, Time and Parameters

The noise monitoring locations were established at 22°28'4.25"N, 114°1'41.32"E; and 22°28'10.43"N, 114°1'42.17"E for NMS1 and NMS2 stations, respectively. Monitoring frequency was only once a month in concurrence with the construction phase monthly monitoring of the active night roosts for correlation. Monitoring time for both stations started around 19:18, the earliest final night roost period recorded during the survey and lasted for 30 minutes. **Table 16** presents the monitoring parameters.

Table 16 Noise Monitoring Parameters (For Active Ardeid Night Roost Survey)

Parameter	Frequency and Period
LAeq (30 min) (L10 and L90 will be recorded for reference)	Monthly in concurrence with the construction phase monthly monitoring of the active night roosts

The Action and Limit Levels for Active Ardeid Night Roost Survey have been set and are presented in **Appendix C**.

However, exceedances to the limit level were endeavoured to be prevented by the full implementation of mitigation measures (**Section 4.2** of the **approved Pre-construction Survey Report of Ardeid Night Roost** and **Sections 5.2.1-5.2.2** of this **Report**) during the construction phase.

Event and Action Plan

In instances of exceedance/s in the action and/or limit levels, the different measures as specified in **Table 3.3 Event and Action Plan for Construction Noise** of the **approved EM&A Manual** and likewise presented in **Appendix H** of this report shall be implemented as responses.

5.1.3 Monitoring Results

5.1.3.1 Active Ardeid Night Roost

The monitoring activity was conducted on 24 July 2026 and started around 18:07 (one hour before sunset) on a low tide condition. During the pre-roost period (PRP), the period when avian individuals gather first before flying into a night roost, individual of Chinese Pond Heron *Ardeola bacchus* (2), Great Egret *Ardea alba* (2) and Little Egret *Egretta garzetta* (6) were observed around 18:43 at the mudflat east side ANR1 of the Project boundary while individuals of Chinese Pond Heron *Ardeola bacchus* (3), Great Egret *Ardea alba* (2) and Little Egret *Egretta garzetta* (3) were concurrently observed in pre-roost aggregate (PRA) at the mudflat northeast side ANR2 of the Project boundary (Table 17).

For the final night roost at around 19:18, individuals of Chinese Pond Heron *Ardeola bacchus* (17), Great Egret *Ardea alba* (3) and Little Egret *Egretta garzetta* (15) were observed at the roosting area ANR1 utilizing the understory to canopy layer of the roosting substrate *Sonneratia apetala* and *S. caseolaris*; while other individuals of Chinese Pond Heron *Ardeola bacchus* (6), Great Egret *Ardea alba* (2) and Little Egret *Egretta garzetta* (9) were noted at ANR2 that utilized the understory to canopy layer of the aforementioned roosting substrate.

No disturbance (construction related and/or otherwise) to the active night roost areas was observed during the period. Bird droppings were observed within the vicinity of the roosting area located east of the Project boundary.

Table 17 Active Ardeid Night Roost Survey Findings

Date: 24 July 2026			Sunset Time: 19:07 Tidal Condition: Low Tide			
Pre-roost Period			Final roost Period			
Time of Return:	Chinese Pond Heron <i>Ardeola bacchus</i> , Great Egret <i>Ardea alba</i> and Little Egret <i>Egretta garzetta</i> (18:43)		Time of Return:	Chinese Pond Heron <i>Ardeola bacchus</i> , Great Egret <i>Ardea alba</i> and Little Egret <i>Egretta garzetta cinerea</i> (19:18)		
Parameters	Location		Parameters	Location		
	ANR1	ANR2		ANR1	ANR2	
Pre-roost Aggregation (Y/N):	Y	Y	Substrate Species:	<i>Sonneratia apetala</i> and <i>S. caseolaris</i>	<i>Sonneratia apetala</i> and <i>S. caseolaris</i>	
Substrate Species:	<i>Sonneratia apetala</i> and <i>S. caseolaris</i>	<i>Sonneratia apetala</i> and <i>S. caseolaris</i>	Substrate Height (m):	Approx. 5 m.	Approx. 4 m.	
Substrate Height (m):	Approx. 5 m.	Approx. 4 m.				
Ardeid Species Composition	Abundance (individuals)		Ardeid Species Composition	Abundance (individuals)		
	ANR1	ANR2		ANR1	ANR2	
Chinese Pond Heron <i>Ardeola bacchus</i>	2	3	Chinese Pond Heron <i>Ardeola bacchus</i>	17	6	
Great Egret <i>Ardea alba</i>	2	2	Great Egret <i>Ardea alba</i>	3	2	
Little Egret <i>Egretta garzetta</i>	6	3	Little Egret <i>Egretta garzetta</i>	15	9	
Grey Heron <i>Ardea cinerea</i>	-	-	Grey Heron <i>Ardea cinerea</i>	-	-	
Breeding Activity (Y/N):	ANR1	N				
	ANR2	N				

Notes:

Pre-roost Period: Period when avian individuals gather first before flying into a night roost

ANR1: Active ardeid night roost area east of the Project boundary

ANR2: Active ardeid night roost area northeast of the Project boundary

-: not recorded

5.1.3.2 Noise Monitoring

Noise monitoring activities were conducted on 24 July 2026 in concurrence with the construction phase monthly monitoring of the pre-identified active night roosts. Noise monitoring started at 19:18 and lasted for 30 minutes, until 19:48.

Current survey results showed noise levels (LAeq (30 min.)) at both monitoring stations to be well below the action and limit levels as presented in **Table 18**.

Table 18 Noise Monitoring Parameters (For Active Ardeid Night Roost Survey)

Frequency and Period	Location	Start Time	LAeq (30 min.)	Action Level	Limit Level
Monthly in concurrence with the construction phase monthly monitoring of the active night roosts	NMS1	19:18	52.2	65.5 dB(A) ¹	72.2 dB(A) ²
	NMS2	19:18	54.5		

Notes:

NMS1= Noise monitoring station 1 located east of the Project boundary

NMS2= Noise monitoring station 2 located northeast of the Project boundary

¹= Behavioural response of some kind more likely to occur (Wright et al. 2010)

²= Flight with abandonment of the site becomes the most likely outcome of the disturbance (Wright et al. 2010)

No Action / Limit exceedance was recorded for noise levels at stations (NMS1 and NMS2) in close proximity to the two active ardeid night roosts (ANR1 and ANR2) observed within the Survey Area during the reporting month.

5.1.4 Detection of Any Unpredicted Indirect Ecological Impacts Arising from the Project

No unpredicted indirect ecological impacts that arose from the project were noted during the current monitoring period.

5.1.5 Summary

5.1.5.1 Status and Location of Any Active Ardeid Night Roost

Two active ardeid night roost areas (ANR1 and ANR2) were observed within the Survey Area during the July 2026 monitoring period. These roosts were located at the mangrove strips in the east and northeast portions of the Project boundary. These were used by individuals of Chinese Pond Heron *Ardeola bacchus*, Great Egret *Ardea alba* and Little Egret *Egretta garzetta*.

5.1.5.2 Noise Monitoring Results

Both noise levels at each of the monitoring stations were below the action and limit levels.

5.2 Ecological Monitoring of Birds

5.2.1 Monitoring Requirement

With reference to **Section 7.3.6** of the **EM&A Manual**, monthly ecological monitoring of birds, focusing on avifauna species of conservation interest, and overwintering waterbirds utilising wetland habitats in Fung Lok Wai and Nam Sang Wai as well as along Shan Pui River and Kam Tin River within the monitoring area (500 m from the Project Boundary)

was conducted in addition to monitoring on the utilization of wetland habitats by birds also within the same monitoring area as required by **Section 7.3.1** of the **EM&A Manual**.

5.2.2 Monitoring Methodology

5.2.2.1 Monitoring Area

The monitoring area included wetland habitats in Fung Lok Wai and Nam Sang Wai as well as along Shan Pui River and Kam Tin River within 500m from the Project boundary with reference to **Section 7.3.6** of the **EM&A Manual**. The location of point count sites and transect routes is shown in **Appendix P**.

5.2.2.2 Monitoring Activity

Avifauna surveys on the different wetland habitats using the transect count and point count methods were conducted last 7 July 2026 (daytime) and 24 July 2026 (night-time) which started at around 07:15 and 19:30 respectively. Additionally, the survey overlooking the mudflats and mangroves in the Shan Pui River was concurrently conducted on the same date with the daytime survey during the low tide (generally 1.5m or below) period, and also started at around 07:15. The methodology for the monitoring activity followed **Sections 8.3.3.6** and **8.3.3.7** of the **EIA Report (AEIAR-220/2019)** and as detailed below.

For the transect count and point count methods, the presence and relative abundance of avifauna species at various wetland habitats were recorded visually and aurally.

Avifauna species were detected either by direct sighting or by their call and identified to species level. Any notable behaviours such as feeding, roosting and breeding were also recorded. Bird species encountered outside the point count locations and walk transects were also recorded. A comprehensive list of species recorded from the Assessment Area was prepared, with wetland-dependence, conservation and/or protection status indicated. Ornithological nomenclature in this report follows Carey et al. (2001), Viney et al. (2005) and the most recent updated list from Hong Kong Bird Watching Society (HKBWS).

Noise levels were recorded with the methodology and equipment as mentioned in **Section 3.4** and **Section 3.2**, respectively, of this EM&A report. The parameter as shown in **Table 19** was recorded at each of the point count locations.

Table 19 Noise Monitoring Parameters

Parameter	Frequency and Period
LAeq (30 min) (L10 and L90 will be recorded for reference)	Monthly in concurrence with the monthly ecological bird monitoring at the different point count locations

In addition to recording of noise levels, any changes in site condition or disturbances detected or observed at the monitoring locations, including both construction and non-construction related activities with reference to **Section 7.3.7** of the **EM&A Manual** were also noted.

5.2.2.3 Data Analysis

For the bird communities, the monitoring results were compared to pre-construction baseline condition during the dry and wet seasons as summarized in the Baseline Bird Survey Report with reference to **Section 7.3.8** of the **EM&A Manual**. However, to further account the seasonality, monitoring results of the current month were compared to the results of the corresponding month of the baseline data.

The data for point count method and transect walk method were presented separately to account for the difference in the survey effort of the two methods. For each method, abundance and species composition of the avifauna communities during the monitoring month were summarized.

To check the presence of variation in bird abundance between baseline and impact monitoring, t-test was applied ($\alpha = 0.05$). Moreover, to check the presence of variation in bird species diversity, the two-sided Hutcheson t-test was also used. The two-sided Hutcheson t-test was developed as a method to compare the diversity of two community samples using the Shannon diversity index (Hutcheson 1970). Shannon diversity index will be computed using the formula, $H' = \sum_{i=1}^s p_i \ln p_i$ where, H' = Shannon Diversity Index; P_i = proportion of the population of species; i = number of species in sample; $\ln$ = natural logarithm. Shannon diversity index is used as it accounts the proportion (relative abundance) of each species; thus, it gives a better description of diversity than a plain number of species (species richness).

The Action and Limit Levels for ecological monitoring of birds have been set and are presented in **Appendix C**.

Wetland habitat utilization during the construction phase monitoring shall only be compared seasonally, hence the comparison shall only be done after all the data (dry season and wet season) were collected with reference to **Appendix 8.5** of the approved **EIA Report**.

5.2.3 Monitoring Results

Results of the avifauna survey on the different habitats within the monitoring area using the transect count and point count methods as conducted last 7 July 2026 (daytime) and 24 July 2026 (night-time) which started at around 07:15 and 19:30 respectively, are presented in **Sections 5.2.3.1** and **5.2.3.2**. Meanwhile, results for the surveys overlooking the mudflats and mangroves in the Shan Pui River, with monitoring activities conducted on similar date with the daytime survey during the low tide (generally 1.5m or below) period around 07:15 had results presented in **Section 5.2.3.3**.

5.2.3.1 Abundance

5.2.3.1.1 All Avifauna Species

An overall total of 361 avifauna individuals were recorded in the monitoring area during the July 2026 monitoring period, of which 279 individuals were recorded from the point count method and 82 individuals from the transect walk method. Relative to the July 2017 baseline data (point count method =165; and transect walk = 36), increases were noted for both point count and transect walk methods.

Details of these findings are summarized in **Table 20**.

Table 20 Abundance of all Avifauna Species

Abundance of all Avifauna Species				
EIA Report ID	EM&A Manual ID	Jul-17	Jul-26	Remarks
Point Count Method				
P1	FLW1	0	35	+
P2	FLW2	4	5	+
P3	FLW3	0	8	+
P4	FLW4	10	7	-
P5	FLW5	21	67	+
P6	FLW6	6	27	+
P7	FLW7	10	56	+
P9	SP/NSW3	42	23	-
P10	SP/NSW2	23	9	-
P11	NSW1	43	16	-
P12	SP/NSW1	6	26	+
Total		165	279	+
Mean		15	25.4	+
Transect Walk Method				
Fung Lok Wai	FLW	35	28	-
Nam Sang Wai	NSW	1	15	+
YLIE-CW	YLIE-CW	0	39	+
Total		36	82	+
Mean		12	27.3	+

Notes:

+ increased abundance;

- decreased abundance;

= no change in abundance.

No Action / Limit exceedance was recorded for the abundance of all avifauna species (including but not limited to overwintering waterbirds) for both the point-count and transect walk method.

5.2.3.1.2 Avifauna Species of Conservation Importance

Of the 361 avifauna individuals recorded in the monitoring area during the July 2026 monitoring period, 202 individuals (point count method = 170 individuals; transect walk method = 32 individuals) were of conservation importance. With reference to July 2017 data, (point count method = 80; and transect walk = 8), increases were noted for both point count method and transect walk method. Details of these findings are summarized in **Table 21**.

Table 21 Abundance of Species of Conservation Importance

Abundance of Species of Conservation Importance				
EIA Report ID	EM&A Manual ID	Jul-17	Jul-26	Remarks
Point Count Method				
P1	FLW1	0	25	+
P2	FLW2	2	1	-
P3	FLW3	0	1	+
P4	FLW4	2	3	+
P5	FLW5	3	51	+
P6	FLW6	3	7	+
P7	FLW7	4	46	+
P9	SP/NSW3	35	18	-
P10	SP/NSW2	15	4	-
P11	NSW1	10	1	-
P12	SP/NSW1	6	13	+
Total		80	170	+
Mean		7.3	15.5	+
Transect Walk Method				
Fung Lok Wai	FLW	8	6	-
Nam Sang Wai	NSW	0	2	+
YLIE-CW	YLIE-CW	0	24	+
Total		8	32	+
Mean		2.7	10.7	+

Notes:

+ increased abundance;

- decreased abundance;

= no change in abundance.

No Action / Limit exceedance was recorded for the abundance of Species of Conservation Importance in both point-count and transect walk method.

5.2.3.2 Diversity (Species Richness¹ and Shannon Diversity Index²)

5.2.3.2.1 All Avifauna Species

A total of 34 avifauna species (species richness) were recorded during the July 2026 monitoring period, of which, 31 species were recorded by the point count method while 22 species were noted by the transect walk method. Relative to the baseline data (point count method = 26 species; transect walk method = 18 species), an increase in total species richness for both point count method and transect walk method were recorded. In terms of Shannon diversity index (H') values, current result in point count method showed a slight decrease (t -value = 0.04; t -crit = 1.97; p -value = 9.72E-01; α = 0.05) relative to the baseline reference value. The current results in the transect walk method showed an increase (t -value = 1.31; t -crit = 2.00; p -value = 1.96E-01; α = 0.05) from baseline reference value. Details of these findings are summarized in **Table 22**, **Appendix F.6.1**, and **Appendix F.6.2**.

¹ actual number of species

² use to account the proportion (in terms of relative abundance) of each species

Table 22 Shannon Diversity Index Value of all Avifauna Species

Shannon Diversity Index Value of all Avifauna Species				
EIA Report ID	EM&A Manual ID	Jul-17	Jul-26	Remarks
Point Count Method				
P1	FLW1	**	1.23	+
P2	FLW2	0.35	1.05	+
P3	FLW3	**	1.49	+
P4	FLW4	1.56	1.75	+
P5	FLW5	1.82	2.39	+
P6	FLW6	1.79	1.42	-
P7	FLW7	1.70	1.09	-
P9	SP/NSW3	1.50	1.77	+
P10	SP/NSW2	1.90	1.89	-
P11	NSW1	1.98	2.19	+
P12	SP/NSW1	0.87	2.08	+
Overall H'		2.73	2.70	-
Species Richness		26	31	+
Transect Walk Method				
Fung Lok Wai	FLW	2.54	2.37	-
Nam Sang Wai	NSW	0	1.84	+
YLIE-CW	YLIE-CW	**	2.31	+
Overall H'		2.60	2.83	+
Species Richness		18	22	+

Notes:

** result when no species recorded; + increased Shannon diversity index (H'); - decreased Shannon diversity index (H'); = no change in Shannon diversity index (H')

No Action / Limit exceedance was recorded for the species diversity of all avifauna species in both point count and transect walk method.

5.2.3.2.2 Avifauna Species of Conservation Importance

Of the 34 avifauna species identified during the July 2026 monitoring period, 14 species were of conservation importance (point count method = 13 species; transect walk method = 7 species). Meanwhile, relative to the baseline values in July 2017 (point count method = 5 species; transect walk method = 3 species), an increase in number of species with conservation importance was recorded for both point count method and transect walk method. In terms of Shannon diversity index (H'), there is an increase for point count method (t-value = 3.41; t-crit = 1.97; p-value = 7.56E-04; α = 0.05) and an increase for transect walk method (t-value = 2.94; t-crit = 2.18; p-value = 1.24E-02; α = 0.05) relative to the baseline reference values. Details of these findings are summarized in **Table 23**, and **Appendix F.6.3**.

Table 23 **Shannon Diversity Index Value of Species with Conservation Importance**

Shannon Diversity Index Value of Species with Conservation Importance				
EIA Report ID	EM&A Manual ID	Jul-17	Jul-26	Remarks
Point Count Method				
P1	FLW1	**	0.44	+
P2	FLW2	0	0	=
P3	FLW3	**	0	+
P4	FLW4	0	1.10	+
P5	FLW5	0.64	1.94	+
P6	FLW6	1.10	1.15	+
P7	FLW7	1.04	0.62	-
P9	SP/NSW3	1.00	1.30	+
P10	SP/NSW2	0.99	1.39	+
P11	NSW1	1.37	0	-
P12	SP/NSW1	0.87	1.27	+
Overall H'		1.36	1.74	+
Species Richness		5	13	+
Transect Walk Method				
Fung Lok Wai	FLW	0.90	1.33	+
Nam Sang Wai	NSW	**	0	+
YLIE-CW	YLIE-CW	**	1.39	+
Overall H'		0.90	1.71	+
Species Richness		3	7	+

Notes:

** result when no species recorded; 0 computation result from only one recorded species;

+ increased Shannon diversity index (H'); - decreased Shannon diversity index (H'); = similar Shannon diversity index (H')

No Action / Limit exceedance was recorded for the species diversity of avifauna species with conservation importance in both point count and transect walk method.

5.2.3.3 Wetland Habitat Utilization

Avifauna communities were observed during the current monitoring period in the different wetland habitats, i.e. mangrove, modified watercourse, ponds, and reed bed.

With reference to **Section 7.3.1** of the **EM&A Manual**, the utilization of the wetland habitats by birds within the monitoring area was recorded and monitored.

5.2.3.3.1 All Avifauna Species

During the current monitoring period, majority of the different wetland habitats were observed with Very Low (VL) abundance. In terms of species richness, different wetland habitats were generally observed with VL – L (Very Low to Low) or M (Moderate) number of species (**Table 24**).

Table 24 Wetland habitat utilization of all avifauna species

Wetland Habitats	Area Description	Abundance ¹	Species Richness ²
Modified Watercourse	Confluence of Shan Pui River and Kam Tin River	VL	VL – L
	Shan Pui River adjacent to Project site	VL	M – H
	Upper course of Shan Pui River along YLIE	VL	M
Ponds	Active Ponds adjacent to Project site in Fung Lok Wai	VL	VL – L
	Active Ponds North to Nullah 2 in Fung Lok Wai	L	M
	Inactive Ponds in Fung Lok Wai	L	H – VH
	Active and Inactive Ponds in Nam Sang Wai	VL	L
Mangrove	Mangrove within Assessment Area	-	-
Reedbed	Reedbed in Nam Sang Wai	-	-

Notes:

1. Abundance of all avifauna species amongst wetland habitats within the assessment area: VL = Very Low (<50 individuals); L = Low (~100 individuals); M = Moderate (~300 individuals); H = High (~500 individuals), VH = Very High (>700 individuals)
2. Species richness (total number of species) amongst wetland habitats within the assessment area: VL = Very Low (≤5 species); L = Low (~10 species); M = Moderate (~15 species); H = High (~20 species), VH = Very High (>25 species)

-: no recorded individuals

Source: approved EIA Report (AEIAR-220/2019)

5.2.3.3.2 Avifauna Species of Conservation Importance

Majority of the different wetland habitats had Very Low (VL) abundance of avifauna species of conservation importance; and were generally utilized by Very Low (VL) number of species (**Table 25**).

Table 25 Wetland habitat utilization of avifauna species of conservation importance

Wetland Habitats	Area Description	Abundance ¹	Species Richness ²
Modified Watercourse	Confluence of Shan Pui River and Kam Tin River	VL	VL
	Shan Pui River adjacent to Project site	VL	VL – L
	Upper course of Shan Pui River along YLIE	VL	VL
Ponds	Active Ponds adjacent to Project site in Fung Lok Wai	VL	VL
	Active Ponds North to Nullah 2 in Fung Lok Wai	VL – L	VL
	Inactive Ponds in Fung Lok Wai	VL – L	L – M
	Active and Inactive Ponds in Nam Sang Wai	VL	VL
Mangrove	Mangrove within Assessment Area	-	-
Reedbed	Reedbed in Nam Sang Wai	-	-

Notes:

1. Abundance of avifauna species of conservation importance amongst wetland habitats within the assessment area: VL = Very Low (<50 individuals); L = Low (~100 individuals); M = Moderate (~300 individuals); H = High (~500 individuals), VH = Very High (>700 individuals)
2. Species richness (total number of species) amongst wetland habitats within the assessment area: VL = Very Low (≤5 species); L = Low (~10 species); M = Moderate (~15 species); H = High (~20 species), VH = Very High (>25 species)

-: no recorded individuals

Source: approved EIA Report (AEIAR-220/2019)

5.2.3.4 Noise Levels

Noise levels LAeq (30 min) recorded on 7 July 2026 and 24 July 2026 (daytime and night time) from each of the point count locations during the ecological bird monitoring are shown in **Table 26**.

Table 26 Noise Monitoring Results (For Ecological Monitoring of Birds)

Frequency and Period	Location	Daytime (7/7/2026)		Night time (24/7/2026)	
		Start Time	LAeq (30 min) dB(A)	Start Time	LAeq (30 min) dB(A)
Monthly in concurrence with the ecological monitoring of birds	FLW1/ P1	09:23	57.5	19:42	55.6
	FLW2/ P2	10:09	58.6	20:25	56.5
	FLW3/ P3	10:45	57.6	21:01	54.5
	FLW4/ P4	07:08	58.8	22:00	55.9
	FLW5/ P5	07:51	58.6	21:18	56.9
	FLW6/ P6	08:38	59.2	20:33	56.7
	FLW7/ P7	09:08	60.2	19:59	57.5
	SP/NSW3/ P9	07:36	57.6	19:12	56.9
	SP/NSW2/ P10	08:21	58.1	19:54	57.8
	NSW1/ P11	09:03	59.4	20:28	56.4
	SP/NSW1/ P12	09:47	58.4	21:09	56.8

No Action / Limit exceedance was recorded for noise levels at all stations for the ecological monitoring of birds in the reporting month.

6 LANDSCAPE AND VISUAL

6.1 Audit Requirements

According to the EM&A Manual, a Landscape Architect or related professional shall be employed to audit the implementation of landscape construction works particularly during site clearance operations when the proposed tree felling and transplanting will take place and subsequent maintenance operations. Site audits should be undertaken every week during the construction phase to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. The mitigation measure recommended in the EIA Report as the audit requirements for landscape and visual, including: preservation of existing vegetation, transplanting of affected trees, compensatory tree planting, control of night-time lighting glare, erection of decorative screen hoarding and management of construction activities and facilities are summarized in **Appendix J**.

6.2 Results and Observations

To monitor and audit the implementation of landscape and visual mitigation measures for Contract DC/2019/10, 4 weekly landscape and visual site audits were carried out on 8, 15, 22 and 29 July 2026.

For Contract DE/2020/01, 1 site audit was carried on 9 July 2026 and there is no landscape or visual impact for the indoor works under Contract DE/2020/01.

No outstanding issues were reported during the reporting month. The ET Leader's Site Environmental Audit are summarized in **Appendix M**.

7 LAND CONTAMINATION

7.1 Contamination Assessment Report

- 7.1.1 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “Main Storeroom & Workshops” and the laboratory results for the sampling works (conducted between 30 June 2021 to 16 July 2021) show that there are no exceedances of the adopted RBRGs for the “Main Storeroom & Workshops”. As no contaminated soil and groundwater was found within the “Main Storeroom & Workshops”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “Main Storeroom & Workshops”. Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 1 November 2021.
- 7.1.2 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “Mechanical Workshop” and the laboratory results for the sampling works (conducted between 23 July 2021 to 4 August 2021) show that there are no exceedances of the adopted RBRGs for the “Mechanical Workshop”. As no contaminated soil and groundwater was found within the “Mechanical Workshop”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “Mechanical Workshop”. Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 23 November 2021.
- 7.1.3 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “Waste Storage Area” and the laboratory results for the sampling works (conducted between 24 November 2021 to 6 January 2022) show that there are no exceedances of the adopted RBRGs for the “Waste Storage Area”. As no contaminated soil and groundwater was found within the “Waste Storage Area”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “Waste Storage Area”. Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 29 April 2022.
- 7.1.4 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “SAS Thickener House-1” and the laboratory results for the sampling works (conducted between 13 April 2022 to 16 May 2022) show that there are no exceedances of the adopted RBRGs for the “SAS Thickener House-1”. As no contaminated soil and groundwater was found within the “SAS Thickener House-1”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “SAS Thickener House-1”. Their findings are summarized in Contamination Assessment Report (CAR) and submitted to EPD on 6 July 2022.
- 7.1.5 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “SAS Thickener House-2” and the laboratory results for the sampling works (conducted between 15 February 2023 to 23 February 2023) show that there are no exceedances of the adopted RBRGs for the “SAS Thickener House-2”. The laboratory results are compared against the adopted RBRGs and soil saturation limit (C_{sat}) for soil samples and the adopted RBRGs and the solubility limits for groundwater samples. No exceedance of RBRG are recorded for both soil samples and groundwater samples. Furthermore, no exceedance of the soil saturation limit are recorded for soil samples. However, the exceedances of solubility limits for PCRs (C9-C16) are recorded for groundwater samples collected at BH-18, BH-19, BH-20 and BH-21; and also PCRs (C17-C35) for BH-21. As no non-aqueous phase liquid (NAPL) was observed during sampling, no further sampling and remediation are required. As no contaminated soil and groundwater is found within the

“SAS Thickener House-2”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “SAS Thickener House-2”. Their findings are summarized in Contamination Assessment Report (CAR) which was certified by ET Leader and verified by IEC on 31 May 2023 and submitted to EPD on 19 June 2023.

- 7.1.6 Risk-Based Remediation Goals (RBRGs) for Industrial have been adopted for the “Screening Press House” and the laboratory results for the sampling works (conducted between 19 August 2024 to 20 August 2024) show that there are no exceedances of the adopted RBRGs for the “Screening Press House”. As no contaminated soil and groundwater was found within the “Screening Press House”, no remediation actions are required for contaminated soil and groundwater for the scheduled land use of the “Screening Press House”. Their findings are summarized in Contamination Assessment Report (CAR) which was certified by ET Leader and verified by IEC on 14 October 2024 and submitted to EPD on 20 May 2025.

8 SITE INSPECTION AND AUDIT

8.1 Site Inspection

- 8.1.1 Site audits were carried out by ET on weekly basis at least once per week to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.
- 8.1.2 In the reporting month, four site inspections for Contract DC/2019/10 were carried out on 8, 15, 22 and 29 July 2026.
- 8.1.3 In the reporting month, one site inspection for Contract DE/2020/01 was carried out on 9 July 2026.
- 8.1.4 No outstanding issues were reported during the reporting month. The ET Leader's Site Environmental Audit are summarized in **Appendix M**.

8.2 Advice on the Solid and Liquid Waste Management Status

- 8.2.1 The Contractors registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 8.2.2 The management of waste generated by the construction is presented in **Table 27**.

Table 27 Waste Generated by the Construction and Disposal Ground

Types of Waste	Disposal Ground
Inert C&D Waste (Excluding slurry and bentonite)	Tuen Mun Area 38
Inert C&D Waste (For slurry and bentonite)	Tseung Kwan O Area 137
Non-inert C&D Materials	North East New Territories Landfill (NENT) (Before 6 November 2025) South East New Territories Landfill Extension (SENTX) (From 6 November 2025) ¹
Sludge	West New Territories Landfill (WENT)
Marine Sediment	Type 1 – Open Sea Disposal: South Cheung Chau Open Sea Sediment Disposal Area Type 1 – Open Sea Disposal (Dedicate Site) and Type 2 – Confined Marine Disposal: Contaminated Mud Pit of the Confined Marine Disposal Facilities to the East of Sha Chau

Note:

1: EPD issued a memo on 6 November 2025, indicating that for works projects with WENT or NENT Landfills as the designated disposal ground for non-inert construction and demolition materials, these designated disposal grounds will be temporarily replaced by South East New Territories Landfill Extension (SENTX) in Tseung Kwan O, with immediate effect until further notice.

- 8.2.3 The monthly summary of waste flow table is detailed in **Appendix I**.
- 8.2.4 If off-site disposal is required, the excavated marine mud from the land-based works shall be disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee or other locations as agreed by the Director. The Contractor shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.

- 8.2.5 The Contractors was reminded that chemical waste should be properly handled temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.

9 NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

9.1 Non-compliance (Exceedances of AL levels)

- 9.1.1 No Action / Limit Level exceedance was recorded for 1-hr TSP level at AM1 and AM2 in the reporting month.
- 9.1.2 No Action / Limit Level exceedance was recorded for construction noise at CM1, CM2 and CM3 in the reporting month.
- 9.1.3 No Action and Limit Level exceedance were recorded for water quality at M1, M2 and M3 in the reporting month.
- 9.1.4 No Action / Limit exceedance was recorded for noise levels at stations (NMS1 and NMS2) in close proximity to the active ardeid night roosts in the reporting month.
- 9.1.5 No Action / Limit exceedance was recorded for the ecological monitoring of birds in the reporting month.
- 9.1.6 No corrective actions were required according to the Event and Action Plans for the Monitoring Parameters.

9.2 Complaints, Notification of Summons and Successful Prosecutions

- 9.2.1 No environmental complaints, notification of summons and successful prosecutions was recorded in the reporting month.
- 9.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix L**.
- 9.2.3 No corrective actions were required.

10 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURE

10.1 Implementation Status of Environmental Protection and Pollution Control / Mitigation Measures

The Contractors had implemented environmental protection and pollution control / mitigation measures as stated in the EIA Report, the EP and EM&A Manual. **Appendix J** summarized the Implementation Status of Environmental Mitigation Measures.

Further to the variation of the Environmental Permit (EP) (EP No. EP-565/2019/A) issued by EPD on 26 November 2024, the tides predicted by the Hong Kong Observatory for the tidal station at Tsim Bei Tsui for the upcoming month is presented in **Appendix Q**.

The status of required submissions under the EP as of the reporting period are summarized in **Table 28**.

Table 28 Status of submissions required under the EP

EP Condition (EP-565/2019/A)	Submission Title	Submission Status
Condition 2.9	Construction Phase Emergency Response Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.11	Pre-construction Ardeid Night Roost Survey Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
EM&A Manual Sec. 7.3.3 & 7.3.4	Baseline Bird Survey Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.12	Noise Mitigation Measures Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.13	Proposal for Minimization of Overspill Light to Ecological Sensitive Areas	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Supplementary Contamination Assessment Plan	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Main Storeroom & Workshops	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Mechanical Workshop	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Waste Storage Area	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.

EP Condition (EP-565/2019/A)	Submission Title	Submission Status
Condition 2.14	Contamination Assessment Report for SAS Thickener House-1	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for SAS Thickener House-2	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.14	Contamination Assessment Report for Screening Press House	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 2.15	Landscape and Visual Mitigation Plan	Submitted to EPD with ET certification and IEC verification, to be finalised and made available for public inspection via the dedicated website.
Condition 3.3	Baseline Monitoring Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 3.4	Monthly EM&A Report (from April 2021 to June 2026)	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 3.5	Quarterly EM&A Report (from April 2021 to June 2026)	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 4.2	Environmental Monitoring Data from April 2021 to June 2026	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.

11 FUTURE KEY ISSUES

11.1 Construction Programme for the Next Three Months

The main works anticipated in the next three months are as follow:

Contract DC/2019/10:

- Fixing GRC panel at CLP Substation
- Pipe works for Modification of Existing Inspection Chamber and Inlet Effluent Pipes from Nam Sang Wai Sewage Pumping Station
- ABWF and E&M works at IW (Remaining area)
- RC works at PST Stage 2
- RC work at SDB
- RC work at Underpass
- RC work at ADB
- External UU works at site-wide
- RC structure at AGS and Water Tightness Test
- RC structure at TTS and Water Tightness Test and AWBF Works
- ABWF, E&M and T&C work at STB
- ELS work at UC2 and UC3
- E&M, Water Tightness Test and Lining work at Sludge Digester no. 1-3
- RC work at PP1
- ELS work at Sludge Digester no. 4-6 and UC4
- E&M work at Biogas Holder no. 2 & 3
- Demolition of existing consolidation tank at Zone 3

Contract DE/2020/01:

- Installation of PV panels

11.2 Key Issues for the Coming Month

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, waste management, ecology, land contamination and landscape and visual impact issues.

11.3 Monitoring Schedules for the next three months

The tentative schedule for environmental monitoring in the next three months is provided in **Appendix E**.

12 CONCLUSION AND RECOMMENDATION

12.1 Conclusions

- 12.1.1 1-hour TSP impact monitoring was carried out in the reporting month. No Action / Limit Level exceedance at AM1 and AM2 was recorded during the period.
- 12.1.2 Construction noise monitoring was carried out in the reporting month. No Action / Limit Level exceedance at CM1, CM2 and CM3 was recorded during the period.
- 12.1.3 No Action and Limit Level exceedance was recorded for water quality at M1, M2 and M3 in the reporting month.
- 12.1.4 Ardeid night roost monitoring was carried out in the reporting month. Two active ardeid night roost areas (ANR1 and ANR2) were observed within the Survey Area. These roosts were located at the mangrove strips in the east and northeast portions of the Project boundary. No Action / Limit Level exceedance at NMS1 and NMS2 was recorded during the period.
- 12.1.5 Ecological bird monitoring was carried out in the reporting month. No Action / Limit exceedance for the ecological monitoring of birds in the reporting month.
- 12.1.6 Four environmental site inspections were carried out for Contract DC/2019/10 in the reporting month. Recommendations on mitigation measures for chemical and construction waste management was given to the Contractor for remediating the deficiencies identified during the site inspections.
- 12.1.7 One environmental site inspection was carried out for Contract DE/2020/01 in the reporting month. No recommendations on mitigation measures were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 12.1.8 Four landscape and visual site audits were carried out for Contract DC/2019/10 in the reporting month. No recommendation on mitigation measure was given to the Contractor for remediating the deficiencies identified during the site inspections.
- 12.1.9 No landscape or visual site audit was carried out for Contract DE/2020/01 in the reporting month.
- 12.1.10 No environmental complaint, notification of summons and successful prosecution was recorded in the reporting month.

12.2 Comment and Recommendations

- 12.2.1 The recommended environmental mitigation measures, as proposed in the EIA report and EM&A Manual shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.
- 12.2.2 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

Contract DC/2019/10:

Air Quality Impact

- No specific observation was identified in the reporting month.

Construction Noise Impact

- No specific observation was identified in the reporting month

Water Quality Impact

- No specific observation was identified in the reporting month.

Chemical Waste and Construction Waste Management

- Drip trap should be provided for the fuel drum at SD.

Land Contamination

- No specific observation was identified in the reporting month.

Ecological Impact

- No specific observation was identified in the reporting month.

Landscape and Visual Impact

- The broken branches should be pruned back to the union. Pruning shall follow “Guidelines on Tree Pruning” of GLTMS, DEVB (Dec 2023)

Hazard to Life

- No specific observation was identified in the reporting month.

Permit/ Licenses

- No specific observation was identified in the reporting month

Other

- No specific observation was identified in the reporting month.

Contract DE/2020/01:

Air Quality Impact

- No specific observation was identified in the reporting month

Construction Noise Impact

- No specific observation was identified in the reporting month

Water Quality Impact

- No specific observation was identified in the reporting month.

Chemical Waste and Construction Waste Management

- No specific observation was identified in the reporting month.

Land Contamination

- No specific observation was identified in the reporting month.

Ecological Impact

- No specific observation was identified in the reporting month.

Hazard to Life

- No specific observation was identified in the reporting month.

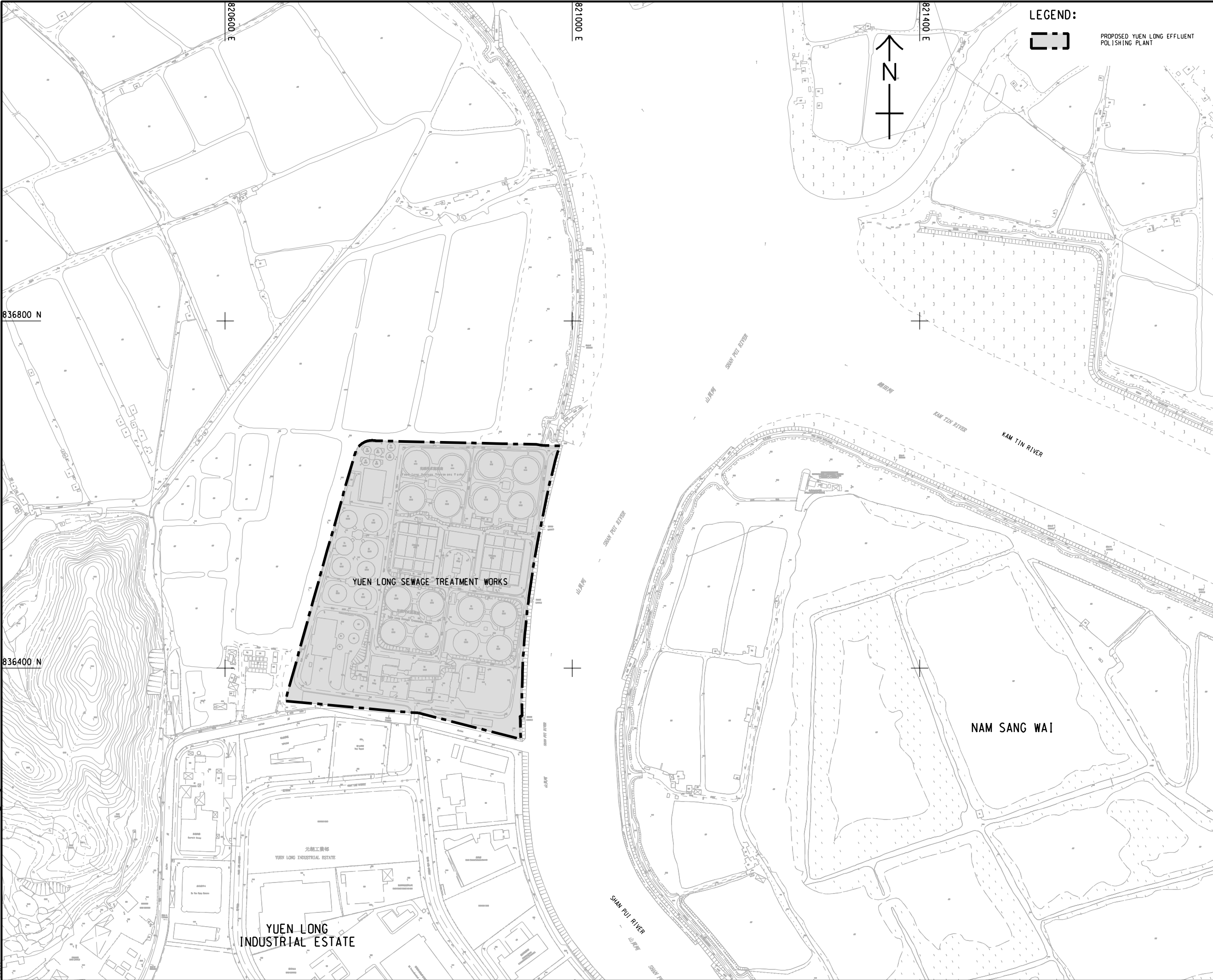
Permit/ Licenses

- No specific observation was identified in the reporting month.

Other

- No specific observation was identified in the reporting month.

Figure 1 Location of Proposed Yuen Long Effluent Polishing Plant



LEGEND:
 PROPOSED YUEN LONG EFFLUENT
POLISHING PLANT

AECOM

PROJECT
項目

**YUEN LONG EFFLUENT
POLISHING PLANT -
INVESTIGATION, DESIGN
AND CONSTRUCTION**

CLIENT
業主

 渠務署
Drainage Services Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
發行

U/R 發行	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對

STATUS
階段

SCALE
比例

A1 1: 2000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60505476

CONTRACT NO.
合約編號

CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

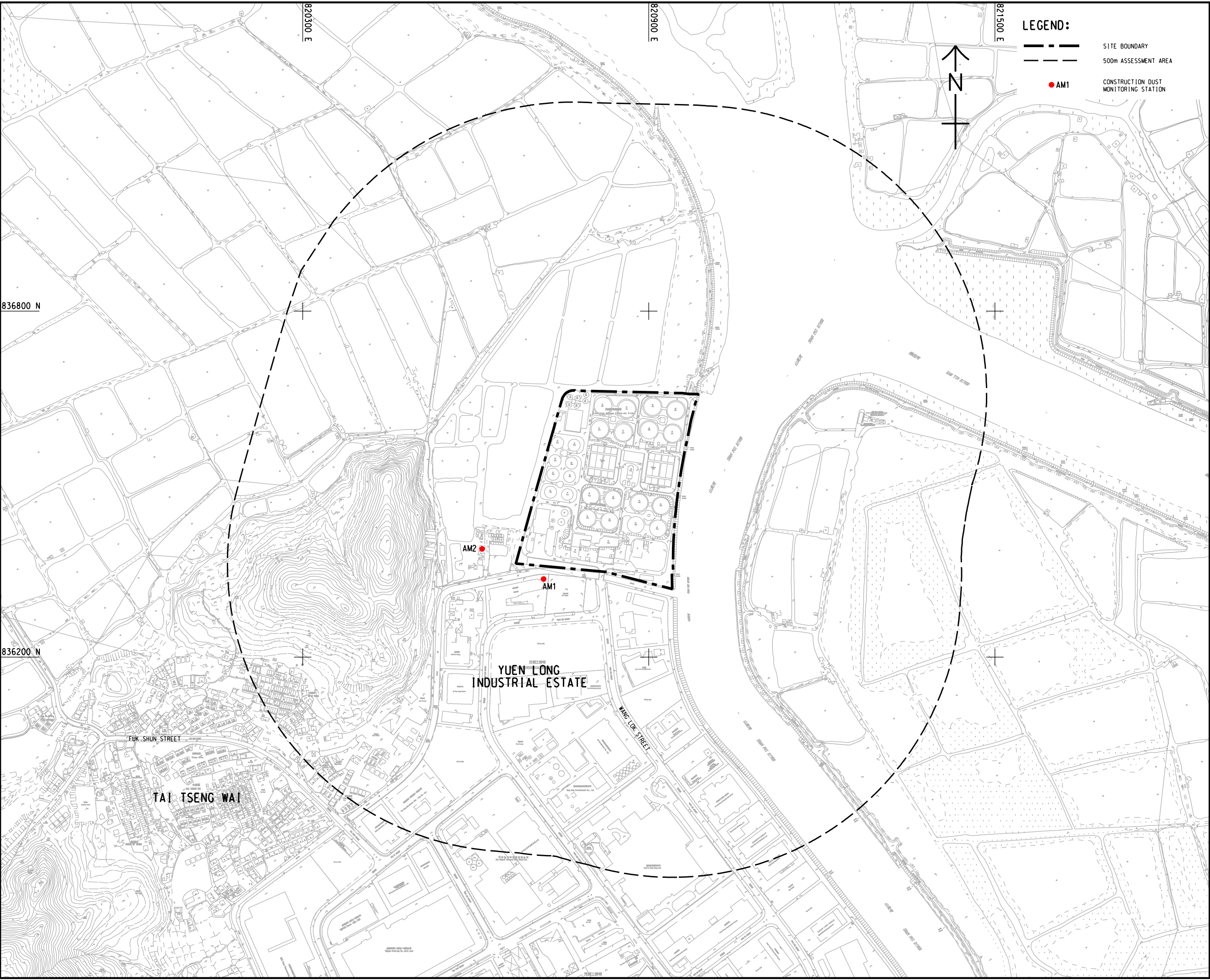
LOCATION OF PROPOSED
YUEN LONG EFFLUENT
POLISHING PLANT

SHEET NUMBER
圖紙編號

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Figure 2 Location of Construction Dust Monitoring Stations

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Pld File by: GaoYU 11/29
PATH P:\PROJECTS\60505476\DRAWING\REPORT\EM\A1\EM_A1_703.dgn



LEGEND:

--- SITE BOUNDARY

--- 500m ASSESSMENT AREA

● AM1 CONSTRUCTION DUST MONITORING STATION

AECOM

PROJECT
项目

YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

渠務署
Drainage Services Department

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ISSUE/REVISION 修訂			
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 校核

STATUS
階段

SCALE
比例

A1 1 : 3000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60505476

CONTRACT NO.
合約編號

CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

LOCATION OF CONSTRUCTION DUST MONITOING STATIONS

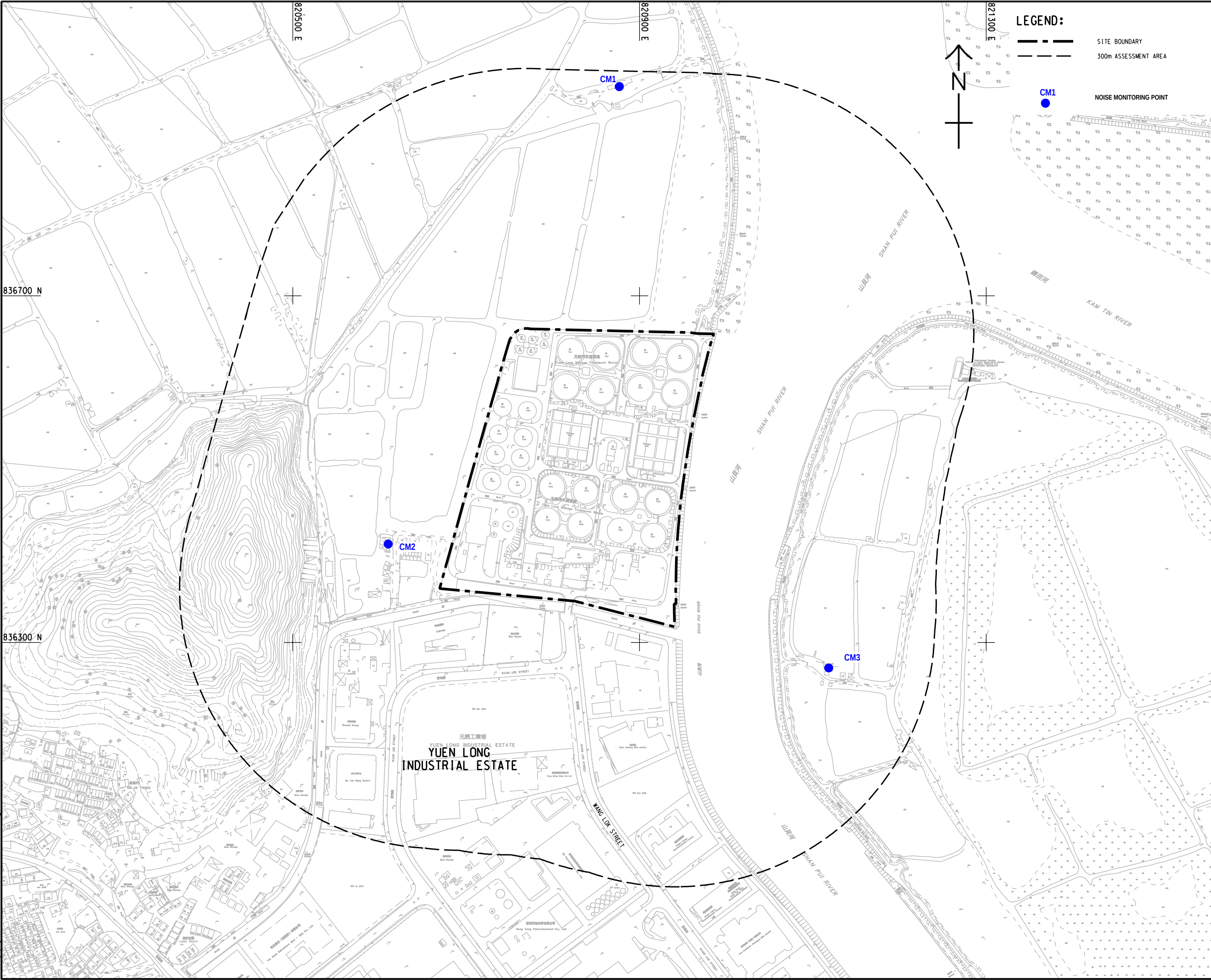
SHEET NUMBER
圖紙編號

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Figure 3 Noise Monitoring Locations

Pld File by: ZENGFX 2018/02/28
PATH: F:\Projects\60505476\DRAWINGS\SKETCH\CHK7003.dgn

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:



LEGEND:
--- SITE BOUNDARY
--- 300m ASSESSMENT AREA
● NOISE MONITORING POINT

AECOM

PROJECT
項目

YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

D 渠務署
Drainage Services Department

CONSULTANT
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ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 校核
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STATUS 階段

SCALE
比例

A1 1:2000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN 索引圖

PROJECT NO.
項目編號

60505476

CONTRACT NO.
合約編號

CE 3/2015 (DS)

SHEET TITLE 圖紙名稱

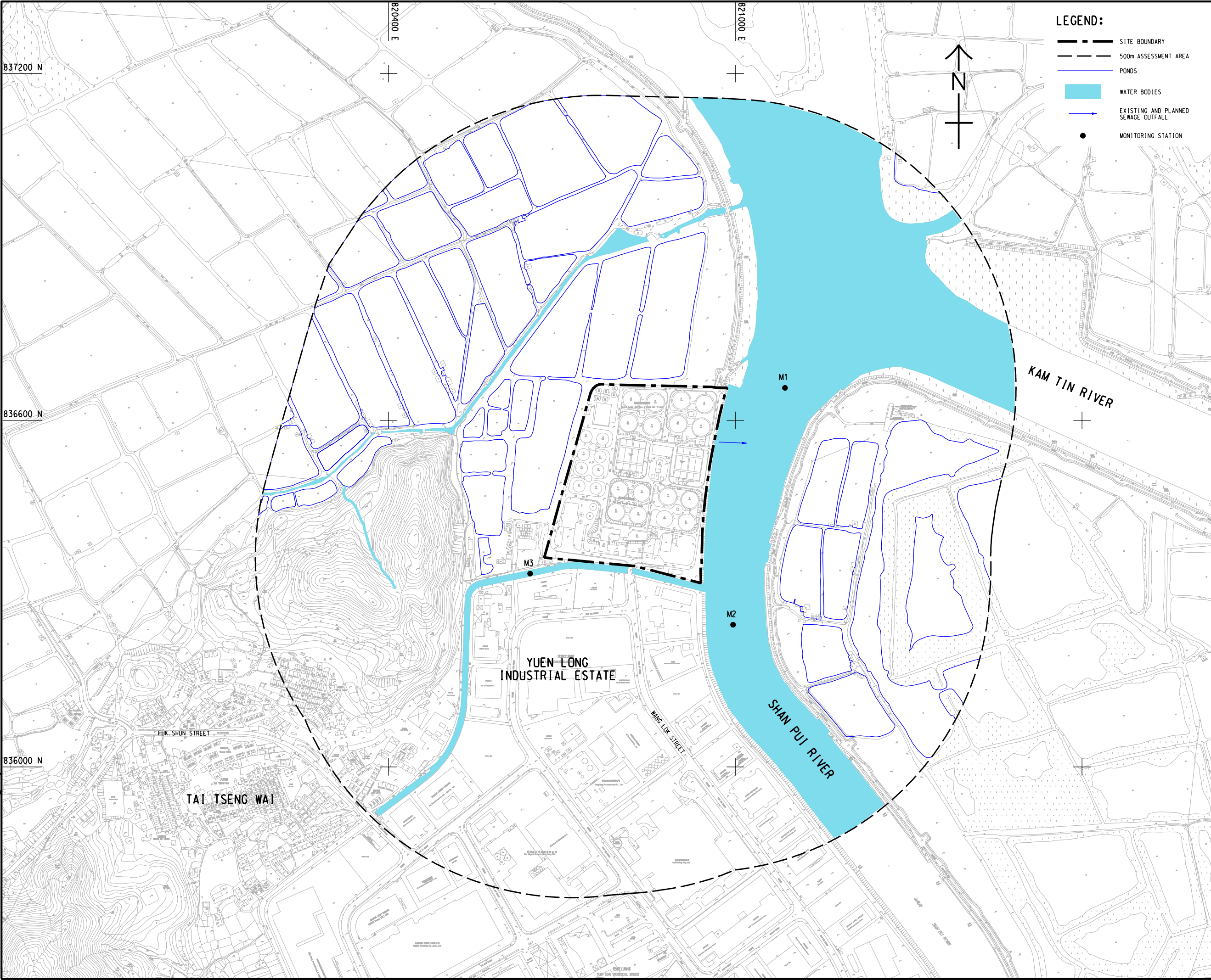
LOCATIONS OF NOISE
MONITORING POINTS

SHEET NUMBER 圖紙編號

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Figure 4 Water Quality Monitoring Locations

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Pld File by: GaoYU 12/18
PATH: P:\PROJECTS\60505476\DRAWING\REPORT\TEMP\A1\A1.dgn



- LEGEND:
- SITE BOUNDARY
 - 500m ASSESSMENT AREA
 - PONDS
 - WATER BODIES
 - EXISTING AND PLANNED SEWAGE OUTFALL
 - MONITORING STATION

AECOM

PROJECT
項目

YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

渠務署
Drainage Services Department

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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 校核

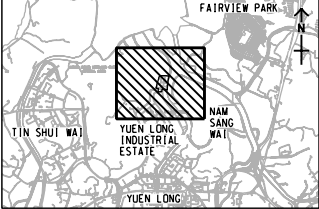
STATUS
階段

SCALE
比例

DIMENSION UNIT
尺寸單位

A3 1: 6000 METRES

KEY PLAN A3 1: 180000



PROJECT NO.
項目編號

60505476

CONTRACT NO.
合約編號

CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

LOCATIONS OF WATER QUALITY MONITORING STATIONS FOR CONSTRUCTION PHASE

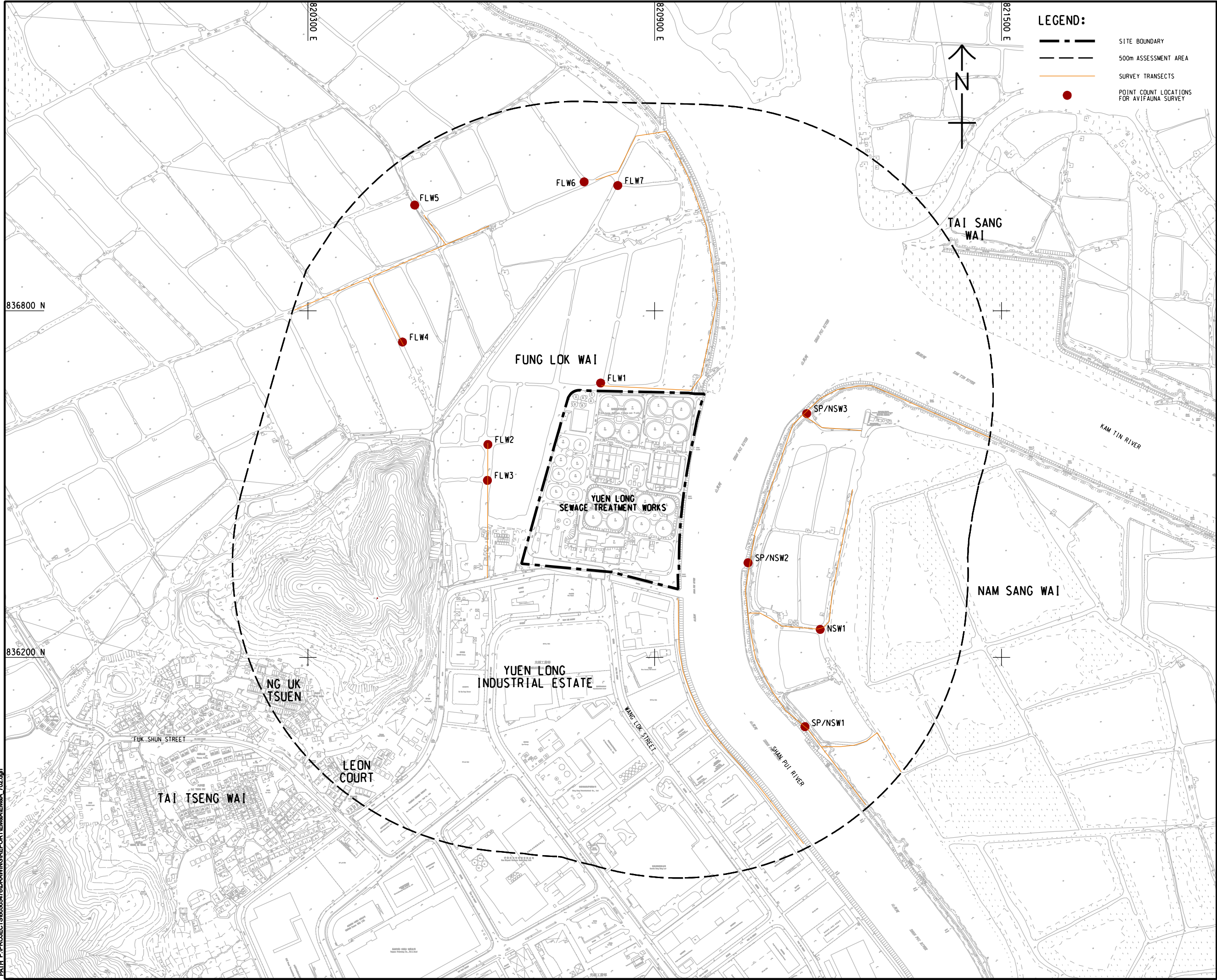
SHEET NUMBER
圖紙編號

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Figure 5 Ecology Monitoring Locations

Pld File by: ZENGFX 2018/05/30
PATH: P:\PROJECTS\60505476\DRAWING\REPORT\EM&A\A1_702.dgn

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:



- LEGEND:
- SITE BOUNDARY
 - 500m ASSESSMENT AREA
 - SURVEY TRANSECTS
 - POINT COUNT LOCATIONS FOR AVIFAUNA SURVEY

AECOM

PROJECT
项目

YUEN LONG EFFLUENT POLISHING PLANT - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
业主

渠務署
Drainage Services Department

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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 校核

STATUS
階段

SCALE
比例

DIMENSION UNIT
尺寸單位

A1 1 : 3000 METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60505476

CONTRACT NO.
合約編號

CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

ECOLOGICAL MONITORING LOCATIONS

SHEET NUMBER
圖紙編號

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Appendix A

Construction Programme

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	June				July				August				September				October				November				December					
						68				69				70				71				72				73				74					
						31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	06		
YLEPP Stage 1 - Detailed Works Programme DPv63_260715																																			
Contract Data Part 1																																			
Access Dates																																			
ADP4	Portion 4 (sd+1599d)	0	30-Jun-26*		-460	◆ Portion 4 (sd+1599d)																													
Contract Key Dates																																			
CKD8	KD8 - Completion of Civil & Structural works of Sludge Dewatering Building other contractor E&M,B	0		30-Jun-26*	-39	◆ KD8 - Completion of Civil & Structural works of Sludge Dewatering Building other contractor E&M,BS&PV) (R.KD8=12Sep25)																													
Preliminary and Preparation Works																																			
Design Submission																																			
Temporary Works Design																																			
Administration Building																																			
TWD-330	Open Cut Design - Obtain Approval	7	30-Apr-26 A	30-Apr-26 A		Approval																													
Temporary diversion scheme for Early commissioning of SD, BH1, H2S and STB																																			
TWD-1010	Temp. pipe. for SD1-2 Early Comm.-Prep(90d),Sub.&Review(30d) Comment&Resub(14d)&Appro	120	29-Dec-23 A	30-Aug-26	-215	Temp. pipe. for SD1-2 Early Comm.-Prep(90d),Sub.&Review(30d) Comment&Resub(14d)&Approval(7d)																													
TWD-990	Temp. pipe. SD1&2 and BH1 to H2S for T&C-Prep(90d),Sub.&Review(30d) Comment&Resub(14	120	30-Jun-25 A	30-Aug-26	-222	Temp. pipe. SD1&2 and BH1 to H2S for T&C-Prep(90d),Sub.&Review(30d) Comment&Resub(14d)&Approval(7d)																													
Contractor's Permanent Works Design (include ATAL)																																			
DDA																																			
Package 2 - Tertiary Treatment System																																			
DDA-210	Electrical& Control for TTS - 2E	213	31-Dec-21 A	28-Jul-26	-384	Electrical& Control for TTS - 2E																													
DDA-140	SCADS System Deodourisation Unit No.2 and Plant Services Water System for TTS - 2G	126	12-Sep-23 A	28-Jul-26	949	SCADS System Deodourisation Unit No.2 and Plant Services Water System for TTS - 2G																													
DDA-220	Building Services (BS) for TTS - 2F	199	30-Oct-23 A	28-Jul-26	-384	Building Services (BS) for TTS - 2F																													
Package 3 - Mainstream Bio-Reactor System																																			
DDA-300	Electrical& Control for MBS - 3E	405	08-Oct-21 A	28-Jul-26	-344	Electrical& Control for MBS - 3E																													
DDA-255	SCADA System - 3G	204	16-Jun-23 A	28-Jul-26	-348	SCADA System - 3G																													
DDA-310	Building Services (BS) for MBS - 3F	151	23-Oct-24 A	28-Jul-26	-308	Building Services (BS) for MBS - 3F																													
Package 5 - Master Water Meter Room & PSW																																			
DDA-390	P&ID for Plant Service Water System - 5D1	64	26-Jun-23 A	30-Jun-26	977	P&ID for Plant Service Water System - 5D1																													
DDA-385	Mechanical Design for Plant Service Water System - 5D2	64	17-May-25 A	30-Jun-26	977	Mechanical Design for Plant Service Water System - 5D2																													
Package 6 - Sludge Thickening Chemical and Dosing System																																			
DDA-1140	Electrical & Control for STCDS - 6E2	315	30-Nov-21 A	30-Jun-26	977	Electrical & Control for STCDS - 6E2																													
DDA-1150	Building Services for STCDS - 6F4	126	24-Oct-22 A	30-Jun-26	977	Building Services for STCDS - 6F4																													
DDA-440	SCADA System - 6G	250	15-Oct-24 A	30-Jun-26	428	SCADA System - 6G																													
Package 11 - Control and Monitoring System																																			
DDA-580	Power Quality & Energy Management System (PQEMS) - 11G4	130	02-Oct-21 A	29-Jul-26	948	Power Quality & Energy Management System (PQEMS) - 11G4																													
DDA-550	Supervisory Control & Data Application (SCADA) System - 11G1	238	24-Apr-23 A	29-Jul-26	948	Supervisory Control & Data Application (SCADA) System - 11G1																													
DDA-1270	Gas Detection System - 11G5	91	08-May-23 A	29-Jul-26	-309	Gas Detection System - 11G5																													
DDA-560	Computerised Mainatenance Mangement System (CMMS) - 11G2	275	30-Jun-25 A	29-Aug-26	123	Computerised Mainatenance Mangement System (CMMS) - 11G2																													
DDA-570	Information and Document mangement System (IDMS) - 11G3	275	30-Jun-25 A	29-Aug-26	917	Information and Document mangement System (IDMS) - 11G3																													
Package 14 - Sludge Anaerobic Digestion System (SDT)																																			
DDA-1330	Building Services for SDT & UC/PP - 14F4	180	02-May-23 A	29-Jul-26	90	Building Services for SDT & UC/PP - 14F4																													
DDA-1640	Fire Services Design - 14F1	180	28-Jan-25 A	29-Jul-26	-187	Fire Services Design - 14F1																													
DDA-1650	Mechanical Ventilation and Air Conditional System Design - 14F2	180	13-Feb-25 A	29-Jul-26	-187	Mechanical Ventilation and Air Conditional System Design - 14F2																													
Package 15 - Biogas H2S Removal, Storage and Delivery System																																			
DDA-1390	Fire Services for Biogas H2S Removal System - 15F1	137	31-May-23 A	29-Jul-26	-236	Fire Services for Biogas H2S Removal System - 15F1																													
DDA-1380	Electrical & Control for Biogas H2S Removal System - 15F4	105	25-Sep-23 A	29-Jul-26	-236	Electrical & Control for Biogas H2S Removal System - 15F4																													
Package 16 - Deodorization Unit System																																			
DDA-1430	Mechanical for DOU No. 2A and 2B - 16D3	122	13-Oct-23 A	29-Jul-26	-276	Mechanical for DOU No. 2A and 2B - 16D3																													
Package 17 - Sludge Dewatering Building (SDB)																																			
DDA-950	Civil Req. Drawing for SDB (Transformer Room Only) - 17C2	120	27-Apr-23 A	30-Jun-26	977	Civil Req. Drawing for SDB (Transformer Room Only) - 17C2																													
DDA-910	Civil Req. Drawing for SDB (Utilities Corridor Zone) - 17C1	120	27-Mar-24 A	30-Jun-26	977	Civil Req. Drawing for SDB (Utilities Corridor Zone) - 17C1																													
Package 22 - Sampling System of YLEPP																																			
DDA-740	Sampling System for IW&PST, AGS&TTB, SDT, STB	120	07-Jul-23 A	29-Jul-26	948	Sampling System for IW&PST, AGS&TTB, SDT, STB																													
Package 23 - Security, Public Address and Communication System																																			
DDA-750	Security, Public Address and Communication System	120	28-Jun-23 A	27-Aug-26	-381	Security, Public Address and Communication System																													
Design out of ATAL's Scope																																			
DDA-730	Civil & Structural for Steel Working Platform	100	02-Sep-22 A	30-Jun-26	977	Civil & Structural for Steel Working Platform																													
DDA-1560	Street Fire Hydrant System	120	22-Dec-23 A	30-Jun-26	79	Street Fire Hydrant System																													
DDA-685	Pipeworks System for Sludge Digesters (SD)	120	02-Dec-24 A	30-Jun-26	-158	Pipeworks System for Sludge Digesters (SD)																													
DDA-1580	Lift Installation at TTS & ADB	120	22-Dec-25 A	28-Aug-26	256	Lift Installation at TTS & ADB																													
DDA-690	Pipeworks System for Sludge Dewatering Building (SDB)	120	01-Jul-26	28-Oct-26	153	Pipeworks System for Sludge Dewatering Building (SDB)																													
DDA-700	Pipeworks System for Utility Corridor&Pipe Portal (UC/PP)	120	01-Jul-26	28-Oct-26	260	Pipeworks System for Utility Corridor&Pipe Portal (UC/PP)																													
DDA-1570	BS at Education Corridor	120	01-Jul-26	28-Oct-26	159	BS at Education Corridor																													
Technical Submission																																			
Operation and Maintenance (O&M) Manuals and Installation Manuals (PS 34.20(11)(12)(13))																																			
Inlet Works and Primary Sedimentation Tank																																			
SUBM-1210	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - final draft	30	15-May-26 A	29-Jul-26	-26	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - final draft																													
AGS and TTS system																																			
SUBM-1220	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	30-Jul-26	27-Sep-26	-26	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																													
SUBM-1230	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft	30	28-Sep-26	27-Oct-26	-26	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																													
Sludge Thickening System																																			
SUBM-1260	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft	30	30-Jun-26	29-Jul-26	34	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																													
Sludge Disgestion System																																			
SUBM-1310	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	30-Jun-26	28-Aug-26	-21	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																													
SUBM-1320	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft	30	29-Aug-26	27-Sep-26	-21	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																													
Biogas H2S Removal System																																			
SUBM-1280	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	30-Jun-26	28-Aug-26	287	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																													
SUBM-1290	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft	30	29-Aug-26	27-Sep-26	287	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																													
Deodourization System																																			



保華-中國中鐵聯營體
PAUL Y.-CREC JOINT VENTURE

Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
◆ Milestone

Contract DC/2019/10 - YLEPP - Main Works for Stage 1

Monthly Progress Report No. 68- 3MRP (Jun 26)

Project ID : DWPv63_260715
Layout : DC201910 MPR68-3MRP
Page 1 of 8

Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
30-Jun-26			

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	June 68					July 69					August 70					September 71					October 72					November 73					December 74
						31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	06			
TTS Superstructure																																				
TTS-2500-2	TTS - Zone SA Structure (+12.85mPD to +15.4mPD) Column, Roof Slab (R4)	15	30-Apr-26 A	24-Jun-26 A		TTS - Zone SA Structure (+12.85mPD to +15.4mPD) Column, Roof Slab (R4)																														
TTS-2580-1	TTS - Zone SC Structure (+9.4mPD to +15.4mPD) Column, Roof Slab (R1)	15	14-May-26 A	03-Jul-26	-342	TTS - Zone SC Structure (+9.4mPD to +15.4mPD) Column, Roof Slab (R1)																														
TTS-2510-1	TTS - Zone SE Structure (+5.95mPD to +15.4mPD) Column, Roof Slab (R5)	18	29-Aug-26	18-Sep-26	-369											TTS - Zone SE Structure (+5.95mPD to +15.4mPD) Column, Roof Slab (R5)																				
TTS-2520-1	TTS - Zone SE Structure (+5.95mPD to +15.4mPD) Column, Roof Slab (R6)	18	12-Sep-26	05-Oct-26	-369											TTS - Zone SE Structure (+5.95mPD to +15.4mPD) Column, Roof Slab (R6)																				
TTS-2510-2	TTS - Zone SE Structure (+5.95mPD to +15.4mPD) Column, Roof Slab (R8)	18	12-Sep-26	05-Oct-26	-369											TTS - Zone SE Structure (+5.95mPD to +15.4mPD) Column, Roof Slab (R8)																				
TTS Water Tightness Test																																				
TTS-1910	TTS - Removal Fwk + Water Tight. Test (Phase 1)(water height=1.85m,bulkhead=2d,fill=1d,absoplt	21	31-Jul-26	20-Aug-26	-448											TTS - Removal Fwk + Water Tight. Test (Phase 1)(water height=1.85m,bulkhead=2d,fill=1d,absorption=6d,test=6d,remove																				
TTS-1920	TTS - Removal Fwk + Water Tight. Test (Phase 2)(water height=1.85m,bulkhead=2d,fill=1d,absoplt	21	21-Aug-26	10-Sep-26	-448											TTS - Removal Fwk + Water Tight. Test (Phase 2)(water height=1.85m,bulkhead=2d,fill=1d,absorp																				
TTS-1930	TTS - Removal Fwk + Water Tight. Test (Phase 3)(water height=11.5m,bulkhead=2d,fill=2d,absopt	21	05-Sep-26	25-Sep-26	-448											TTS - Removal Fwk + Water Tight. Test (Phase 3)(water height=11.5m,bulkhead=2d,fill=2d,absorp																				
TTS-1940	TTS - Removal Fwk + Water Tight. Test (Phase 4)(water height=4.5m,bulkhead=2d,fill=2d,absoptic	21	10-Sep-26	30-Sep-26	-448											TTS - Removal Fwk + Water Tight. Test (Phase 4)(water height=4.5m,bulkhead=2d,fill=2d,absorption=6d,test=6d,remove																				
TTS ABWF Works																																				
TTS-1125	TTS - ABWF Works (Chemical Plant Rm/LVSB Rm/Tx Rm)	12	02-May-26 A	24-Jul-26	-267	TTS - ABWF Works (Chemical Plant Rm/LVSB Rm/Tx Rm)																														
TTS E&M Installation Works																																				
TTS-1135	TTS - E&M Handover (Chemical Plant Rm/LVSB Rm/Tx Rm)	0	25-Jul-26		-267	◆ TTS - E&M Handover (Chemical Plant Rm/LVSB Rm/Tx Rm)																														
Electrical Works (TX/Disc Filter / UV Disinfection / Effluent Pumping System)																																				
TTS-1730	TTS - Electrical Works - Transformer 3A,3B,3C,3D,4A,4B	90	25-Jul-26	10-Nov-26	-267											TTS - Electrical Works - Tran																				
TTS-1740	TTS - Electrical Works - Installation of LVSB@TTB to Equipment	90	04-Sep-26	21-Dec-26	-268																															
Zone 3 Construction																																				
Zone 3 North Portion (Z3N)																																				
New Sudge Thickening Building (STB)																																				
STB : ABWF																																				
STB : ABWF (+6.0 to +18.3mPD)																																				
Z3S3-4550	STB - ABWF Works (2nd fix with BS works)	90	15-Sep-25 A	13-Aug-26	-49	STB - ABWF Works (2nd fix with BS works)																														
STB : E&M Installation																																				
STB E&M : Pump Room Floor @ -2.5mPD																																				
Jet Mixing System of Sludge Blenk Tank and Thickening Sludge Holding Tank No.2																																				
Z3S3-3980	STB - Jet Mixer c/w pipes and valves and Fittings x 4 Nos.	21	17-Jan-26 A	30-Jun-26	-362	STB - Jet Mixer c/w pipes and valves and Fittings x 4 Nos.																														
Z3S3-4000	STB - Leakage test - Combining Stoplogs / Penstocks	30	30-Jun-26	29-Jul-26	-449	STB - Leakage test - Combining Stoplogs / Penstocks																														
Jet Mixing System of Thickening Sludge Holding Tank No.1																																				
Z3S3-4060	STB - Jet Mixer c/w pipes and valves and Fittings x 2 Nos.	21	17-Jan-26 A	30-Jun-26	-362	STB - Jet Mixer c/w pipes and valves and Fittings x 2 Nos.																														
Z3S3-4080	STB - Leakage test - Combining Stoplogs / Penstocks	30	30-Jun-26	29-Jul-26	-449	STB - Leakage test - Combining Stoplogs / Penstocks																														
BS Installation (ELV, Ventilation, FS, PD)																																				
Z3S3-2860	STB - BS Installation (ELV, Ventilation, FS, PD) @ -1.5mPD	98	01-Sep-25 A	29-Jul-26	127	STB - BS Installation (ELV, Ventilation, FS, PD) @ -1.5mPD																														
STB E&M : Thickening Centrifuge Hall and Polymer Area @ +6.0mPD																																				
Pipeworks Installation @ +6.0mPD																																				
Z3S3-4240	STB - Plant Service Water System (PSW) Instalation	14	21-Jan-26 A	30-Jun-26	127	STB - Plant Service Water System (PSW) Instalation																														
Z3S3-4250	STB - DO Duct and dampers installation	14	21-Jan-26 A	30-Jun-26	-362	STB - DO Duct and dampers installation																														
Z3S3-4260	STB - Ferric chloride dosing pipe installation	14	08-Jun-26 A	30-Jun-26	-362	STB - Ferric chloride dosing pipe installation																														
BS Installation (ELV, Ventilation, FS, PD)																																				
Z3S3-4270	STB - BS Installation (ELV, Ventilation, FS, PD) @ +6mPD	98	26-Jun-25 A	29-Jul-26	-36	STB - BS Installation (ELV, Ventilation, FS, PD) @ +6mPD																														
STB E&M : Transformer Room @ +6.0mPD																																				
Z3S3-6390	STB - Termination Works	6	30-Jun-26	07-Jul-26	-52	STB - Termination Works																														
Z3S3-6430	STB - Energization & SAT of Transformer	35	08-Jul-26	17-Aug-26	-52	STB - Energization & SAT of Transformer																														
STB E&M : LV Switch Room and VFD Room @ +13.5mPD																																				
Z3S3-3720	STB - Energization & SAT of LVSB	12	06-Aug-26	17-Aug-26	-63	STB - Energization & SAT of LVSB																														
Z3S3-4350	STB - Termination Works (TX to LVSB)	6	11-Aug-26	17-Aug-26	-52	STB - Termination Works (TX to LVSB)																														
STB E&M : DOU3 @+13.5mPD																																				
Z3S3-4290	STB - Leakage Test	59	16-Feb-26 A	30-Jun-26	-449	STB - Leakage Test																														
Z3S3-4295	STB - Seeding for Bio-Trickling Filter of DOU3	58	01-Jun-26 A	30-Jul-26	-449	STB - Seeding for Bio-Trickling Filter of DOU3																														
STB E&M : Installation and Set-Up for SCADA System																																				
Z3S3-2815	STB - Installation of SCADA System (calibration,cabling,termination)	45	28-Feb-26 A	30-Jun-26	-362	STB - Installation of SCADA System (calibration,cabling,termination)																														
Z3S3-4370	STB - Set-Up for SCADA System (sys.mapping,network config.,GUI,PQEMS,IDEMS,CMOS)	45	02-Jul-26	22-Aug-26	-57	STB - Set-Up for SCADA System (sys.mapping,network config.,GUI,PQEMS,IDEMS,CMOS)																														
STB E&M : Electrical works (Cable wiring, termination)																																				
Z3S3-2850	STB - Electrical works (Cable containment, cabling, LCP, termination)	25	20-Jan-26 A	30-Jun-26	-362	STB - Electrical works (Cable containment, cabling, LCP, termination)																														
STB External Pipeworks																																				
Z3S7-2100	STB - Temporary system and associated pipeworks for Location E to STB	21	27-Apr-26 A	15-Jul-26	-303	STB - Temporary system and associated pipeworks for Location E to STB																														
STB : Testing & Commissioning																																				
Phase 1- STB Sub-System Physical Dry Check																																				
Z3S3-2910	STB - T&C - Mechanical / Electrical - General Installation Checking, Setting Out Checking, Physical	25	02-Jul-26	30-Jul-26	-367	STB - T&C - Mechanical / Electrical - General Installation Checking, Setting Out Checking, Physical Checking, etc.																														
Z3S3-4420	STB - T&C - Electrical - Megger Test	25	02-Jul-26	30-Jul-26	-367	STB - T&C - Electrical - Megger Test																														
Z3S3-4430	STB - T&C - SCADA- I/O Point Test	25	02-Jul-26	30-Jul-26	-367	STB - T&C - SCADA- I/O Point Test																														
Phase 2 - STB Sub-System Dry Function Test (Function, Protection, Interlock)																																				
Z3S3-2920	STB - T&C - Jet Mixing System of Sludge Blenk Tank and Thickening Sludge Holding Tank No.2	30	31-Jul-26	29-Aug-26	-450	STB - T&C - Jet Mixing System of Sludge Blenk Tank and Thickening Sludge Holding Tank No.2																														
Z3S3-4440	STB - T&C - Thickening Centrifuge Feed Pump c/w pipes and valves and fittings	30	31-Jul-26	29-Aug-26	-450	STB - T&C - Thickening Centrifuge Feed Pump c/w pipes and valves and fittings																														
Z3S3-4450	STB - T&C - Digester Feed Pump c/w pipes and valves and fittings	30	31-Jul-26	29-Aug-26	-450	STB - T&C - Digester Feed Pump c/w pipes and valves and fittings																														
Z3S3-4460	STB - T&C - Polymer Preparation and Dosing System	30	31-Jul-26	29-Aug-26	-450	STB - T&C - Polymer Preparation and Dosing System																														
Z3S3-4470	STB - T&C - Sludge Thickening and Discharge System	30	31-Jul-26	29-Aug-26	-450	STB - T&C - Sludge Thickening and Discharge System																														
Z3S3-4480	STB - T&C - DOU - 03 System	30	31-Jul-26	29-Aug-26	-449	STB - T&C - DOU - 03 System																														
Phase 3 - STB Sub-System Wet Test (On load Performance, Endurance Test)																																				
Z3S3-2960	STB - T&C - Jet Mixing System	30	31-Aug-26	29-Sep-26	-450	STB - T&C - Jet Mixing System																														
Z3S3-4400	STB - T&C - Jar Test for Polymer Preparation Unit in STB	30	31-Aug-26	29-Sep-26	-449	STB - T&C - Jar Test for Polymer Preparation Unit in STB																														
Z3S3-4490	STB - T&C - Thickening Centrifuge Feeding System	30	31-Aug-26	29-Sep-26	-450	STB - T&C - Thickening Centrifuge Feeding System																														
Z3S3-4500	STB - T&C - Polymer Preparation and Dosing System	30	31-Aug-26	29-Sep-26	-450	STB - T&C - Polymer Preparation and Dosing System																														
Z3S3-4510	STB - T&C - Sludge Thickening and Discharge System	30	31-Aug-26	29-Sep-26	-450	STB - T&C - Sludge Thickening and Discharge System																														
Z3S3-4520	STB - T&C - Digester Feeding System c/w Ferric Chloride Dosing System	30	31-Aug-26	29-Sep-26	-450	STB - T&C - Digester Feeding System c/w Ferric Chloride Dosing System																														
Z3S3-4530	STB - T&C - DOU-03 System	29	31-Aug-26	28-Sep-26	-449	STB - T&C - DOU-03 System																														
Zone 3 Middle Portion (Z3M)																																				



保華-中國中鐵聯營體
PAUL Y.-CREC JOINT VENTURE

Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
◆ ◆ Milestone

Contract DC/2019/10 - YLEPP - Main Works for Stage 1

Monthly Progress Report No. 68- 3MRP (Jun 26)

Project ID : DWPr63_260715
Layout : DC201910 MPR68-3MRP
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Monthly Progress Report - 3MRP

Date	Revision	Checked	Approved
30-Jun-26			

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	June 68					July 69					August 70					September 71					October 72					November 73					December 74
						31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	06			
	Z3S3-6570	SDT No.2 - Internal Pipework and Drain Pipe Installation	30	08-Aug-26	11-Sep-26	-160																														
	Z3S3-6600	SDT No.2 - Instrumentation	30	08-Aug-26	11-Sep-26	-160																														
	Z3S3-6610	SDT No.2 - Electrical Works (Cable wiring, Termination, Lightning Arrestor System)	30	08-Aug-26	11-Sep-26	-160																														
	Z3S3-6620	SDT No.2 - Installation and Set-Up for SCADA System	30	08-Aug-26	11-Sep-26	-157																														
SD3 : E&M Installation																																				
	Z3S3-4600	SDT No.3 - Roof (Sludge Infeed Pipe, Biogas Pipe, Inspection Window, Gas Take-Off Dome, Teles	18	13-Aug-26	02-Sep-26	-261																														
	Z3S3-5555	SDT No.3 - E&M 2nd Handover	0	26-Aug-26		-215																														
	Z3S3-4580	SDT No.3 - Internal Pipework and Drain Pipe Installation	30	27-Aug-26	02-Oct-26	-174																														
	Z3S3-4610	SDT No.3 - Instrumentation	30	27-Aug-26	02-Oct-26	-174																														
	Z3S3-4620	SDT No.3 - Electrical Works (Cable wiring, Termination, Lightning Arrestor System)	30	27-Aug-26	02-Oct-26	-174																														
	Z3S3-4640	SDT No.3 - Installation and Set-Up for SCADA System	30	27-Aug-26	02-Oct-26	-173																														
SD1-2 : External Pipeworks for Early Commissioning																																				
SD1-2 : T&C Phase 1 Pre-requisites																																				
	Z3S3-4670	SDT No.1-2 - T&C - Pre-requisites - Diversion of Power Supply from Existing Switch room	30	08-Aug-26	11-Sep-26	-157																														
	Z3S3-4710	SDT No.1-2 - T&C - Pre-requisites - Diversion of Signal Cable to New SCADA System in Temp Adn	30	27-Aug-26	02-Oct-26	-173																														
SD1-2 : T&C Phase 2 & 3 Pre-requisites																																				
	Z3S3-4720	SDT No.1-2 - T&C - Pre-requisites - Temporary water sources (41m3/hr for digester filling)	30	09-Jul-26	12-Aug-26	-85																														
SD1-2 : Testing & Commissioning																																				
SD1-2 : T&C Phase 1 - SDT Sub-system Physical Check																																				
	Z3S3-4650	SDT No.1-2 - T&C - Electrical - Megger Test	23	12-Sep-26	10-Oct-26	-155																														
Biogas Holder No. 1 (BH1)																																				
BH1 : Diversion Works																																				
	Z3S7-2110	BH No. 1 - Temporary system and associated pipeworks to H2S *for KD4	60	31-Aug-26	11-Nov-26	-179																														
	Z3S7-2070	BH No. 1 - Temporary system and associated pipeworks for early commissioning of BH1	30	23-Sep-26	30-Oct-26	-149																														
Utility Corridor and Pipe Portal (UC/PP)																																				
Pipe Portal No. 1 (PP1) (Construct with SD1-3)																																				
PP1 : Civil and Structural Works																																				
	Z3S5-2180	PP 1 - Backfill (-9.0 to -6.25mPD)	5	20-Jul-26	24-Jul-26	-310																														
	Z3S5UC1-2210	UC/PP - Plate Load Test (UC&PP-PLTP4)	5	25-Jul-26	30-Jul-26	-310																														
	Z3S5-2010	PP 1 - Structure (-6.25 to -4.85mPD, Base Slab)	10	31-Jul-26	11-Aug-26	-310																														
	Z3S5-2020	PP 1 - Structure (-4.85 to -3.2mPD)	10	12-Aug-26	22-Aug-26	-310																														
	Z3S5-2030	PP 1 - Structure (-3.2 to +0.25mPD)	8	11-Sep-26	19-Sep-26	-312																														
	Z3S5-2040	PP 1 - Structure (+0.25 to +1.8mPD)	8	21-Sep-26	30-Sep-26	-312																														

Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026					
									Jun	Jul	Aug	Sep	Oct	
									1	2	3	4	5	
YLEPP - E&M Works for SDB, ADB & PV Facilities for Stage1 Revised Programme_30Jun2026														
Contract Data														
Access Date														
CD-AD1010	Early Access Date for Portion 1	0	01-Jun-26		01-Jul-26		499	0%	◆	◆				
CD-AD1090	Early Access Date for Portion 3	0	01-Jun-26		01-Jul-26		499	0%	◆	◆				
CD-AD1100	Late Access to Portion 3 - Sludge Dewatering Building (Within 1231 calendar days from starting date)	1	13-Jun-22	25-Oct-25	13-Jun-22 A	01-Jul-26*	-249	99.92%						
CD-AD1110	Late Access Date for Portion 3	0	01-Jun-26		01-Jul-26*		-249	0%	◆	◆				
CD-AD1130	Early Access Date for Portion 4	0	01-Jun-26		01-Jul-26		499	0%	◆	◆				
CD-AD1140	Late Access to Portion 4 - Administration Building (Within 1370 calendar days from starting date)	1	13-Jun-22	13-Mar-26	13-Jun-22 A	01-Jul-26*	-110	99.93%						
CD-AD1150	Late Access Date for Portion 4	0	01-Jun-26		01-Jul-26*		-110	0%	◆	◆				
CD-AD1170	Early Access Date for Portion 5	0	01-Jun-26		01-Jul-26		499	0%	◆	◆				
CD-AD1180	Late Access to Portion 5 - Mainstream Bio-Reactor Building (Within 1451 calendar days from starting date)	1	13-Jun-22	02-Jun-26	13-Jun-22 A	01-Jul-26*	-29	99.93%						
CD-AD1190	Late Access Date for Portion 5	0	02-Jun-26		01-Jul-26*		-29	0%	◆	◆				
CD-AD1210	Early Access Date for Portion 6	0	01-Jun-26		01-Jul-26		499	0%	◆	◆				
CD-AD1220	Late Access to Portion 6 - Primary Sedimentation Tanks (Within 1520 calendar days from starting date)	41	13-Jun-22	10-Aug-26	13-Jun-22 A	10-Aug-26*	0	97.3%						
CD-AD1230	Late Access Date for Portion 6	0	10-Aug-26		10-Aug-26*		0	0%		◆				
Planned Date														
Key Dates														
PD-KD1000	Planned Completion of KD 1	0		30-Nov-22		03-Nov-22 A		100%						
PD-KD1010	Planned Completion of KD 3	0		10-Apr-23		07-Mar-23 A		100%						
PD-KD1020	Planned Completion of KD 2	0		31-Mar-23		07-Mar-23 A		100%						
Planned Access Date														
PD-AD1000	Planned Early Access Date for Portion 1 - Sludge Thickening Building	0	01-Jun-26		01-Jul-26		-117	0%	◆	◆				
PD-AD1010	Planned Late Access Date for Portion 1 - Sludge Thickening Building	0	07-Oct-26		07-Oct-26		-215	0%						
PD-AD1020	Planned Early Access Date for Portion 2 - Inlet Works	0	29-Jul-25		09-Apr-25 A			100%						
PD-AD1030	Planned Late Access Date for Portion 2 - Inlet Works	0	01-May-25		09-Apr-25 A			100%						
PD-AD1040	Planned Early Access Date for Portion 3 - Sludge Dewatering Building	0	01-Jun-26		01-Jul-26		-250	0%	◆	◆				
PD-AD1050	Planned Late Access Date for Portion 3 - Sludge Dewatering Building	0	01-Jun-26		01-Jul-26		-250	0%	◆	◆				
PD-AD1052	Planned Access Date for Portion 3 - Sludge Dewatering Building (According to Interface Meeting no.46 on 7 May 2026)	0	30-Sep-26		30-Sep-26*		-341	0%			◆			
PD-AD1060	Planned Early Access Date for Portion 4 - Administration Building	0	01-Jun-26		01-Jul-26		-130	0%	◆	◆				
PD-AD1070	Planned Late Access Date for Portion 4 - Administration Building	0	01-Jun-26		01-Jul-26		-130	0%	◆	◆				
PD-AD1072	Planned Access Date for Portion 4 - Administration Building (According to Interface Meeting no.46 on 7 May 2026)	0	20-Jan-27		20-Jan-27*		-333	0%						
PD-AD1080	Planned Early Access Date for Portion 5 - Mainstream Bio-Reactor Building	0	01-Jun-26		01-Jul-26		-29	0%	◆	◆				
PD-AD1090	Planned Late Access Date for Portion 5 - Mainstream Bio-Reactor Building	0	02-Jun-26		01-Jul-26		-29	0%	◆	◆				
PD-AD1092	Planned Access Date for Portion 5 - Mainstream Bio-Reactor Building (According to Interface Meeting no.46 on 7 May 2026)	0	31-Dec-26		31-Dec-26*		-212	0%						
PD-AD1100	Planned Early Access Date for Portion 6 - Primary Sedimentation Tanks	0	01-Jun-26		01-Jul-26		59	0%	◆	◆				
PD-AD1110	Planned Late Access Date for Portion 6 - Primary Sedimentation Tanks	0	10-Aug-26		10-Aug-26		19	0%		◆				
PD-AD1112	Planned Access Date for Portion 6 - Primary Sedimentation Tanks (According to Interface Meeting no.46 on 7 May 2026)	0	30-Oct-26		30-Oct-26*		-128	0%						
PD-AD1120	Planned Early Access Date for CLPSS / 11kV Switchroom	0	01-Jun-26		01-Jul-26		29	0%	◆	◆				
PD-AD1130	Planned Late Access Date for CLPSS / 11kV Switchroom	0	01-Jun-26		01-Jul-26		29	0%	◆	◆				
Section Completion Date														
Section 1 - Comprises design, supply, delivery, installation, T&C of PV System of YLEPP														
PD-S1-1000	Planned Completion of Section 1	0		14-Jul-27		14-Jul-27*	-207	0%						
Section 2 - Comprises design, supply, delivery, installation, T&C of BS works of Admin. Building														
PD-S2-1000	Planned Completion of Section 2	0		13-Oct-27		13-Oct-27*	-298	0%						
Section 3 - Comprises design, supply, delivery, installation, T&C of Sludge Dewatering System														
PD-S3-1000	Planned Completion of Section 3	0		11-Nov-27		11-Nov-27*	-327	0%						
Section 4 - Completion of fully coordinated as-built BIM model														

Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026				
									Jun	Jul	Aug	Sep	Oct
									1	2	3	4	5
PD-S4-1000	Planned Completion of Section 4	0		24-Sep-27		16-Oct-27*	-301	0%					
Planned Completion													
PD-1000	Planned Completion Date for the whole of the Works	0		11-Nov-27		11-Nov-27*	-327	0%					
Preliminaries													
BEAM Plus													
P-1190	Application to BEAM Society & provide Provisional Assessment (PA) report	34	01-May-25	09-Aug-26	15-Apr-25 A	03-Aug-26	-282	92.7%					
P-1200	Review & comment on PA report from BEAM society	270	30-Jul-26	25-Apr-27	04-Aug-26	30-Apr-27	-282	0%					
Section 1 - Comprises design, supply, delivery, installation, T&C of PV System of YLEPP													
Technical Submission & Approval													
DDA Submission													
PV System (DDA001A)													
S1-DDA-1030	Review & Approval of DDA Design of PV system	30	01-Sep-25	31-Oct-25	01-May-26 A	30-Jul-26	-214	50.82%					
PV System for canopy area (DDA001B)													
S1-DDA-1070	Review & Approval of DDA Design of PV system (Canopy Type)	30	01-Jun-26	03-Aug-26	28-Apr-26 A	30-Jul-26	11	53.13%					
Ramp and Shelter for PV System (DDA001C)													
S1-DDA-1110	Review & Approval of DDA Design of Ramp and Shelter for PV System	30	01-May-26	24-Jun-26	11-Apr-26 A	30-Jul-26	18	45.45%					
Access Arrangement for Roof Floor (DDA001D)													
S1-DDA-1150	Review & Approval of Access Arrangement for Roof Floor	30	17-Jul-26	15-Aug-26	21-May-26 A	30-Jul-26	18	0%					
Plant & Material Submission													
Smart Sun Tracking and Automatic Collapse and Expand Solar PV System (EL002)													
S1-PMS-1150	Review & Approval of Smart Sun Tracking & Automatic Collapse & Expand Solar PV System	41	11-Nov-25	31-Jan-26	21-May-26 A	10-Aug-26	-149	50%					
SAT / T&C Procedure													
S1-SAT-1000	Prepare & Submission of SAT / T&C Procedure (with Test Form) of PV System	60	01-Jun-26	30-Jul-26	01-Jul-26	29-Aug-26	-53	0%					
S1-SAT-1010	Review & Comment on SAT / T&C Procedure (with Test Form) of PV System	30	31-Jul-26	29-Aug-26	30-Aug-26	28-Sep-26	-53	0%					
S1-SAT-1020	Re-submission of SAT / T&C Procedure (with Test Form) of PV System	30	30-Aug-26	28-Sep-26	29-Sep-26	28-Oct-26	-53	0%					
Manufacture, FAT & Delivery of Major Equipment (Inc. PV Panel, Power Optimizer, Switchgear, etc...)													
Portion 1 - Sludge Thickening Building													
S1-STB-MD-1000	Manufacture with FAT (1 months) & Delivery(1 month) of PV Panel - STB	61	01-Jun-26	31-Jul-26	01-Sep-26*	31-Oct-26	-8	0%					
S1-STB-MD-1020	Manufacture with FAT (1 months) & Delivery(1 month) of Support Framework - STB	61	01-Jun-26	31-Jul-26	30-Jul-26*	28-Sep-26	-207	0%					
Portion 2 - Inlet Works													
S1-IW-MD-1010	Pre-fabrication Test for Solar PV system - IW	20	01-Aug-26	20-Aug-26	01-Jul-26	20-Jul-26	28	0%					
S1-IW-MD-1020	Manufacture with FAT (months) & Delivery(1 month) of Support Framework - IW	61	01-Jun-26	31-Jul-26	30-Jul-26*	28-Sep-26	-214	0%					
Portion 3 - Sludge Dewatering Building - Sludge Dewatering & Drying System													
S1-SDB-MD-1000	Manufacture with FAT (1 months) & Delivery(1 month) of PV Panel - SDB	61	10-Jun-26	09-Aug-26	01-Sep-26*	31-Oct-26	-120	0%					
S1-SDB-MD-1020	Manufacture with FAT (1 months) & Delivery(1 month) of Support Framework - SDB	61	10-Jun-26	09-Aug-26	30-Jul-26*	28-Sep-26	-188	0%					
Portion 4 - Administration Building													
S1-ADB-MD-1000	Manufacture with FAT (1 months) & Delivery(1 month) of Smart Sun Tracking - Admin Building	182	11-Aug-26	08-Feb-27	11-Aug-26	08-Feb-27	-149	0%					
Portion 5 - Mainstream Bio-Reactor Building													
S1-MBR-MD-1020	Manufacture with FAT (1 months) & Delivery(1 month) of Support Framework - Admin Building	61	10-Aug-26	09-Oct-26	15-Aug-26*	14-Oct-26	-135	0%					
Portion 6 - Primary Sedimentation Tanks													
S1-PST-MD-1020	Manufacture with FAT (1 months) & Delivery(1 month) of Support Framework - PST	61	10-Jun-26	09-Aug-26	15-Aug-26*	14-Oct-26	-47	0%					
CLP Substation													
S1-CLP-MD-1000	Manufacture with FAT (1 months) & Delivery(1 month) of PV Panel of PV Panel - CLP	61	01-Jun-26	31-Jul-26	01-Sep-26*	31-Oct-26	-94	0%					
S1-CLP-MD-1020	Manufacture with FAT (1 months) & Delivery(1 month) of Support Framework - CLP	61	01-Jun-26	31-Jul-26	30-Jul-26*	28-Sep-26	-61	0%					
Interfacing Works													
S1-IFW-1010	Design Submission with interface works for LV switchboard interfacing arrangement for Renewable Energy	90	01-Jul-26	28-Sep-26	01-Jul-26	28-Sep-26	-214	0%					

Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026				
									Jun	Jul	Aug	Sep	Oct
									1	2	3	4	5
S1-IFW-1040	Cleansing point for PV panel cleansing at roof floor (STB, IW, PST, MBR, SDB & CLP)	90	01-Jul-26	28-Sep-26	01-Jul-26	28-Sep-26	-214	0%					
Solar Photovoltaic (PV) System Installation													
Portion 2 - Inlet Works													
S1-IW-IN-1000	Support Frame Installation of PV system - IW (1154 nos., 4 ppl, 3 nos/manday)	106	29-Sep-26	03-Feb-27	29-Sep-26	03-Feb-27	-174	0%					
S1-IW-IN-1010	Electrical Installation of PV Panel -IW	106	29-Sep-26	03-Feb-27	29-Sep-26	03-Feb-27	-141	0%					
Section 2 - Comprises design, supply, delivery, installation, T&C of BS works of Admin. Building													
Technical Submission & Approval													
Subletting													
Fire Services System													
S2-ADB-SUB-1000	Tendering of FS System subcontractor	61	01-Dec-23	28-Jun-26	23-Nov-23 A	30-Aug-26	-327	93.52%					
S2-ADB-SUB-1010	Engagement of FS System subcontractor	31	21-Jun-26	21-Jul-26	31-Aug-26	30-Sep-26	-327	0%					
MVAC System													
S2-ADB-SUB-1020	Tendering of MV System subcontracting	61	01-Jun-24	28-Jun-26	24-May-24 A	30-Aug-26	-246	91.95%					
S2-ADB-SUB-1030	Engagement of MV System subcontracting	30	21-Jun-26	20-Jul-26	31-Aug-26	29-Sep-26	-246	0%					
S2-ADB-SUB-1200	Tendering of AC System subcontracting	20	01-Jun-24	08-Apr-25	13-Aug-25 A	20-Jul-26	-327	93.59%					
S2-ADB-SUB-1210	Engagement of AC System subcontracting	30	21-Jun-26	20-Jul-26	21-Jul-26	19-Aug-26	-327	0%					
Electrical System													
S2-ADB-SUB-1080	Tendering of Electrical System (BS)	61	04-Jul-24	10-Jul-26	04-Jun-24 A	30-Aug-26	-326	91.72%					
S2-ADB-SUB-1090	Engagement of Electrical System (BS)	30	11-Jun-26	10-Jul-26	31-Aug-26	29-Sep-26	-326	0%					
P&D System													
S2-ADB-SUB-1120	Tendering of P&D System	61	01-Oct-24	10-Jul-26	01-Sep-24 A	30-Aug-26	-174	90.59%					
S2-ADB-SUB-1130	Engagement of P&D System	30	11-Jun-26	10-Jul-26	31-Aug-26	29-Sep-26	-174	0%					
DDA Submission													
Plant Layout and Civil Requirements Drawings for Administration Building (DDA037)													
Loading and Ground Level (DDA037a)													
S2-ADB-CR-1110	Approval of civil requirement & general arrangement drawing of ADB (Loading and Ground Level)	9	06-Jun-26	30-Jun-26	27-May-26 A	15-Jul-26	-145	64%					
First and Roof Level (DDA037b)													
S2-ADB-CR-1120	Prepare & Submission of civil requirement & general arrangement drawing of ADB (First and Roof Level)	9	10-May-26	30-Jun-26	11-Apr-26 A	09-Jul-26	-160	82.69%					
S2-ADB-CR-1130	Approval of civil requirement & general arrangement drawing of ADB (First and Roof Level)	21	02-Jun-26	20-Jun-26	10-Jul-26	30-Jul-26	-160	0%					
Fire Services System (DDA018)													
S2-ADB-DDA-1030	Approval of DDA Design of FS System	45	01-Dec-25	13-Feb-26	28-Mar-26 A	14-Aug-26	-254	40%					
MVAC System (with effluent cooling system) (DDA019)													
MV System (in SDB and ADB) (DDA019a)													
S2-ADB-DDA-1070	Approval of DDA Design of MV System	15	21-Sep-25	02-Apr-26	29-Nov-25 A	15-Jul-26	-198	92.27%					
AC system (AC system in SDB and with Effluent Cooling System in ADB) (DDA019b)													
S2-ADB-DDA-1580	Re-submission of DDA Design of AC System (with effluent cooling system)	9	22-May-26	17-Jul-26	20-Mar-26 A	09-Jul-26	-213	84.21%					
S2-ADB-DDA-1590	Approval of DDA Design of AC System (with effluent cooling system)	21	16-Jun-26	06-Jul-26	10-Jul-26	30-Jul-26	-213	0%					
Electrical System													
Electrical System - LV Power Distribution System (DDA021B)													
S2-ADB-DDA-1350	Approval of DDA Design of LV Power Distribution System	45	16-Jun-26	15-Jul-26	27-May-26 A	14-Aug-26	-252	0%					
Electrical System - Control Wiring Diagram for LV Switchboard (DDA021C)													
S2-ADB-DDA-1390	Approval of DDA Design of Control Wiring Diagram for LV Switchboard	45	21-May-26	07-Jul-26	15-Apr-26 A	14-Aug-26	-252	6.25%					
Building Services Electrical System													
Building Services Electrical System - Lighting System of SDB & ADB (DDA024A)													
S2-ADB-DDA-1190	Approval of DDA Design of Lighting system	45	21-Dec-25	06-Jun-26	13-Feb-26 A	14-Aug-26	-157	73.21%					
Building Services Electrical System - Small Power System of SDB & ADB (DDA024B)													
S2-ADB-DDA-1470	Approval of DDA Design of Small Power System	45	06-Dec-25	06-Apr-26	31-Mar-26 A	14-Aug-26	-157	63.11%					
Building Services Electrical System - Cable Containment (DDA024C)													
S2-ADB-DDA-1510	Approval of DDA Design of Cable Containment	45	07-Mar-26	27-Aug-26	07-Feb-26 A	14-Aug-26	-157	74.14%					
Building Services Electrical System - Lighting Control System (DDA024D)													
S2-ADB-DDA-1550	Approval of DDA Design of Lighting Control System	45	18-Apr-26	19-Sep-26	26-Feb-26 A	14-Aug-26	-157	70.97%					
Building Services Electrical System - Master Electrical Installation Details (DDA024E)													
S2-ADB-DDA-1620	Re-submission of DDA Design of Master Electrical Installation Details	45	14-Mar-26	17-Jul-26	14-Feb-26 A	14-Aug-26	-196	64.29%					

Working Duration

Critical Activity

Milestone

Primary Baseline

Baseline Milestone

Actual Progr..

Contract No. DE/2020/01

Yuen Long Effluent Polishing Plant - E&M Works for Sludge Dewatering Building, Administration Building and Renewable Energy

3 Months Rolling Programme (Based on RP Rev. 43) as 30 Jun 2026

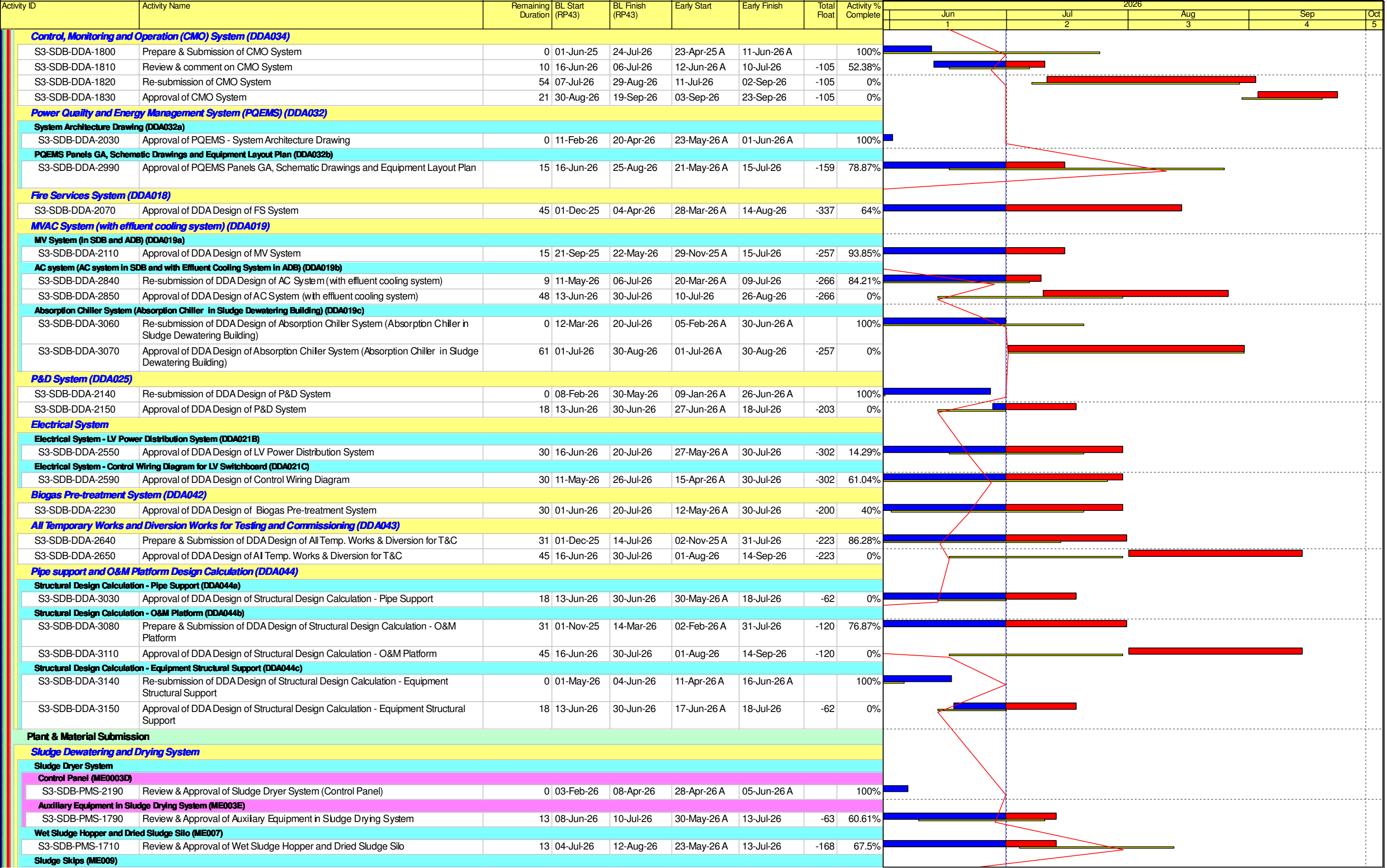
Based on DE/2020/01 Revised Programme Rev. 43

Date	Revision	Checked	Approved
31-Mar-26	Rev.41	LT/IM	JM
30-Apr-26	Rev.42	LT/IM	JM
31-May-26	Rev.43	AI/IM	JM
30-Jun-26	Rev.44	AI	JM

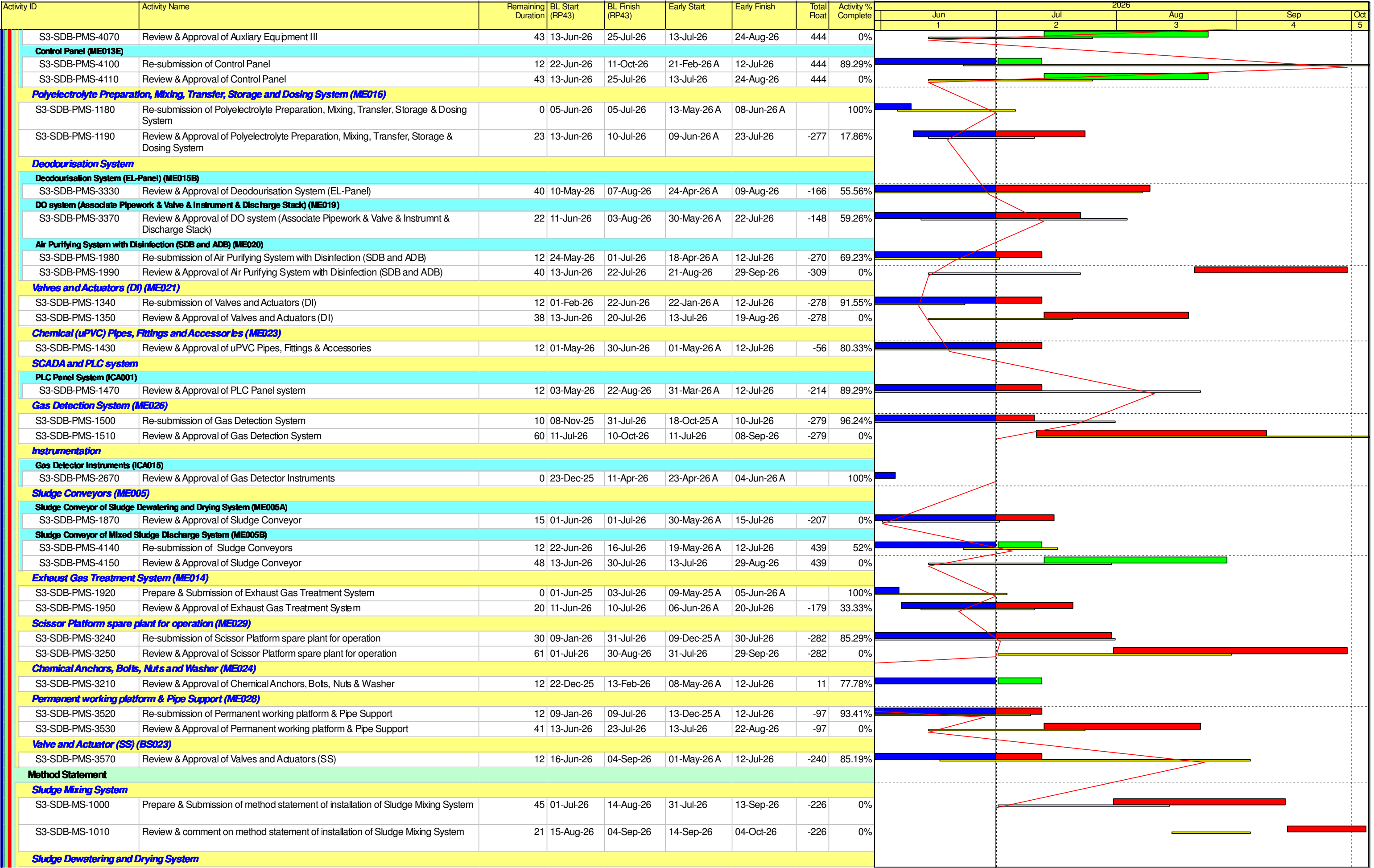
Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026				
									Jun	Jul	Aug	Sep	Oct
									1	2	3	4	5
S2-ADB-DDA-1630	Approval of DDA Design of Master Electrical Installation Details	21	20-Jun-26	30-Jul-26	15-Aug-26	04-Sep-26	-196	0%					
P&D System (DDA025)													
S2-ADB-DDA-1220	Re-submission of DDA Design of P&D System	0	23-Mar-26	01-Aug-26	09-Jan-26 A	26-Jun-26 A		100%					
S2-ADB-DDA-1230	Approval of DDA Design of P&D System	17	02-Jun-26	22-Jun-26	27-Jun-26 A	17-Jul-26	-170	19.05%					
Plant & Material Submission													
MVAC System													
Dehumidifier (BS001) (Combined in ME020)													
S2-ADB-PMS-1004	Re-submission of Dehumidifier	12	01-May-26	25-Jun-26	18-Apr-26 A	12-Jul-26	-83	78.57%					
S2-ADB-PMS-1010	Review & Approval of Dehumidifier	40	13-Jun-26	22-Jul-26	13-Jul-26	21-Aug-26	-83	0%					
Prefilter and After filter (BS002) (Combined in ME020)													
S2-ADB-PMS-1324	Re-submission of Prefilter and After Filter	12	01-May-26	25-Jun-26	18-Apr-26 A	12-Jul-26	-83	78.57%					
S2-ADB-PMS-1330	Review & Approval of Prefilter and After Filter	40	13-Jun-26	22-Jul-26	13-Jul-26	21-Aug-26	-83	0%					
Axial/Propeller/Centrifugal/ Jet Fan (BS003)													
S2-ADB-PMS-1380	Re-submission of Axial/Propeller/Centrifugal/ Jet Fan	12	05-Jan-26	05-Jul-26	16-Dec-25 A	12-Jul-26	-153	93.41%					
S2-ADB-PMS-1390	Review & Approval of Axial/Propeller/Centrifugal/ Jet Fan	21	16-Jun-26	06-Jul-26	13-Jul-26	02-Aug-26	-153	0%					
Volume Control/Fire Damper, Louver, Griller and Air Ductwork (BS004)													
S2-ADB-PMS-1430	Review & Approval of Volume Control/Fire Damper, Louver, Griller and Air Ductwork	21	16-Jun-26	06-Jul-26	30-May-26 A	21-Jul-26	-141	0%					
Acoustic Silencer (BS005)													
S2-ADB-PMS-1460	Re-submission of Acoustic Silencer	15	11-Feb-26	17-Jul-26	07-Jan-26 A	15-Jul-26	-311	90.45%					
S2-ADB-PMS-1470	Review & Approval of Acoustic Silencer	48	13-Jun-26	30-Jul-26	16-Jul-26	01-Sep-26	-311	0%					
Absorption Chiller (BS006)													
S2-ADB-PMS-1500	Re-submission of Absorption Chiller	15	01-Apr-26	13-Aug-26	04-Feb-26 A	15-Jul-26	-327	88.89%					
S2-ADB-PMS-1510	Review & Approval of Absorption Chiller	62	20-Jun-26	20-Aug-26	16-Jul-26	15-Sep-26	-327	0%					
Outdoor and Indoor Unit (BS007)													
S2-ADB-PMS-1550	Review & Approval of Outdoor and indoor Unit	5	16-Jun-26	21-Jul-26	16-May-26 A	05-Jul-26	-282	86.11%					
Air Ductwork and Accessories for MVAC System (BS027)													
S2-ADB-PMS-3330	Review & Approval of Air Ductwork and Accessories for MVAC System	30	16-Jun-26	21-Jul-26	22-May-26 A	30-Jul-26	-307	16.67%					
P&D System													
FRP Water Tank (BS008)													
S2-ADB-PMS-2870	Review & comment on FRP Water Tank	0	01-May-26	21-May-26	24-Apr-26 A	04-Jun-26 A		100%					
S2-ADB-PMS-2880	Re-submission of FRP Water Tank	5	15-Jun-26	10-Jul-26	05-Jun-26 A	05-Jul-26	-179	80.77%					
S2-ADB-PMS-2890	Review & Approval of FRP Water Tank	21	11-Jul-26	31-Jul-26	06-Jul-26	26-Jul-26	-179	0%					
Plumbing system Pump Set (BS009A)													
S2-ADB-PMS-2920	Re-submission of Plumbing system Pump Set	12	21-Jan-26	04-Aug-26	29-Nov-25 A	12-Jul-26	-213	93.88%					
S2-ADB-PMS-2930	Review & Approval of Plumbing system Pump Set	48	13-Jun-26	30-Jul-26	13-Jul-26	29-Aug-26	-213	0%					
Plumbing system Pump Set (EL-Panel) (BS009B) (to be incl. in BS028)													
S2-ADB-PMS-3200	Re-submission of Plumbing system Pump Set (EL-panel)	15	14-Jun-26	04-Jul-26	12-May-26 A	15-Jul-26	-189	28.57%					
S2-ADB-PMS-3210	Review & Approval of Plumbing system Pump Set (EL-panel)	21	02-Jun-26	30-Jun-26	16-Jul-26	05-Aug-26	-189	0%					
Plumbing System (Pressure Vessel) (BS011)													
S2-ADB-PMS-3000	Re-submission of Pneumatic Tank / Pressure Vessel	10	16-Feb-26	23-Jul-26	06-Jan-26 A	10-Jul-26	-184	93.67%					
S2-ADB-PMS-3010	Review & Approval of Pneumatic Tank / Pressure Vessel	21	13-Jun-26	30-Jul-26	11-Jul-26	31-Jul-26	-184	0%					
Pipes and Fittings for Plumbing System (BS013A)													
S2-ADB-PMS-3090	Review & Approval of Pipes and Fittings for Plumbing and Drainage System	30	16-Jun-26	24-Aug-26	23-May-26 A	30-Jul-26	-183	57.14%					
Valves for Plumbing System (BS013C)													
S2-ADB-PMS-3380	Prepare & Submission of Valves for Plumbing and Drainage System	12	01-Jan-26	26-Jun-26	18-Dec-25 A	12-Jul-26	-186	93.22%					
S2-ADB-PMS-3410	Review & Approval of Valves for Plumbing and Drainage System	21	13-Jun-26	30-Jul-26	13-Jul-26	02-Aug-26	-186	0%					
Drainage system Pump Set (Submersible Sewage pump) (BS015)													
S2-ADB-PMS-3160	Re-submission of Drainage system Pump Set (Submersible Sewage pump)	12	13-Jan-26	13-Jul-26	13-Dec-25 A	12-Jul-26	-208	93.41%					
S2-ADB-PMS-3170	Review & Approval of Drainage system Pump Set (Submersible Sewage pump)	21	13-Jun-26	30-Jul-26	13-Jul-26	02-Aug-26	-208	0%					
FS System													
Fire Service Pump Set (Fixed Sprinkler, Fire and Jockey Pumps) (BS016A)													
S2-ADB-PMS-1110	Review & Approval of FS System - Fire Service Pump Set	20	21-Mar-26	10-Aug-26	28-Feb-26 A	20-Jul-26	-269	86.01%					
Fire Service Pump Set (EL-Panel) (BS016B) (to be incl. in BS028)													
S2-ADB-PMS-3220	Prepare & Submission of FS System - Fire Service Pump Set (EL Panel)	15	01-May-25	13-Oct-25	01-Nov-25 A	15-Jul-26	-285	90.96%					
S2-ADB-PMS-3250	Review & Approval of FS System - Fire Service Pump Set (EL Panel)	21	13-Jun-26	20-Jul-26	16-Jul-26	05-Aug-26	-285	0%					
Pipes, Fittings, Valves for Fire Service Installation (BS017)													
S2-ADB-PMS-3290	Review & Approval of Pipe, fittings, valves for FS Installation	14	08-Jul-26	26-Sep-26	01-May-26 A	14-Jul-26	-263	82.72%					

Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026					
									Jun	Jul	Aug	Sep	Oct	
									1	2	3	4	5	
Radio Communication, Telephone System and Public Address System (BS024)														
S2-ADB-PMS-1220	Re-submission of Radio Communication, Telephone System and Public Address System	12	19-Jun-26	20-Oct-26	13-May-26 A	12-Jul-26	-44	90.32%						
S2-ADB-PMS-1230	Review & Approval of Radio Communication, Telephone System and Public Address System	21	13-Jun-26	10-Oct-26	13-Jul-26	02-Aug-26	-44	0%						
CCTV , ACS & Security System (BS025)														
S2-ADB-PMS-1310	Review & Approval of CCTV, ACS & Security System	42	26-Nov-25	10-May-26	28-Apr-26 A	11-Aug-26	-118	74.7%						
Method Statement														
Fire Services System														
S2-ADB-MS-1000	Prepare & Submission of method statement of installation of FS system	25	11-Jun-26	05-Jul-26	15-Aug-26	08-Sep-26	-254	0%						
S2-ADB-MS-1010	Review & comment on method statement of installation of FS system	21	06-Jul-26	26-Jul-26	09-Sep-26	29-Sep-26	-254	0%						
MVAC System (with effluent cooling system)														
S2-ADB-MS-1040	Prepare & Submission of method statement of installation of MVAC System (with effluent cooling system)	30	07-Jul-26	05-Aug-26	31-Jul-26	29-Aug-26	-213	0%						
S2-ADB-MS-1050	Review & comment on method statement of installation of MVAC System (with effluent cooling system)	21	06-Aug-26	26-Aug-26	30-Aug-26	19-Sep-26	-213	0%						
S2-ADB-MS-1060	Re-submission of method statement of installation of MVAC System (with effluent cooling system)	30	27-Aug-26	25-Sep-26	20-Sep-26	19-Oct-26	-213	0%						
P&D System														
S2-ADB-MS-1200	Prepare & Submission of method statement of installation of P&D System	30	01-Aug-26	30-Aug-26	30-Aug-26	28-Sep-26	-213	0%						
S2-ADB-MS-1210	Review & comment on method statement of installation of P&D System	21	31-Aug-26	20-Sep-26	29-Sep-26	19-Oct-26	-213	0%						
Manufacture, FAT & Delivery of Major Equipment														
S2-ADB-MD-1000	Manufacture with FAT (4 months) & Delivery(1 month) of FS Pumps	154	20-Jul-26	20-Dec-26	20-Jul-26	20-Dec-26	-269	0%						
S2-ADB-MD-1010	Manufacture with FAT (4 months) & Delivery(1 month) of AFA Panel	154	20-Jul-26	20-Dec-26	05-Aug-26	05-Jan-27	-285	0%						
S2-ADB-MD-1060	Manufacture with FAT(3 months) & Delivery(1 month) of AC System	123	30-Jul-26	29-Nov-26	19-Aug-26	19-Dec-26	-327	0%						
S2-ADB-MD-1070	Manufacture with FAT (2 months) & Delivery(1 month) of P&D Pumps	93	30-Jul-26	30-Oct-26	02-Aug-26	02-Nov-26	-208	0%						
Interfacing Works														
S2-ADB-IFW-1000	Interface Works with Other Contract (including: Slab / Wall openings, Concrete Plinths, Cast-in Item, etc)	15	15-Dec-22	28-Feb-24	01-Apr-25 A	15-Jul-26	-145	96.6%						
S2-ADB-IFW-1020	Design Submission with Interface Works on Provision in LV Switchroom in ADB	90	01-Jun-26	29-Aug-26	01-Jul-26	28-Sep-26	-297	0%						
S2-ADB-IFW-1030	Design Submission with Interface Works on Effluent Supply for Effluent Cooling System	12	01-May-25	24-Jun-26	19-Apr-25 A	12-Jul-26	-93	97.14%						
S2-ADB-IFW-1040	Design Submission with Interface Works on Street Fire Hydrant Water Main & Pumping System	90	01-Jun-26	29-Aug-26	01-Jul-26	28-Sep-26	-206	0%						
S2-ADB-IFW-1050	Design Submission with Interface Works on Plumbing & Drainage	59	01-Dec-25	14-May-27	15-Feb-25 A	28-Aug-26	-212	88.87%						
S2-ADB-IFW-1060	Design Submission with Interface Works on BEAM Plus	29	01-Jun-26	29-Aug-26	01-May-26 A	29-Jul-26	-277	67.78%						
Section 3 - Design, supply, delivery, installation, T&C of Sludge Dewatering and Drying System														
Technical Submission & Approval														
Subletting														
Sludge Dewatering System														
S3-SDB-SUB-1120	Tendering of Instrument Air System	30	01-Oct-25	01-Jul-26	30-Sep-25 A	30-Jul-26	-112	89.05%						
S3-SDB-SUB-1130	Engagement of Instrument Air System	31	01-Jul-26	31-Jul-26	31-Jul-26	30-Aug-26	-112	0%						
Air Purifying System with Disinfection														
S3-SDB-SUB-1340	Tendering of Air Purification System	61	01-Feb-26	14-Jul-26	10-Jan-26 A	30-Aug-26	-309	62.8%						
S3-SDB-SUB-1350	Engagement of Air Purification System	30	23-Jun-26	22-Jul-26	31-Aug-26	29-Sep-26	-309	0%						
Gas Detection System														
S3-SDB-SUB-1400	Tendering of Gas Detection System	61	04-Dec-25	26-Sep-26	18-Aug-25 A	30-Aug-26	-117	79.46%						
S3-SDB-SUB-1410	Engagement of Gas Detection System	30	11-Jun-26	10-Jul-26	31-Aug-26	29-Sep-26	-117	0%						
Power Quality and Energy Management System (PQEMS)														
S3-SDB-SUB-1470	Engagement of PQEMS	20	11-Jun-26	11-Jul-26	23-May-26 A	20-Jul-26	-223	35.48%						
DDA Submission														
Civil Requirement														
Sludge Dewatering Building (DDA036)														
Ground and Frist Level (DDA036b)														
S3-SDB-CR-2110	Approval of civil requirement & general arrangement drawing of SDB (Ground & First level)	30	01-Apr-26	02-May-26	30-May-26 A	30-Jul-26	-280	6.25%						

Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026					
									Jun	Jul	Aug	Sep	Oct	
									1	2	3	4	5	
Roof Level (DDA036c)														
S3-SDB-CR-2150	Approval of civil requirement & general arrangement drawing of SDB (Roof Level)	30	10-Apr-26	11-May-26	30-May-26 A	30-Jul-26	-280	6.25%						
Site Wide Cable Duct System (DDA038)														
S3-SDB-CR-2070	Approval of civil requirement & general arrangement drawing of Site Wide Cable Duct System	0	01-Dec-25	01-Jan-26	30-May-26 A	08-Jun-26 A		100%						
Sludge Mixing System (DDA003)														
S3-SDB-DDA-1030	Approval of DDA Design of Sludge Mixing System	30	26-Jun-25	02-Oct-25	24-Mar-26 A	30-Jul-26	-226	69.7%						
Sludge Dewatering and Drying System														
Sludge Drying System (Dryer's Conveyor and Condensation System) (DDA004B)														
S3-SDB-DDA-2470	Approval of DDA Design of Sludge Drying System	30	01-Apr-25	31-Jan-26	29-Aug-25 A	30-Jul-26	-224	90.2%						
Sludge Handling and Dynamic Mixing System (Hopper, Diverters, Silo, Dynamic Sludge Mixer) (DDA004 C)														
S3-SDB-DDA-2510	Approval of DDA Design of Hopper, Diverters, Silo and Dynamic Sludge Mixer	30	01-Sep-25	06-Dec-25	26-Mar-26 A	30-Jul-26	-224	69.07%						
Sludge Conveying and Discharge System (DDA005)														
S3-SDB-DDA-1150	Approval of DDA Design of Sludge Conveying & Discharge System	40	01-Dec-25	01-Jan-26	30-May-26 A	09-Aug-26	-210	0%						
Polyelectrolyte Preparation, Mixing, Transferring, Storage and Dosing System (DDA006)														
S3-SDB-DDA-1190	Approval of DDA Design of Polyelectrolyte Preparation, Mixing, Transferring, Storage & Dosing System	51	07-Jun-25	07-Jul-26	31-May-25 A	20-Aug-26	-278	87.12%						
Centrate/Filtrate Collection System (DDA007)														
S3-SDB-DDA-1220	Re-submission of DDA Design of Centrate/Filtrate Collection System	12	02-Mar-26	02-Aug-26	13-Dec-25 A	12-Jul-26	-250	92.21%						
S3-SDB-DDA-1230	Approval of DDA Design of Centrate/Filtrate Collection System	48	13-Jun-26	30-Jul-26	13-Jul-26	29-Aug-26	-250	0%						
Steam Boiler System (DDA008)														
S3-SDB-DDA-1270	Approval of DDA Design of Steam Boiler System	45	06-Jan-26	06-May-26	01-Apr-26 A	14-Aug-26	-247	62.81%						
Sludge Heating System (DDA009)														
S3-SDB-DDA-1300	Re-submission of DDA Design of Sludge Heating System	23	22-Apr-26	25-Jul-26	10-Mar-26 A	23-Jul-26	-304	75.79%						
S3-SDB-DDA-1310	Approval of DDA Design of Sludge Heating System	48	13-Jun-26	30-Jul-26	24-Jul-26	09-Sep-26	-304	0%						
CHP System (DDA012)														
S3-SDB-DDA-1420	Re-submission of DDA Design of CHP Generating System	15	22-Apr-26	29-Jul-26	06-Mar-26 A	15-Jul-26	-253	84.85%						
S3-SDB-DDA-1430	Approval of DDA Design of CHP Generating System	48	13-Jun-26	30-Jul-26	16-Jul-26	01-Sep-26	-253	0%						
Exhaust Gas Treatment System (DDA013)														
S3-SDB-DDA-1460	Re-submission of DDA Design of Exhaust Gas Treatment System	0	21-Apr-26	30-Jul-26	04-Mar-26 A	29-Jun-26 A		100%						
S3-SDB-DDA-1470	Approval of DDA Design of Exhaust Gas Treatment System	21	13-Jun-26	30-Jul-26	30-Jun-26 A	21-Jul-26	-203	56.25%						
Deodorisation Unit/System (DDA015)														
S3-SDB-DDA-1550	Approval of DDA Design of Deodorisation Unit/System	30	01-May-26	01-Jun-26	30-May-26 A	30-Jul-26	-286	6.25%						
Air Purifier System with Disinfection (DDA016)														
S3-SDB-DDA-1590	Approval of DDA Design of Air Purifier System with Disinfection	60	15-May-26	12-Sep-26	01-Apr-26 A	29-Aug-26	-186	50.41%						
Lifting Appliance (DDA017)														
S3-SDB-DDA-1630	Approval of DDA Design of Lifting Appliance	30	16-Apr-26	25-May-26	22-May-26 A	30-Jul-26	-252	25%						
Emergency Generator Set (DDA023)														
S3-SDB-DDA-1670	Approval of DDA Design of Emergency Generator System	60	27-Feb-26	06-May-26	23-May-26 A	29-Aug-26	-338	13.04%						
PLC and SCADA System, and Network Integration (DDA035)														
System Architecture Drawing and I/O Schedule (DDA035a)														
S3-SDB-DDA-1750	Approval of System Architecture Drawing and I/O Schedule	45	04-May-26	02-Sep-26	31-Mar-26 A	14-Aug-26	-204	63.11%						
SCADA Panels GA, Schematic Drawings and Equipment Layout Plan (DDA035b)														
S3-SDB-DDA-2890	Review & comment on SCADA Panels GA, Schematic Drawings and Equipment Layout Plan	0	29-May-26	13-Jul-26	25-Apr-26 A	08-Jun-26 A		100%						
S3-SDB-DDA-2900	Re-submission of SCADA Panels GA, Schematic Drawings and Equipment Layout Plan	15	10-Jun-26	09-Jul-26	01-Jul-26	15-Jul-26	-333	0%						
S3-SDB-DDA-2910	Approval of SCADA Panels GA, Schematic Drawings and Equipment Layout Plan	21	10-Jul-26	30-Jul-26	16-Jul-26	05-Aug-26	-333	0%						
HMI Grapichs Design (DDA035c)														
S3-SDB-DDA-2930	Review & comment on HMI Grapichs Design	0	31-May-26	22-Jul-26	24-Apr-26 A	04-Jun-26 A		100%						
S3-SDB-DDA-2940	Re-submission of HMI Grapichs Design	30	16-Jun-26	09-Nov-26	05-Jun-26 A	30-Jul-26	-210	79.59%						
S3-SDB-DDA-2950	Approval of HMI Grapichs Design	21	10-Nov-26	30-Nov-26	31-Jul-26	20-Aug-26	-210	0%						
Gas Detection System (DDA028)														
S3-SDB-DDA-1780	Re-submission of Gas Detection System	12	18-Nov-25	21-May-26	18-Oct-25 A	12-Jul-26	-251	93.51%						
S3-SDB-DDA-1790	Approval of Gas Detection System	79	13-Jun-26	30-Aug-26	13-Jul-26	29-Sep-26	-251	0%						



Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026				
									Jun	Jul	Aug	Sep	Oct
									1	2	3	4	5
S3-SDB-PMS-2200	Prepare & Submission of Sludge Skips	42	01-Nov-25	13-Jul-26	01-Oct-25 A	11-Aug-26	-238	83.53%					
S3-SDB-PMS-2210	Review & Approval of Sludge Skips	42	13-Jul-26	15-Sep-26	12-Aug-26	22-Sep-26	-238	0%					
Digested Sludge Holding Tank Drain Pump and Polymer Pumps (ME022)													
S3-SDB-PMS-2230	Review & Approval of Digested Sludge Holding Tank Drain Pump and Polymer Pumps	41	16-Jun-26	27-Sep-26	29-Apr-26 A	10-Aug-26	-291	60.58%					
Biogas Pre-treatment System (ME010)													
S3-SDB-PMS-1070	Review & Approval of Biogas Pre-treatment System	15	16-Jun-26	31-Jul-26	12-May-26 A	15-Jul-26	-244	67.39%					
Auxiliary Equipment I (Gas train and Lubrication oil tank) for CHP system (ME011B)													
S3-SDB-PMS-3640	Re-submission of Auxiliary Equipment I (Gas train and Lubrication oil tank) for CHP system	12	14-Jun-26	15-Jul-26	12-May-26 A	12-Jul-26	-269	62.5%					
S3-SDB-PMS-3650	Review & Approval of Auxiliary Equipment I (Gas train and Lubrication oil tank) for CHP system	46	13-Jun-26	28-Jul-26	13-Jul-26	27-Aug-26	-269	0%					
Auxiliary Equipment II (Intake Fan, Exhaust Gas Silencer & Main Heat Exchanger) for CHP system (ME011C)													
S3-SDB-PMS-3660	Prepare & Submission of Auxiliary Equipment II (Intake Fan, Exhaust Gas Silencer and Main Heat Exchanger) for CHP system	31	01-Jun-25	30-Oct-25	02-Mar-26 A	31-Jul-26	-239	79.61%					
S3-SDB-PMS-3670	Review & Approval of Auxiliary Equipment II (Intake Fan, Exhaust Gas Silencer and Main Heat Exchanger) for CHP system	28	01-Aug-26	28-Aug-26	01-Aug-26	28-Aug-26	-239	0%					
CHP Heat Recovery System (ME011D)													
S3-SDB-PMS-3580	Prepare & Submission of CHP Heat Recovery System	0	01-Jun-25	09-Nov-25	02-Jan-26 A	10-Jun-26 A		100%					
S3-SDB-PMS-3610	Review & Approval of CHP Heat Recovery System	10	13-Jun-26	28-Jun-26	11-Jun-26 A	10-Jul-26	-260	37.5%					
Control Panel and Instrument for CHP system (ME011E)													
S3-SDB-PMS-3680	Prepare & Submission of Control Panel and Instrument for CHP system	15	01-Jun-25	27-Aug-25	02-Mar-26 A	15-Jul-26	-286	82.95%					
S3-SDB-PMS-3690	Review & Approval of Control Panel and Instrument for CHP system	92	29-Jun-26	28-Sep-26	16-Jul-26	15-Oct-26	-286	0%					
Gas Detection system for CHP system (ME011F)													
S3-SDB-PMS-3700	Prepare & Submission of Gas Detection system for CHP system	28	01-Jun-25	27-Oct-25	02-Mar-26 A	28-Jul-26	-238	81.21%					
S3-SDB-PMS-3710	Review & Approval of Gas Detection system for CHP system	92	29-Jul-26	28-Oct-26	29-Jul-26	28-Oct-26	-238	0%					
Pipework and Valves (Biogas pipes, Water pipes and Chimney pipes) for CHP system (ME011G)													
S3-SDB-PMS-3720	Prepare & Submission of Pipework and Valves (Biogas pipes, Water pipes and Chimney pipes)	28	01-Jun-25	27-Oct-25	02-Mar-26 A	28-Jul-26	-238	81.21%					
S3-SDB-PMS-3730	Review & Approval of Pipework and Valves (Biogas pipes, Water pipes and Chimney pipes)	92	29-Jul-26	28-Oct-26	29-Jul-26	28-Oct-26	-238	0%					
Acoustic Enclosure for CHP Generator Set (ME011H)													
S3-SDB-PMS-3740	Prepare & Submission of Acoustic Enclosure for CHP Generator Set	12	01-Jun-25	11-Sep-25	02-Mar-26 A	12-Jul-26	-268	88.35%					
S3-SDB-PMS-3750	Review & Approval of Acoustic Enclosure for CHP Generator Set	77	13-Jun-26	28-Aug-26	13-Jul-26	27-Sep-26	-268	0%					
Sludge Heating System (ME012)													
Hotwater Heater Module (Hotwater Heaters) (ME012A)													
S3-SDB-PMS-1910	Review & Approval of Sludge Heating System (Biogas Hot-Water Heater)	15	16-Jun-26	17-Jul-26	30-May-26 A	15-Jul-26	-210	53.13%					
Auxiliary Equipment I (Blow Down Tanks and Heat Exchangers) (ME012B)													
S3-SDB-PMS-3830	Review & Approval of Auxiliary Equipment I	15	10-Jun-26	30-Jun-26	30-May-26 A	15-Jul-26	484	28.57%					
Auxiliary Equipment II (Chemical Dosing System, Hotwater Feed & Recirculation Pumps) (ME012C)													
S3-SDB-PMS-3870	Review & Approval of Auxiliary Equipment II	15	10-Jun-26	11-Jul-26	30-May-26 A	15-Jul-26	484	53.13%					
Auxiliary Equipment III (Pipework, Valve, Instrument) (ME012D)													
S3-SDB-PMS-3900	Re-submission of Auxiliary Equipment III	12	22-Jun-26	28-Sep-26	06-Mar-26 A	12-Jul-26	469	87.88%					
S3-SDB-PMS-3910	Review & Approval of Auxiliary Equipment III	18	13-Jun-26	30-Jun-26	13-Jul-26	30-Jul-26	469	0%					
Control Panel (ME012E)													
S3-SDB-PMS-3940	Re-submission of Control Panel	12	22-Jun-26	28-Sep-26	06-Mar-26 A	12-Jul-26	469	87.88%					
S3-SDB-PMS-3950	Review & Approval of Control Panel	18	13-Jun-26	30-Jun-26	13-Jul-26	30-Jul-26	469	0%					
Steam Boiler System (ME013)													
Steam Boiler Module (Steam Boilers, Gas Train, Burner) (ME013A)													
S3-SDB-PMS-1150	Review & Approval of Steam Boiler Module	18	13-Jun-26	30-Jun-26	01-May-26 A	18-Jul-26	-301	0%					
Auxiliary Equipment I (Deaerators, Flash Vessels, Blow Down Tanks and Steam Feed Pumps) (ME013B)													
S3-SDB-PMS-3980	Re-submission of Auxiliary Equipment I	12	22-Jun-26	11-Oct-26	21-Feb-26 A	12-Jul-26	444	89.29%					
S3-SDB-PMS-3990	Review & Approval of Auxiliary Equipment I	43	13-Jun-26	25-Jul-26	13-Jul-26	24-Aug-26	444	0%					
Auxiliary Equipment II (Chemical Dosing System & Condensation System) (ME013C)													
S3-SDB-PMS-4020	Re-submission of Auxiliary Equipment II	12	22-Jun-26	11-Oct-26	21-Feb-26 A	12-Jul-26	444	89.29%					
S3-SDB-PMS-4030	Review & Approval of Auxiliary Equipment II	43	13-Jun-26	25-Jul-26	13-Jul-26	24-Aug-26	444	0%					
Auxiliary Equipment III (Pipework, Valve, Instrument) (ME013D)													
S3-SDB-PMS-4060	Re-submission of Auxiliary Equipment III	12	22-Jun-26	11-Oct-26	21-Feb-26 A	12-Jul-26	444	89.29%					



Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026				
									Jun	Jul	Aug	Sep	Oct
									1	2	3	4	5
S3-SDB-MS-1080	Prepare & Submission of method statement of installation of Sludge Dewatering & Drying System	30	01-Jul-26	30-Jul-26	31-Jul-26	29-Aug-26	-224	0%					
S3-SDB-MS-1090	Review & comment on method statement of installation of Sludge Dewatering & Drying System	30	31-Jul-26	29-Aug-26	30-Aug-26	28-Sep-26	-224	0%					
S3-SDB-MS-1100	Re-submission of method statement of installation of Sludge Dewatering & Drying System	40	30-Aug-26	08-Oct-26	29-Sep-26	07-Nov-26	-224	0%					
Sludge Conveying and Discharge System													
S3-SDB-MS-1120	Prepare & Submission of method statement of installation of Sludge Conveying & Discharge System	30	01-Jul-26	30-Jul-26	10-Aug-26	08-Sep-26	-210	0%					
S3-SDB-MS-1130	Review & comment on method statement of installation of Sludge Conveying & Discharge System	30	31-Jul-26	29-Aug-26	09-Sep-26	08-Oct-26	-210	0%					
Polyelectrolyte Preparation, Mixing, Transferring, Storage and Dosing System													
S3-SDB-MS-1160	Prepare & Submission of method statement of installation of Polyelectrolyte System	30	01-Jul-26	30-Jul-26	21-Aug-26	19-Sep-26	-241	0%					
S3-SDB-MS-1170	Review & comment on method statement of installation of Polyelectrolyte System	30	31-Jul-26	29-Aug-26	20-Sep-26	19-Oct-26	-241	0%					
Centrate/Filtrate Collection System													
S3-SDB-MS-1200	Prepare & Submission of method statement of installation of Centrate/Filtrate Collection System	30	30-Aug-26	28-Sep-26	30-Aug-26	28-Sep-26	-250	0%					
S3-SDB-MS-1210	Review & comment on method statement of installation of Centrate/Filtrate Collection System	30	29-Sep-26	28-Oct-26	29-Sep-26	28-Oct-26	-250	0%					
Steam Boiler System													
S3-SDB-MS-1240	Prepare & Submission of method statement of installation of Steam Boiler System	30	31-Jul-26	29-Aug-26	15-Aug-26	13-Sep-26	-247	0%					
S3-SDB-MS-1250	Review & comment on method statement of installation of Steam Boiler System	30	30-Aug-26	28-Sep-26	14-Sep-26	13-Oct-26	-247	0%					
Sludge Heating System													
S3-SDB-MS-1280	Prepare & Submission of method statement of installation of Sludge Heating System	30	31-Jul-26	29-Aug-26	10-Sep-26	09-Oct-26	-304	0%					
CHP System													
S3-SDB-MS-1400	Prepare & Submission of method statement of installation of CHP System	30	31-Jul-26	29-Aug-26	02-Sep-26	01-Oct-26	-253	0%					
Exhaust Gas Treatment System													
S3-SDB-MS-1440	Prepare & Submission of method statement of installation of Exhaust Gas Treatment System	30	31-Jul-26	29-Aug-26	22-Jul-26	20-Aug-26	-203	0%					
S3-SDB-MS-1450	Review & comment on method statement of installation of Exhaust Gas Treatment System	30	30-Aug-26	28-Sep-26	21-Aug-26	19-Sep-26	-203	0%					
S3-SDB-MS-1460	Re-submission of method statement of installation of Exhaust Gas Treatment System	30	29-Sep-26	28-Oct-26	20-Sep-26	19-Oct-26	-203	0%					
Deodorisation Unit/System													
S3-SDB-MS-1520	Prepare & Submission of method statement of installation of Deodorisation Unit/System	30	01-Jul-26	30-Jul-26	31-Jul-26	29-Aug-26	-286	0%					
S3-SDB-MS-1530	Review & comment on method statement of installation of Deodorisation Unit/System	30	31-Jul-26	29-Aug-26	30-Aug-26	28-Sep-26	-286	0%					
S3-SDB-MS-1540	Re-submission of method statement of installation of Deodorisation Unit/System	40	30-Aug-26	08-Oct-26	29-Sep-26	07-Nov-26	-286	0%					
Air Purifier System with Disinfection													
S3-SDB-MS-1560	Prepare & Submission of method statement of installation of Air Purifier System with Disinfection	30	01-Jun-26	30-Jun-26	01-Jul-26	30-Jul-26	-180	0%					
S3-SDB-MS-1570	Review & comment on method statement of installation of Air Purifier System with Disinfection	30	01-Jul-26	30-Jul-26	31-Jul-26	29-Aug-26	-180	0%					
S3-SDB-MS-1580	Re-submission of method statement of installation of Air Purifier System with Disinfection	30	31-Jul-26	29-Aug-26	30-Aug-26	28-Sep-26	-180	0%					
S3-SDB-MS-1590	Approval of method statement of installation of Air Purifier System with Disinfection	30	30-Aug-26	28-Sep-26	29-Sep-26	28-Oct-26	-180	0%					
Lifting Appliance													
S3-SDB-MS-1600	Prepare & Submission of method statement of installation of Lifting Appliance	30	01-Jun-26	30-Jun-26	01-Jul-26	30-Jul-26	-293	0%					
S3-SDB-MS-1610	Review & comment on method statement of installation of Lifting Appliance	21	01-Jul-26	21-Jul-26	31-Jul-26	20-Aug-26	-293	0%					
S3-SDB-MS-1620	Re-submission of method statement of installation of Lifting Appliance	30	22-Jul-26	20-Aug-26	21-Aug-26	19-Sep-26	-293	0%					
S3-SDB-MS-1630	Approval of method statement of installation of Lifting Appliance	21	21-Aug-26	10-Sep-26	20-Sep-26	10-Oct-26	-293	0%					

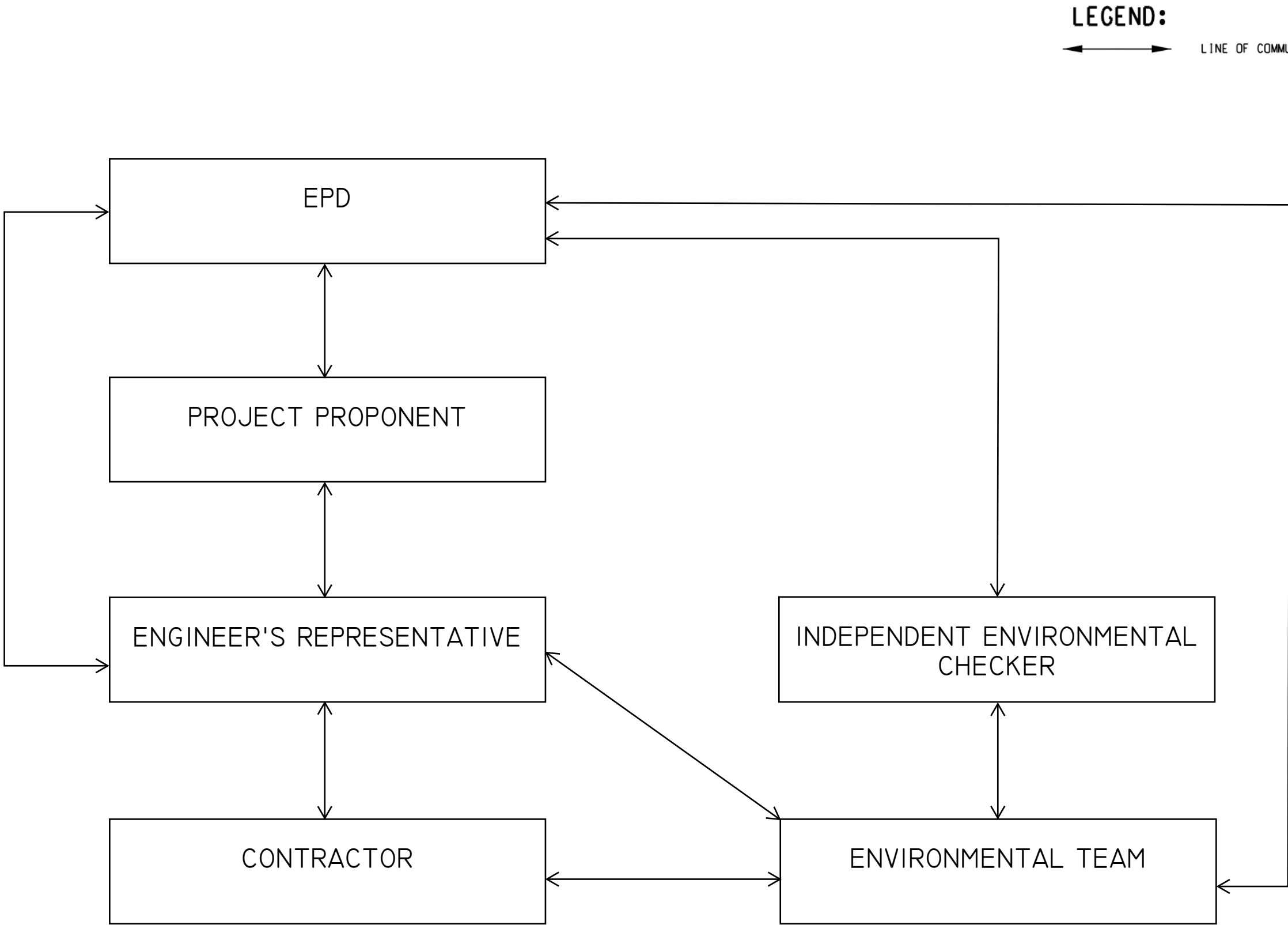
Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026					
									Jun	Jul	Aug	Sep	Oct	
									1	2	3	4	5	
Emergency Generator Set														
S3-SDB-MS-1640	Prepare & Submission of method statement of installation of Emergency Generator System	30	31-Jul-26	29-Aug-26	30-Aug-26	28-Sep-26	-330	0%						
S3-SDB-MS-1650	Review & comment on method statement of installation of Emergency Generator System	21	30-Aug-26	19-Sep-26	29-Sep-26	19-Oct-26	-330	0%						
PLC and SCADA System, and Network Integration														
S3-SDB-MS-1680	Prepare & Submission of method statement of installation of PLC & SCADA System, & Network Integration	30	01-Dec-26	30-Dec-26	21-Aug-26	19-Sep-26	-210	0%						
S3-SDB-MS-1690	Review & comment on method statement of installation of PLC & SCADA System, & Network Integration	21	31-Dec-26	20-Jan-27	20-Sep-26	10-Oct-26	-210	0%						
Process Instrumentation System														
S3-SDB-MS-1800	Prepare & Submission of method statement of installation of UPS System	30	01-Jun-26	30-Jun-26	01-Jul-26	30-Jul-26	-232	0%						
S3-SDB-MS-1810	Review & comment on method statement of installation of UPS System	30	01-Jul-26	30-Jul-26	31-Jul-26	29-Aug-26	-232	0%						
S3-SDB-MS-1820	Re-submission of method statement of installation of UPS System	40	31-Jul-26	08-Sep-26	30-Aug-26	08-Oct-26	-232	0%						
Power Quality and Energy Management System (PQEMS)														
S3-SDB-MS-1960	Prepare & Submission of method statement of installation of PQEMS	30	31-Jul-26	29-Aug-26	16-Jul-26	14-Aug-26	-159	0%						
S3-SDB-MS-1970	Review & comment on method statement of installation of PQEMS	21	30-Aug-26	19-Sep-26	15-Aug-26	04-Sep-26	-159	0%						
S3-SDB-MS-1980	Re-submission of method statement of installation of PQEMS	30	20-Sep-26	19-Oct-26	05-Sep-26	04-Oct-26	-159	0%						
Fire Services System														
S3-SDB-MS-2000	Prepare & Submission of method statement of installation of FS system	30	01-Jun-26	30-Jun-26	01-Jul-26	30-Jul-26	-337	0%						
S3-SDB-MS-2010	Review & comment on method statement of installation of FS system	21	01-Jul-26	21-Jul-26	31-Jul-26	20-Aug-26	-337	0%						
S3-SDB-MS-2020	Re-submission of method statement of installation of FS system	30	22-Jul-26	20-Aug-26	21-Aug-26	19-Sep-26	-337	0%						
S3-SDB-MS-2030	Approval of method statement of installation of FS system	21	21-Aug-26	10-Sep-26	20-Sep-26	10-Oct-26	-337	0%						
MVAC System (with effluent cooling system)														
S3-SDB-MS-2040	Prepare & Submission of method statement of installation of MVAC System (with effluent cooling system)	30	01-Jul-26	30-Jul-26	10-Jul-26	08-Aug-26	-266	0%						
S3-SDB-MS-2050	Review & comment on method statement of installation of MVAC System (with effluent cooling system)	21	31-Jul-26	20-Aug-26	09-Aug-26	29-Aug-26	-266	0%						
S3-SDB-MS-2060	Re-submission of method statement of installation of MVAC System (with effluent cooling system)	30	21-Aug-26	19-Sep-26	30-Aug-26	28-Sep-26	-266	0%						
S3-SDB-MS-2070	Approval of method statement of installation of MVAC System (with effluent cooling system)	21	20-Sep-26	10-Oct-26	29-Sep-26	19-Oct-26	-266	0%						
P&D System														
S3-SDB-MS-2080	Prepare & Submission of method statement of installation of P&D System	30	01-Jul-26	30-Jul-26	19-Jul-26	17-Aug-26	-203	0%						
S3-SDB-MS-2090	Review & comment on method statement of installation of P&D System	21	31-Jul-26	20-Aug-26	18-Aug-26	07-Sep-26	-203	0%						
S3-SDB-MS-2100	Re-submission of method statement of installation of P&D System	30	21-Aug-26	19-Sep-26	08-Sep-26	07-Oct-26	-203	0%						
Electrical System														
S3-SDB-MS-2120	Prepare & Submission of method statement of LVSB installation	30	01-Jul-26	30-Jul-26	31-Jul-26	29-Aug-26	-302	0%						
S3-SDB-MS-2130	Review & comment on method statement of LVSB installation	35	31-Jul-26	03-Sep-26	30-Aug-26	03-Oct-26	-302	0%						
Earthing & Lightning Protection System														
S3-SDB-MS-2640	Prepare & Submission of method statement of Earthing & Lightning Protection System	30	01-Jun-26	30-Jun-26	01-Jul-26	30-Jul-26	-144	0%						
S3-SDB-MS-2650	Review & comment on method statement of Earthing & Lightning Protection System	21	01-Jul-26	21-Jul-26	31-Jul-26	20-Aug-26	-144	0%						
S3-SDB-MS-2660	Re-submission of method statement of Earthing & Lightning Protection System	28	22-Jul-26	18-Aug-26	21-Aug-26	17-Sep-26	-144	0%						
S3-SDB-MS-2670	Approval of method statement of Earthing & Lightning Protection System	21	19-Aug-26	08-Sep-26	18-Sep-26	08-Oct-26	-144	0%						
Biogas Pre-treatment System														
S3-SDB-MS-2200	Prepare & Submission of method statement of installation of Biogas Pre-treatment System	30	01-Jul-26	30-Jul-26	31-Jul-26	29-Aug-26	-200	0%						
S3-SDB-MS-2210	Review & comment on method statement of installation of Biogas Pre-treatment System	30	31-Jul-26	29-Aug-26	30-Aug-26	28-Sep-26	-200	0%						
S3-SDB-MS-2220	Re-submission of method statement of installation of Biogas Pre-treatment System	30	30-Aug-26	28-Sep-26	29-Sep-26	28-Oct-26	-200	0%						
All Temporary Works and Diversion Works for Testing and Commissioning														
S3-SDB-MS-2240	Prepare & Submission of method statement of installation of All Temp. Works & Diversion for T&C	30	31-Jul-26	29-Aug-26	15-Sep-26	14-Oct-26	-223	0%						
SAT / T&C procedure														

Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026				
									Jun 1	Jul 2	Aug 3	Sep 4	Oct 5
Lifting Appliance													
S3-SDB-SAT-1600	Prepare & Submission of SAT/ T&C Procedure (with Test Form) of Lifting Appliance	30	01-Jun-26	30-Jun-26	01-Jul-26	30-Jul-26	-172	0%					
S3-SDB-SAT-1610	Review & comment on SAT/ T&C Procedure (with Test Form) of Lifting Appliance	30	01-Jul-26	30-Jul-26	31-Jul-26	29-Aug-26	-172	0%					
S3-SDB-SAT-1620	Re-submission of SAT/ T&C Procedure (with Test Form) of Lifting Appliance	40	31-Jul-26	08-Sep-26	30-Aug-26	08-Oct-26	-172	0%					
Earthing & Lightning Protection System													
S3-SDB-SAT-2680	Prepare & Submission of T&C Plan (include FAT & SAT) of Earthing & Lightning Protection System	30	01-Jul-26	30-Jul-26	31-Jul-26	29-Aug-26	-137	0%					
S3-SDB-SAT-2690	Review & comment on T&C Plan (include FAT & SAT) of Earthing & Lightning Protection System	21	31-Jul-26	20-Aug-26	30-Aug-26	19-Sep-26	-137	0%					
S3-SDB-SAT-2700	Re-submission of T&C Plan (include FAT & SAT) of Earthing & Lightning Protection System	28	21-Aug-26	17-Sep-26	20-Sep-26	17-Oct-26	-137	0%					
Manufacture, FAT & Delivery of Major Equipment													
S3-SDB-MD-1060	Delivery of Dryer Centrifuge	0	01-Jun-26	12-Jul-26	21-Mar-26 A	03-Jul-26 A		100%					
S3-SDB-MD-1070	Manufacture of Paddle Dryer	80	21-Dec-25	21-Dec-26	19-Aug-25 A	18-Sep-26	-195	78.14%					
S3-SDB-MD-1080	FAT for Paddle Dryer	30	21-Aug-26	19-Sep-26	19-Sep-26	18-Oct-26	-195	0%					
S3-SDB-MD-1110	Manufacture with FAT (5 months) & Delivery(1 month) of Discharge & Cooling Conveyors	80	10-Mar-26	07-Sep-26	19-Dec-25 A	18-Sep-26	-71	56.04%					
S3-SDB-MD-1120	Manufacture with FAT (5 months) & Delivery(1 month) of Air Ejector	55	01-Mar-26	29-Aug-26	24-Feb-26 A	24-Aug-26	-117	69.78%					
S3-SDB-MD-1130	Manufacture with FAT (3 months) & Delivery(1 month) of Wet Sludge Hopper	124	22-Jul-26	22-Nov-26	21-Aug-26*	22-Dec-26	-207	0%					
S3-SDB-MD-1132	Manufacture with FAT (3 months) & Delivery(1 month) of Dried Sludge Silo	124	22-Jul-26	22-Nov-26	21-Aug-26*	22-Dec-26	-195	0%					
S3-SDB-MD-1134	Manufacture with FAT (3 months) & Delivery(1 month) of Sludge Feed Pump	69	01-Apr-26	31-Jul-26	09-Mar-26 A	07-Sep-26	-133	43.44%					
S3-SDB-MD-1136	Manufacture with FAT (2 months) & Delivery(1 month) of Instrument Air System	93	30-Aug-26	30-Nov-26	31-Aug-26*	01-Dec-26	-112	0%					
S3-SDB-MD-1138	Manufacture with FAT (2 months) & Delivery(1 month) of Sludge Heating System - Heat Exchanger and Recirculation System	93	15-Jun-26	15-Sep-26	28-Aug-26*	28-Nov-26	-254	0%					
S3-SDB-MD-1140	Manufacture with FAT (5 months) & Delivery(1 month) of Biogas Pre-treatment System	184	30-Jun-26	30-Dec-26	14-Aug-26*	13-Feb-27	-274	0%					
S3-SDB-MD-1155	Manufacture with FAT (3 months) & Delivery(1 month) of Exhaust Gas Treatment System	124	10-Jul-26	10-Nov-26	28-Aug-26*	29-Dec-26	-218	0%					
S3-SDB-MD-1160	Manufacture with FAT (6 months) & Delivery(1 month) of Steam Boiler System	214	15-Jul-26	13-Feb-27	28-Aug-26*	29-Mar-27	-327	0%					
S3-SDB-MD-1170	Manufacture with FAT (6 months) & Delivery(1 month) of Polyelectrolyte Preparation,Mixing,Transfer,Storage & Dosing Sys	216	10-Jul-26	10-Feb-27	28-Aug-26*	31-Mar-27	-313	0%					
S3-SDB-MD-1185	Manufacture with FAT (2 months) & Delivery(1 month) of Air Purification System	93	22-Jul-26	22-Oct-26	29-Sep-26	30-Dec-26	-309	0%					
S3-SDB-MD-1210	FAT for LVSB	30	04-Aug-26	02-Sep-26	03-Sep-26	02-Oct-26	-220	0%					
S3-SDB-MD-1250	Manufacture with FAT (5 months) & Delivery(1 month) of Gas Detection System	184	10-Oct-26	11-Apr-27	08-Sep-26*	10-Mar-27	-279	0%					
S3-SDB-MD-1260	Manufacture of SCADA System	90	20-Jul-26	20-Jan-27	22-Sep-26*	20-Dec-26	-286	0%					
S3-SDB-MD-1290	Manufacture with FAT (7 months) & Delivery(1 month) of Off Gas Condenser System	37	01-Nov-25	02-Jul-26	06-Oct-25 A	06-Aug-26	-92	84.84%					
S3-SDB-MD-1300	Manufacture with FAT (5 months) & Delivery(1 month) of Sludge Conveyors	185	01-Jul-26	01-Jan-27	28-Aug-26*	28-Feb-27	-251	0%					
S3-SDB-MD-1310	Manufacture with FAT (5 months) & Delivery(1 month) of Valves and Actuator (DI)	185	20-Jul-26	20-Jan-27	28-Aug-26*	28-Feb-27	-287	0%					
S3-SDB-MD-1315	Manufacture with FAT (5 months) & Delivery(1 month) of Valves and Actuator (SS)	185	20-Jul-26	20-Jan-27	28-Aug-26*	28-Feb-27	-287	0%					
S3-SDB-MD-1330	Manufacture with FAT (4 months) & Delivery(1 month) of instrumentation	154	10-Aug-26	10-Jan-27	28-Aug-26*	28-Jan-27	-256	0%					
S3-SDB-MD-1340	Manufacture with FAT (4 months) & Delivery(1 month) of Gas train and Lubrication oil tank	154	29-Jul-26	29-Dec-26	28-Aug-26*	28-Jan-27	-269	0%					
S3-SDB-MD-1350	Manufacture with FAT (3 months) & Delivery(1 month) of Intake Fan, Exhaust Gas Silencer and Main Heat Exchanger	123	29-Aug-26	29-Dec-26	29-Aug-26*	29-Dec-26	-239	0%					
S3-SDB-MD-1360	Manufacture with FAT (5 months) & Delivery(1 month) of Water Pump, Exhaust Heat Exchanger & Dump Radiator	184	29-Jun-26	29-Dec-26	28-Aug-26*	27-Feb-27	-299	0%					
Interfacing Works													
S3-SDB-IFW-1000	Interface Works with Other Contract (including: Slab / Wall openings, Concrete Plinths, Cast-in Item, etc)	21	22-Jun-23	08-Nov-24	01-Feb-25 A	21-Jul-26	-271	95.85%					
S3-SDB-IFW-1010	Design submission with Interface Works on Plant Services Water	28	01-Jun-25	05-Apr-26	24-Aug-25 A	28-Jul-26	-16	90.94%					

Activity ID	Activity Name	Remaining Duration	BL Start (RP43)	BL Finish (RP43)	Early Start	Early Finish	Total Float	Activity % Complete	2026				
									Jun	Jul	Aug	Sep	Oct
									1	2	3	4	5
S3-SDB-IFW-1020	Design Submission with Interface Works on Biogas Pipes & Hot Water Pipes Connections	28	12-Dec-25	14-Feb-27	25-Apr-25 A	28-Jul-26	-131	93.49%					
S3-SDB-IFW-1030	Design Submission with Interface Works on Digested Sludge Pipes Connection	28	01-May-25	13-Oct-27	15-Jan-24 A	28-Jul-26	-5	96.88%					
S3-SDB-IFW-1040	Design Submission with Interface Works on Process Water Treatment	28	01-May-25	28-Sep-26	29-Jan-25 A	28-Jul-26	-16	94.57%					
S3-SDB-IFW-1060	Design Submission with Interface Works on Centrate & Filtrate Pipes	60	01-Jun-26	29-Aug-26	01-Jun-26 A	29-Aug-26	-250	33.33%					
S3-SDB-IFW-1080	Design Submission with Interface Works on Digested Sludge Holding Tank Drain Pipe	28	01-Aug-24	05-Jun-25	24-Aug-25 A	28-Jul-26	-92	90.94%					
S3-SDB-IFW-1090	Design Submission with Interface Works on Provisions in LV Switchroom at SDB	60	01-Jun-26	29-Aug-26	01-Jun-26 A	29-Aug-26	-267	33.33%					
S3-SDB-IFW-1100	Design Submission with Interface Works on PQEMS	60	01-Jun-26	29-Aug-26	01-Jun-26 A	29-Aug-26	-267	33.33%					
S3-SDB-IFW-1110	Design Submission with Interface Works on Cable Routing between SDB & ADB(LV)	24	25-May-26	16-Jul-27	09-May-25 A	24-Jul-26	-231	94.26%					
S3-SDB-IFW-1130	Design Submission with Interface Works on SCADA System / CMMS.	90	31-Jul-26	28-Oct-26	06-Aug-26	03-Nov-26	-333	0%					
S3-SDB-IFW-1140	Design Submission with Interface Works on CCTV, Access Control Security System	90	02-Jun-26	30-Aug-26	21-Aug-26	19-Nov-26	-288	0%					
S3-SDB-IFW-1150	Design Submission with Interface Works on Shared Fresh Air intake for SDB loading & unloading level	60	01-Jun-26	29-Aug-26	01-Jun-26 A	29-Aug-26	-215	33.33%					
S3-SDB-IFW-1160	Design Submission with Interface Works on Sprinkler Water, Fre Hydrant & Hose Reel Water Main.	90	31-Jul-26	28-Oct-26	15-Aug-26	12-Nov-26	-290	0%					
S3-SDB-IFW-1170	Design Submission with Interface Works on Emergency Generator Set	28	02-Jun-25	22-Nov-27	06-Feb-24 A	28-Jul-26	-298	96.9%					
S3-SDB-IFW-1180	Design Submission with Interface Works on Connection between Local Fire Alarm Indication, local & master control panel	90	31-Jul-26	28-Oct-26	15-Aug-26	12-Nov-26	-325	0%					
S3-SDB-IFW-1190	Design Submission with Interface Works on Plumbing & Drainage	28	01-May-26	10-Dec-26	17-Dec-25 A	28-Jul-26	-112	87.5%					
Statutory Submission, Inspection & Approval													
Environmental Protection Department													
S3-SDB-SS-1070	EPD Submission & Approval for Air Pollution Control	120	31-Jul-26	27-Nov-26	30-Aug-26	27-Dec-26	-338	0%					
Fire Services Department													
S3-SDB-SS-1150	Application of D.G. Licence	0	31-Jul-26		30-Aug-26		-338	0%					
S3-SDB-SS-1160	Processing of D.G. Licence Application	120	31-Jul-26	27-Nov-26	30-Aug-26	27-Dec-26	-338	0%					
Electrical and Mechanical Services Department													
S3-SDB-SS-1200	BEE0 Stage one: Submit EE1 & EE-SU to EMSD	46	01-Nov-25	30-Aug-26	17-Oct-25 A	15-Aug-26	-296	84.82%					
S3-SDB-SS-1220	Application for Construction Approval of Notifiable Gas Installation (Form 104)	30	31-Jul-26	29-Aug-26	02-Sep-26	01-Oct-26	-137	0%					

Appendix B

Project Organization Chart



AECOM

PROJECT
项目

**YUEN LONG EFFLUENT
POLISHING PLANT -
INVESTIGATION, DESIGN
AND CONSTRUCTION**

CLIENT
业主

 渠務署
Drainage Services Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容描述	CHK. 校核

STATUS
階段

SCALE
比例

A3 1 : 40000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60505476

CONTRACT NO.
合約編號

CE 3/2015 (DS)

SHEET TITLE
圖紙名稱

PROJECT ORGANISATION

SHEET NUMBER
圖紙編號

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Appendix C

Action and Limit Levels

Action and Limit Levels for Air Quality

Parameters	Action Level	Limit Level
1-hour TSP Level in $\mu\text{g}/\text{m}^3$	¹ For baseline level $\leq 384 \mu\text{g}/\text{m}^3$, Action level = (baseline level * 1.3 + Limit level)/2; For baseline level $> 384 \mu\text{g}/\text{m}^3$, Action level = Limit level	500 $\mu\text{g}/\text{m}^3$

Notes:

1. The Action Level for 1-hour TSP Level:

a) AM1 = $(63 \times 1.3 + 500) / 2 = 291 \mu\text{g}/\text{m}^3$;

b) AM2 = $(70 \times 1.3 + 500) / 2 = 296 \mu\text{g}/\text{m}^3$.

Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700 - 1900 hours on normal weekdays	When one documented complaint is received	75 dB(A) *

Notes:

1. If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

2. Correction of +3 dB(A) shall be made to the free field measurements.

Action and Limit Levels for Water Quality

Parameters	Action Levels	Limit Levels
Construction Phase Water Quality Monitoring		
DO in mg/L (Surface, Middle & Bottom) ²	<u>Surface & Middle</u> 5%-ile of baseline data for surface and middle layer. <u>Bottom</u> 5%-ile of baseline data for bottom layer.	<u>Surface & Middle</u> 4 mg/L or 1%-ile of baseline data for surface and middle layer. <u>Bottom</u> 2 mg/L or 1%-ile of baseline data for bottom layer.
SS in mg/L (depth-averaged ¹) ³	95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day	99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day
Turbidity in NTU (depth-averaged ¹) ³	95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day	99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day

Notes:

1. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths;

2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits;

3. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits

Action and Limit Levels for Ecology

Active Ardeid Night Roost Survey

As there are no specific guidelines on noise thresholds for roosting ardeids, the Action and Limit levels specified in below table were based on study conducted on exploring behavioural responses of shorebirds to impulsive noise (Wright et al. 2010).

Time Period	Action Level	Limit Level
after 17:30 during dry season after 18:00 during wet season	65.5 dB(A) ¹	72.2 dB(A) ²

Notes:

1. Behavioural response of some kind more likely to occur
2. Flight with abandonment of the site becomes the most likely outcome of the disturbance

Ecological Monitoring of Birds

Method	Parameters	Action Level ³	Limit Level ³
Transect	Abundance of all avifauna species (including but not only limited to overwintering waterbirds) in the community	Significant decline ^{1,2} in any of these parameters during the current monitoring month relative to the corresponding month during the baseline survey.	Significant decline in any of these parameters for three consecutive months.
	Species diversity of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Abundance of species with conservation importance only		
	Species diversity of species with conservation importance only		
Point Count	Abundance of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Species diversity of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Abundance of species with conservation importance only		
	Species diversity of species with conservation importance only		

Notes:

1. Significant decline in abundance will be determined using two-tailed t-test, $\alpha = 0.05$.
2. Significant decline in species diversity will be determined using the Hutcheson t-test, two tailed.
3. Response will be triggered if any of the above level is reached for each parameter

Appendix D

Calibration Certificates/ Reports of Monitoring Equipment

Air Quality Monitoring Equipment

Certification of Calibration

Information of Unit-under-test (UUT)

Date of Calibration:	15-Feb-26	Next Calibration Date:	15-Feb-27
UUT Manufacturer:	SIBATA Scientific Technology Ltd	UUT Model No.:	LD-5R
UUT Serial No.:	882106	Report Reference No.:	RPT-25-HVS-018-26
Calibration Location:	W-A6, Man Cheong Building		

Information of Reference Equipment

Reference Equipment Manufacturer:	Tisch Environmental	Tisch Environmental
Reference Equipment Model No.:	TE-5170X	TE-5025A
Reference Equipment Serial No.:	1050	4166
Last Calibration Date:	4-Feb-26	8-May-25
Next Calibration Date:	18-Feb-26	8-May-26

Calibration of 1-Hour TSP Result

Calibration Point	Results from UUT	Results from Standard Equipment
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Reference Concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	68	83
2	52	65
3	48	55
4	51	60
5	35	37
6	15	17
Average	45	53

Linear Regression of Y on X

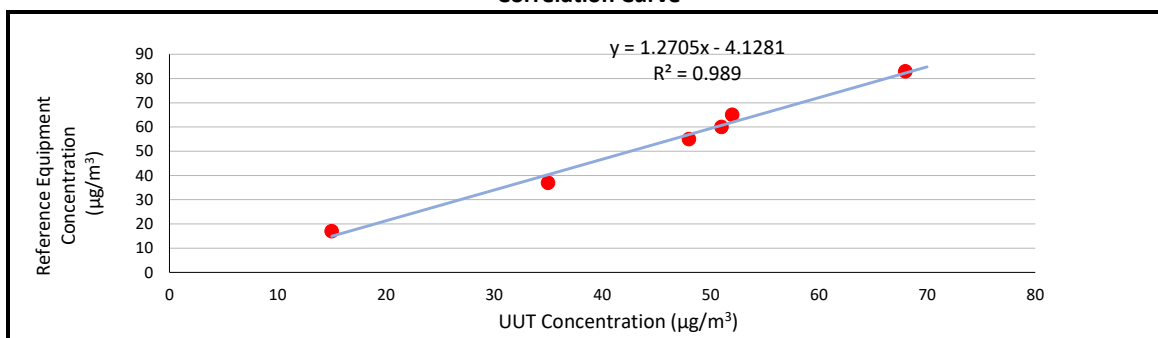
Slope, mv: 1.2705	Intercept: -4.1281	*Correlation Coefficient: 0.9945
Verification Test Result: Strong Correlation, Results were accepted.		

* If the Correlation Coefficient < 0.90, check and recalibrate.

Set Calibration Factor

Particulate Concentration by Reference Equipment ($\mu\text{g}/\text{m}^3$):	53
Particulate Concentration by UUT ($\mu\text{g}/\text{m}^3$):	45
Measuring Time, (min):	60
K Factor = High Volume Sampler / UUT, ($\mu\text{g}/\text{m}^3$):	1.18

Correlation Curve



Operated By: Andy Li
Project Technician,
Environmental

Signature: 

Date: 25-02-2026

Certification of Calibration

Information of Unit-under-test (UUT)

Date of Calibration:	15-Feb-26	Next Calibration Date:	15-Feb-27
UUT Manufacturer:	SIBATA Scientific Technology Ltd	UUT Model No.:	LD-5R
UUT Serial No.:	882109	Report Reference No.:	RPT-25-HVS-019-26
Calibration Location:	W-A6, Man Cheong Building		

Information of Reference Equipment

Reference Equipment Manufacturer:	Tisch Environmental	Tisch Environmental
Reference Equipment Model No.:	TE-5170X	TE-5025A
Reference Equipment Serial No.:	1050	4166
Last Calibration Date:	4-Feb-26	8-May-25
Next Calibration Date:	18-Feb-26	8-May-26

Calibration of 1-Hour TSP Result

Calibration Point	Results from UUT	Results from Standard Equipment
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Reference Concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	71	83
2	64	65
3	54	55
4	58	60
5	26	37
6	16	17
Average	48	53

Linear Regression of Y on X

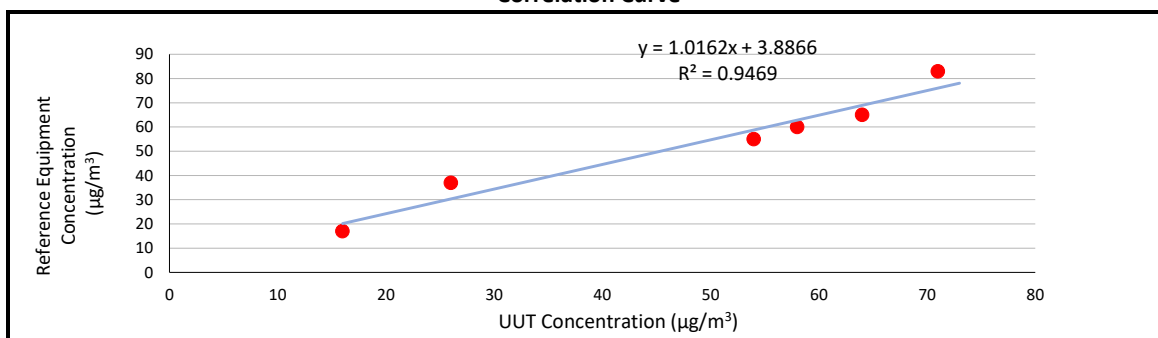
Slope, mv: 1.0162	Intercept: 3.8866	*Correlation Coefficient: 0.9731
Verification Test Result: Strong Correlation, Results were accepted.		

* If the Correlation Coefficient < 0.90, check and recalibrate.

Set Calibration Factor

Particulate Concentration by Reference Equipment ($\mu\text{g}/\text{m}^3$):	53
Particulate Concentration by UUT ($\mu\text{g}/\text{m}^3$):	48
Measuring Time, (min):	60
K Factor = High Volume Sampler / UUT, ($\mu\text{g}/\text{m}^3$):	1.10

Correlation Curve



Operated By: Andy Li
Project Technician,
Environmental

Signature: 

Date: 25-02-2026

Certification of Calibration

Information of Unit-under-test (UUT)

Date of Calibration:	15-Feb-26	Next Calibration Date:	15-Feb-27
UUT Manufacturer:	SIBATA Scientific Technology Ltd	UUT Model No.:	LD-5R
UUT Serial No.:	851819	Report Reference No.:	RPT-25-HVS-022-26
Calibration Location:	W-A6, Man Cheong Building		

Information of Reference Equipment

Reference Equipment Manufacturer:	Tisch Environmental	Tisch Environmental
Reference Equipment Model No.:	TE-5170X	TE-5025A
Reference Equipment Serial No.:	1050	4166
Last Calibration Date:	4-Feb-26	8-May-25
Next Calibration Date:	18-Feb-26	8-May-26

Calibration of 1-Hour TSP Result

Calibration Point	Results from UUT	Results from Standard Equipment
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Reference Concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	75	83
2	48	65
3	39	55
4	43	60
5	30	37
6	11	17
Average	41	53

Linear Regression of Y on X

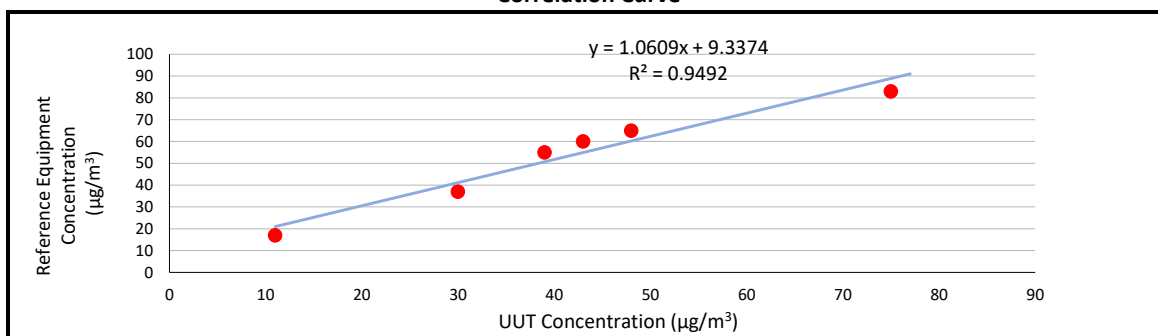
Slope, mv: 1.0609	Intercept: 9.3374	*Correlation Coefficient: 0.9743
Verification Test Result: Strong Correlation, Results were accepted.		

* If the Correlation Coefficient < 0.90, check and recalibrate.

Set Calibration Factor

Particulate Concentration by Reference Equipment ($\mu\text{g}/\text{m}^3$):	53
Particulate Concentration by UUT ($\mu\text{g}/\text{m}^3$):	41
Measuring Time, (min):	60
K Factor = High Volume Sampler / UUT, ($\mu\text{g}/\text{m}^3$):	1.29

Correlation Curve



Operated By: Andy Li
Project Technician,
Environmental

Signature: 

Date: 25-02-2026

Noise Quality Monitoring Equipment

Certificate of Calibration

for

Description: *Sound Level Meter*
Manufacturer: *Lutron*
Type No.: *SL-4033SD (Serial No.: I. 491835)*

Submitted by:

Customer: *Aurecon Hong Kong Limited*
Address: *Unit 1608, 16/F, Tower B, Manulife Financial Centre,
223-231 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong*

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

- ☒ **Within (31.5Hz – 2kHz)**
☐ **Outside**

the allowable tolerance.

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

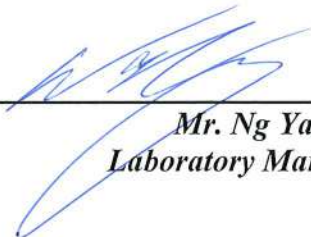
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 6 August 2025

Date of calibration: 7 August 2025

Date of NEXT calibration: 6 August 2026

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 7 August 2025

Certificate No.: APJ25-046-CC003



Page 1 of 4

1. Calibration Precaution:

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

2. Calibration Conditions:

Air Temperature: 25.8 °C
Air Pressure: 1006 hPa
Relative Humidity: 58.9 %

3. Calibration Equipment:

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

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

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

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		113.8	±0.3

Time Weighting

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

Certificate No.: APJ25-046-CC003



Page 2 of 4

Frequency Response

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	31.5	55.4	-39.4 ±2.0
				63	68.4	-26.2 ±1.5
				125	78.2	-16.1 ±1.5
				250	85.6	-8.6 ±1.4
				500	91.0	-3.2 ±1.4
				1000	94.0	Ref
				2000	94.5	+1.2 ±1.6

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBC SPL	Fast	94	31.5	92.1	-3.0 ±2.0
				63	94.5	-0.8 ±1.5
				125	95.2	-0.2 ±1.5
				250	95.2	-0.0 ±1.4
				500	94.7	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.5	-0.2 ±1.6

Certificate No.: APJ25-046-CC003



Page 3 of 4

5. Calibration Results Applied

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

Uncertainties of Applied Value:

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

The uncertainties are evaluated for a 95% confidence level.

Note:

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

Certificate No.: APJ25-046-CC003



Page 4 of 4

Certificate of Calibration

for

Description: *Sound Level Meter*
Manufacturer: *Lutron*
Type No.: *SL-4033SD (Serial No.: I.571098)*

Submitted by:

Customer: *Aurecon Hong Kong Limited*
Address: *Unit 1608, 16/F, Tower B, Manulife Financial Centre,
223-231 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong*

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

- ☒ **Within (31.5Hz – 4kHz)**
☐ **Outside**

the allowable tolerance.

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

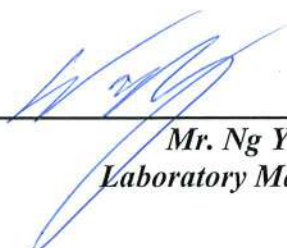
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 6 August 2025

Date of calibration: 7 August 2025

Date of NEXT calibration: 6 August 2026

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 7 August 2025

Certificate No.: APJ25-046-CC004



Page 1 of 4

1. Calibration Precaution:

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

2. Calibration Conditions:

Air Temperature: 25.8 °C
Air Pressure: 1006 hPa
Relative Humidity: 58.9 %

3. Calibration Equipment:

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

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

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

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast		94	1000	94.0	Ref
				104		104.0	±0.3
				114		113.8	±0.3

Time Weighting

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

Certificate No.: APJ25-046-CC004



Page 2 of 4

Frequency Response

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	31.5	53.5	-39.4 ±2.0
				63	67.2	-26.2 ±1.5
				125	77.7	-16.1 ±1.5
				250	85.5	-8.6 ±1.4
				500	90.9	-3.2 ±1.4
				1000	94.0	Ref
				2000	95.0	+1.2 ±1.6
				4000	93.7	+1.0 ±1.6

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBC SPL	Fast	94	31.5	92.1	-3.0 ±2.0
				63	94.5	-0.8 ±1.5
				125	95.2	-0.2 ±1.5
				250	95.2	-0.0 ±1.4
				500	94.7	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.5	-0.2 ±1.6
				4000	91.7	-0.8 ±1.6



Certificate No.: APJ25-046-CC004

Page 3 of 4

5. Calibration Results Applied

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

Uncertainties of Applied Value:

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

The uncertainties are evaluated for a 95% confidence level.

Note:

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

Certificate No.: APJ25-046-CC004



Page 4 of 4

Certificate of Calibration

for

Description: *Sound Level Meter*
Manufacturer: *Lutron*
Type No.: *SL-4033SD (Serial No.: I.518013)*

Submitted by:

Customer: *Aurecon Hong Kong Limited*
Address: *Unit 1608, 16/F, Tower B, Manulife Financial Centre,
223-231 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong*

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

- ☒ **Within (31.5 Hz to 4k Hz)**
☐ **Outside**

the allowable tolerance.

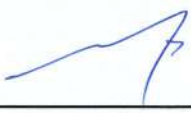
The test equipment used for calibration are traceable to National Standards via:

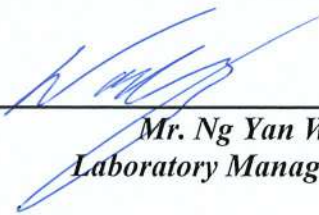
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 11 September 2025

Date of calibration: 12 September 2025

Date of NEXT calibration: 11 September 2026

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 12 September 2025

Certificate No.: APJ25-046-CC007



Page 1 of 3

1. Calibration Precaution:

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

2. Calibration Conditions:

Air Temperature: 24.7°C
 Air Pressure: 1006 hPa
 Relative Humidity: 62.6 %

3. Calibration Equipment:

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

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

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

Linearity

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

Time Weighting

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

Certificate No.: APJ25-046-CC007



Page 2 of 3

Frequency Response

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	94	31.5	54.1	-39.4±2.0
				63	67.6	-26.2±1.5
				125	77.6	-16.1±1.5
				250	85.2	-8.6±1.4
				500	90.8	-3.2±1.4
				1000	94.0	Ref
				2000	94.7	+1.2±1.6
				4000	93.5	+1.0±1.6

5. Calibration Results Applied

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

Uncertainties of Applied Value:

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

The uncertainties are evaluated for a 95% confidence level.

Note:

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

Certificate No.: APJ25-046-CC007



Page 3 of 3

Certificate of Calibration

for

Description: *Sound Level Calibrator*
Manufacturer: *RION*
Type No.: *NC-75*
Serial No.: *35124527*

Submitted by:

Customer: *Aurecon Hong Kong Limited*
Address: *Unit 1608, 16/F, Tower B, Manulife Financial Centre,*
223-231 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong

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

- ☒ **Within**
☐ **Outside**

the allowable tolerance.

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

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

Date of receipt: 7 January 2026

Date of calibration: 13 January 2026

Date of NEXT calibration: 12 January 2027

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 13 January 2026

Certificate No.: APJ25-045-CC007



Page 1 of 2

1. Calibration Precautions:

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

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature: 22.5 °C
Air Pressure: 1006 hPa
Relative Humidity: 34.6 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV250138	HOKLAS

5. Calibration Results**5.1 Sound Pressure Level**

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.2

6. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ25-045-CC007

Page 2 of 2



Certificate of Calibration

for

Description: *Sound Level Calibrator*

Manufacturer: *RION*

Type No.: *NC-75*

Serial No.: *35124529*

Submitted by:

Customer: *Aurecon Hong Kong Limited*

Address: *Unit 1608, 16/F, Tower B,
Manulife Financial Centre,
223-231 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong*

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

☒ **Within**

☐ **Outside**

the allowable tolerance.

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

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

Date of receipt: 15 October 2025

Date of calibration: 22 October 2025

Date of NEXT calibration: 21 October 2026

Calibrated by:  *Calibration Technician*

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

Date of issue: 22 October 2025

Certificate No.: APJ25-045-CC005



Page 1 of 2

1. Calibration Precautions:

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

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature: 25.5 °C
Air Pressure: 1008 hPa
Relative Humidity: 61.5 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV250138	HOKLAS

5. Calibration Results**5.1 Sound Pressure Level**

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.0

6. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:

The values given in this certification only related to the values measured at the time of the calibration.

Certificate No.: APJ25-045-CC005



Page 2 of 2

Certificate of Calibration

for

Description: *Sound Level Calibrator*
Manufacturer: *RION*
Type No.: *NC-75*
Serial No.: *34724243*

Submitted by:

Customer: *Aurecon Hong Kong Limited*
Address: *Unit 1608, 16/F, Tower B, Manulife Financial Centre,*
223-231 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong

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

- ☒ **Within**
☐ **Outside**

the allowable tolerance.

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

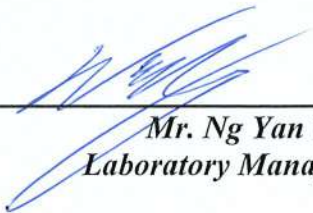
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 21 November 2025

Date of calibration: 24 November 2025

Date of NEXT calibration: 23 November 2026

Calibrated by:  **Calibration Technician**

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

Date of issue: 24 November 2025

Certificate No.: APJ25-045-CC006



Page 1 of 2

**1. Calibration Precautions:**

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

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature: 21.8 °C
Air Pressure: 1006 hPa
Relative Humidity: 49.8 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV250138	HOKLAS

5. Calibration Results**5.1 Sound Pressure Level**

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ25-045-CC006

Page 2 of 2

Water Quality Monitoring Equipment



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: JOE HO
CLIENT: AURECON HONG KONG LIMITED
ADDRESS: UNIT 1608, 16/F, TOWER B,
MANULIFE FINANCIAL CENTRE,
223-231 WAI YIP STREET,
KWUN TONG, HONG KONG

WORK ORDER: HK2617593
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 25-Apr-2026
DATE OF ISSUE: 07-May-2026

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter

Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [YSI]/ [ProDSS]

Serial No./ Equipment No.: [24G101659]/ [N/A]

Date of Calibration: 05-May-2026

Ms. Cheng Sin Ying, May
Senior Chemist - Inorganics

This report shall not be reproduced except in full without the written approval of the laboratory.

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2617593
SUB-BATCH: 0
DATE OF ISSUE: 07-May-2026
CLIENT: AURECON HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/Model No.: [YSI]/ [ProDSS]
Serial No.: [24G101659]/ [N/A]
Equipment No.:
Date of Calibration: 05-May-2026

Date of Next Calibration: 05-August-2026

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)
146.9	148.8	+1.3
6667	6629	-0.6
12890	12610	-2.2
58670	54216	-7.6
	Tolerance Limit (%)	± 10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.82	2.92	+0.10
5.54	5.40	-0.14
7.21	7.26	+0.05
	Tolerance Limit (mg/L)	± 0.20

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.85	-0.15
7.0	7.04	+0.04
10.0	10.00	+0.00
	Tolerance Limit (pH unit)	± 0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Cheng Sin Ying, May
Senior Chemist - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2617593
SUB-BATCH: 0
DATE OF ISSUE: 07-May-2026
CLIENT: AURECON HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ Model No.: [YSI]/ [ProDSS]
Serial No.: [24G101659]/ [N/A]
Equipment No.:
Date of Calibration: 05-May-2026

Date of Next Calibration: 05-August-2026

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	1.15	--
4	4.31	+7.7
40	41.97	+4.9
80	82.39	+3.0
400	390.19	-2.5
800	770.08	-3.7
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	9.22	-7.8
20	19.38	-3.1
30	29.28	-2.4
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Cheng Sin Ying, May
Senior Chemist - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2617593
SUB-BATCH: 0
DATE OF ISSUE: 07-May-2026
CLIENT: AURECON HONG KONG LIMITED

Equipment Type: Multifunctional Meter
Brand Name/ [YSI]/ [ProDSS]
Model No.:
Serial No./ [24G101659]/ [N/A]
Equipment No.:
Date of Calibration: 05-May-2026

Date of Next Calibration: 05-August-2026

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
9.0	8.9	-0.1
23.0	22.9	-0.1
42.5	42.6	+0.1
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Cheng Sin Ying, May
Senior Chemist - Inorganics

Appendix E

Environmental Monitoring Schedule

Environmental Monitoring Schedule (July 2026)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2 WQM Mid Flood (12:45) Mid Ebb (09:20)	3	4 WQM Mid Flood (12:45) Mid Ebb (09:20)
5	6 AQM, NM	7 WQM, EMB (Day) Mid Flood (18:00) Mid Ebb (12:39)	8	9 WQM Mid Flood (18:00) Mid Ebb (12:39)	10	11 WQM, AQM Mid Flood (08:30) Mid Ebb (14:03)
12	13	14 WQM Mid Flood (09:18) Mid Ebb (15:51)	15	16 WQM Mid Flood (18:00) Mid Ebb (12:39)	17 AQM, NM	18 WQM Mid Flood (12:45) Mid Ebb (09:20)
19	20	21 WQM Mid Flood (18:25) Mid Ebb (10:15)	22	23 WQM, AQM, NM Mid Flood (17:36) Mid Ebb (12:27)	24	25 WQM Mid Flood (16:46) *Cancelled Mid Ebb (10:28)
26	27 ANRM, EMB (Night)	28 WQM Mid Flood (09:04) Mid Ebb (15:31)	29 AQM, NM	30 WQM Mid Flood (17:01) Mid Ebb (09:30)	31	

Remarks:

- Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
- Air Quality Monitoring (**AQM**): 3 x 1-hour TSP Monitoring per 6 days.
- Noise Monitoring (**NM**): Leq (30 min) during between 0700 - 1900.
- Water Quality Monitoring (**WQM**): Once per day for 3 days per week.
- Ecological Monitoring of Birds (**EMB**): Once per month.
- Ardeid Night Roost Monitoring (**ANRM**): Once per month.
- Air Quality Location: AM1 and AM2.
- Noise Monitoring Location: CM1, CM2 and CM3.
- Water Quality Monitoring Location: M1, M2, M3.
- *: No.3 Strong Wind Signal was in force on 25 July 2026. Due to safety concerns, the water quality monitoring for mid-flood on 25 July 2026 has been cancelled.

Environmental Monitoring Schedule (August 2026)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1 WQM Mid Flood (16:00) Mid Ebb (11:30)
2	3	4 WQM, AQM, NM Mid Flood (08:30) Mid Ebb (13:30)	5 EMB (Day)	6 WQM Mid Flood (09:30) Mid Ebb (14:30)	7	8 WQM Mid Flood (09:00) Mid Ebb (15:30)
9	10 AQM, NM, ANRM	11 WQM Mid Flood (10:40) Mid Ebb (17:00)	12	13 WQM Mid Flood (12:30) Mid Ebb (18:03)	14	15 WQM, AQM Mid Flood (16:00) Mid Ebb (12:30)
16	17	18 WQM Mid Flood (10:40) Mid Ebb (17:00)	19	20 WQM Mid Flood (08:30) Mid Ebb (14:03)	21 AQM, NM	22 WQM Mid Flood (09:00) Mid Ebb (15:00)
23	24	25 WQM Mid Flood (09:50) Mid Ebb (16:03)	26	27 WQM, AQM, NM Mid Flood (10:40) Mid Ebb (17:00)	28	29 WQM Mid Flood (10:40) Mid Ebb (17:00)
30	31					

Remarks:

10. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
 11. Air Quality Monitoring (**AQM**): 3 x 1-hour TSP Monitoring per 6 days.
 12. Noise Monitoring (**NM**): Leq (30 min) during between 0700 - 1900.
 13. Water Quality Monitoring (**WQM**): Once per day for 3 days per week.
 14. Ecological Monitoring of Birds (**EMB**): Once per month.

15. Ardeid Night Roost Monitoring (**ANRM**): Once per month.
 16. Air Quality Location: AM1 and AM2.
 17. Noise Monitoring Location: CM1, CM2 and CM3.
 18. Water Quality Monitoring Location: M1, M2, M3.

Environmental Monitoring Schedule (September 2026)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1 WQM, ANRM Mid Flood (08:30) Mid Ebb (13:30)	2 AQM, NM	3 WQM, ANRM Mid Flood (08:30) Mid Ebb (13:30)	4	5 WQM Mid Flood (16:00) Mid Ebb (11:30)
6	7	8 WQM, AQM, NM Mid Flood (08:30) Mid Ebb (13:30)	9	10 WQM, EMB (Day) Mid Flood (09:30) Mid Ebb (14:30)	11	12 WQM Mid Flood (09:00) Mid Ebb (15:30)
13	14 AQM, NM	15 WQM Mid Flood (10:40) Mid Ebb (17:00)	16	17 WQM Mid Flood (12:30) Mid Ebb (18:03)	18	19 WQM, AQM Mid Flood (16:00) Mid Ebb (12:30)
20	21	22 WQM Mid Flood (10:40) Mid Ebb (17:00)	23	24 WQM Mid Flood (08:30) Mid Ebb (14:03)	25 AQM, NM	26 WQM Mid Flood (09:00) Mid Ebb (15:00)
27	28	29 WQM Mid Flood (09:50) Mid Ebb (16:03)	30 AQM, NM			

Remarks:

- Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
- Air Quality Monitoring (**AQM**): 3 x 1-hour TSP Monitoring per 6 days.
- Noise Monitoring (**NM**): Leq (30 min) during between 0700 - 1900.
- Water Quality Monitoring (**WQM**): Once per day for 3 days per week.
- Ecological Monitoring of Birds (**EMB**): Once per month.
- Ardeid Night Roost Monitoring (**ANRM**): Once per month.
- Air Quality Location: AM1 and AM2.
- Noise Monitoring Location: CM1, CM2 and CM3.
- Water Quality Monitoring Location: M1, M2, M3.

Environmental Monitoring Schedule (October 2026)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1 WQM Mid Flood (12:45) Mid Ebb (09:20)	2 EMB (Day)	3 WQM Mid Flood (12:45) Mid Ebb (09:20)
4	5	6 WQM, AQM, NM Mid Flood (18:00) Mid Ebb (12:39)	7	8 WQM Mid Flood (18:00) Mid Ebb (12:39)	9	10 WQM, AQM Mid Flood (08:30) Mid Ebb (14:03)
11	12 AQM, NM	13 WQM, EMB (Night), ANRM Mid Flood (09:18) Mid Ebb (15:51)	14	15 WQM Mid Flood (18:00) Mid Ebb (12:39)	16	17 WQM, AQM Mid Flood (12:45) Mid Ebb (09:20)
18	19	20 WQM Mid Flood (18:25) Mid Ebb (10:15)	21	22 WQM Mid Flood (17:36) Mid Ebb (12:27)	23 AQM, NM	24 WQM Mid Flood (08:59) Mid Ebb (13:57)
25	26	27 WQM Mid Flood (09:04) Mid Ebb (15:31)	28	29 WQM, AQM, NM Mid Flood (17:36) Mid Ebb (12:27)	31	31 WQM Mid Flood (17:36) Mid Ebb (12:27)

Remarks:

- Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
- Air Quality Monitoring (**AQM**): 3 x 1-hour TSP Monitoring per 6 days.
- Noise Monitoring (**NM**): Leq (30 min) during between 0700 - 1900.
- Water Quality Monitoring (**WQM**): Once per day for 3 days per week.
- Ecological Monitoring of Birds (**EMB**): Once per month.
- Ardeid Night Roost Monitoring (**ANRM**): Once per month.
- Air Quality Location: AM1 and AM2.
- Noise Monitoring Location: CM1, CM2 and CM3.
- Water Quality Monitoring Location: M1, M2, M3.

Appendix F

Environmental Monitoring Results

Air Quality Monitoring Results

1-hour TSP Monitoring Result for
Contract No. SPW 01/2025
Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

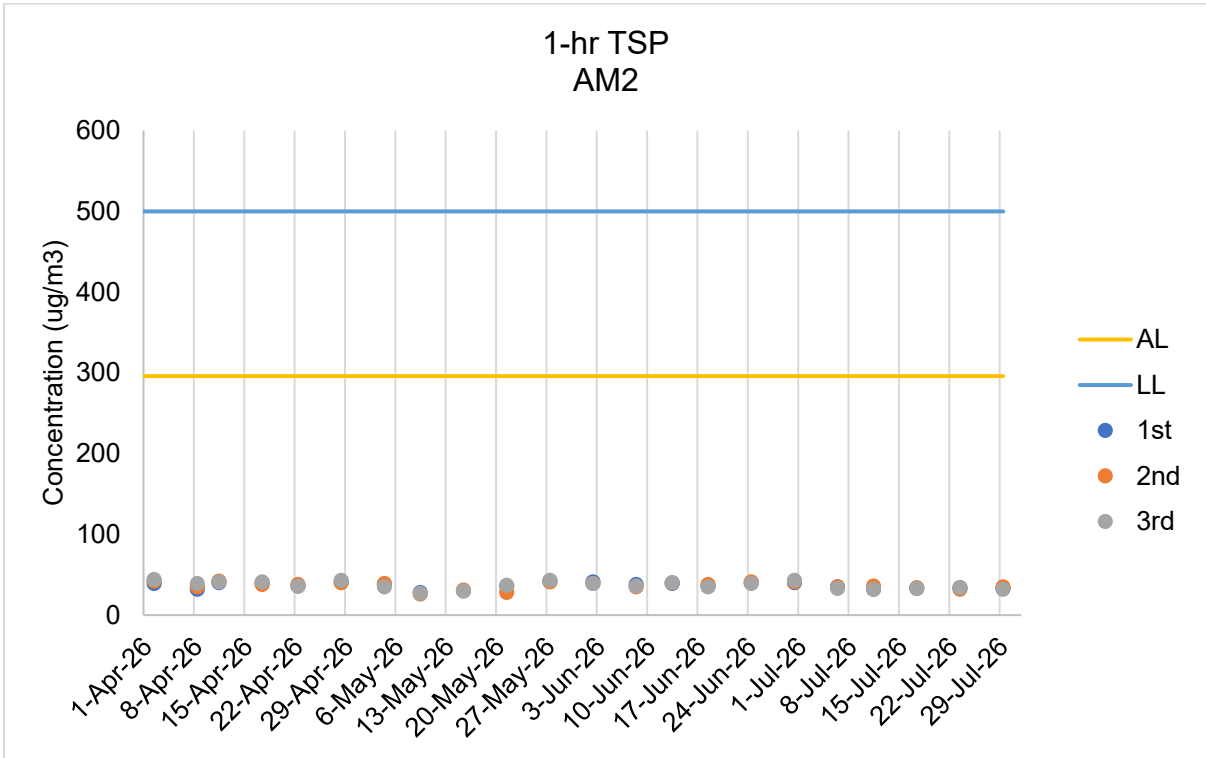
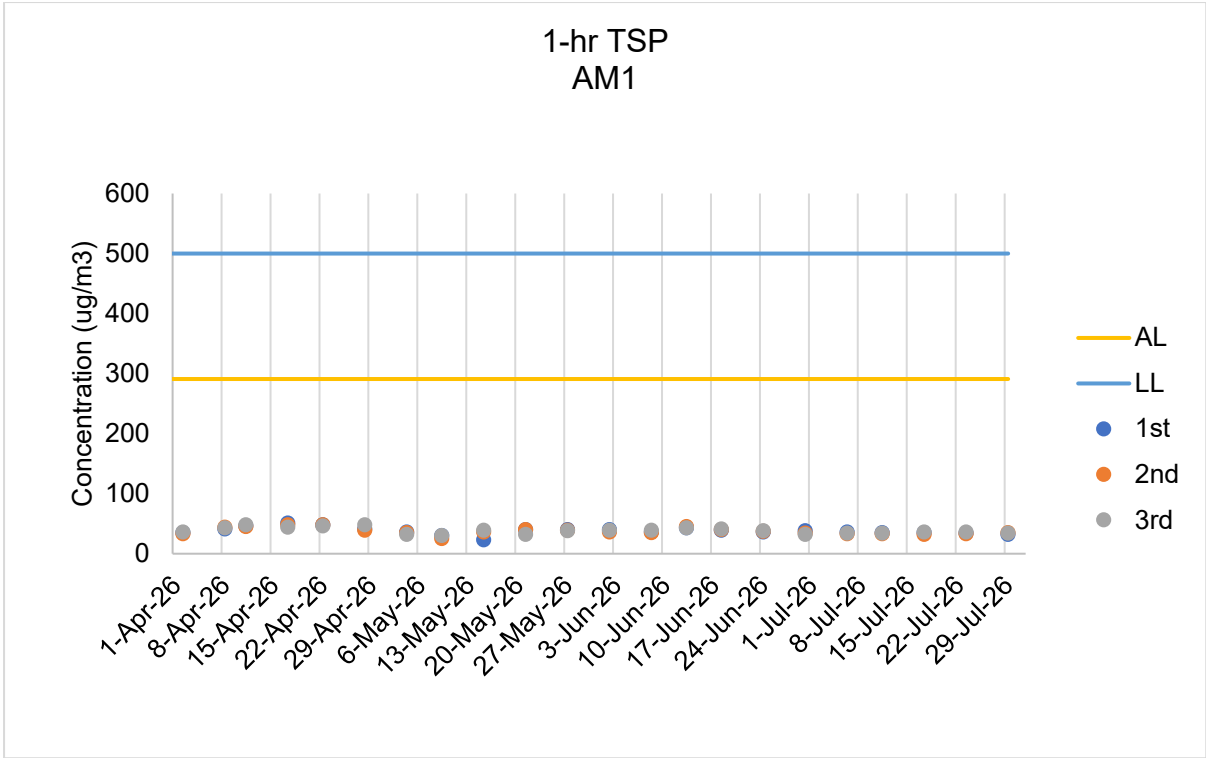
AM1 - Topfine Machinery (China) Co. Ltd.

			1-hour TSP (µg/m³)			Action Level (ug/m³)	Limit Level (ug/m³)
Date	Weather Condition	Start Time	1st Measurement	2nd Measurement	3rd Measurement		
6/7/2026	Cloudy	9:00	36	33	34	291	500
11/7/2026	Sunny	8:43	35	33	34		
17/7/2026	Cloudy	8:44	35	32	36		
23/7/2026	Sunny	8:38	34	33	36		
29/7/2026	Cloudy	8:44	32	35	34		
Min			32				
Max			36				
Average			34				

AM2 - Squatter house at the west of Yuen Long STW

			1-hour TSP (µg/m³)			Action Level (ug/m³)	Limit Level (ug/m³)
Date	Weather Condition	Start Time	1st Measurement	2nd Measurement	3rd Measurement		
6/7/2026	Cloudy	13:02	35	35	33	296	500
11/7/2026	Sunny	14:03	32	36	32		
17/7/2026	Cloudy	14:01	33	34	33		
23/7/2026	Sunny	13:54	34	32	34		
29/7/2026	Cloudy	14:00	33	35	32		
Min			32				
Max			36				
Average			34				

Note:
Underline: Exceedance of Action Level
Underline and Bold: Exceedance of Limit Level



Air Quality Monitoring Results

Noise Monitoring Results

Noise Impact Monitoring Result for
Contract No. SPW 01/2025
Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

CM1 - Squatter house to the north of YLSTW

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6/7/2026	10:22	60.3	65.4	58.6	0.8	Cloudy	75
17/7/2026	10:03	59.6	64.6	56.7	2.2	Cloudy	75
23/7/2026	10:58	60.6	64.7	57.9	1.7	Sunny	75
29/7/2026	10:06	61.9	66.5	58.4	0.0	Cloudy	75
	Max	61.9					
	Min	59.6					

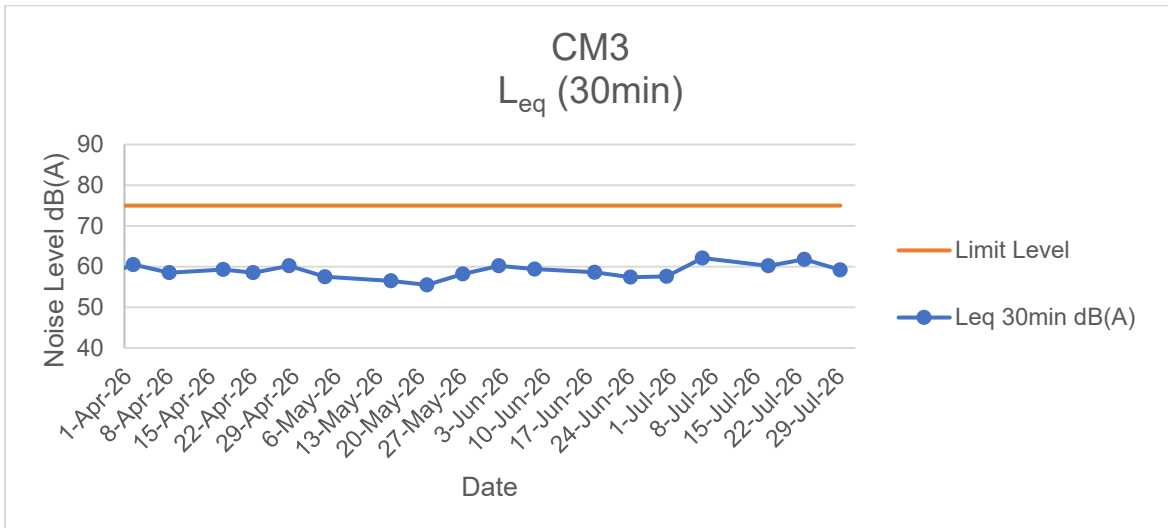
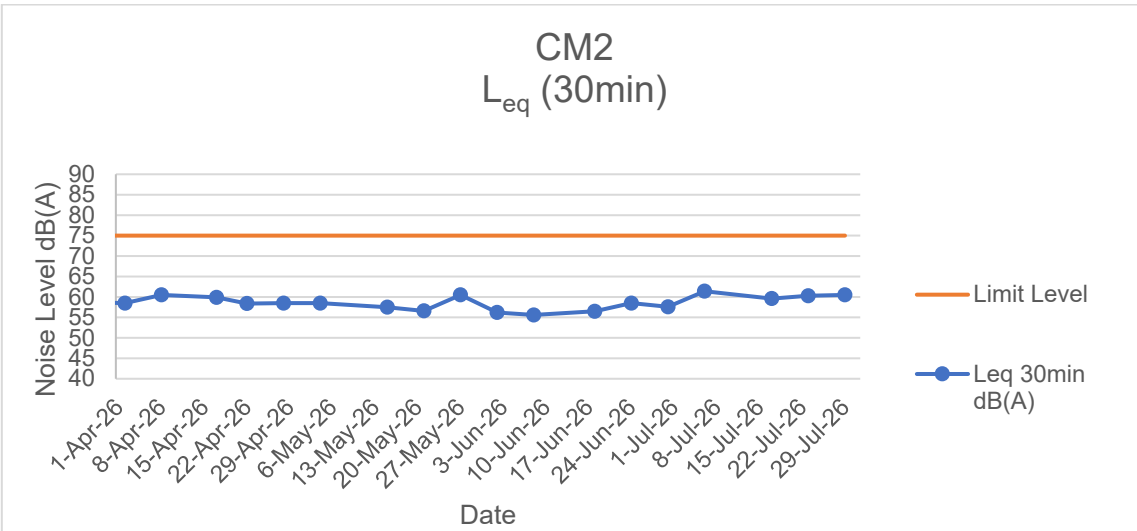
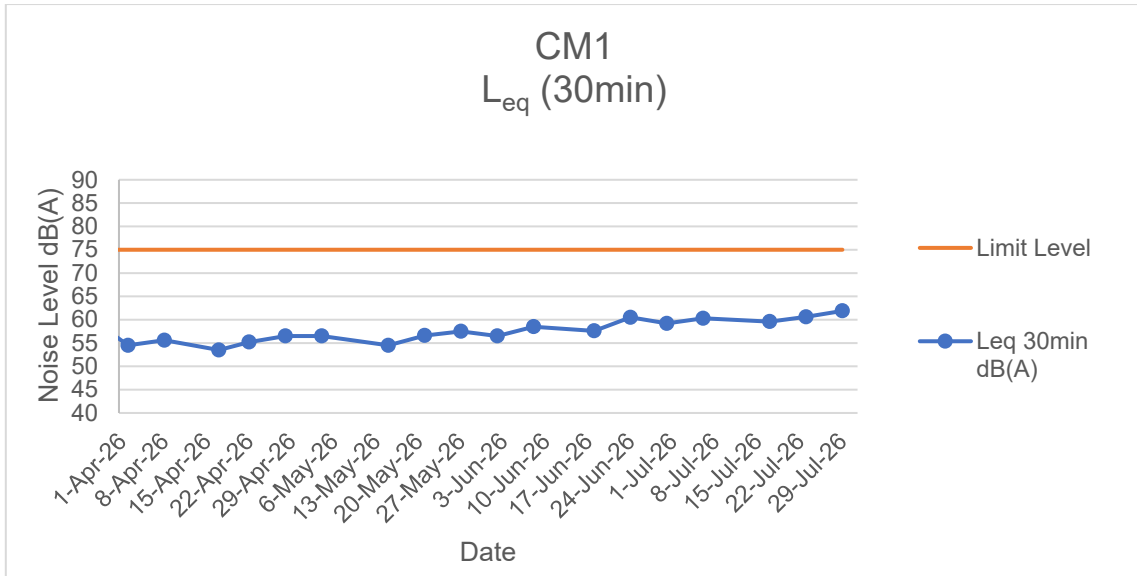
CM2 - Squatter house to the west of YLSTW

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6/7/2026	9:08	61.4	62.5	59.6	2.7	Cloudy	75
17/7/2026	8:49	59.6	61.3	58.9	0.0	Cloudy	75
23/7/2026	8:46	60.3	62.1	59.1	0.3	Sunny	75
29/7/2026	8:52	60.5	61.6	58.9	0.0	Cloudy	75
	Max	61.4					
	Min	59.6					

CM3 - Squatter house to the east of YLSTW

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6/7/2026	11:23	62.1	63.5	59.3	0.0	Cloudy	75
17/7/2026	11:07	60.2	59.8	56.8	2.8	Cloudy	75
23/7/2026	11:31	61.8	61.2	59.3	1.7	Sunny	75
29/7/2026	11:12	59.2	59.5	57.6	0.0	Cloudy	75
	Max	62.1					
	Min	59.2					

Note:
CM1, CM2 and CM3: Free-field measurement (+3dB(A) correction has been applied).
No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.



Noise Monitoring Results

Water Quality Monitoring Results

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	2/7/2026	Mid-Flood	Cloudy	Low	9:31	2.4	M	1.20	1	0.078	162.431	7.11	7.11	3.64	3.60	26.6	26.60	42.6	42.40	3.11	3.10	26.51	26.335	63	60
M1	2/7/2026	Mid-Flood	Cloudy	Low	9:31	2.4	M	1.20	2			7.1		3.55		26.6		42.2		3.08		26.16		57	
M2	2/7/2026	Mid-Flood	Cloudy	Low	9:56	2.2	M	1.10	1	0.073	186.854	7.13	7.13	3.58	3.62	26.6	26.65	44.0	44.05	3.21	3.22	25.47	25.45	54	52
M2	2/7/2026	Mid-Flood	Cloudy	Low	9:56	2.2	M	1.10	2			7.12		3.66		26.7		44.1		3.22		25.43		50	
M3	2/7/2026	Mid-Flood	Cloudy	Low	10:21	1.9	M	0.95	1	0.092	190.633	7.14	7.14	3.67	3.64	26.6	26.60	56.0	55.20	4.09	4.03	32.97	32.955	52	54
M3	2/7/2026	Mid-Flood	Cloudy	Low	10:21	1.9	M	0.95	2			7.13		3.61		26.6		54.4		3.97		32.94		56	
M1	2/7/2026	Mid-Ebb	Cloudy	Low	15:19	2.4	M	1.20	1	0.058	319.198	7.12	7.13	3.44	3.42	26.5	26.50	43.7	43.70	3.19	3.19	25.58	25.46	56	54
M1	2/7/2026	Mid-Ebb	Cloudy	Low	15:19	2.4	M	1.20	2			7.13		3.4		26.5		43.7		3.19		25.34		52	
M2	2/7/2026	Mid-Ebb	Cloudy	Low	14:54	2.1	M	1.05	1	0.075	337.005	7.13	7.13	3.49	3.52	26.5	26.50	44.9	45.65	3.28	3.34	25.99	26.035	62	60
M2	2/7/2026	Mid-Ebb	Cloudy	Low	14:54	2.1	M	1.05	2			7.13		3.54		26.5		46.4		3.39		26.08		57	
M3	2/7/2026	Mid-Ebb	Cloudy	Low	15:44	1.8	M	0.90	1	0.08	305.913	7.16	7.17	3.88	3.92	26.6	26.65	57.7	57.55	4.21	4.20	30.98	30.86	58	63
M3	2/7/2026	Mid-Ebb	Cloudy	Low	15:44	1.8	M	0.90	2			7.17		3.95		26.7		57.4		4.19		30.74		67	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station` s turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station` s SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	73.2	79.3

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	4/7/2026	Mid-Flood	Cloudy	Low	8:54	2.6	M	1.30	1	0.083	181.764	7.21	7.21	2.88	2.86	26.1	26.15	39.5	40.10	2.88	2.93	26.85	26.805	65	62
M1	4/7/2026	Mid-Flood	Cloudy	Low	8:54	2.6	M	1.30	2			7.2		2.83		26.2		40.7		2.97		26.76		59	
M2	4/7/2026	Mid-Flood	Cloudy	Low	9:17	2.3	M	1.15	1	0.093	162.533	7.23	7.22	2.84	2.88	26.1	26.10	38.8	38.80	2.83	2.83	27.74	27.565	56	55
M2	4/7/2026	Mid-Flood	Cloudy	Low	9:17	2.3	M	1.15	2			7.21		2.92		26.1		38.8		2.83		27.39		53	
M3	4/7/2026	Mid-Flood	Cloudy	Low	9:40	2.1	M	1.05	1	0.086	177.106	7.25	7.26	3.18	3.15	26.0	26.00	54.3	54.55	3.96	3.98	33.99	34.12	72	64
M3	4/7/2026	Mid-Flood	Cloudy	Low	9:40	2.1	M	1.05	2			7.27		3.11		26		54.8		4		34.25		56	
M1	4/7/2026	Mid-Ebb	Cloudy	Low	16:24	2.5	M	1.25	1	0.077	336.437	7.19	7.18	2.65	2.65	26.3	26.30	40.7	41.45	2.97	3.03	25.99	25.815	58	60
M1	4/7/2026	Mid-Ebb	Cloudy	Low	16:24	2.5	M	1.25	2			7.17		2.64		26.3		42.2		3.08		25.64		62	
M2	4/7/2026	Mid-Ebb	Cloudy	Low	16:01	2.2	M	1.10	1	0.074	308.323	7.23	7.23	2.68	2.73	26.3	26.30	40.0	39.40	2.92	2.88	26.08	25.945	56	48
M2	4/7/2026	Mid-Ebb	Cloudy	Low	16:01	2.2	M	1.10	2			7.23		2.77		26.3		38.8		2.83		25.81		40	
M3	4/7/2026	Mid-Ebb	Cloudy	Low	16:49	1.9	M	0.95	1	0.074	301.969	7.25	7.26	3.12	3.09	26.2	26.25	55.5	55.85	4.05	4.08	31.18	31.305	54	48
M3	4/7/2026	Mid-Ebb	Cloudy	Low	16:49	1.9	M	0.95	2			7.27		3.06		26.3		56.2		4.1		31.43		41	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station’ s turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station’ s SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	7/7/2026	Mid-Flood	Cloudy	Low	10:41	2.4	M	1.20	1	0.084	186.633	7.09	7.08	3.49	3.49	27.1	27.15	43.9	44.60	3.16	3.21	22.15	22.27	24	23
M1	7/7/2026	Mid-Flood	Cloudy	Low	10:41	2.4	M	1.20	2			7.07		3.49		27.2		45.3		3.26		22.39		22	
M2	7/7/2026	Mid-Flood	Cloudy	Low	11:01	2.1	M	1.05	1	0.078	164.596	7.08	7.09	3.53	3.52	27.1	27.15	44.6	43.80	3.21	3.15	21.45	21.45	16	18
M2	7/7/2026	Mid-Flood	Cloudy	Low	11:01	2.1	M	1.05	2			7.09		3.51		27.2		43.0		3.09		21.45		20	
M3	7/7/2026	Mid-Flood	Cloudy	Low	11:23	2	M	1.00	1	0.084	181.514	7.15	7.15	3.94	3.96	27.1	27.10	55.2	55.00	3.97	3.96	29.64	29.785	16	20
M3	7/7/2026	Mid-Flood	Cloudy	Low	11:23	2	M	1.00	2			7.14		3.97		27.1		54.8		3.94		29.93		23	
M1	7/7/2026	Mid-Ebb	Cloudy	Low	17:34	2.4	M	1.20	1	0.058	300.958	7.11	7.10	3.61	3.58	27.2	27.25	42.7	43.10	3.07	3.10	21.85	21.885	23	20
M1	7/7/2026	Mid-Ebb	Cloudy	Low	17:34	2.4	M	1.20	2			7.09		3.54		27.3		43.5		3.13		21.92		17	
M2	7/7/2026	Mid-Ebb	Cloudy	Low	17:09	2.2	M	1.10	1	0.074	321.905	7.12	7.12	3.54	3.51	27.2	27.20	43.9	43.35	3.16	3.12	21.36	21.44	15	16
M2	7/7/2026	Mid-Ebb	Cloudy	Low	17:09	2.2	M	1.10	2			7.12		3.48		27.2		42.8		3.08		21.52		17	
M3	7/7/2026	Mid-Ebb	Cloudy	Low	17:59	1.9	M	0.95	1	0.064	340.353	7.16	7.16	4.03	4.07	27.2	27.20	56.3	56.10	4.05	4.04	31.98	31.825	24	18
M3	7/7/2026	Mid-Ebb	Cloudy	Low	17:59	1.9	M	0.95	2			7.15		4.1		27.2		55.9		4.02		31.67		11	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station’ s turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station’ s SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	9/7/2026	Mid-Flood	Cloudy	Low	14:13	2.6	M	1.30	1	0.093	175.903	7.12	7.12	2.99	3.01	26.8	26.80	37.1	37.75	2.71	2.76	18.66	18.76	25	21
M1	9/7/2026	Mid-Flood	Cloudy	Low	14:13	2.6	M	1.30	2			7.12		3.03		26.8		38.4		2.8		18.86		16	
M2	9/7/2026	Mid-Flood	Cloudy	Low	14:38	2.3	M	1.15	1	0.074	167.306	7.11	7.11	2.91	2.96	26.8	26.80	37.3	37.55	2.72	2.74	20.15	20.14	22	21
M2	9/7/2026	Mid-Flood	Cloudy	Low	14:38	2.3	M	1.15	2			7.11		3		26.8		37.8		2.76		20.13		20	
M3	9/7/2026	Mid-Flood	Cloudy	Low	15:01	2.1	M	1.05	1	0.073	170.749	7.15	7.16	3.39	3.38	26.4	26.40	50.8	51.15	3.71	3.74	28.25	28.385	12	19
M3	9/7/2026	Mid-Flood	Cloudy	Low	15:01	2.1	M	1.05	2			7.17		3.36		26.4		51.5		3.76		28.52		25	
M1	9/7/2026	Mid-Ebb	Cloudy	Low	8:25	2.5	M	1.25	1	0.075	322.551	7.11	7.12	2.79	2.80	26.5	26.50	38.8	38.10	2.83	2.78	16.53	16.38	24	24
M1	9/7/2026	Mid-Ebb	Cloudy	Low	8:25	2.5	M	1.25	2			7.13		2.8		26.5		37.4		2.73		16.23		23	
M2	9/7/2026	Mid-Ebb	Cloudy	Low	8:00	2.2	M	1.10	1	0.068	303.374	7.11	7.12	2.82	2.81	26.5	26.50	39.7	38.95	2.9	2.85	20.11	20.015	23	24
M2	9/7/2026	Mid-Ebb	Cloudy	Low	8:00	2.2	M	1.10	2			7.13		2.8		26.5		38.2		2.79		19.92		25	
M3	9/7/2026	Mid-Ebb	Cloudy	Low	8:50	1.9	M	0.95	1	0.069	315.565	7.14	7.15	3.60	3.59	26.3	26.30	52.7	53.40	3.85	3.90	29.82	29.62	28	25
M3	9/7/2026	Mid-Ebb	Cloudy	Low	8:50	1.9	M	0.95	2			7.16		3.58		26.3		54.1		3.95		29.42		21	

Remark

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6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	11/7/2026	Mid-Flood	Sunny	Low	17:43	2.4	M	1.20	1	0.095	166.499	7.15	7.15	3.63	3.65	27.3	27.30	39.5	40.10	2.82	2.87	21.75	21.635	24	25
M1	11/7/2026	Mid-Flood	Sunny	Low	17:43	2.4	M	1.20	2			7.15		3.66		27.3		40.7		2.91		21.52		26	
M2	11/7/2026	Mid-Flood	Sunny	Low	18:06	2.2	M	1.10	1	0.073	177.985	7.14	7.14	3.71	3.67	27.3	27.30	38.6	38.75	2.76	2.77	21.81	21.785	25	25
M2	11/7/2026	Mid-Flood	Sunny	Low	18:06	2.2	M	1.10	2			7.13		3.62		27.3		38.9		2.78		21.76		25	
M3	11/7/2026	Mid-Flood	Sunny	Low	18:30	1.9	M	0.95	1	0.088	161.991	7.19	7.19	4.25	4.26	27.3	27.30	52.8	53.40	3.77	3.82	29.61	29.575	26	27
M3	11/7/2026	Mid-Flood	Sunny	Low	18:30	1.9	M	0.95	2			7.19		4.26		27.3		54.0		3.86		29.54		27	
M1	11/7/2026	Mid-Ebb	Sunny	Low	10:31	2.4	M	1.20	1	0.075	314.209	7.14	7.14	3.71	3.69	27.5	27.55	38.8	38.30	2.77	2.74	22.25	22.24	26	27
M1	11/7/2026	Mid-Ebb	Sunny	Low	10:31	2.4	M	1.20	2			7.13		3.66		27.6		37.8		2.7		22.23		27	
M2	11/7/2026	Mid-Ebb	Sunny	Low	10:09	2.1	M	1.05	1	0.08	324.134	7.15	7.16	3.81	3.84	27.5	27.50	38.8	38.10	2.77	2.72	21.39	21.275	23	24
M2	11/7/2026	Mid-Ebb	Sunny	Low	10:09	2.1	M	1.05	2			7.17		3.86		27.5		37.4		2.67		21.16		24	
M3	11/7/2026	Mid-Ebb	Sunny	Low	10:56	1.8	M	0.90	1	0.081	330.778	7.2	7.21	4.46	4.47	27.5	27.55	51.9	52.05	3.71	3.72	31.30	31.245	23	23
M3	11/7/2026	Mid-Ebb	Sunny	Low	10:56	1.8	M	0.90	2			7.22		4.48		27.6		52.2		3.73		31.19		22	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	14/7/2026	Mid-Flood	Cloudy	Low	17:39	2.4	M	1.20	1	0.075	164.402	7.19	7.19	3.97	3.96	26.3	26.30	43.3	43.45	3.16	3.17	22.65	22.65	33	26
M1	14/7/2026	Mid-Flood	Cloudy	Low	17:39	2.4	M	1.20	2			7.19		3.95		26.3		43.6		3.18		22.65		19	
M2	14/7/2026	Mid-Flood	Cloudy	Low	18:04	2.1	M	1.05	1	0.077	183.374	7.21	7.21	4.03	4.02	26.3	26.35	45.1	44.15	3.29	3.22	23.48	23.465	19	22
M2	14/7/2026	Mid-Flood	Cloudy	Low	18:04	2.1	M	1.05	2			7.2		4.01		26.4		43.2		3.15		23.45		25	
M3	14/7/2026	Mid-Flood	Cloudy	Low	18:20	2	M	1.00	1	0.088	163.982	7.25	7.24	4.59	4.60	26.3	26.35	55.5	54.60	4.05	3.99	31.24	31.16	15	19
M3	14/7/2026	Mid-Flood	Cloudy	Low	18:20	2	M	1.00	2			7.23		4.61		26.4		53.7		3.92		31.08		22	
M1	14/7/2026	Mid-Ebb	Cloudy	Low	12:41	2.3	M	1.15	1	0.079	307.474	7.18	7.18	3.83	3.84	26.9	26.95	44.0	43.15	3.21	3.15	19.99	20.125	32	33
M1	14/7/2026	Mid-Ebb	Cloudy	Low	12:41	2.3	M	1.15	2			7.18		3.85		27.0		42.3		3.09		20.26		33	
M2	14/7/2026	Mid-Ebb	Cloudy	Low	12:16	2.1	M	1.05	1	0.064	309.703	7.2	7.21	3.80	3.81	26.9	26.90	45.6	44.70	3.33	3.27	20.15	20.16	29	32
M2	14/7/2026	Mid-Ebb	Cloudy	Low	12:16	2.1	M	1.05	2			7.22		3.81		26.9		43.8		3.2		20.17		34	
M3	14/7/2026	Mid-Ebb	Cloudy	Low	13:01	1.9	M	0.95	1	0.06	343.247	7.3	7.31	4.49	4.45	26.9	26.90	57.4	58.00	4.19	4.24	32.33	32.14	36	34
M3	14/7/2026	Mid-Ebb	Cloudy	Low	13:01	1.9	M	0.95	2			7.32		4.41		26.9		58.6		4.28		31.95		32	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	16/7/2026	Mid-Flood	Cloudy	Low	9:36	2.5	M	1.25	1	0.074	169.661	7.13	7.12	3.03	2.99	26.8	26.85	42.6	42.60	3.11	3.11	24.99	24.8	25	26
M1	16/7/2026	Mid-Flood	Cloudy	Low	9:36	2.5	M	1.25	2			7.11		2.95		26.9		42.6		3.11		24.61		26	
M2	16/7/2026	Mid-Flood	Cloudy	Low	10:03	2.3	M	1.15	1	0.094	189.617	7.12	7.12	2.88	2.86	26.8	26.85	43.4	43.90	3.17	3.21	25.29	25.305	28	28
M2	16/7/2026	Mid-Flood	Cloudy	Low	10:03	2.3	M	1.15	2			7.12		2.83		26.9		44.4		3.24		25.32		28	
M3	16/7/2026	Mid-Flood	Cloudy	Low	10:22	2	M	1.00	1	0.075	166.849	7.16	7.16	3.37	3.37	26.9	26.90	56.6	56.45	4.13	4.12	37.12	37.255	28	29
M3	16/7/2026	Mid-Flood	Cloudy	Low	10:22	2	M	1.00	2			7.16		3.37		26.9		56.3		4.11		37.39		29	
M1	16/7/2026	Mid-Ebb	Cloudy	Low	15:11	2.4	M	1.20	1	0.081	329.597	7.11	7.12	2.76	2.72	26.5	26.55	42.2	42.00	3.08	3.07	23.52	23.425	28	29
M1	16/7/2026	Mid-Ebb	Cloudy	Low	15:11	2.4	M	1.20	2			7.12		2.67		26.6		41.8		3.05		23.33		29	
M2	16/7/2026	Mid-Ebb	Cloudy	Low	14:48	2.2	M	1.10	1	0.072	329.731	7.12	7.12	2.70	2.66	26.5	26.50	41.8	41.60	3.05	3.04	24.99	25.085	29	29
M2	16/7/2026	Mid-Ebb	Cloudy	Low	14:48	2.2	M	1.10	2			7.12		2.61		26.5		41.4		3.02		25.18		29	
M3	16/7/2026	Mid-Ebb	Cloudy	Low	15:22	1.8	M	0.90	1	0.061	316.315	7.17	7.17	3.56	3.60	26.6	26.65	55.6	56.30	4.06	4.11	38.11	38.215	29	29
M3	16/7/2026	Mid-Ebb	Cloudy	Low	15:22	1.8	M	0.90	2			7.16		3.64		26.7		57.0		4.16		38.32		28	

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	18/7/2026	Mid-Flood	Cloudy	Low	9:14	2.4	M	1.20	1	0.082	183.62	7.08	7.08	3.35	3.31	26.1	26.10	37.1	36.55	2.71	2.67	22.05	22.215	31	31
M1	18/7/2026	Mid-Flood	Cloudy	Low	9:14	2.4	M	1.20	2			7.07		3.27		26.1		36.0		2.63		22.38		30	
M2	18/7/2026	Mid-Flood	Cloudy	Low	9:39	2.2	M	1.10	1	0.094	173.43	7.09	7.09	3.48	3.47	26.1	26.10	39.6	39.60	2.89	2.89	21.98	22	26	28
M2	18/7/2026	Mid-Flood	Cloudy	Low	9:39	2.2	M	1.10	2			7.09		3.45		26.1		39.6		2.89		22.02		30	
M3	18/7/2026	Mid-Flood	Cloudy	Low	10:04	1.9	M	0.95	1	0.076	189.305	7.14	7.15	3.96	3.94	26.1	26.15	50.4	50.35	3.68	3.68	34.21	34.11	23	21
M3	18/7/2026	Mid-Flood	Cloudy	Low	10:04	1.9	M	0.95	2			7.15		3.92		26.2		50.3		3.67		34.01		19	
M1	18/7/2026	Mid-Ebb	Cloudy	Low	16:30	2.4	M	1.20	1	0.07	316.262	7.07	7.08	3.29	3.29	26.6	26.60	38.2	38.20	2.79	2.79	21.10	20.945	31	31
M1	18/7/2026	Mid-Ebb	Cloudy	Low	16:30	2.4	M	1.20	2			7.09		3.28		26.6		38.2		2.79		20.79		30	
M2	18/7/2026	Mid-Ebb	Cloudy	Low	16:06	2.1	M	1.05	1	0.079	338.244	7.08	7.08	3.35	3.32	26.6	26.65	39.7	39.80	2.9	2.91	20.89	20.755	29	29
M2	18/7/2026	Mid-Ebb	Cloudy	Low	16:06	2.1	M	1.05	2			7.08		3.29		26.7		39.9		2.91		20.62		28	
M3	18/7/2026	Mid-Ebb	Cloudy	Low	16:55	1.8	M	0.90	1	0.063	343.759	7.13	7.13	4.08	4.10	26.6	26.65	51.4	50.55	3.75	3.69	30.30	30.325	29	29
M3	18/7/2026	Mid-Ebb	Cloudy	Low	16:55	1.8	M	0.90	2			7.13		4.12		26.7		49.7		3.63		30.35		29	

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	21/7/2026	Mid-Flood	Cloudy	Low	10:48	2.4	M	1.20	1	0.091	186.871	7.12	7.13	2.89	2.85	27.3	27.35	39.9	40.50	2.91	2.96	26.99	26.935	35	34
M1	21/7/2026	Mid-Flood	Cloudy	Low	10:48	2.4	M	1.20	2			7.14		2.81		27.4		41.1		3		26.88		33	
M2	21/7/2026	Mid-Flood	Cloudy	Low	11:15	2.1	M	1.05	1	0.087	179.355	7.13	7.14	2.81	2.80	27.3	27.35	41.9	42.55	3.06	3.11	27.31	27.385	35	34
M2	21/7/2026	Mid-Flood	Cloudy	Low	11:15	2.1	M	1.05	2			7.14		2.78		27.4		43.2		3.15		27.46		33	
M3	21/7/2026	Mid-Flood	Cloudy	Low	11:40	2	M	1.00	1	0.088	183.115	7.16	7.17	3.38	3.40	27.3	27.35	54.7	54.75	3.99	4.00	38.99	38.975	36	41
M3	21/7/2026	Mid-Flood	Cloudy	Low	11:40	2	M	1.00	2			7.17		3.41		27.4		54.8		4		38.96		46	
M1	21/7/2026	Mid-Ebb	Cloudy	Low	17:37	2.3	M	1.15	1	0.073	322.833	7.13	7.12	2.81	2.81	27.1	27.10	39.5	39.05	2.88	2.85	26.35	26.23	48	41
M1	21/7/2026	Mid-Ebb	Cloudy	Low	17:37	2.3	M	1.15	2			7.11		2.81		27.1		38.6		2.82		26.11		33	
M2	21/7/2026	Mid-Ebb	Cloudy	Low	17:10	2.1	M	1.05	1	0.076	341.519	7.11	7.12	2.77	2.82	27.1	27.15	41.0	41.60	2.99	3.04	27.55	27.675	45	46
M2	21/7/2026	Mid-Ebb	Cloudy	Low	17:10	2.1	M	1.05	2			7.13		2.86		27.2		42.2		3.08		27.8		47	
M3	21/7/2026	Mid-Ebb	Cloudy	Low	18:02	1.9	M	0.95	1	0.073	336.237	7.16	7.15	3.45	3.46	27.1	27.15	54.1	53.65	3.95	3.92	39.04	38.93	45	41
M3	21/7/2026	Mid-Ebb	Cloudy	Low	18:02	1.9	M	0.95	2			7.14		3.46		27.2		53.2		3.88		38.82		37	

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station` s turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station` s SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	23/7/2026	Mid-Flood	Sunny	Low	15:41	2.4	M	1.20	1	0.082	169.376	7.21	7.21	2.93	2.96	27.3	27.30	40.2	40.40	2.98	3.00	21.23	21.405	33	34
M1	23/7/2026	Mid-Flood	Sunny	Low	15:41	2.4	M	1.20	2			7.2		2.98		27.3		40.6		3.01		21.58		34	
M2	23/7/2026	Mid-Flood	Sunny	Low	16:06	2.2	M	1.10	1	0.091	170.651	7.23	7.24	2.82	2.86	27.3	27.35	41.4	41.00	3.07	3.04	21.71	21.56	33	34
M2	23/7/2026	Mid-Flood	Sunny	Low	16:06	2.2	M	1.10	2			7.25		2.9		27.4		40.6		3.01		21.41		34	
M3	23/7/2026	Mid-Flood	Sunny	Low	16:31	1.9	M	0.95	1	0.091	165.683	7.29	7.28	3.29	3.27	27.1	27.10	54.7	54.50	4.05	4.04	32.07	32.2	41	41
M3	23/7/2026	Mid-Flood	Sunny	Low	16:31	1.9	M	0.95	2			7.27		3.24		27.1		54.3		4.02		32.33		40	
M1	23/7/2026	Mid-Ebb	Sunny	Low	8:33	2.4	M	1.20	1	0.073	336.743	7.18	7.17	2.69	2.70	27.1	27.10	39.3	38.95	2.91	2.89	22.00	22.065	37	38
M1	23/7/2026	Mid-Ebb	Sunny	Low	8:33	2.4	M	1.20	2			7.16		2.7		27.1		38.6		2.86		22.13		38	
M2	23/7/2026	Mid-Ebb	Sunny	Low	8:05	2.1	M	1.05	1	0.059	323.819	7.2	7.21	2.82	2.86	27.1	27.10	41.7	41.55	3.09	3.08	21.62	21.465	33	40
M2	23/7/2026	Mid-Ebb	Sunny	Low	8:05	2.1	M	1.05	2			7.21		2.89		27.1		41.4		3.07		21.31		47	
M3	23/7/2026	Mid-Ebb	Sunny	Low	8:55	1.8	M	0.90	1	0.078	331.972	7.3	7.30	3.55	3.52	27.0	27.05	55.5	55.50	4.11	4.11	34.12	33.9	39	35
M3	23/7/2026	Mid-Ebb	Sunny	Low	8:55	1.8	M	0.90	2			7.3		3.48		27.1		55.5		4.11		33.68		30	

Remark

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2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station` s turbidity recorded on the same day.
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station` s SS recorded on the same day.
6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same day.

For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1				Low					1				0.00		0.00		0.00		0.00		0		0		
M1				Low				2				0.00		0.00		0.00		0.00		0.00		0		0	
M2				Low					1				0.00		0.00		0.00		0.00		0		0		
M2				Low				2				0.00		0.00		0.00		0.00		0.00		0		0	
M3				Low					1				0.00		0.00		0.00		0.00		0		0		
M3				Low				2				0.00		0.00		0.00		0.00		0.00		0		0	
M1	25/7/2026	Mid-Ebb	Cloudy	Low	10:53	2.4	M	1.20	1	0.058	335.879	7.06	7.06	2.25	2.29	25.6	25.60	46.0	46.05	3.36	3.36	31.47	31.565	38	45
M1	25/7/2026	Mid-Ebb	Cloudy	Low	10:53	2.4	M	1.20	2			7.06		2.32		25.6		46.1		3.36		31.66		52	
M2	25/7/2026	Mid-Ebb	Cloudy	Low	10:28	2.2	M	1.10	1	0.066	308.006	7.05	7.06	2.35	2.38	25.6	25.60	48.6	48.70	3.55	3.56	32.25	32.295	36	39
M2	25/7/2026	Mid-Ebb	Cloudy	Low	10:28	2.2	M	1.10	2			7.06		2.4		25.6		48.8		3.56		32.34		42	
M3	25/7/2026	Mid-Ebb	Cloudy	Low	11:18	1.8	M	0.90	1	0.08	319.992	7.09	7.10	2.88	2.86	25.6	25.60	56.3	56.25	4.11	4.11	41.99	42.125	48	50
M3	25/7/2026	Mid-Ebb	Cloudy	Low	11:18	1.8	M	0.90	2			7.11		2.84		25.6		56.2		4.1		42.26		52	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	28/7/2026	Mid-Flood	Cloudy	Low	17:31	2.5	M	1.25	1	0.088	173.082	7.18	7.19	3.36	3.41	26.6	26.60	44.6	43.65	3.28	3.21	21.52	21.51	16	16
M1	28/7/2026	Mid-Flood	Cloudy	Low	17:31	2.5	M	1.25	2			7.2		3.45		26.6		42.7		3.14		21.5		15	
M2	28/7/2026	Mid-Flood	Cloudy	Low	17:56	2.3	M	1.15	1	0.091	168.01	7.17	7.16	3.44	3.49	26.6	26.65	46.2	46.35	3.4	3.41	21.77	21.765	14	28
M2	28/7/2026	Mid-Flood	Cloudy	Low	17:56	2.3	M	1.15	2			7.15		3.53		26.7		46.5		3.42		21.76		42	
M3	28/7/2026	Mid-Flood	Cloudy	Low	18:21	2	M	1.00	1	0.086	187.943	7.25	7.24	3.80	3.85	26.6	26.65	57.5	57.80	4.23	4.25	30.22	30.305	15	33
M3	28/7/2026	Mid-Flood	Cloudy	Low	18:21	2	M	1.00	2			7.23		3.89		26.7		58.1		4.27		30.39		50	
M1	28/7/2026	Mid-Ebb	Cloudy	Low	12:29	2.4	M	1.20	1	0.066	326.885	7.17	7.17	3.51	3.56	27.1	27.15	42.8	42.75	3.15	3.15	21.91	21.85	33	26
M1	28/7/2026	Mid-Ebb	Cloudy	Low	12:29	2.4	M	1.20	2			7.16		3.6		27.2		42.7		3.14		21.79		18	
M2	28/7/2026	Mid-Ebb	Cloudy	Low	12:04	2.2	M	1.10	1	0.066	300.437	7.19	7.19	3.49	3.53	27.1	27.15	45.6	45.30	3.35	3.33	21.49	21.49	40	42
M2	28/7/2026	Mid-Ebb	Cloudy	Low	12:04	2.2	M	1.10	2			7.18		3.57		27.2		45.0		3.31		21.49		43	
M3	28/7/2026	Mid-Ebb	Cloudy	Low	12:54	1.8	M	0.90	1	0.064	343.702	7.24	7.25	3.94	3.96	27.1	27.10	59.3	58.70	4.36	4.32	34.61	34.485	36	25
M3	28/7/2026	Mid-Ebb	Cloudy	Low	12:54	1.8	M	0.90	2			7.25		3.98		27.1		58.1		4.27		34.36		14	

Remark

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For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Contract No. SPW 01/2025 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1
Water Quality Monitoring Results

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement														Laboratory Analysis	
										Current Speed (m/s)	Current Direction (°)	pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)		Total Suspended Solids (mg/L)	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	30/7/2026	Mid-Flood	Cloudy	Low	8:49	2.4	M	1.20	1	0.09	181.214	7.14	7.14	3.01	3.00	27.1	27.10	42.9	42.45	3.11	3.14	21.24	21.365	15	14
M1	30/7/2026	Mid-Flood	Cloudy	Low	8:49	2.4	M	1.20	2			7.13		2.99		27.1		42.0		3.16		21.49		12	
M2	30/7/2026	Mid-Flood	Cloudy	Low	9:14	2.1	M	1.05	1	0.075	167.842	7.13	7.13	2.81	2.83	27.1	27.15	43.9	44.05	3.18	3.22	21.25	21.155	11	10
M2	30/7/2026	Mid-Flood	Cloudy	Low	9:14	2.1	M	1.05	2			7.13		2.85		27.2		44.2		3.26		21.06		8	
M3	30/7/2026	Mid-Flood	Cloudy	Low	9:35	2	M	1.00	1	0.082	186.716	7.19	7.20	3.26	3.31	26.9	26.90	56.4	55.80	4.09	4.10	29.43	29.225	8	9
M3	30/7/2026	Mid-Flood	Cloudy	Low	9:35	2	M	1.00	2			7.2		3.35		26.9		55.2		4.11		29.02		10	
M1	30/7/2026	Mid-Ebb	Cloudy	Low	14:27	2.3	M	1.15	1	0.071	315.246	7.13	7.12	2.83	2.80	27.5	27.55	41.3	40.40	2.99	3.03	22.11	21.97	9	9
M1	30/7/2026	Mid-Ebb	Cloudy	Low	14:27	2.3	M	1.15	2			7.11		2.76		27.6		39.5		3.07		21.83		8	
M2	30/7/2026	Mid-Ebb	Cloudy	Low	14:02	2.1	M	1.05	1	0.08	307.301	7.12	7.11	2.76	2.72	27.5	27.50	43.2	43.60	3.13	3.14	22.00	21.795	8	9
M2	30/7/2026	Mid-Ebb	Cloudy	Low	14:02	2.1	M	1.05	2			7.1		2.68		27.5		44.0		3.15		21.59		9	
M3	30/7/2026	Mid-Ebb	Cloudy	Low	14:36	1.9	M	0.95	1	0.065	303.685	7.19	7.19	3.47	3.47	27.3	27.30	57.3	56.95	4.15	4.13	32.29	32.08	9	9
M3	30/7/2026	Mid-Ebb	Cloudy	Low	14:36	1.9	M	0.95	2			7.18		3.46		27.3		56.6		4.1		31.87		9	

Remark

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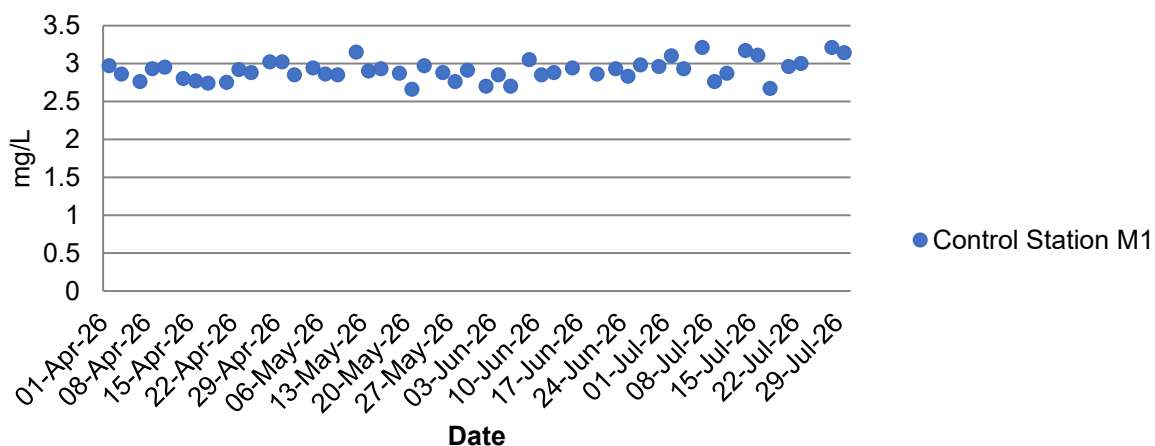
For Flood Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

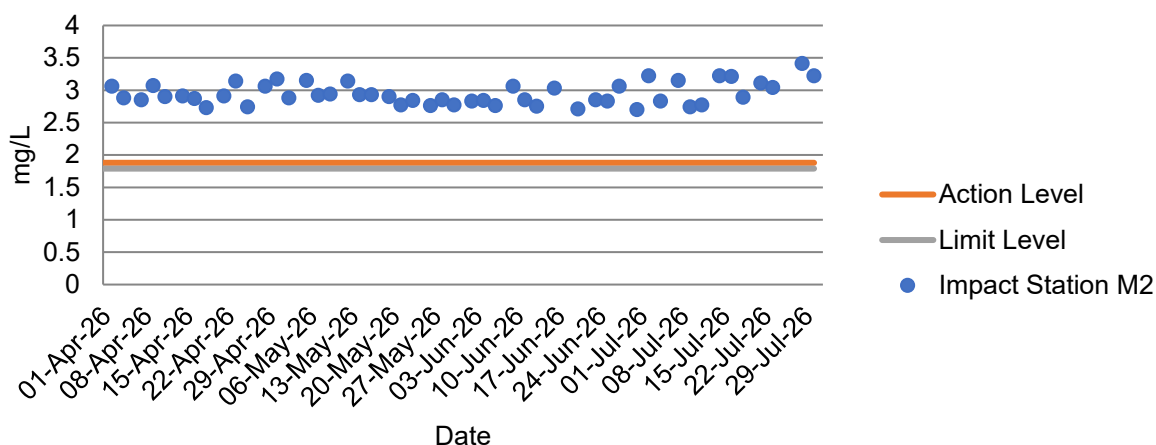
For Ebb Tide

Monitoring Location	DO		NTU		SS	
	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

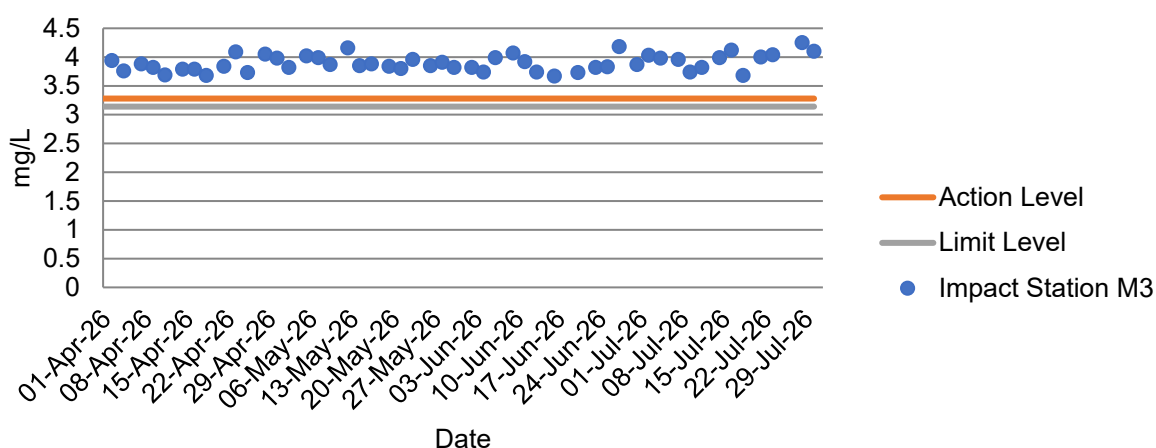
Dissolved Oxygen at Mid-Flood Tide



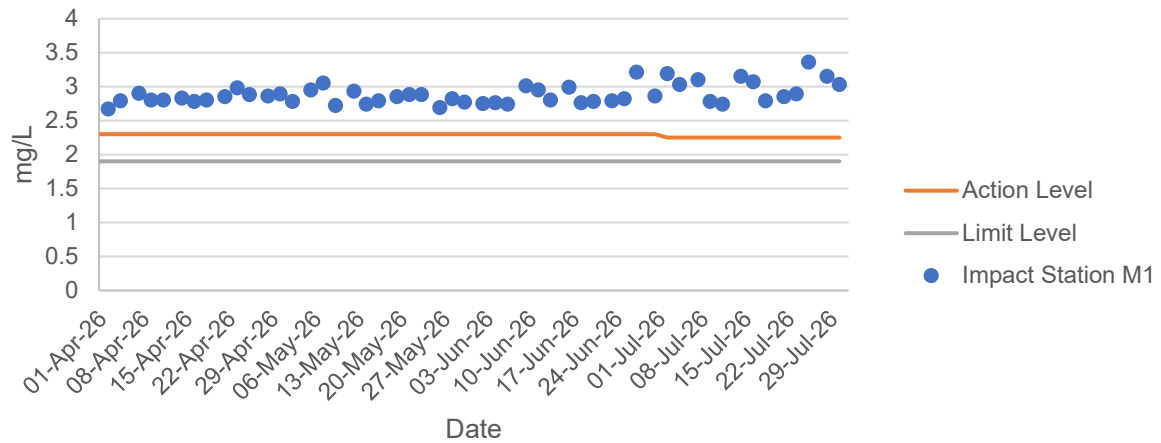
Dissolved Oxygen at Mid-Flood Tide



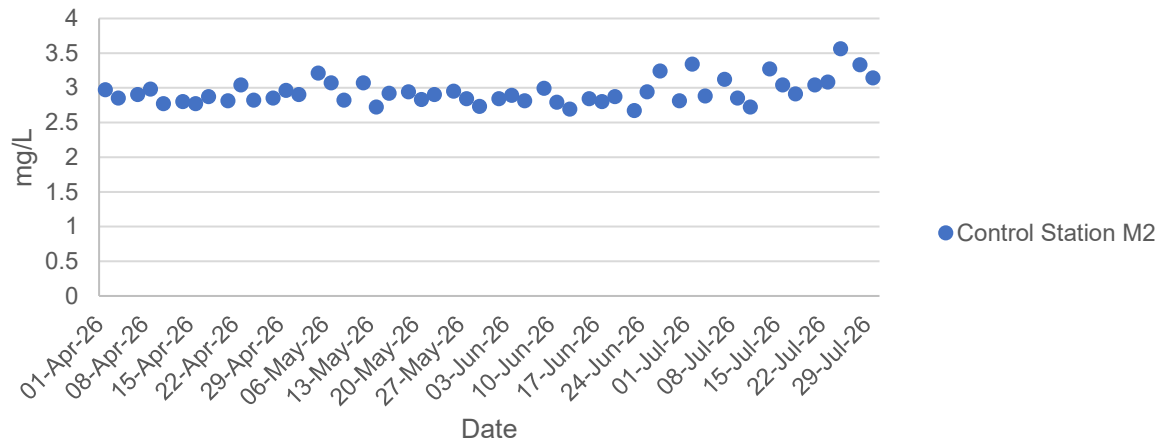
Dissolved Oxygen at Mid-Flood Tide



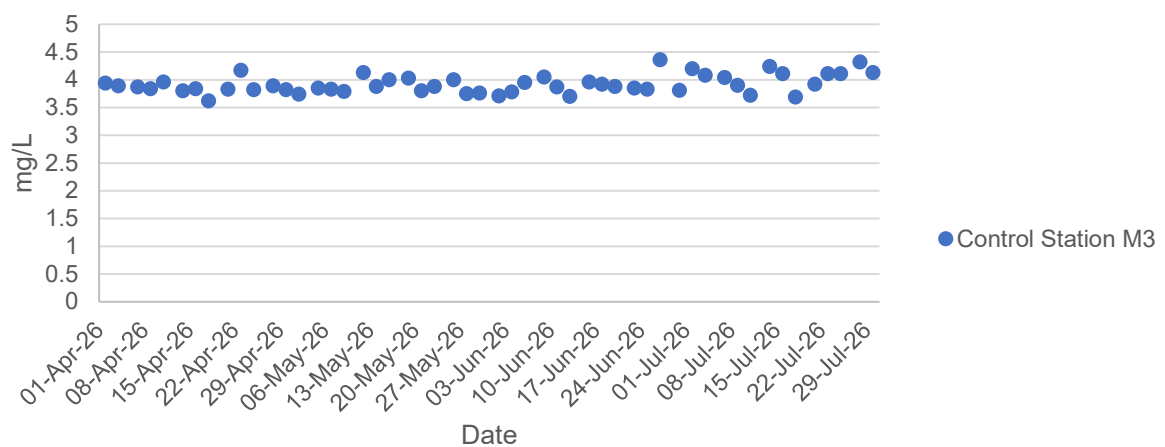
Dissolved Oxygen at Mid-Ebb Tide

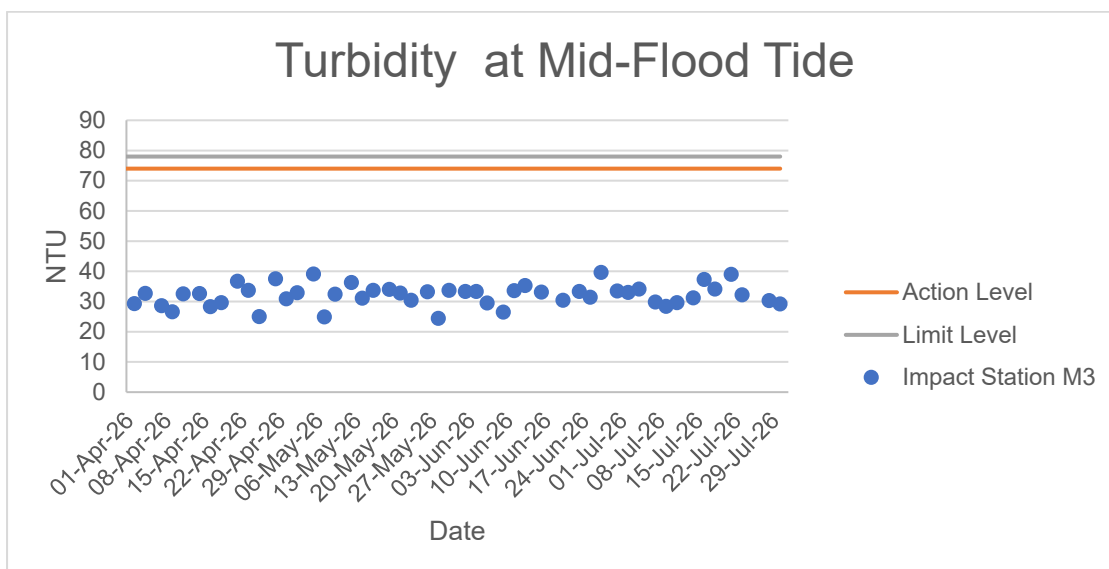
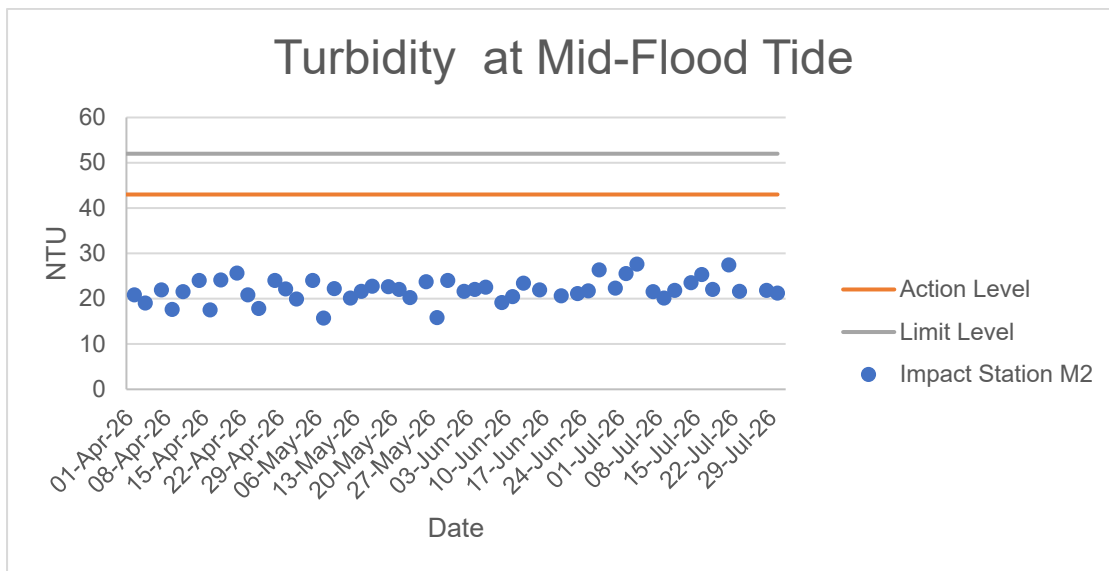
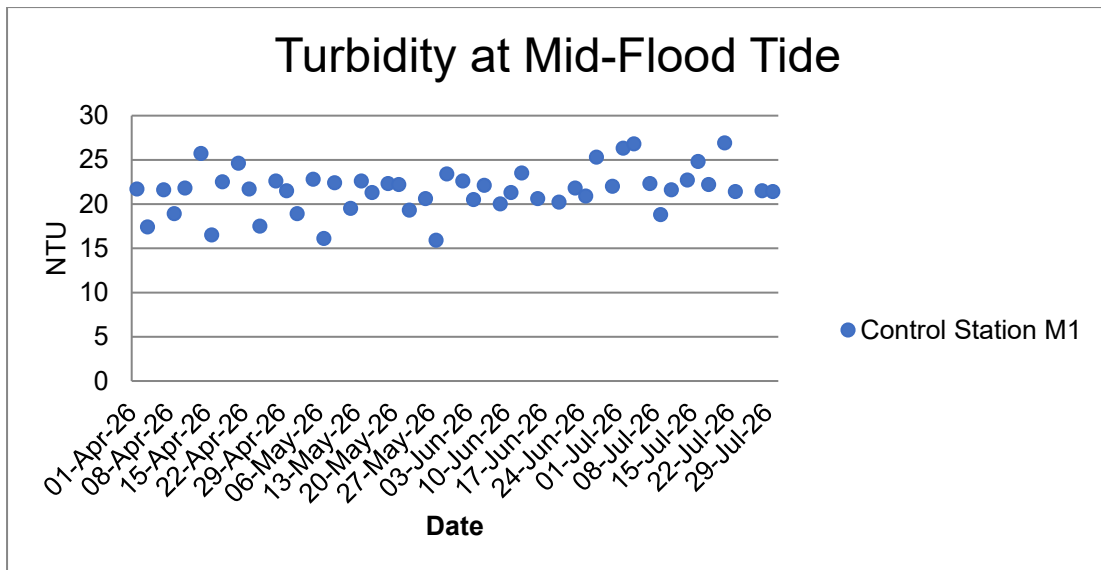


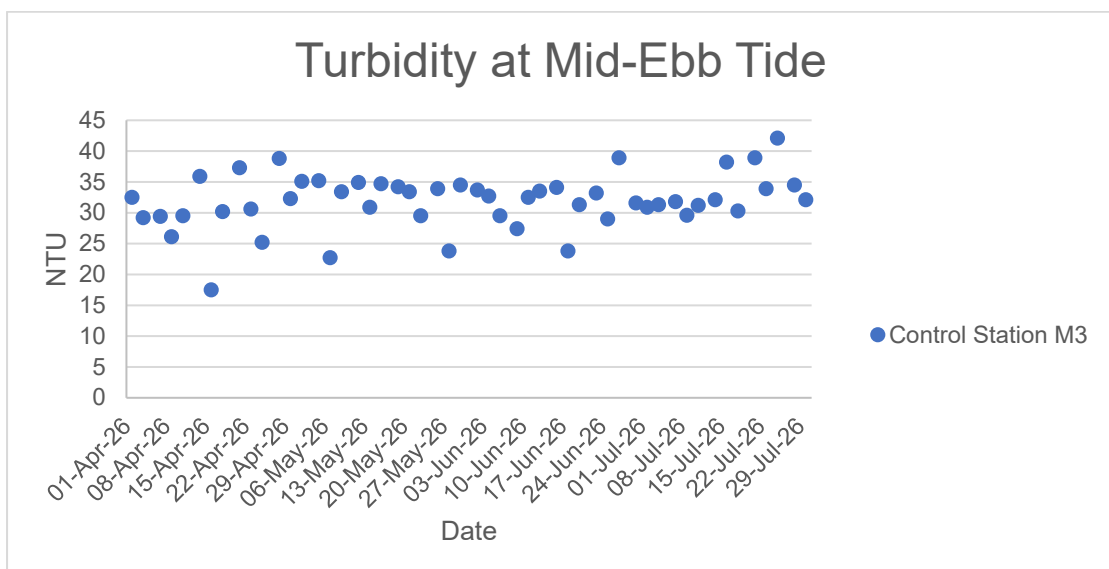
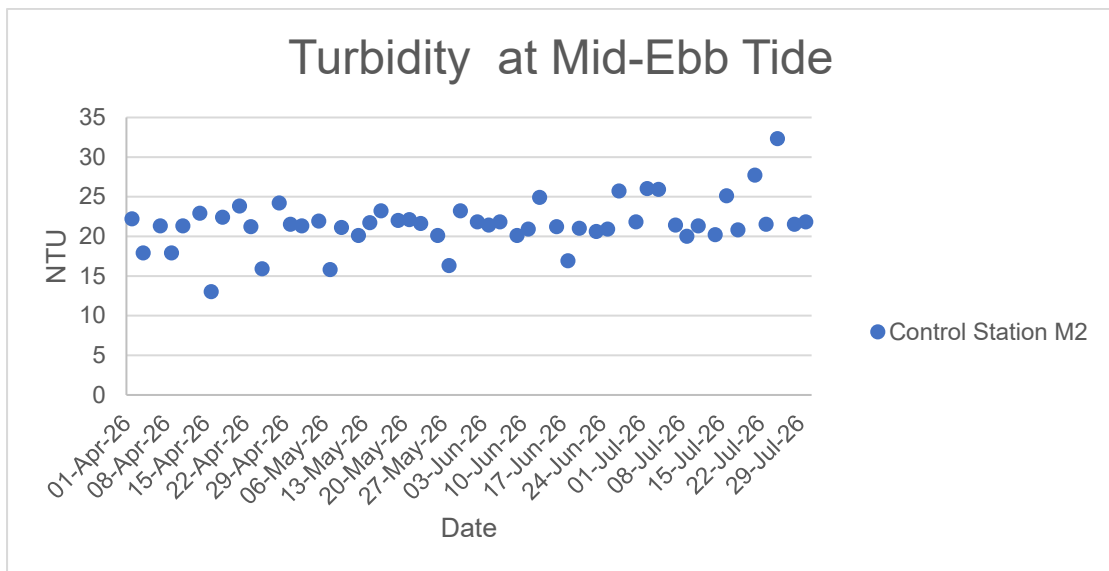
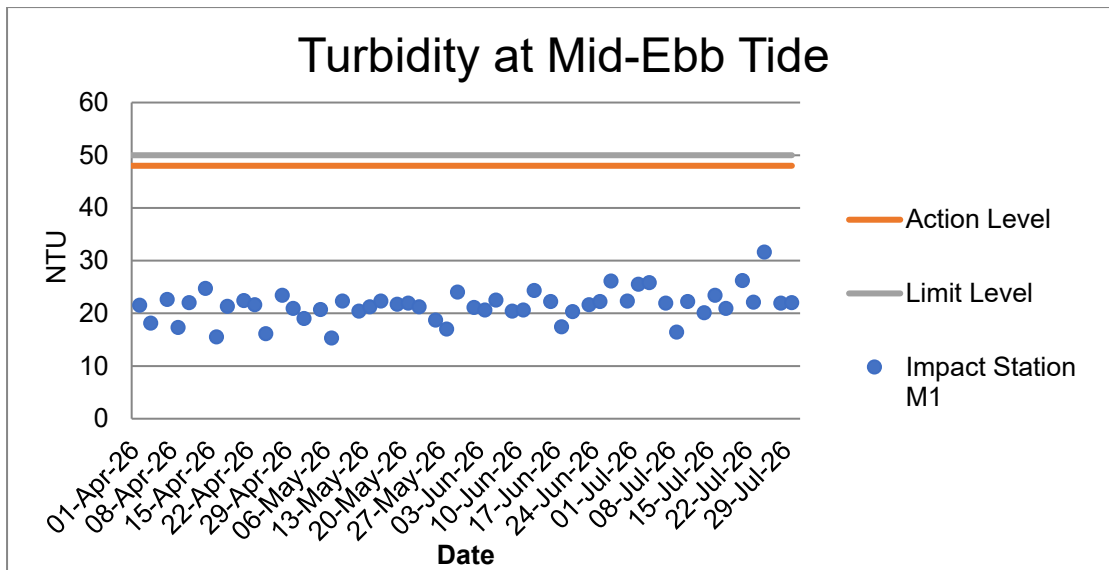
Dissolved Oxygen at Mid-Ebb Tide



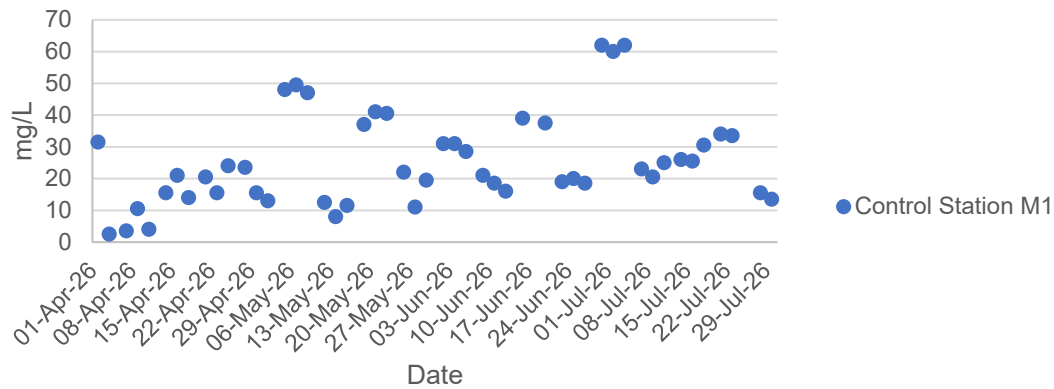
Dissolved Oxygen at Mid-Ebb Tide



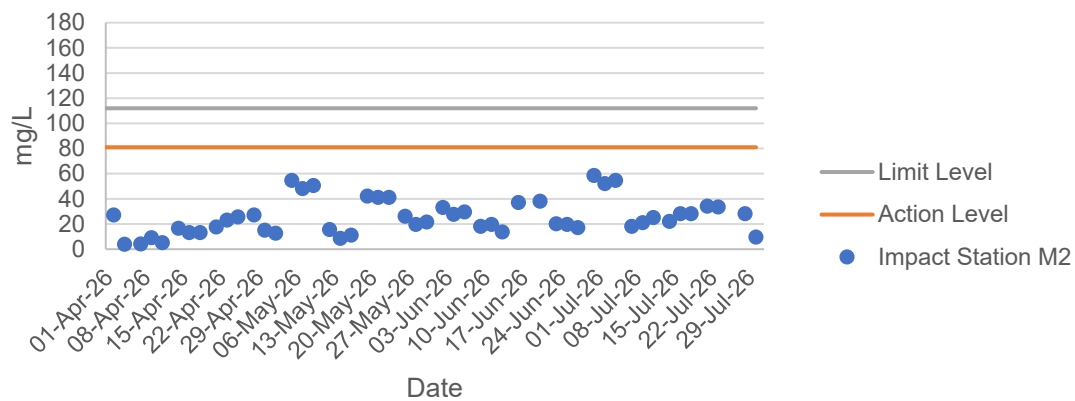




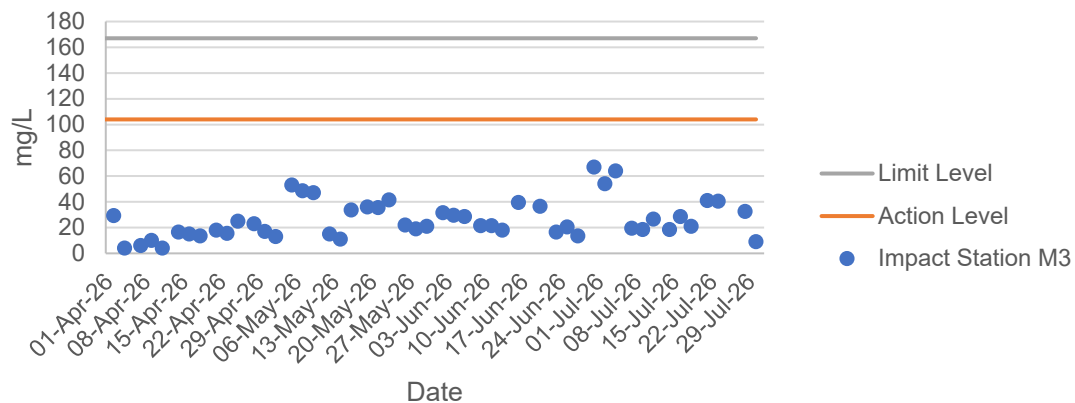
Total Suspended Solids at Mid-Flood Tide



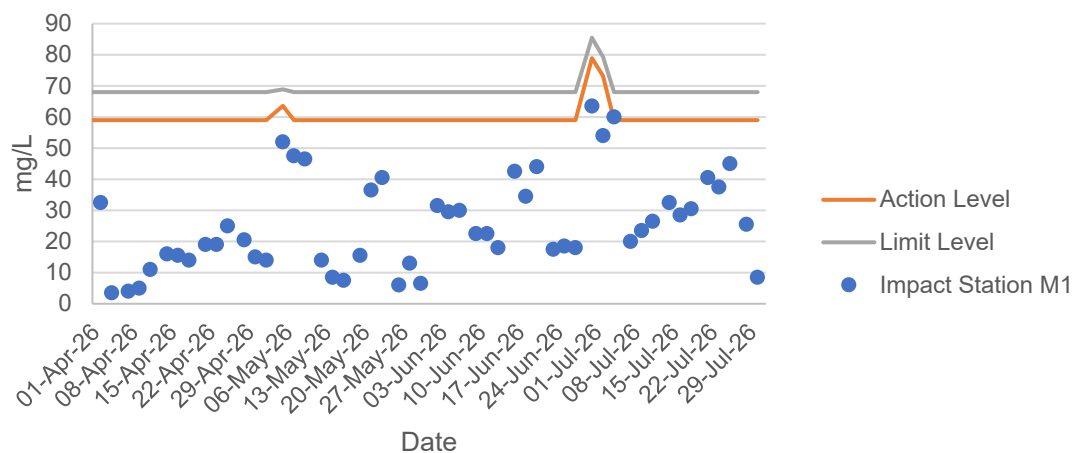
Total Suspended Solids at Mid-Flood Tide



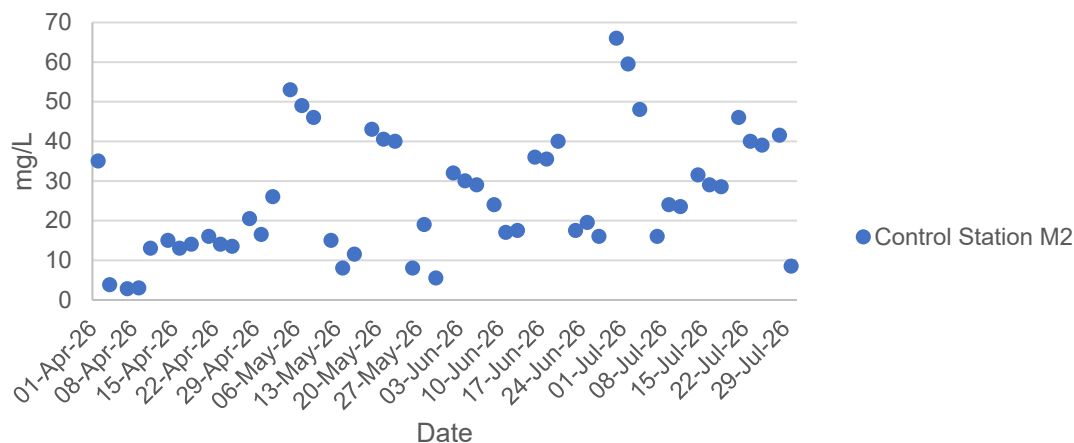
Total Suspended Solids at Mid-Flood Tide



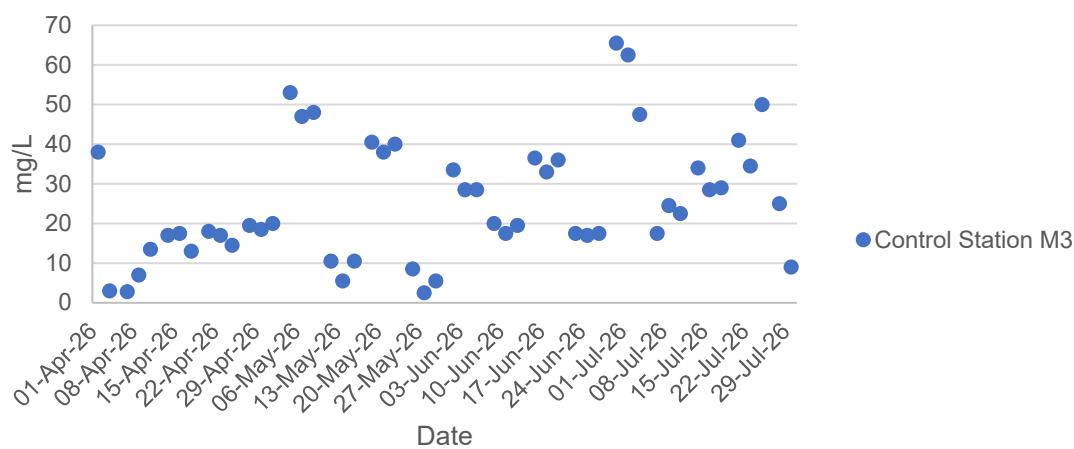
Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Total Suspended Solids at Mid-Ebb Tide



Ecology Monitoring Results for

Contract No. SPW 01/2025

Environmental Team for Construction of Yuen

Long Effluent Polishing Plant Stage 1

Appendix F.1 Ecological Bird Monitoring Result (07 & 24 July 2026)

Date (dd/mm/yyyy)	Daytime/ Night-time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
07/07/2026	Daytime	Wet	FLW	FLW1	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	22	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW1	Point Count	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW1	Point Count	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW1	Point Count	Barn Swallow	<i>Hirundo rustica</i>	4	Abundant	PM,SV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW1	Point Count	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW2	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW2	Point Count	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW2	Point Count	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW3	Point Count	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW3	Point Count	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
07/07/2026	Daytime	Wet	FLW	FLW3	Point Count	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW3	Point Count	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW3	Point Count	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW4	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW4	Point Count	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW4	Point Count	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
07/07/2026	Daytime	Wet	FLW	FLW4	Point Count	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	1	Common	R	(LC)	Class II	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW4	Point Count	Plain Prinia	<i>Prinia inornata</i>	2	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Little Grebe	<i>Tachybaptus ruficollis</i>	2	Common	R	LC	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Grey Heron	<i>Ardea cinerea</i>	2	Common	WV	PRC	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Great Egret	<i>Ardea alba</i>	16	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Little Egret	<i>Egretta garzetta</i>	5	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Black Kite	<i>Milvus migrans</i>	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Little Ringed Plover	<i>Charadrius dubius</i>	3	Common	WV,PM	(LC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Spotted Dove	<i>Spilopelia chinensis</i>	3	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Crested Myna	<i>Acridotheres cristatellus</i>	7	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	Common Myna	<i>Acridotheres tristis</i>	2	Uncommon	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW5	Point Count	White-shouldered Starling	<i>Sturnia sinensis</i>	12	Common	M,W,Su	(LC)	-	-	-	LC	Y	N
07/07/2026	Daytime	Wet	FLW	FLW6	Point Count	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW6	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW6	Point Count	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW6	Point Count	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW6	Point Count	Crested Myna	<i>Acridotheres cristatellus</i>	5	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW6	Point Count	White-shouldered Starling	<i>Sturnia sinensis</i>	4	Common	M,W,Su	(LC)	-	-	-	LC	Y	N

Appendix F.1 Ecological Bird Monitoring Result (07 & 24 July 2026)

Date (dd/mm/yyyy)	Daytime/ Night- time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
07/07/2026	Daytime	Wet	FLW	FLW6	Point Count	Scaly-breasted Munia	<i>Lonchura punctulata</i>	14	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW7	Point Count	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW7	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	32	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW7	Point Count	Great Egret	<i>Ardea alba</i>	5	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW7	Point Count	Greater Coucal	<i>Centropus sinensis</i>	1	Common	R	-	Class II	VU	LC	LC	Y	N
07/07/2026	Daytime	Wet	FLW	FLW7	Point Count	Azure-winged Magpie	<i>Cyanopica cyanus</i>	7	Introduced	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW7	Point Count	Crested Myna	<i>Acridotheres cristatellus</i>	3	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	White-breasted Waterhen	<i>Amauornis phoenicurus</i>	1	Common	R	-	-	-	LC	LC	N	Y
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	Japanese Tit	<i>Parus minor</i>	1	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	Black-collared Starling	<i>Gracupica nigricollis</i>	3	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	Eurasian Tree Sparrow	<i>Passer montanus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW1	Point Count	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	Great Egret	<i>Ardea alba</i>	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	Spotted Dove	<i>Spilopelia chinensis</i>	1	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	2	Common	R	(LC)	Class II	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	Azure-winged Magpie	<i>Cyanopica cyanus</i>	2	Introduced	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	Barn Swallow	<i>Hirundo rustica</i>	4	Abundant	PM,SV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW1	Point Count	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW2	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW2	Point Count	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW2	Point Count	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW2	Point Count	Little Egret	<i>Egretta garzetta</i>	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW2	Point Count	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW2	Point Count	Plain Prinia	<i>Prinia inornata</i>	1	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW2	Point Count	Crested Myna	<i>Acridotheres cristatellus</i>	2	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW3	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW3	Point Count	Great Egret	<i>Ardea alba</i>	5	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW3	Point Count	Little Egret	<i>Egretta garzetta</i>	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW3	Point Count	Collared Crow	<i>Corvus torquatus</i>	2	Uncommon	R	LC	-	-	NT	VU	Y	Y
07/07/2026	Daytime	Wet	NSW	SP/NSW3	Point Count	Chinese Bulbul	<i>Pycnonotus sinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	SP/NSW3	Point Count	Barn Swallow	<i>Hirundo rustica</i>	2	Abundant	PM,SV	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (07 & 24 July 2026)

Date (dd/mm/yyyy)	Daytime/ Night- time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
07/07/2026	Daytime	Wet	NSW	SP/NSW3	Point Count	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Chinese Pond Heron	<i>Ardeola bacchus</i>	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Great Egret	<i>Ardea alba</i>	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Black Kite	<i>Milvus migrans</i>	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	FLW	FLW	Transect	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	3	Common	R	-	-	-	LC	LC	N	Y
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Spotted Dove	<i>Spilopelia chinensis</i>	4	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Long-tailed Shrike	<i>Lanius schach</i>	1	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Barn Swallow	<i>Hirundo rustica</i>	4	Abundant	PM,SV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Crested Myna	<i>Acridotheres cristatellus</i>	4	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW	Transect	Black-collared Starling	<i>Gracupica nigricollis</i>	2	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	FLW	FLW	Transect	White Wagtail	<i>Motacilla alba</i>	2	Common	PM,WV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW	Transect	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	1	Common	-	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW	Transect	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW	Transect	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW	Transect	Japanese Tit	<i>Parus minor</i>	2	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW	Transect	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	NSW	NSW	Transect	Eurasian Tree Sparrow	<i>Passer montanus</i>	3	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Chinese Pond Heron	<i>Ardeola bacchus</i>	8	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Grey Heron	<i>Ardea cinerea</i>	1	Common	WV	PRC	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Great Egret	<i>Ardea alba</i>	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Little Egret	<i>Egretta garzetta</i>	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	2	Common	R	-	-	-	LC	LC	N	Y
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Common Moorhen	<i>Gallinula chloropus</i>	1	Common	R	-	-	-	LC	LC	N	Y
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Black-winged stilt	<i>Himantopus himantopus</i>	9	Common	PM	RC	-	-	LC	LC	Y	Y
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Common Sandpiper	<i>Actitis hypoleucos</i>	1	Common	PM,WV	-	-	-	LC	LC	N	Y
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Spotted Dove	<i>Spilopelia chinensis</i>	2	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Black Drongo	<i>Dicrurus macrocercus</i>	1	Common	SV	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Red-billed Blue Magpie	<i>Urocissa erythroryncha</i>	2	Common	R	-	-	-	-	LC	N	N
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Japanese Tit	<i>Parus minor</i>	1	Common	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	4	Abundant	R	-	-	-	LC	LC	N	N
07/07/2026	Daytime	Wet	YLIE-CW	YLIE-CW	Transect	White Wagtail	<i>Motacilla alba</i>	1	Common	PM,WV	-	-	-	LC	LC	N	N
24/07/2026	Night-time	Wet	FLW	FLW1	Point Count	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
24/07/2026	Night-time	Wet	FLW	FLW4	Point Count	Savanna Nightjar	<i>Caprimulgus affinis</i>	1	Uncommon	R,PM	-	-	-	DD	-	N	N
24/07/2026	Night-time	Wet	FLW	FLW5	Point Count	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
24/07/2026	Night-time	Wet	FLW	FLW5	Point Count	Black-winged stilt	<i>Himantopus himantopus</i>	6	Common	PM	RC	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (07 & 24 July 2026)

Date (dd/mm/yyyy)	Daytime/ Night- time	Season	Area	Transect / Point Count	Point Count (Location) / Transect	Common Name	Scientific Name	Abundance	Distribution in Hong Kong ²	Principal Status ³	Level of Concern ⁴	Protection Status in China ⁵	China Red Data Book ⁶	Red List of China's Vertebrates ⁹	IUCN Red List ⁷ (v.2020-3)	Species of Conservation Importance	Wetland Dependent ⁸
24/07/2026	Night-time	Wet	FLW	FLW7	Point Count	Chinese Pond Heron	<i>Ardeola bacchus</i>	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
24/07/2026	Night-time	Wet	FLW	FLW	Transect	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	1	Common	R,WV	(LC)	-	-	LC	LC	Y	Y
24/07/2026	Night-time	Wet	NSW	NSW	Transect	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	2	Common	R,WV	(LC)	-	-	LC	LC	Y	Y

Notes:

1. All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).
2. AFCD (2021). Hong Kong Biodiversity Database.
3. Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;
4. Fellowes et al. (2002): LC=Local Concern; RC=Regional Concern; PRC=Potential Regional Concern; PGC: Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.
5. List of Wild Animals under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).
6. Zheng, G. M. and Wang, Q. S. (1998). China Red Data Book
7. IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.
8. Wetland-dependent species (including wetland-dependent species and waterbirds).
9. Jiang et al. (2016). Red List of China's Vertebrates

Appendix F.2.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method)
in All Habitats (07 & 24 July 2026)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Cyanopica cyanus</i>	9	0.0323	-3.4340	-0.1108	0.3804
<i>Hirundo rustica</i>	10	0.0358	-3.3286	-0.1193	0.3971
<i>Dicrurus macrocercus</i>	2	0.0072	-4.9381	-0.0354	0.1748
<i>Milvus migrans</i>	1	0.0036	-5.6312	-0.0202	0.1137
<i>Gracupica nigricollis</i>	11	0.0394	-3.2333	-0.1275	0.4122
<i>Nycticorax nycticorax</i>	6	0.0215	-3.8395	-0.0826	0.3170
<i>Himantopus himantopus</i>	6	0.0215	-3.8395	-0.0826	0.3170
<i>Pycnonotus sinensis</i>	8	0.0287	-3.5518	-0.1018	0.3617
<i>Corvus torquatus</i>	2	0.0072	-4.9381	-0.0354	0.1748
<i>Acridotheres tristis</i>	2	0.0072	-4.9381	-0.0354	0.1748
<i>Actitis hypoleucos</i>	1	0.0036	-5.6312	-0.0202	0.1137
<i>Acridotheres cristatellus</i>	23	0.0824	-2.4957	-0.2057	0.5135
<i>Passer montanus</i>	3	0.0108	-4.5326	-0.0487	0.2209
<i>Ardea alba</i>	32	0.1147	-2.1655	-0.2484	0.5378
<i>Centropus sinensis</i>	2	0.0072	-4.9381	-0.0354	0.1748
<i>Ardea cinerea</i>	3	0.0108	-4.5326	-0.0487	0.2209
<i>Parus minor</i>	1	0.0036	-5.6312	-0.0202	0.1137
<i>Egretta garzetta</i>	15	0.0538	-2.9232	-0.1572	0.4594
<i>Tachybaptus ruficollis</i>	2	0.0072	-4.9381	-0.0354	0.1748
<i>Charadrius dubius</i>	3	0.0108	-4.5326	-0.0487	0.2209
<i>Lanius schach</i>	1	0.0036	-5.6312	-0.0202	0.1137
<i>Prinia inornata</i>	4	0.0143	-4.2449	-0.0609	0.2583
<i>Pycnonotus jocosus</i>	2	0.0072	-4.9381	-0.0354	0.1748
<i>Caprimulgus affinis</i>	1	0.0036	-5.6312	-0.0202	0.1137
<i>Lonchura punctulata</i>	14	0.0502	-2.9922	-0.1501	0.4493
<i>Spilopelia chinensis</i>	11	0.0394	-3.2333	-0.1275	0.4122
<i>Motacilla alba</i>	4	0.0143	-4.2449	-0.0609	0.2583
<i>Amaurornis phoenicurus</i>	2	0.0072	-4.9381	-0.0354	0.1748
<i>Sturnia sinensis</i>	16	0.0573	-2.8586	-0.1639	0.4686
<i>Halcyon smyrnensis</i>	3	0.0108	-4.5326	-0.0487	0.2209
<i>Ardeola bacchus</i>	79	0.2832	-1.2618	-0.3573	0.4508
Total	279	1	-128.4996	-2.7000	8.6692
Richness	31				
SS	8.6692				
SQ	7.2901				
H	2.7000				
S ² H	0.0051				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (07 & 24 July 2026)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Milvus migrans</i>	1	0.0059	-5.1358	-0.0302	0.1552
<i>Nycticorax nycticorax</i>	6	0.0353	-3.3440	-0.1180	0.3947
<i>Himantopus himantopus</i>	6	0.0353	-3.3440	-0.1180	0.3947
<i>Corvus torquatus</i>	2	0.0118	-4.4427	-0.0523	0.2322
<i>Ardea alba</i>	32	0.1882	-1.6701	-0.3144	0.5250
<i>Centropus sinensis</i>	2	0.0118	-4.4427	-0.0523	0.2322
<i>Ardea cinerea</i>	3	0.0176	-4.0372	-0.0712	0.2876
<i>Egretta garzetta</i>	15	0.0882	-2.4277	-0.2142	0.5201
<i>Tachybaptus ruficollis</i>	2	0.0118	-4.4427	-0.0523	0.2322
<i>Charadrius dubius</i>	3	0.0176	-4.0372	-0.0712	0.2876
<i>Sturnia sinensis</i>	16	0.0941	-2.3632	-0.2224	0.5256
<i>Halcyon smyrnensis</i>	3	0.0176	-4.0372	-0.0712	0.2876
<i>Ardeola bacchus</i>	79	0.4647	-0.7664	-0.3561	0.2729
Total	170	1	-44.4908	-1.7439	4.3476
Richness	13				
SS	4.3476				
SQ	3.0413				
H	1.7439				
S ² H	0.007892				

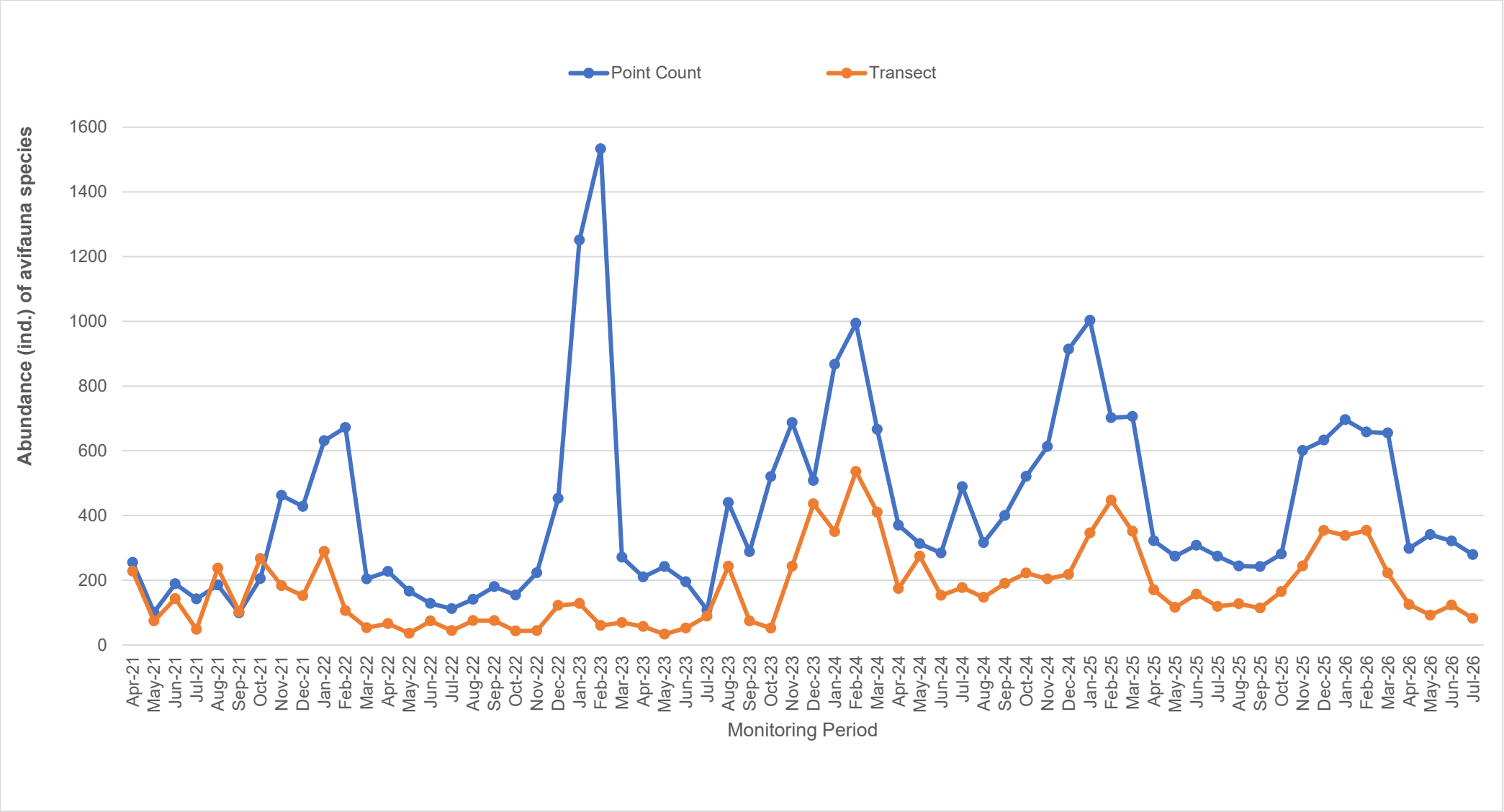
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method)
in All Habitats (07 & 24 July 2026)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Hirundo rustica</i>	4	0.0488	-3.0204	-0.1473	0.4450
<i>Dicrurus macrocercus</i>	2	0.0244	-3.7136	-0.0906	0.3364
<i>Milvus migrans</i>	2	0.0244	-3.7136	-0.0906	0.3364
<i>Gracupica nigricollis</i>	2	0.0244	-3.7136	-0.0906	0.3364
<i>Nycticorax nycticorax</i>	3	0.0366	-3.3081	-0.1210	0.4004
<i>Himantopus himantopus</i>	9	0.1098	-2.2095	-0.2425	0.5358
<i>Gallinula chloropus</i>	1	0.0122	-4.4067	-0.0537	0.2368
<i>Actitis hypoleucos</i>	1	0.0122	-4.4067	-0.0537	0.2368
<i>Acridotheres cristatellus</i>	4	0.0488	-3.0204	-0.1473	0.4450
<i>Streptopelia decaocto</i>	1	0.0122	-4.4067	-0.0537	0.2368
<i>Passer montanus</i>	3	0.0366	-3.3081	-0.1210	0.4004
<i>Ardea alba</i>	4	0.0488	-3.0204	-0.1473	0.4450
<i>Ardea cinerea</i>	1	0.0122	-4.4067	-0.0537	0.2368
<i>Parus minor</i>	3	0.0366	-3.3081	-0.1210	0.4004
<i>Egretta garzetta</i>	3	0.0366	-3.3081	-0.1210	0.4004
<i>Lanius schach</i>	1	0.0122	-4.4067	-0.0537	0.2368
<i>Urocissa erythroryncha</i>	2	0.0244	-3.7136	-0.0906	0.3364
<i>Pycnonotus jocosus</i>	10	0.1220	-2.1041	-0.2566	0.5399
<i>Spilopelia chinensis</i>	8	0.0976	-2.3273	-0.2271	0.5284
<i>Motacilla alba</i>	3	0.0366	-3.3081	-0.1210	0.4004
<i>Amaurornis phoenicurus</i>	5	0.0610	-2.7973	-0.1706	0.4771
<i>Ardeola bacchus</i>	10	0.1220	-2.1041	-0.2566	0.5399
Total	82	1	-74.0320	-2.8315	8.4877
Richness	22				
SS	8.4877				
SQ	8.0173				
H	2.8315				
S ² H	0.007298				

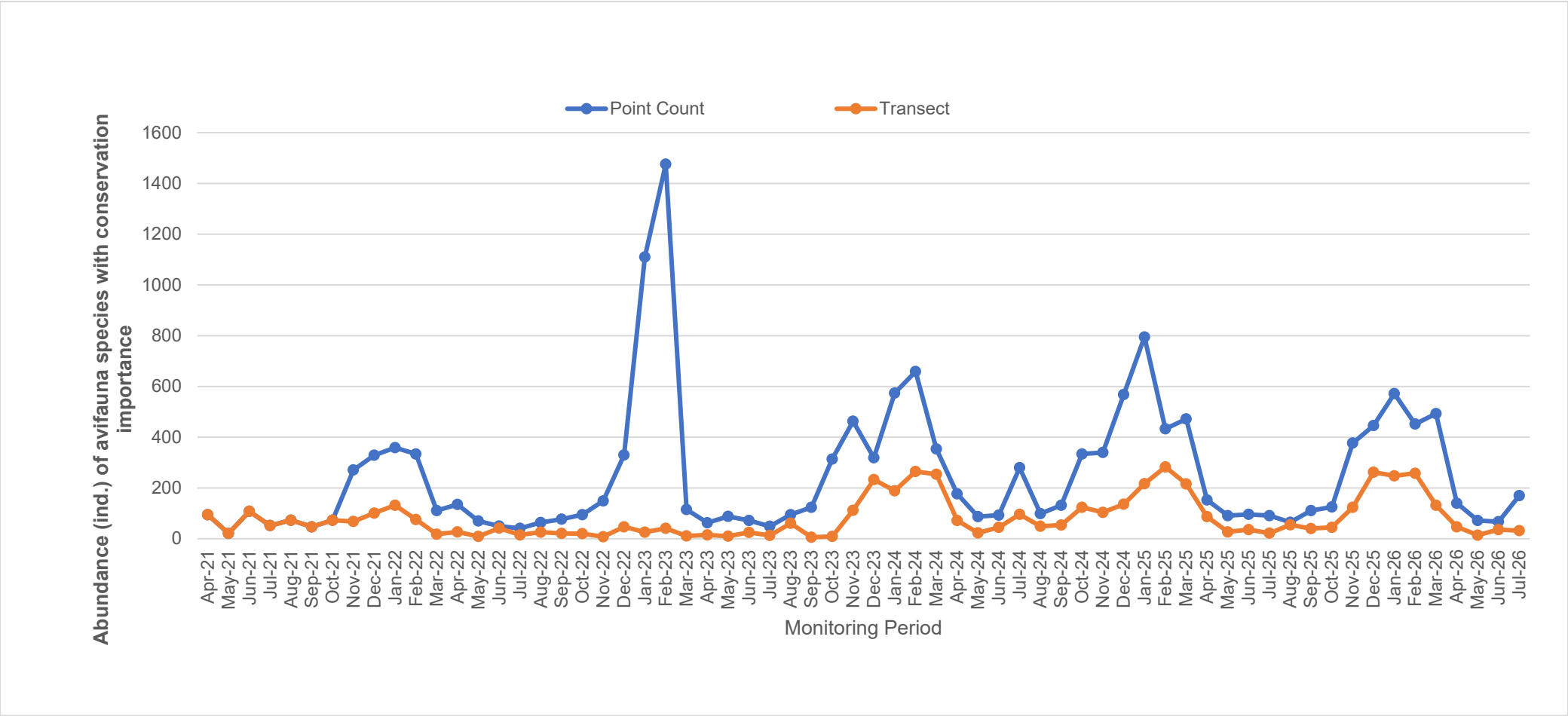
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (07 & 24 July 2026)

Scientific Name	Count	P	Ln(P)	P*Ln(P)	P*Ln(P) ²
<i>Milvus migrans</i>	2	0.0625	-2.7726	-0.1733	0.4805
<i>Nycticorax nycticorax</i>	3	0.0938	-2.3671	-0.2219	0.5253
<i>Himantopus himantopus</i>	9	0.2813	-1.2685	-0.3568	0.4526
<i>Ardea alba</i>	4	0.1250	-2.0794	-0.2599	0.5405
<i>Ardea cinerea</i>	1	0.0313	-3.4657	-0.1083	0.3754
<i>Egretta garzetta</i>	3	0.0938	-2.3671	-0.2219	0.5253
<i>Ardeola bacchus</i>	10	0.3125	-1.1632	-0.3635	0.4228
Total	32	1	-15.4837	-1.7056	3.3223
Richness	7				
SS	3.3223				
SQ	2.9091				
H	1.7056				
S ² H	0.01584				

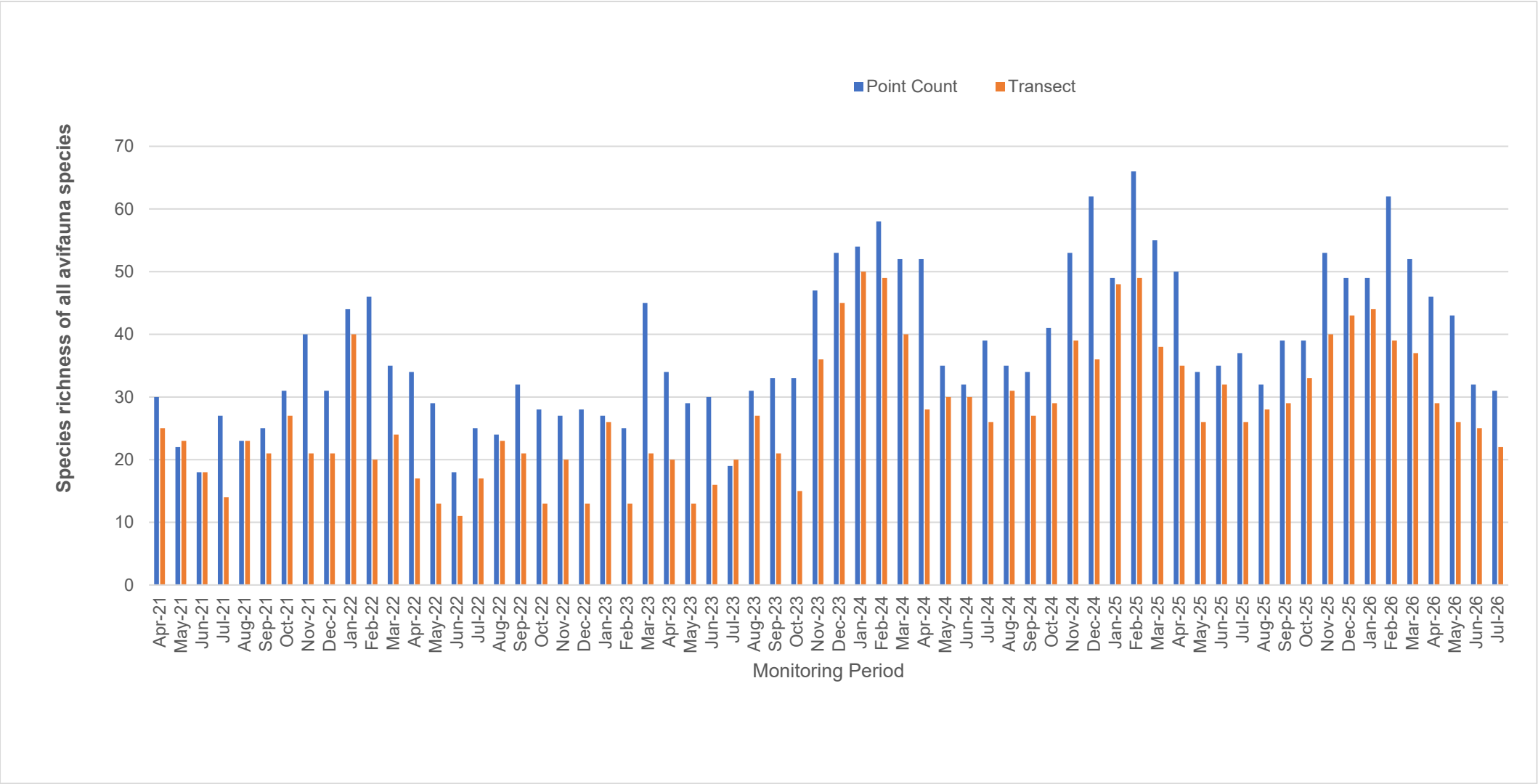
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



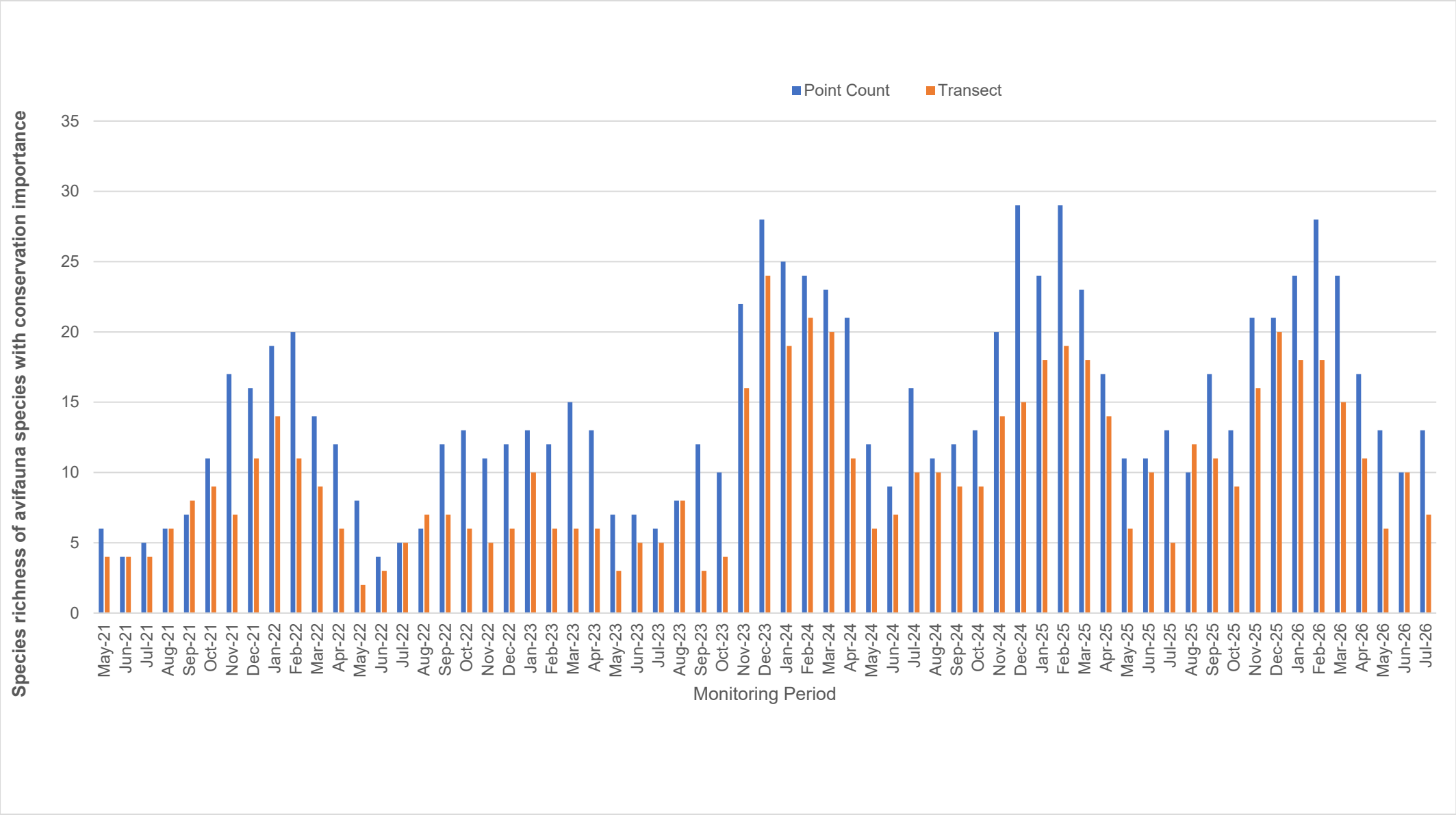
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



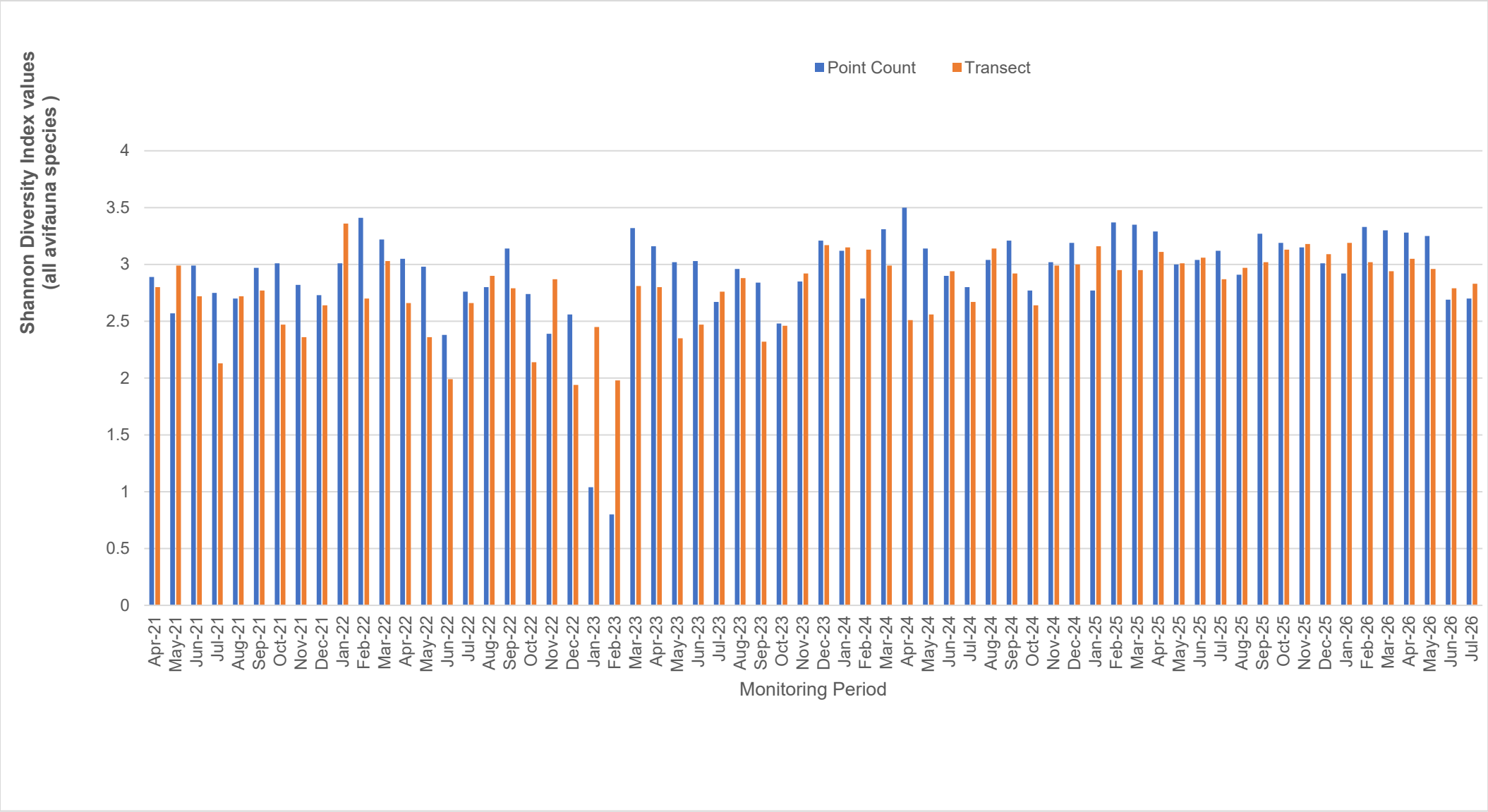
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



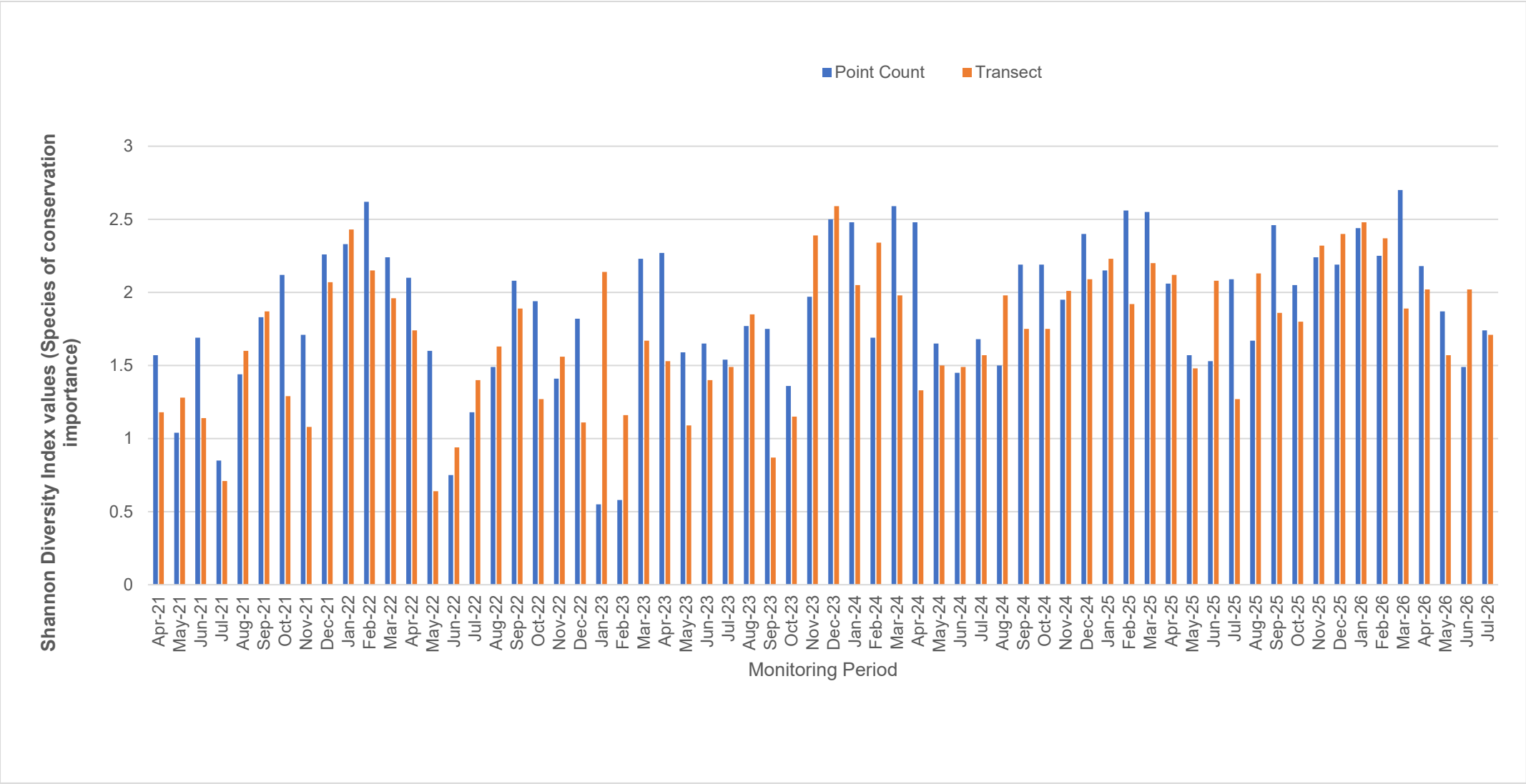
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



Appendix F.5.1 Shannon Diversity Index values of all avifauna species throughout the monitoring period



Appendix F.5.2 Shannon Diversity Index values of avifauna species with conservation importance throughout the monitoring period



Appendix F.6. Hutcheson t-test testing method and output

Formula:

$$t = \frac{H_a - H_b}{\sqrt{s_{H_a}^2 + s_{H_b}^2}}$$

Appendix F.6.1 Species diversity of all avifauna species – Point Count Method

Months	July 2017	July 2026
Total	165	279
Richness	26	31
H	2.7038	2.7000
S ² H	0.006600	0.005136
t	0.0351	
df	384.1417	
Crit	1.9662	
p	9.719813E-01	
CI	0.1625	0.1433

Appendix F.6.2 Species diversity of all avifauna species – Transect Walk Method

Months	July 2017	July 2026
Total	36	82
Richness	18	22
H	2.5993	2.8315
S ² H	0.02415	0.007298
t	1.3095	
df	58.6915	
Crit	2.0017	
p	1.96E-01	
CI	0.3108	0.1709

Appendix F.6.3 Species diversity of avifauna species with conservation importance – Point Count Method

Months	July 2017	July 2026
Total	80	170
Richness	5	13
H	1.3642	1.7439
S ² H	0.004500	0.00789207
t	3.4111	
df	247.8804	
Crit	1.9696	
p	7.56E-04	
CI	0.1342	0.1777

Appendix F.6.4 Species diversity of avifauna species with conservation importance – Transect Walk Method

Months	July 2017	July 2026
Total	8	32
Richness	3	7
H	0.9003	1.7056
S ² H	0.05920	0.01584
t	2.9399	
df	12.6283	
Crit	2.1788	
p	1.24E-02	
CI	0.4866	0.2517

Appendix G

Wind Data

Date	Wind Speed (m/s)	Wind Direction
1/7/2026 0:00	1.7	E
1/7/2026 1:00	2.8	NE
1/7/2026 2:00	1.7	NE
1/7/2026 3:00	1.8	NE
1/7/2026 4:00	2.8	W
1/7/2026 5:00	1.7	E
1/7/2026 6:00	1.7	E
1/7/2026 7:00	2.9	NE
1/7/2026 8:00	3.3	E
1/7/2026 9:00	4.0	NE
1/7/2026 10:00	3.8	NE
1/7/2026 11:00	3.5	NE
1/7/2026 12:00	3.2	N
1/7/2026 13:00	3.7	NE
1/7/2026 14:00	4.3	NE
1/7/2026 15:00	2.8	SE
1/7/2026 16:00	4.0	E
1/7/2026 17:00	3.6	SE
1/7/2026 18:00	3.8	E
1/7/2026 19:00	3.2	E
1/7/2026 20:00	3.6	NE
1/7/2026 21:00	3.1	NE
1/7/2026 22:00	3.7	NE
1/7/2026 23:00	3.6	E
1/7/2026 0:00	3.1	NE
2/7/2026 1:00	3.6	NE
2/7/2026 2:00	2.4	NE

Date	Wind Speed (m/s)	Wind Direction
2/7/2026 3:00	2.6	E
2/7/2026 4:00	5.0	E
2/7/2026 5:00	3.1	SW
2/7/2026 6:00	3.3	E
2/7/2026 7:00	3.1	SE
2/7/2026 8:00	2.9	NW
2/7/2026 9:00	3.8	E
2/7/2026 10:00	4.2	NE
2/7/2026 11:00	4.4	E
2/7/2026 12:00	2.5	E
2/7/2026 13:00	5.1	E
2/7/2026 14:00	4.9	E
2/7/2026 15:00	4.6	SE
2/7/2026 16:00	3.5	SE
2/7/2026 17:00	3.3	SE
2/7/2026 18:00	3.1	NE
2/7/2026 19:00	3.4	SE
2/7/2026 20:00	3.4	E
2/7/2026 21:00	3.5	N
2/7/2026 22:00	3.2	SE
2/7/2026 23:00	3.8	E
2/7/2026 0:00	2.9	E
3/7/2026 1:00	2.1	NE
3/7/2026 2:00	2.1	NE
3/7/2026 3:00	3.5	E
3/7/2026 4:00	3.1	SE
3/7/2026 5:00	3.6	SE

Date	Wind Speed (m/s)	Wind Direction
3/7/2026 6:00	2.9	W
3/7/2026 7:00	3.4	S
3/7/2026 8:00	3.6	SE
3/7/2026 9:00	3.1	E
3/7/2026 10:00	4.5	SE
3/7/2026 11:00	4.6	NE
3/7/2026 12:00	5.8	E
3/7/2026 13:00	3.6	SE
3/7/2026 14:00	3.6	SE
3/7/2026 15:00	2.4	E
3/7/2026 16:00	2.7	SE
3/7/2026 17:00	2.2	E
3/7/2026 18:00	3.6	E
3/7/2026 19:00	3.9	E
3/7/2026 20:00	3.3	NE
3/7/2026 21:00	2.4	NE
3/7/2026 22:00	1.7	NE
3/7/2026 23:00	1.9	E
3/7/2026 0:00	3.0	N
4/7/2026 1:00	3.2	SE
4/7/2026 2:00	2.6	SE
4/7/2026 3:00	3.2	SE
4/7/2026 4:00	3.1	E
4/7/2026 5:00	3.0	SE
4/7/2026 6:00	2.8	SW
4/7/2026 7:00	1.9	E
4/7/2026 8:00	2.1	NE

Date	Wind Speed (m/s)	Wind Direction
4/7/2026 9:00	3.2	SE
4/7/2026 10:00	3.4	SE
4/7/2026 11:00	3.7	SE
4/7/2026 12:00	5.1	E
4/7/2026 13:00	3.3	S
4/7/2026 14:00	4.1	SE
4/7/2026 15:00	2.9	SE
4/7/2026 16:00	3.4	SE
4/7/2026 17:00	4.0	SE
4/7/2026 18:00	1.8	SE
4/7/2026 19:00	3.3	S
4/7/2026 20:00	2.8	E
4/7/2026 21:00	3.2	E
4/7/2026 22:00	2.8	E
4/7/2026 23:00	3.9	SE
4/7/2026 0:00	2.8	W
5/7/2026 1:00	3.7	SE
5/7/2026 2:00	2.8	SE
5/7/2026 3:00	1.9	SE
5/7/2026 4:00	3.6	S
5/7/2026 5:00	2.8	SW
5/7/2026 6:00	3.2	SE
5/7/2026 7:00	3.2	SE
5/7/2026 8:00	2.8	W
5/7/2026 9:00	4.2	S
5/7/2026 10:00	2.9	E
5/7/2026 11:00	2.4	SE

Date	Wind Speed (m/s)	Wind Direction
5/7/2026 12:00	3.0	E
5/7/2026 13:00	3.9	SE
5/7/2026 14:00	3.8	SE
5/7/2026 15:00	3.8	SE
5/7/2026 16:00	5.3	SE
5/7/2026 17:00	5.3	SE
5/7/2026 18:00	3.6	SE
5/7/2026 19:00	2.8	S
5/7/2026 20:00	2.6	SE
5/7/2026 21:00	3.4	SE
5/7/2026 22:00	2.5	SE
5/7/2026 23:00	3.5	SE
5/7/2026 0:00	3.2	S
6/7/2026 1:00	1.7	E
6/7/2026 2:00	2.3	NW
6/7/2026 3:00	2.6	S
6/7/2026 4:00	3.2	S
6/7/2026 5:00	3.5	S
6/7/2026 6:00	3.6	SE
6/7/2026 7:00	3.8	SE
6/7/2026 8:00	3.3	S
6/7/2026 9:00	2.6	SE
6/7/2026 10:00	2.5	SW
6/7/2026 11:00	3.3	SE
6/7/2026 12:00	3.2	S
6/7/2026 13:00	4.1	S
6/7/2026 14:00	3.8	SE

Date	Wind Speed (m/s)	Wind Direction
6/7/2026 15:00	4.3	SE
6/7/2026 16:00	4.2	SE
6/7/2026 17:00	3.8	SE
6/7/2026 18:00	3.0	E
6/7/2026 19:00	2.2	SE
6/7/2026 20:00	1.7	E
6/7/2026 21:00	3.1	SE
6/7/2026 22:00	1.7	SE
6/7/2026 23:00	2.8	E
6/7/2026 0:00	2.8	E
7/7/2026 1:00	2.8	SW
7/7/2026 2:00	1.7	SW
7/7/2026 3:00	1.7	S
7/7/2026 4:00	2.8	SE
7/7/2026 5:00	2.2	S
7/7/2026 6:00	1.7	NW
7/7/2026 7:00	2.8	E
7/7/2026 8:00	2.8	E
7/7/2026 9:00	1.8	SE
7/7/2026 10:00	2.8	NW
7/7/2026 11:00	2.6	NW
7/7/2026 12:00	2.4	NE
7/7/2026 13:00	2.7	NE
7/7/2026 14:00	3.5	N
7/7/2026 15:00	2.9	NW
7/7/2026 16:00	2.2	N
7/7/2026 17:00	3.3	SE

Date	Wind Speed (m/s)	Wind Direction
7/7/2026 18:00	2.4	E
7/7/2026 19:00	2.8	NW
7/7/2026 20:00	1.8	E
7/7/2026 21:00	2.8	SE
7/7/2026 22:00	1.7	NE
7/7/2026 23:00	1.7	E
7/7/2026 0:00	1.7	SE
8/7/2026 1:00	1.8	SE
8/7/2026 2:00	2.8	S
8/7/2026 3:00	1.7	SE
8/7/2026 4:00	2.0	S
8/7/2026 5:00	1.7	SE
8/7/2026 6:00	2.8	SE
8/7/2026 7:00	1.7	E
8/7/2026 8:00	1.8	N
8/7/2026 9:00	3.2	NE
8/7/2026 10:00	2.8	SE
8/7/2026 11:00	3.5	E
8/7/2026 12:00	3.4	E
8/7/2026 13:00	3.7	S
8/7/2026 14:00	2.1	SW
8/7/2026 15:00	3.2	E
8/7/2026 16:00	4.1	SE
8/7/2026 17:00	3.3	S
8/7/2026 18:00	3.2	E
8/7/2026 19:00	2.8	E
8/7/2026 20:00	2.8	SE

Date	Wind Speed (m/s)	Wind Direction
8/7/2026 21:00	1.7	E
8/7/2026 22:00	1.7	NE
8/7/2026 23:00	2.8	SE
8/7/2026 0:00	3.3	SE
9/7/2026 1:00	1.7	SE
9/7/2026 2:00	1.8	SE
9/7/2026 3:00	2.8	SE
9/7/2026 4:00	2.9	E
9/7/2026 5:00	2.8	S
9/7/2026 6:00	1.7	SE
9/7/2026 7:00	2.8	SE
9/7/2026 8:00	2.8	E
9/7/2026 9:00	1.9	NE
9/7/2026 10:00	3.5	SE
9/7/2026 11:00	3.1	SE
9/7/2026 12:00	3.9	SE
9/7/2026 13:00	3.7	SE
9/7/2026 14:00	3.1	S
9/7/2026 15:00	4.2	SE
9/7/2026 16:00	2.9	SE
9/7/2026 17:00	2.0	W
9/7/2026 18:00	2.9	SE
9/7/2026 19:00	2.3	E
9/7/2026 20:00	2.0	SE
9/7/2026 21:00	2.5	E
9/7/2026 22:00	2.8	NE
9/7/2026 23:00	2.8	E

Date	Wind Speed (m/s)	Wind Direction
9/7/2026 0:00	2.8	NW
10/7/2026 1:00	2.8	SE
10/7/2026 2:00	1.7	E
10/7/2026 3:00	1.7	SE
10/7/2026 4:00	1.7	SE
10/7/2026 5:00	2.8	SE
10/7/2026 6:00	2.0	SE
10/7/2026 7:00	2.9	E
10/7/2026 8:00	3.8	SW
10/7/2026 9:00	2.3	NW
10/7/2026 10:00	3.6	W
10/7/2026 11:00	2.8	W
10/7/2026 12:00	1.8	NE
10/7/2026 13:00	3.5	W
10/7/2026 14:00	1.9	E
10/7/2026 15:00	4.9	W
10/7/2026 16:00	3.7	NW
10/7/2026 17:00	3.7	W
10/7/2026 18:00	3.1	NW
10/7/2026 19:00	2.7	SE
10/7/2026 20:00	2.8	SE
10/7/2026 21:00	1.9	SW
10/7/2026 22:00	3.5	SE
10/7/2026 23:00	1.8	E
10/7/2026 0:00	2.8	SW
11/7/2026 1:00	2.8	E
11/7/2026 2:00	2.8	E

Date	Wind Speed (m/s)	Wind Direction
11/7/2026 3:00	2.8	W
11/7/2026 4:00	2.8	E
11/7/2026 5:00	1.7	E
11/7/2026 6:00	2.8	SE
11/7/2026 7:00	1.8	SE
11/7/2026 8:00	1.8	W
11/7/2026 9:00	3.0	W
11/7/2026 10:00	1.9	W
11/7/2026 11:00	3.2	NW
11/7/2026 12:00	2.3	W
11/7/2026 13:00	3.5	SW
11/7/2026 14:00	3.5	SW
11/7/2026 15:00	4.0	W
11/7/2026 16:00	4.2	W
11/7/2026 17:00	4.4	NW
11/7/2026 18:00	3.6	W
11/7/2026 19:00	2.0	E
11/7/2026 20:00	3.0	SE
11/7/2026 21:00	2.5	SE
11/7/2026 22:00	2.6	SE
11/7/2026 23:00	3.3	SW
11/7/2026 0:00	3.1	S
12/7/2026 1:00	3.1	SW
12/7/2026 2:00	2.9	W
12/7/2026 3:00	1.8	S
12/7/2026 4:00	2.9	S
12/7/2026 5:00	1.8	SE

Date	Wind Speed (m/s)	Wind Direction
12/7/2026 6:00	2.9	SE
12/7/2026 7:00	3.0	E
12/7/2026 8:00	1.9	NW
12/7/2026 9:00	3.8	E
12/7/2026 10:00	3.0	NE
12/7/2026 11:00	4.0	W
12/7/2026 12:00	3.6	W
12/7/2026 13:00	4.4	NW
12/7/2026 14:00	3.2	NW
12/7/2026 15:00	2.9	SW
12/7/2026 16:00	3.2	E
12/7/2026 17:00	3.5	S
12/7/2026 18:00	3.4	SW
12/7/2026 19:00	3.6	SE
12/7/2026 20:00	3.9	SE
12/7/2026 21:00	3.3	SE
12/7/2026 22:00	4.2	S
12/7/2026 23:00	2.2	S
12/7/2026 0:00	3.6	SE
13/7/2026 1:00	3.4	E
13/7/2026 2:00	2.9	E
13/7/2026 3:00	2.3	SE
13/7/2026 4:00	1.8	E
13/7/2026 5:00	2.9	E
13/7/2026 6:00	1.8	SE
13/7/2026 7:00	2.5	SE
13/7/2026 8:00	2.9	NE

Date	Wind Speed (m/s)	Wind Direction
13/7/2026 9:00	3.0	E
13/7/2026 10:00	1.9	NE
13/7/2026 11:00	1.9	E
13/7/2026 12:00	3.0	SE
13/7/2026 13:00	2.4	NW
13/7/2026 14:00	3.8	NE
13/7/2026 15:00	3.5	E
13/7/2026 16:00	3.6	NE
13/7/2026 17:00	3.2	E
13/7/2026 18:00	3.1	SE
13/7/2026 19:00	3.5	NE
13/7/2026 20:00	3.8	E
13/7/2026 21:00	3.1	SE
13/7/2026 22:00	3.2	NE
13/7/2026 23:00	3.3	NE
13/7/2026 0:00	3.3	NE
14/7/2026 1:00	2.8	NE
14/7/2026 2:00	1.8	N
14/7/2026 3:00	3.3	NE
14/7/2026 4:00	3.1	SE
14/7/2026 5:00	2.8	E
14/7/2026 6:00	2.1	NE
14/7/2026 7:00	2.8	N
14/7/2026 8:00	3.5	N
14/7/2026 9:00	2.5	W
14/7/2026 10:00	2.8	N
14/7/2026 11:00	2.8	SE

Date	Wind Speed (m/s)	Wind Direction
14/7/2026 12:00	3.4	SE
14/7/2026 13:00	3.6	E
14/7/2026 14:00	4.6	SE
14/7/2026 15:00	3.9	S
14/7/2026 16:00	2.9	E
14/7/2026 17:00	4.1	S
14/7/2026 18:00	2.8	W
14/7/2026 19:00	2.4	SE
14/7/2026 20:00	3.4	SE
14/7/2026 21:00	2.2	SE
14/7/2026 22:00	3.9	SW
14/7/2026 23:00	3.5	SE
14/7/2026 0:00	3.5	E
15/7/2026 1:00	2.8	E
15/7/2026 2:00	3.5	SE
15/7/2026 3:00	2.8	E
15/7/2026 4:00	2.0	E
15/7/2026 5:00	2.1	SE
15/7/2026 6:00	2.7	S
15/7/2026 7:00	2.2	SE
15/7/2026 8:00	3.4	SE
15/7/2026 9:00	2.8	SE
15/7/2026 10:00	3.3	SE
15/7/2026 11:00	3.3	SE
15/7/2026 12:00	3.3	SE
15/7/2026 13:00	4.0	SE
15/7/2026 14:00	3.7	W

Date	Wind Speed (m/s)	Wind Direction
15/7/2026 15:00	2.8	NW
15/7/2026 16:00	1.7	NE
15/7/2026 17:00	3.4	N
15/7/2026 18:00	1.7	NE
15/7/2026 19:00	3.0	NE
15/7/2026 20:00	3.1	NE
15/7/2026 21:00	1.7	NE
15/7/2026 22:00	2.5	SE
15/7/2026 23:00	3.6	SE
15/7/2026 0:00	2.9	S
16/7/2026 1:00	3.3	SE
16/7/2026 2:00	3.6	SE
16/7/2026 3:00	3.7	SE
16/7/2026 4:00	3.1	SE
16/7/2026 5:00	2.6	SE
16/7/2026 6:00	3.1	E
16/7/2026 7:00	4.7	NW
16/7/2026 8:00	2.6	SE
16/7/2026 9:00	2.2	SE
16/7/2026 10:00	1.7	NW
16/7/2026 11:00	2.8	NW
16/7/2026 12:00	2.6	S
16/7/2026 13:00	3.8	NW
16/7/2026 14:00	3.0	SW
16/7/2026 15:00	1.8	E
16/7/2026 16:00	2.0	NE
16/7/2026 17:00	1.8	E

Date	Wind Speed (m/s)	Wind Direction
16/7/2026 18:00	2.0	NE
16/7/2026 19:00	1.9	E
16/7/2026 20:00	3.0	SE
16/7/2026 21:00	2.8	NE
16/7/2026 22:00	2.8	N
16/7/2026 23:00	3.4	E
16/7/2026 0:00	2.8	NE
17/7/2026 1:00	1.7	NE
17/7/2026 2:00	2.0	W
17/7/2026 3:00	2.2	SE
17/7/2026 4:00	2.2	SW
17/7/2026 5:00	2.8	S
17/7/2026 6:00	1.7	NE
17/7/2026 7:00	2.8	NE
17/7/2026 8:00	1.8	E
17/7/2026 9:00	1.7	NW
17/7/2026 10:00	2.7	S
17/7/2026 11:00	2.8	E
17/7/2026 12:00	2.0	NE
17/7/2026 13:00	2.8	SE
17/7/2026 14:00	3.2	SE
17/7/2026 15:00	2.9	SE
17/7/2026 16:00	2.9	E
17/7/2026 17:00	1.9	S
17/7/2026 18:00	2.9	SW
17/7/2026 19:00	3.4	SE
17/7/2026 20:00	1.8	NW

Date	Wind Speed (m/s)	Wind Direction
17/7/2026 21:00	3.3	SE
17/7/2026 22:00	3.4	SE
17/7/2026 23:00	3.4	SE
17/7/2026 0:00	2.2	SE
18/7/2026 1:00	3.0	S
18/7/2026 2:00	2.0	E
18/7/2026 3:00	2.2	SE
18/7/2026 4:00	3.3	E
18/7/2026 5:00	1.7	SE
18/7/2026 6:00	2.5	NE
18/7/2026 7:00	2.8	NE
18/7/2026 8:00	3.3	NE
18/7/2026 9:00	2.8	E
18/7/2026 10:00	3.7	S
18/7/2026 11:00	3.2	S
18/7/2026 12:00	2.9	NE
18/7/2026 13:00	3.0	NW
18/7/2026 14:00	3.1	W
18/7/2026 15:00	3.4	S
18/7/2026 16:00	3.1	SE
18/7/2026 17:00	3.9	SE
18/7/2026 18:00	3.3	SE
18/7/2026 19:00	3.5	SE
18/7/2026 20:00	2.3	E
18/7/2026 21:00	3.2	SE
18/7/2026 22:00	3.0	SW
18/7/2026 23:00	2.8	SE

Date	Wind Speed (m/s)	Wind Direction
18/7/2026 0:00	2.0	SW
19/7/2026 1:00	3.0	S
19/7/2026 2:00	2.8	S
19/7/2026 3:00	3.0	SE
19/7/2026 4:00	1.8	E
19/7/2026 5:00	3.2	SE
19/7/2026 6:00	2.8	SE
19/7/2026 7:00	1.8	SE
19/7/2026 8:00	3.3	E
19/7/2026 9:00	2.2	S
19/7/2026 10:00	4.5	SE
19/7/2026 11:00	3.1	SE
19/7/2026 12:00	2.4	SW
19/7/2026 13:00	3.1	NW
19/7/2026 14:00	3.8	SE
19/7/2026 15:00	3.9	SE
19/7/2026 16:00	3.2	E
19/7/2026 17:00	3.3	E
19/7/2026 18:00	2.9	SE
19/7/2026 19:00	2.0	W
19/7/2026 20:00	2.4	SE
19/7/2026 21:00	2.5	SE
19/7/2026 22:00	3.1	SE
19/7/2026 23:00	1.8	E
19/7/2026 0:00	2.1	E
20/7/2026 1:00	2.2	SE
20/7/2026 2:00	2.4	SW

Date	Wind Speed (m/s)	Wind Direction
20/7/2026 3:00	2.4	SE
20/7/2026 4:00	1.9	SE
20/7/2026 5:00	3.8	SE
20/7/2026 6:00	2.8	NW
20/7/2026 7:00	3.2	SE
20/7/2026 8:00	3.8	SE
20/7/2026 9:00	3.1	E
20/7/2026 10:00	2.8	N
20/7/2026 11:00	2.2	SE
20/7/2026 12:00	2.8	E
20/7/2026 13:00	1.8	NE
20/7/2026 14:00	3.5	NE
20/7/2026 15:00	3.7	SE
20/7/2026 16:00	3.3	S
20/7/2026 17:00	2.9	E
20/7/2026 18:00	2.3	SE
20/7/2026 19:00	3.1	SE
20/7/2026 20:00	2.8	SE
20/7/2026 21:00	2.7	S
20/7/2026 22:00	3.1	SE
20/7/2026 23:00	2.0	SE
20/7/2026 0:00	3.0	SE
21/7/2026 1:00	3.1	SE
21/7/2026 2:00	2.6	S
21/7/2026 3:00	2.5	E
21/7/2026 4:00	3.4	SE
21/7/2026 5:00	2.8	SE

Date	Wind Speed (m/s)	Wind Direction
21/7/2026 6:00	2.7	SE
21/7/2026 7:00	2.9	S
21/7/2026 8:00	3.9	SE
21/7/2026 9:00	3.9	SE
21/7/2026 10:00	4.3	SE
21/7/2026 11:00	3.2	SW
21/7/2026 12:00	1.7	NE
21/7/2026 13:00	1.8	W
21/7/2026 14:00	1.8	E
21/7/2026 15:00	1.8	E
21/7/2026 16:00	1.8	S
21/7/2026 17:00	1.8	E
21/7/2026 18:00	1.8	NE
21/7/2026 19:00	2.8	E
21/7/2026 20:00	2.2	E
21/7/2026 21:00	2.1	SE
21/7/2026 22:00	2.1	NE
21/7/2026 23:00	1.9	N
21/7/2026 0:00	1.9	N
22/7/2026 1:00	1.9	E
22/7/2026 2:00	1.9	NE
22/7/2026 3:00	1.9	N
22/7/2026 4:00	1.9	NE
22/7/2026 5:00	1.7	NW
22/7/2026 6:00	1.7	E
22/7/2026 7:00	1.8	NE
22/7/2026 8:00	2.9	SE

Date	Wind Speed (m/s)	Wind Direction
22/7/2026 9:00	3.1	SE
22/7/2026 10:00	3.8	SE
22/7/2026 11:00	4.7	SE
22/7/2026 12:00	5.1	SE
22/7/2026 13:00	3.0	S
22/7/2026 14:00	3.1	SW
22/7/2026 15:00	3.7	SE
22/7/2026 16:00	2.8	SE
22/7/2026 17:00	3.9	E
22/7/2026 18:00	4.0	S
22/7/2026 19:00	3.2	E
22/7/2026 20:00	4.0	SE
22/7/2026 21:00	3.3	SE
22/7/2026 22:00	2.5	SE
22/7/2026 23:00	1.8	NE
22/7/2026 0:00	2.5	SE
23/7/2026 1:00	3.5	SE
23/7/2026 2:00	2.1	SE
23/7/2026 3:00	2.8	SE
23/7/2026 4:00	2.8	E
23/7/2026 5:00	2.8	E
23/7/2026 6:00	2.8	SE
23/7/2026 7:00	3.2	NE
23/7/2026 8:00	2.9	NE
23/7/2026 9:00	2.5	SE
23/7/2026 10:00	3.7	E
23/7/2026 11:00	3.2	E

Date	Wind Speed (m/s)	Wind Direction
23/7/2026 12:00	2.4	W
23/7/2026 13:00	4.8	W
23/7/2026 14:00	5.2	W
23/7/2026 15:00	4.2	SW
23/7/2026 16:00	2.3	SE
23/7/2026 17:00	3.5	S
23/7/2026 18:00	3.9	SE
23/7/2026 19:00	4.4	SE
23/7/2026 20:00	3.5	E
23/7/2026 21:00	3.5	SE
23/7/2026 22:00	2.0	E
23/7/2026 23:00	2.4	E
23/7/2026 0:00	3.2	SE
24/7/2026 1:00	3.3	SE
24/7/2026 2:00	1.8	E
24/7/2026 3:00	1.7	W
24/7/2026 4:00	1.9	SE
24/7/2026 5:00	2.8	E
24/7/2026 6:00	2.8	SE
24/7/2026 7:00	1.8	NE
24/7/2026 8:00	1.9	N
24/7/2026 9:00	3.0	W
24/7/2026 10:00	3.0	W
24/7/2026 11:00	4.0	W
24/7/2026 12:00	3.4	W
24/7/2026 13:00	2.6	NW
24/7/2026 14:00	2.7	W

Date	Wind Speed (m/s)	Wind Direction
24/7/2026 15:00	3.5	W
24/7/2026 16:00	2.9	W
24/7/2026 17:00	3.5	NW
24/7/2026 18:00	3.3	W
24/7/2026 19:00	2.9	S
24/7/2026 20:00	3.1	SE
24/7/2026 21:00	2.9	S
24/7/2026 22:00	1.8	SW
24/7/2026 23:00	2.8	SE
24/7/2026 0:00	1.8	SE
25/7/2026 1:00	2.8	E
25/7/2026 2:00	2.8	E
25/7/2026 3:00	1.8	SE
25/7/2026 4:00	2.8	SE
25/7/2026 5:00	2.8	SE
25/7/2026 6:00	2.8	W
25/7/2026 7:00	2.9	E
25/7/2026 8:00	2.9	NW
25/7/2026 9:00	1.9	N
25/7/2026 10:00	1.9	NE
25/7/2026 11:00	3.1	NW
25/7/2026 12:00	3.6	W
25/7/2026 13:00	4.0	W
25/7/2026 14:00	4.4	W
25/7/2026 15:00	4.7	NW
25/7/2026 16:00	2.3	SE
25/7/2026 17:00	2.8	NE

Date	Wind Speed (m/s)	Wind Direction
25/7/2026 18:00	2.8	N
25/7/2026 19:00	2.8	W
25/7/2026 20:00	3.1	W
25/7/2026 21:00	3.9	NW
25/7/2026 22:00	4.4	NW
25/7/2026 23:00	4.8	W
26/7/2026 0:00	6.4	NW
26/7/2026 1:00	7.5	W
26/7/2026 2:00	6.0	NW
26/7/2026 3:00	6.1	NW
26/7/2026 4:00	4.1	SW
26/7/2026 5:00	3.6	W
26/7/2026 6:00	5.2	W
26/7/2026 7:00	2.0	W
26/7/2026 8:00	3.6	NW
26/7/2026 9:00	4.0	W
26/7/2026 10:00	2.4	SW
26/7/2026 11:00	4.1	SW
26/7/2026 12:00	4.6	W
26/7/2026 13:00	3.1	W
26/7/2026 14:00	2.8	SW
26/7/2026 15:00	3.0	NW
26/7/2026 16:00	1.7	SW
26/7/2026 17:00	2.8	S
26/7/2026 18:00	2.8	W
26/7/2026 19:00	3.3	S
26/7/2026 20:00	3.8	E

Date	Wind Speed (m/s)	Wind Direction
26/7/2026 21:00	2.8	S
26/7/2026 22:00	2.5	SW
26/7/2026 23:00	3.1	S
27/7/2026 0:00	2.0	S
27/7/2026 1:00	3.4	S
27/7/2026 2:00	3.7	SE
27/7/2026 3:00	2.5	S
27/7/2026 4:00	3.0	S
27/7/2026 5:00	3.6	S
27/7/2026 6:00	3.4	SE
27/7/2026 7:00	1.7	SW
27/7/2026 8:00	1.8	SW
27/7/2026 9:00	2.9	W
27/7/2026 10:00	2.9	S
27/7/2026 11:00	2.9	SW
27/7/2026 12:00	3.4	E
27/7/2026 13:00	2.2	E
27/7/2026 14:00	2.5	E
27/7/2026 15:00	3.0	E
27/7/2026 16:00	2.1	E
27/7/2026 17:00	2.9	NE
27/7/2026 18:00	2.9	E
27/7/2026 19:00	2.8	SW
27/7/2026 20:00	2.8	SW
27/7/2026 21:00	1.8	NE
27/7/2026 22:00	2.8	NE
27/7/2026 23:00	1.8	E

Date	Wind Speed (m/s)	Wind Direction
28/7/2026 0:00	2.8	SW
28/7/2026 1:00	2.8	SW
28/7/2026 2:00	1.7	W
28/7/2026 3:00	1.8	W
28/7/2026 4:00	2.8	SW
28/7/2026 5:00	2.8	SW
28/7/2026 6:00	2.8	S
28/7/2026 7:00	2.8	W
28/7/2026 8:00	2.9	E
28/7/2026 9:00	2.8	NW
28/7/2026 10:00	2.8	S
28/7/2026 11:00	2.8	S
28/7/2026 12:00	2.8	SW
28/7/2026 13:00	1.8	SW
28/7/2026 14:00	1.8	SE
28/7/2026 15:00	2.9	SW
28/7/2026 16:00	1.9	N
28/7/2026 17:00	1.9	W
28/7/2026 18:00	3.0	E
28/7/2026 19:00	1.8	W
28/7/2026 20:00	2.8	NW
28/7/2026 21:00	1.7	NW
28/7/2026 22:00	1.8	W
28/7/2026 23:00	2.9	E
29/7/2026 0:00	2.8	SW
29/7/2026 1:00	1.8	SW
29/7/2026 2:00	2.8	S

Date	Wind Speed (m/s)	Wind Direction
29/7/2026 3:00	2.8	NW
29/7/2026 4:00	1.7	NW
29/7/2026 5:00	2.8	SW
29/7/2026 6:00	1.7	SW
29/7/2026 7:00	2.8	S
29/7/2026 8:00	3.0	SW
29/7/2026 9:00	2.1	S
29/7/2026 10:00	1.7	SE
29/7/2026 11:00	1.7	NE
29/7/2026 12:00	1.7	SE
29/7/2026 13:00	1.7	SE
29/7/2026 14:00	1.7	E
29/7/2026 15:00	1.8	E
29/7/2026 16:00	1.8	SE
29/7/2026 17:00	1.7	SE
29/7/2026 18:00	2.8	SE
29/7/2026 19:00	3.4	SE
29/7/2026 20:00	2.8	SE
29/7/2026 21:00	2.8	E
29/7/2026 22:00	2.8	NE
29/7/2026 23:00	2.6	SE
30/7/2026 0:00	2.8	SE
30/7/2026 1:00	1.7	E
30/7/2026 2:00	1.8	SE
30/7/2026 3:00	3.2	E
30/7/2026 4:00	3.2	SE
30/7/2026 5:00	2.9	N

Date	Wind Speed (m/s)	Wind Direction
30/7/2026 6:00	3.3	SW
30/7/2026 7:00	2.0	SE
30/7/2026 8:00	1.9	S
30/7/2026 9:00	2.6	S
30/7/2026 10:00	3.0	SE
30/7/2026 11:00	3.6	SE
30/7/2026 12:00	3.1	NE
30/7/2026 13:00	2.5	SE
30/7/2026 14:00	3.0	SE
30/7/2026 15:00	3.6	SE
30/7/2026 16:00	2.4	SE
30/7/2026 17:00	1.8	NE
30/7/2026 18:00	1.7	NE
30/7/2026 19:00	1.7	SE
30/7/2026 20:00	1.7	SE
30/7/2026 21:00	1.7	E
30/7/2026 22:00	1.8	E
30/7/2026 23:00	1.8	SE
31/7/2026 0:00	1.7	SE
31/7/2026 1:00	2.8	SE
31/7/2026 2:00	3.4	SE
31/7/2026 3:00	2.8	SE
31/7/2026 4:00	2.8	E
31/7/2026 5:00	2.8	NE
31/7/2026 6:00	2.6	SE
31/7/2026 7:00	2.8	SE
31/7/2026 8:00	1.7	E

Date	Wind Speed (m/s)	Wind Direction
31/7/2026 9:00	1.8	SE
31/7/2026 10:00	3.2	E
31/7/2026 11:00	3.2	SE
31/7/2026 12:00	2.9	N
31/7/2026 13:00	3.3	SW
31/7/2026 14:00	2.0	SE
31/7/2026 15:00	1.9	S
31/7/2026 16:00	2.6	S
31/7/2026 17:00	3.0	SE
31/7/2026 18:00	3.6	SE
31/7/2026 19:00	3.1	NE
31/7/2026 20:00	2.5	SE
31/7/2026 21:00	3.0	SE
31/7/2026 22:00	3.6	SE
31/7/2026 23:00	2.4	SE
1/8/2026 0:00	1.8	NE

Appendix H

Event and Action Plan

Event and Action Plan for Air Quality (Construction Dust)

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

Event and Action Plan for Noise (Construction)

Event	Action			
	ET	IEC	ER	Contractor
Action Level	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analyzed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; and 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; and 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; 4. Ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event and Action Plan for Water Quality Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action level being exceeded by one sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD.	1. Confirm receipt of notification of exceedance in writing	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice
Action level being exceeded by two or more consecutive sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Consider changes of working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented. 4. Request Contractor(s) to critically review the working methods.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Critically review the need to change working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures.
Limit level being exceeded by two or more consecutive sampling	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD and AFCD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented. 4. Request Contractor(s) to critically review the working methods.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Critically review the need to change working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures.

Event and Action Plan for Ecology Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analyzed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; and 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; and 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix I

Waste Flow Table

Monthly Summary Waste Flow Table July 2026

Month	Total Quantity Generated (see Note 4) (A)	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-Inert C&D Wastes Generated Monthly				
		Hard Rock and Large Broken Concrete (B)	Reused in the Contract (C)	Reused in other Projects (D)	Disposed as Public Fill (see Note 6) (E)	Imported Fill (F)	Metals (G) (see Note 6)	Paper/ cardboard packaging (H)	Plastics (see Note 2) (I)	Chemical Waste (J)	Others, e.g. general refuse# (K)
		(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Up to 2025	393,357.57	195.71	0.00	0.00	383,600.81	13,520.69	4,375.30	6.0944	0.0593	1.18	5,178.42
Jan 2026	740.99	0.00	0.00	0.00	469.63	0.00	0.00	0.1497	0.0000	0.00	271.21
Feb 2026	389.27	0.00	0.00	0.00	224.78	0.00	0.00	0.1209	0.0102	0.00	164.35
Mar 2026	2,060.41	0.00	0.00	0.00	1,801.59	0.00	0.00	0.0000	0.0000	0.00	258.82
Apr 2026	1,871.48	0.00	0.00	0.00	1,593.98	0.00	0.00	0.2329	0.0054	0.00	277.26
May 2026	2,214.86	0.00	0.00	0.00	1,980.90	0.00	0.00	0.0000	0.0000	0.18	233.78
Jun 2026	736.09	0.00	0.00	0.00	576.78	0.00	0.00	0.1709	0.0067	0.00	159.13
Jul 2026	5,753.96	0.00	0.00	0.00	5,556.66	0.00	0.00	0.00	0.00	0.00	197.30
Aug 2026											
Sept 2026											
Oct 2026											
Nov 2026											
Dec 2026											
Sub-total	13,767.05	0.00	0.00	0.00	12,204.32	0.00	0.01	0.6744	0.0223	0.18	1,561.85

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) Updated figures are presented during the reporting month.
(4) $A=B+C+D+E+G+H+I+J+K$
(5) Disposal Records to Government facilities till 1st August 2026
(6) Data may be continuously updated due to receipt timing.

Remark:

Sources/ reference of the waste flow data; From the Contractor

Monthly Summary Waste Flow Table July 2026

Month	Total Quantity Generated (see Note 4) (A)	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-Inert C&D Wastes Generated Monthly				
		Hard Rock and Large Broken Concrete (B)	Reused in the Contract (C)	Reused in other Projects (D)	Disposed as Public Fill (see Note 6) (E)	Imported Fill (F)	Metals (G) (see Note 6)	Paper/ cardboard packaging (H)	Plastics (see Note 2) (I)	Chemical Waste (J)	Others, e.g. general refuse# (K)
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Up to 2025	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Jan 2026	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Feb 2026	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Mar 2026	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Apr 2026	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
May 2026	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Jun 2026	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Jul 2026	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Aug 2026											
Sept 2026											
Oct 2026											
Nov 2026											
Dec 2026											
Sub-total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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) Updated figures are presented during the reporting month.
- (4) $A=B+C+D+E+G+H+I+J+K$
- (5) Disposal Records to Government facilities till 1st August 2026
- (6) Data may be continuously updated due to receipt timing.

Remark:

Sources/ reference of the waste flow data; From the Contractor

Appendix J

Implementation Status of Environmental Mitigation Measures

Construction of Yuen Long Effluent Polishing Plant Stage 1

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
Air Quality Impact (Construction Phase)			
3.6.1.6	Watering once per every two hours on active works areas to reduce dust emission.	All active works areas during construction phase	Implemented
3.8.1.1	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices listed below shall be carried out to further minimize construction dust impact:		
	Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.	Construction Sites	Implemented
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs.		Implemented
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.		Implemented
	Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.		Implemented
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.		Implemented
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.		Implemented
	Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.		N/A
	Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit.		Implemented
	Imposition of speed controls for vehicles on site haul roads.		Implemented
	Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.		Implemented
	Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.		Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
Noise Impact (Construction Phase)			
4.8.1	Movable noise barriers are recommended for hydraulic breakers mounted on excavators to be adopted during construction.	Construction Sites	N/A
	Good site practices listed below and the noise control requirements stated in EPD’s “Recommended Pollution Control Clauses for Construction Contracts” should be included in the Contract Specification for the Contractors to follow and should be implemented to further minimize the potential noise impacts during the construction phase of the Project.		Implemented
	Quiet PME, such that those listed in EPD’s Quality Powered Mechanical Equipment, should be considered for construction works to further minimize the potential construction noise impact.		Implemented
	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.		Implemented
	Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme.		Implemented
	Mobile plant, if any, should be sited as far away from noise sensitive receivers (NSRs) as possible.		N/A
	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.		Implemented
	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		N/A
	Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.		N/A
Water Quality Impact (Construction Phase)			
5.8.1.2	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities	Construction Sites / Construction Phase	Implemented
5.8.1.3	All vehicles and plant should be cleaned before they leave a construction site to minimise the deposition of earth, mud, debris on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Construction Sites / Construction Phase	Implemented
5.8.1.4	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	Construction Sites / Construction Phase	Implemented
5.8.1.5 - 5.8.1.6	The site practices outlined in ProPECC PN 1/94 “Construction Site Drainage” should be followed where applicable to minimise surface run-off and the chance of erosion. Surface run-off from construction sites should be discharged into storm drains via adequately designed sand / silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided as necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	Construction Sites / Construction Phase	Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
5.8.1.7	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly (as well as at the onset of and after each rainstorm) to prevent overflows and localised flooding.	Construction Sites / Construction Phase	Implemented
5.8.1.8	Construction works should be programmed to minimise soil excavation in the wet season (i.e. April to September). If soil excavation cannot be avoided in these months or at any time of year when rainstorms are likely, temporarily exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm run-off from washing across exposed soil surfaces.	Construction Sites / Construction Phase	Implemented
5.8.1.9	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary	Construction Sites / Construction Phase	Implemented
5.8.1.10	Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in the wet season is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Construction Sites / Construction Phase	Implemented
5.8.1.11	Construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms	Construction Sites / Construction Phase	Implemented
5.8.1.12	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Construction Sites / Construction Phase	Implemented
5.8.1.13	The practices outlined in Environment, Transport and Works Bureau (ETWB) TC (Works) No. 5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works" should also be adopted where applicable to minimise the water quality impacts upon any natural streams or surface water systems.	Construction Sites / Construction Phase	Implemented
5.8.1.14	Sufficient chemical toilets should be provided in the works areas. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis.	Construction Sites / Construction Phase	Implemented
5.8.1.15	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment.	Construction Sites / Construction Phase	Implemented
5.8.1.16	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The WDO (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied with for control of chemical wastes.	Construction Sites / Construction Phase	Implemented
5.8.1.17	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Construction Sites / Construction Phase	N/A
5.8.1.18	Disposal of chemical wastes should be carried out in compliance with the WDO. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the WDO should be followed to avoid leakage or spillage of chemicals.	Construction Sites / Construction Phase	Implemented
5.8.1.19	All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS).	Construction Sites / Construction Phase	Implemented
5.8.2.11	Chemical should be stored on site at bunded area and separate drainage system as appropriate should be provided to avoid any spilled chemicals from entering the storm drain in case of accidental spillage. Also, adequate tools for cleanup of spilled chemicals should be stored on site and appropriate training shall be provided to staffs to further prevent potential adverse water quality impacts from happening.	Project site / Design and Operation Phase	Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
Waste Management Implication (Construction Phase)			
6.6.1.3	<u>Good Site Practices</u> Recommendations for good site practices during the construction phase 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;	Construction Sites	Implemented
	Training of site personnel in proper waste management and chemical waste handling procedures;		Implemented
	Provision of sufficient waste reception/ disposal points, of a suitable vermin-proof design that minimises windblown litter;		N/A
	Arrangement for regular collection of waste for transport off-site and final disposal;		Implemented
	Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;		Implemented
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;		Implemented
	A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed; and		Implemented
	A WMP should be prepared and should be submitted to the Engineer for approval. One may make reference to ETWB TCW No. 19/2005 for details.		Implemented
6.6.1.5	<u>Waste Reduction Measures</u> Recommendations to achieve waste reduction include:		
	Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Construction Sites	Implemented
	Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors;		Implemented
	Any unused chemicals or those with remaining functional capacity shall be recycled;		N/A
	Maximising the use of reusable steel formwork to reduce the amount of C&D material;		Implemented
	Prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;		Implemented
	Adopt proper storage and site practices to minimise the potential for damage to, or contamination of, construction materials;		Implemented
	Plan the delivery and stock of construction materials carefully to minimise the amount of surplus waste generated;		N/A
	Adopt pre-cast construction method instead of cast-in-situ method for construction of concrete structures as much as possible; and		N/A
Minimise over ordering of concrete, mortars and cement grout by doing careful check before ordering.	N/A		

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
6.6.1.7	<u>Storage of Waste</u> Recommendations to minimise the impacts include:	Construction Sites	
	Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimising the potential of pollution;		Implemented
	Maintain and clean storage areas routinely;		Implemented
	Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and		Implemented
	Different locations should be designated to stockpile each material to enhance reuse.		Implemented
6.6.1.8	<u>Collection of Waste</u> Licensed waste haulers should be employed for the collection and transportation of waste generated. The following measures should be enforced to minimise the potential adverse impacts:	Construction Sites	
	Remove waste in timely manner;		Implemented
	Waste collectors should only collect wastes prescribed by their permits;		Implemented
	Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers;		Implemented
	Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the WDO (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28);		Implemented
	Waste should be disposed of at licensed waste disposal facilities; and		Implemented
	Maintain records of quantities of waste generated, recycled and disposed.		Implemented
6.6.1.10	<u>Transportation of Waste</u> In order to monitor the disposal of C&D materials at PFRFs and landfills and to control fly-tipping, a trip-ticket system should be established in accordance with DEVB TCW No. 6/2010. A recording system for the amount of waste generated, recycled and disposed, including the disposal sites, should also be set up. Warning signs should be put up to remind the designated disposal sites. CCTV should be installed at the vehicular entrance and exit of the site as additional measures to prevent fly-tipping.	Transportation Route of Waste / Construction Phase	Implemented
6.6.1.12	<u>Construction and Demolition Material</u> Careful design, planning together with good site management can reduce over-ordering and generation of C&D materials such as concrete, mortar and cement grouts. Formwork should be designed to maximize the use of standard wooden panels, so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse	Construction Sites	N/A
6.6.1.13	The excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below:	Construction Sites	
	A WMP, which becomes part of the EMP, should be prepared in accordance with ETWB TCW No.19/2005;		Implemented
	A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and		Implemented
	In order to monitor the disposal of C&D materials at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to DEVB TCW 06/2010).		Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
6.6.1.14	It is recommended that specific areas should be provided by the Contractors for sorting and to provide temporary storage areas (if required) for the sorted materials. Control measures for temporary stockpiles on-site should be taken in order to minimise the noise, generation of dust and pollution of water. These measures include:	Construction Sites	
	Surface of stockpiled soil should be regularly wetted with water especially during dry season;		Implemented
	Disturbance of stockpile soil should be minimised;		Implemented
	- Stockpiled soil should be properly covered with tarpaulin especially when heavy storms are predicted; and - Stockpiling areas should be enclosed where space is available.		Implemented
6.6.1.15	The Contactor should prepare and implement an EMP in accordance with ETWB TCW No.19/2005, which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from construction activities. Such a management plan should incorporate site-specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor, preferably on a monthly basis.	Construction Sites	Implemented
6.6.1.16	The Contractor would be responsible for devising a system to work for on-site sorting of C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimise temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.	Construction Sites	Implemented
6.6.1.17 – 6.6.1.18	The sediment should be excavated, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. To minimise sediment disposal, it is proposed to reuse the Type 1 sediment generated (e.g. as backfilling materials) as far as possible. Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, transportation and disposal of the sediment.	Construction Sites	N/A
6.6.1.19	Workers shall, if necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site.	Construction Sites	Implemented
6.6.1.20	For off-site disposal, the basic requirements and procedures specified under ETWB TC(W) No. 34/2002 shall be followed.	Transportation Route of Waste / Construction Phase	Implemented
6.6.1.24	Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiles should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO).	Construction Sites	Implemented
6.6.1.25	In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.	Construction sites & transportation route of waste / Construction phase	N/A
6.6.1.26	The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.	Transportation route of waste / Construction phase	N/A

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
6.6.1.27	Suitable containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall employ a licensed collector to transport and dispose of the chemical wastes, to the licensed CWTC, or other licensed facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Construction and Operation Phases	Implemented
6.6.1.28	It is recommended to place clearly labelled recycling bins at designated locations with convenient access. Other general refuse should be separated from chemical and industrial waste by providing separated bins or skips for storage to maximise the recyclable volume. A reputable licensed waste collector should be employed to remove general refuse on a daily basis to minimise odour, pest and litter impacts.	Construction and Operation Phases	Implemented
6.6.1.29	Should buildings be found with potential ACM, sufficient and reasonable lead time shall be allowed for preparation, vetting and implementation of Asbestos Investigation Report and Asbestos Abatement Plan in accordance with Air Pollution Control Ordinance before commencement of any demolition or site clearance work.	Demolition	N/A
Land Contamination			
7.8.1.2 - 7.8.1.3; 7.8.2.1	Prior to the commencement of the SI works, a review of the Contamination Assessment Plan (CAP) should be conducted to confirm whether the proposed SI works (e.g. sampling locations, testing parameters etc.) are still valid. Supplementary CAP(s), presenting findings of the review, the latest site conditions and updated sampling strategy and testing protocol, should be submitted to EPD for endorsement. The SI works should be carried out according to EPD's agreed supplementary CAP(s). SI works should be carried out according to the supplementary CAP endorsed by EPD. Following completion of SI works and receipt of laboratory test results, Contamination Assessment Report(s) ((CAR)(s)) should be prepared to present the findings of the SI works and to discuss the presence, nature and extent of contamination. If contamination is identified, Remedial Action Plan(s) ((RAP)(s)) which provides details of the remedial actions for the identified contaminated soil and / or groundwater should be endorsed by EPD. The possible remediation methods are detailed in Section 5.2 of the CAP provided in Appendix 7.1 of the EIA Report, Remediation action, if necessary, will be carried out according to EPD endorsed RAP(s) and Remediation Report(s) (RR(s)) will be submitted after completion of the remediation action. The RR(s) should be endorsed by EPD prior to the commencement of construction works at the respective identified contaminated areas (if any).	Existing YLSTW /Construction Phase (after decommissioning of the concerned facilities / areas but prior to the construction works at the concerned facilities / areas)	Implemented
7.8.3.1	The mitigation measures will be recommended in the RAP and would typically include the following:		
	Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety;	Project Site / Construction Phase	Implemented
	Excavation shall be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils; Supply of suitable clean backfill material (or treated soil) after excavation;		N/A
	Stockpiling site(s) shall be lined with impermeable sheeting and bunded. Stockpiles shall be fully covered by impermeable sheeting to reduce dust emission. If this is not practicable due to frequent usage, regular watering shall be applied. However, watering shall be avoided on stockpiles of contaminated soil to minimise contaminated runoff.		Implemented
	Vehicles containing any excavated materials shall be suitably covered to limit potential dust emissions or contaminated wastewater run-off, and truck bodies and tailgates shall be sealed to prevent any discharge during transport or during wet conditions;		Implemented
	Speed control for the trucks carrying contaminated materials shall be enforced;		Implemented
	Vehicle wheel and body washing facilities at the site's exist points shall be established and used; and		Implemented
	Pollution control measures for air emissions (e.g. from biopile blower and handling of cement), noise emissions (e.g. from blower or earthmoving equipment), and water discharges (e.g. runoff control from treatment facility) shall be implemented and complied with relevant regulations and guidelines.		Implemented

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
Ecological Impact (Terrestrial and Aquatic) (Construction Phase)			
8.10.2.1	<u>Avoidance of Recognised Site of Conservation Importance</u> Construction works are designed to be confined to the boundary of the existing YLSTW that direct impacts on all other sites of conservation importance within the assessment area, including the Ramsar Site, Priority Site, WCA, WBA, SSSI and CA would be avoided.	Project site / Construction Phase	Implemented
8.10.2.3 – 8.10.2.4	<u>Avoidance of Demolition Works Using Breakers Mounted on Excavators and Percussive Piling during Dry Season</u> In order to minimise the construction noise disturbance on overwintering waterbirds, the noisy construction works, i.e. all percussive piling works and demolition using breakers mounted on excavators, would therefore be scheduled outside the dry season (i.e. November to March, which is the peak overwintering period of waterbirds).	Construction sites / Construction Phase	Implemented
8.10.2.5	<u>Restriction of Construction Hours</u> No construction activities with the use of PME should be conducted within 100m from any night roost confirmed by the pre-construction survey after 18:00 during wet season and 17:30 during dry season to avoid disturbance to the nearby ardeids night roosts.	Construction sites / Construction Phase	Implemented
8.10.3.2 – 8.10.3.3	<u>Minimising Construction Noise Disturbance Impacts through Consideration of Alternative Construction Methods</u> Demolition using concrete crusher is quieter than demolition using breaker that its construction noise level is comparable to other general construction activities and concrete crusher would be used for demolition works to be undertaken during dry season months. The quieter foundation methods, including bored piling, raft foundation and shallow foundation, would be adopted as far as possible.	Construction sites / Construction Phase	Implemented
8.10.3.4 – 8.10.3.5	<u>Minimising Construction Noise Disturbance Impacts Through Careful Phasing of Construction Activities</u> Percussive piling works and demolition using breakers mounted on excavators would typically be completed over two wet seasons and not be undertaken in the same construction zone at the same time to localise the construction disturbance and to reduce the duration of high level of disturbances on sensitive wetland habitats and associated waterbirds nearby each construction zone. Facilities in the eastern side of the Project site (i.e. Phase 1A and Phase 1B) are scheduled to be developed first that the new structures could screen the works in the middle and western parts of the site in later stage of the construction phase after the structures in Phase 1A and Phase 1B are completed, hence minimising the construction noise and human disturbance on sensitive wetland habitats adjacent to the Project site in Shan Pui River, including the confluence of Shan Pui River and Kam Tin River and ardeid night roost to the immediate east of the Project site.	Project site / Construction Phase	Implemented
8.10.3.6 – 8.10.3.8	<u>Minimising Construction Noise Disturbance Impacts through Use of Noise Barriers</u> Noise barriers with absorptive materials of about 4m high will be erected along the northern, eastern and western sides of the site, throughout the construction phase to screen the construction noise and human disturbance to the waterbirds foraging in ponds in Fung Lok Wai and Shan Pui River during construction phase. Adequate noise barriers should also be provided for demolition works using breakers mounted on excavators and percussive piling works, to further minimise the construction noise disturbance from these construction activities. Movable noise barriers should be provided to breaker mounted on excavator used for demolition works as discussed in Section 4.8 and acoustic mat should be provided to the piling plants around the rig. The contractor should provide enclosure for construction equipment, especially static plants, as appropriate to minimise the noise disturbance as far as practicable.	Construction sites / Construction Phase	Implemented
8.10.3.9	<u>Use of Quality Powered Mechanical Equipment</u> The contractor should source QPMEs for construction as far as practicable to further minimise the overall construction noise and other disturbance to the nearby wetland habitats and associated waterbirds to the maximum practical extent.	Construction sites / Construction Phase	Implemented
Ecology & Fisheries Impact			
8.12.1.4, 9.7	Groundwater observation wells and recharge wells will be provided at the northern and western side of the site. Groundwater table will be closely monitored at the observation well. In case of any unlikely events of abnormal drawdown of groundwater table near the excavation area, groundwater dewatering will stop and water will be pumped into the recharge wells to recover the normal groundwater table as necessary.	Construction Phase	N/A

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
Fisheries Impact			
9.7	The implementation of good site practices during construction could minimise the potential water quality impacts from the land-based construction works. Mitigation measures recommended in the Water Quality Impact Assessment (Section 5) for controlling water quality impact would also serve to protect fisheries resources and activities from indirect impacts.	Construction and Operation Phase	N/A
Landscape and Visual Impact			
Table 10.11	<u>Preservation of Existing Vegetation (CM1)</u> All the existing Trees to be retained and not to be affected by the Project shall be carefully protected during construction accordance with DEVB TCW No. 7/2015 - Tree Preservation and the latest Guidelines on Tree Preservation during Development issued by GLTM Section of DevB. Any existing vegetation in landscaped areas and natural terrain not to be affected by the Project shall be carefully preserved.	Project site / Construction Phase	Implemented
	<u>Transplanting of Affected Trees (CM2)</u> Trees unavoidably affected by the works shall be transplanted as far as possible in accordance with DEVB TCW No. 7/2015 - Tree Preservation and the latest Guidelines on Tree Transplanting issued by GLTM Section of DevB.	Project site / Construction Phase	Implemented
	<u>Compensatory Tree Planting (CM3)</u> Any trees to be felled under the Project shall be compensated in accordance with DEVB TCW No. 7/2015 - Tree Preservation. For trees to be compensated on slopes, the guidelines for tree planting stipulated in GEO Publication No. 1/2011 will be followed.	Project site / Construction Phase	N/A
	<u>Control of Night-time Lighting Glare (CM4)</u> All the night time lighting shall be avoided except for safety purpose. No light glare shall illuminate directly outside the site.	Project site / Construction Phase	Implemented
	<u>Erection of Decorative Screen Hoarding (CM5)</u> Site hoardings, if any, shall be painted in dull green colour	Project site / Construction Phase	Implemented
	<u>Management of Construction Activities and Facilities (CM6)</u> Construction activities shall be well scheduled and avoid powered mechanical equipment's operating simultaneously. All stockpiling areas and idled area shall be covered by tarpaulin sheet or hydroseeded as far as possible.	Project site / Construction Phase	Implemented
Hazard to Life (Construction Phase)			
11.5.6.9- 11.5.6.12	Implementation of those major construction works and movement of plants and vehicles would be stringently controlled to have a setback of at least 15m clear distance, or physical barrier with an empty digester / gas holder from the digesters / gas holders in operation;	Project site / Construction Phase	N/A
	For those construction works to be carried out in close proximity to the 15m zone from digesters / gas holders in operation, the height of plants for those major construction shall be limited to 15m such that the plants would not damage digesters /gas holders in such incident as plant collapse or overturning;		N/A
	Whenever practicable, the construction sequence shall be arranged with empty unit(s) for separating the major construction works from these digesters / gas holders in use; and		N/A
	Physical barriers such as concrete blocks shall be set up at the 15m zone in order to avoid those construction plants or vehicles from colliding to the digester / gas holder units in use.		N/A

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
11.5.8	Method statements and risk assessments shall be prepared and safety control measures shall be in place before commencement of work	Project site / Construction Phase	Implemented
	All work procedures shall be complied with the operating plant procedures or guidelines and regulatory requirements;		Implemented
	Work permit system, on-site pre-work risk assessment and emergency response procedure shall be in place before commencement of work;		Implemented
	All construction workers shall equip with appropriate personal protective equipment (PPE) when working at the Project Site;		Implemented
	Safety training and briefings shall be provided to all construction workers;		Implemented
	Regular site safety inspections shall be conducted during the construction phase of the Project;		Implemented
11.9.1.2	Ensure speed limit enforcement is specified in the contractor's method statement to limit the speed of construction vehicles onsite;	Project site / Construction Phase	Implemented
	Conduct speed checks to ensure enforcement of speed limits and to ensure adequate site access control;		N/A
	A lifting plan, with detailed risk assessment, should be prepared and endorsed for heavy lifting of large equipment;		Implemented
	Vehicle crash barriers should be provided between the construction site and the operating biogas facilities;		N/A
	Ensure that a hazardous area classification study is conducted and hazardous area maps are updated before the start of the construction activities to ensure ignition sources are controlled during both construction and operation phases;		Implemented
	Ensure work permit system for hot work activities within the Project Site is specified in the contractor's method statement to minimize and control the ignition sources during the construction phase;		Implemented
	Ensure effective communication system / protocol is in place between the contractors and the operation staff;		Implemented
	Ensure the Project Construction Emergency Response Plan is integrated with the Emergency Response Plan for the YLEPP during construction phase. The plan should address stop work instructions to be promptly communicated to all construction workers performing hot works in case a confirmed biogas detection at the Project Site;		Implemented
	Ensure that the construction activities do not impede the functions of fire and gas detection system, fire protection system, muster areas, fire-fighting vehicle access and escape routes;		Implemented
	Ensure a Job Safety Analysis is conducted for construction activities of the Project during the construction phase, to identify and analyze hazards associated with the construction activities (e.g. lifting operations by cranes) onto the operating biogas facilities.		Implemented
	Potential risks of the construction activities shall be assessed, and risk precautionary measures shall be implemented in Contractor's works procedures.		Implemented

Note:

Implementation status: Implemented / Partially Implemented / Not Implemented / Not Applicable (N/A)

Sources / reference of the Implementation Status: Appendix B of EIA Report, AEIAR-220/2019

Appendix K

Weather and Meteorological Conditions

June 2026 Weather

Station: Wetland Park

Date	Mean Pressure (hPa)	Air Temperature			Mean Relative Humidity (%)	Total Rainfall (mm)
		Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)		
June 2026						
1	1008.5	33.2	28.8	25.5	79	0
2	1006.2	35.6	29.9	27.1	81	0
3	1004.1	33.9	29.9	27.6	81	0
4	1003	36.1	30.8	26.6	77	1
5	1003.8	36	31	27.8	75	0
6	1005.7	31.3	27.4	24.9	90	37
7	1005	34	27.9	25.2	92	9.5
8	1002.3	31.1	27.6	24.8	92	40
9	1003.2	27.9	26.1	24.8	85	0.5
10	1008.4	28.5	25.7	23.8	79	0
11	1011.5	30.7	26.7	24.4	82	0
12	1012	31.6	26.8	24.3	86	0.5
13	1008.3	31.8	27	24.8	93	33.5
14	1004.6	30.8	29.2	26.9	86	1
15	1005.5	31.3	26.9	24.5	95	35.5
16	1007.2	26.8	25.5	24.9	98	82
17	1008.6	27.9	25.9	24.6	95	3.5
18	1008.9	26.7	25.2	23.8	99	185.5
19	1008.4	32.3	28.7	26.1	89	2.5
20	1009.4	32.8	29.2	27	85	0
21	1009.5	33.6	29.2	26.3	84	0
22	1006.2	34.1	29.8	26.3	81	0
23	1003.5	33.6	30.1	27.6	81	0
24	1003	34.5	30.7	28.1	82	0
25	1003.6	33.3	30.4	26.1	81	0
26	1004.3	33	27.5	26.1	92	5
27	1004	31.2	28.3	25.9	89	0
28	1004.9	28.9	26.7	25.4	97	34.5
29	1006.5	33.4	28	25.3	89	15.5
30	1007.8	33	28	25.9	88	2

Note (From Hong Kong Observatory):

1. Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected
2. # data incomplete

Source: Hong Kong Observatory

July 2026 Weather

Station: Hong Kong Observatory

Date	Mean Pressure (hPa)	Air Temperature			Mean Relative Humidity (%)	Total Rainfall (mm)
		Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)		
July 2026						
1	1007.9	33.5	30.3	28.2	80	Trace
2	1009.1	32.2	30	27.5	82	6
3	1009.9	31	28.8	26.9	84	14.2
4	1009.4	32.6	28.8	27.2	84	12.8
5	1008.8	33	30	27.7	79	4.5
6	1007.5	31.6	28.7	25.4	83	72.9
7	1007.2	28.6	26.9	25.7	91	66
8	1006.5	31.8	28.4	25.3	86	30.8
9	1005.2	31.8	29.4	27.9	81	0.1
10	1003	33.1	29.8	26.6	76	3.7
11	998.8	34.2	30.4	27.8	75	-
12	999.6	34.5	31.1	29	78	-
13	1002.5	33.8	30.5	28.7	77	0.2
14	1003.1	28.8	27.9	27	84	21.7
15	1006.2	28.8	27.1	25.7	89	47.6
16	1006.8	27.8	26.3	25.5	92	86.2
17	1006	30.3	27.9	25.8	88	31.4
18	1005.5	30.5	29.1	27.5	83	3.8
19	1005.5	30.6	29.3	28.4	80	Trace
20	1006	29.7	28.2	25.7	87	72.8
21	1007.6	30.9	28.7	26.4	84	13.6
22	1008.2	33.4	29.9	27.5	77	-
23	1007.2	33.4	30.3	28.4	75	Trace
24	1006.2	33.7	30.7	28.1	67	-
25	1002.3	34.5	30.1	26	72	3.6
26	997.5	28.3	26.1	24.6	87	109.2
27	1005.7	28.7	26.8	25.2	87	14.9
28	1009.4	29.5	27	25.1	89	46.7
29	1010.7	27.9	27	26	92	40.8
30	1010.6	28.8	26.9	24.6	89	15.9
31	1009.5	27.6	26	23.9	92	70.9

Note (From Hong Kong Observatory):
Trace means rainfall less than 0.05 mm

Source: Hong Kong Observatory

Remark: The corresponding weather station at Wetland Park were unavailable at the time of preparation of this report. The corresponding month's weather will be provided in the next reporting month.

Appendix L

Cumulative statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

Environmental Complaints Log

Reference	Date of Complaint	Received From	Received By	Nature of Complaint	Date of Investigation	Outcome	Date of Reply

Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

Cumulative Statistics on Notification of Summons and Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Notification of Summons and Prosecutions This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

Appendix M

Summary of the ET Leader's Site Environmental Audit in the Reporting Month

Summary of ET Leader's Site Environmental Audit in the Reporting Month

Contract DC/2019/10

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	NA		
Noise	NA		
Water Quality	NA		
Chemical and Construction Waste Management	8 July 2026	Reminder: Drip tray should be provided for fuel drum at SD.	Drip trap was provided for the fuel drum at SD.
Land Contamination	NA		
Ecological Impact	NA		
Landscape and Visual Impact	29 July 2026	Reminder: The broken branches should be pruned back to the union. Pruning shall follow "Guidelines on Tree Pruning" of GLTMS, DEVB (Dec 2023)	Broken part of the tree was removed.
Permit / Licenses	NA		
Others	NA		

Contract DE/2020/01

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	NA		
Noise	NA		
Water Quality	NA		
Chemical and Construction Waste Management	NA		
Land Contamination	NA		
Ecological Impact	NA		
Permit / Licenses	N/A		

Parameters	Date	Observations and Recommendations	Follow-up
Others	NA		

Appendix N

Outstanding Issues and Deficiencies

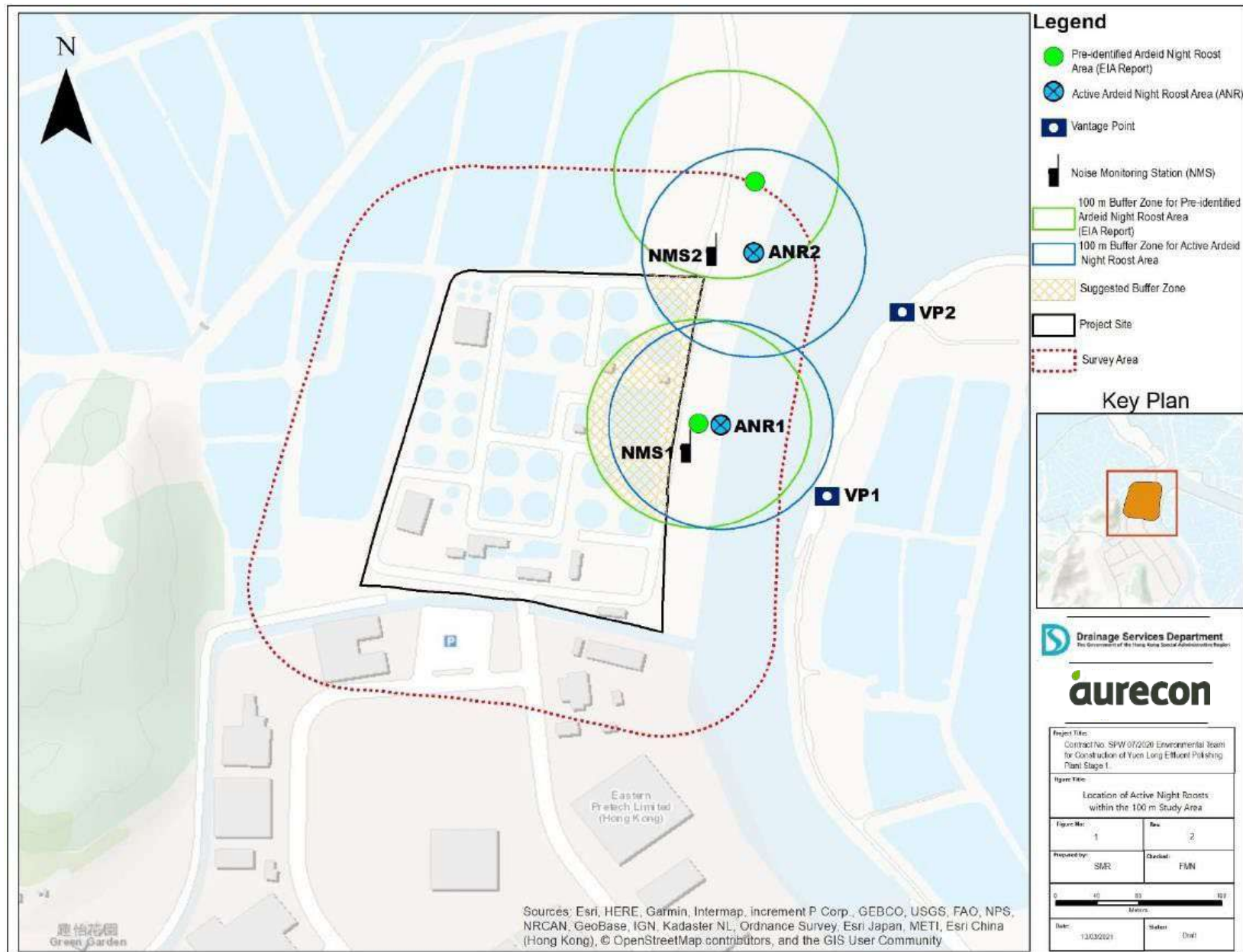
Summary of Outstanding Issues and Deficiencies in the Reporting Month

Parameters	Outstanding Issues	Deficiencies
Air Quality	NA	Any items of deficiencies can be referred to Appendix M.
Noise	NA	
Water Quality	NA	
Chemical and Waste Management	NA	
Land Contamination	NA	
Landscape and Visual Impact	NA	
Permit / Licenses	NA	
Others	NA	

Appendix O

Active Night Roost Monitoring Area and Vantage Points; and Noise Monitoring Stations

O.1 Map of the Monitoring Area, Vantage Points for Observation of Active Night Roosts and Noise Monitoring Stations



O.2 Survey Photos

O.2.1 Pre-roosting Aggregate



Appendix O.2.1a: Pre-roost aggregate of ardeids in the mudflat northeast side of the Project boundary (ANR2) observed on 24 July 2026 at around 18:43.

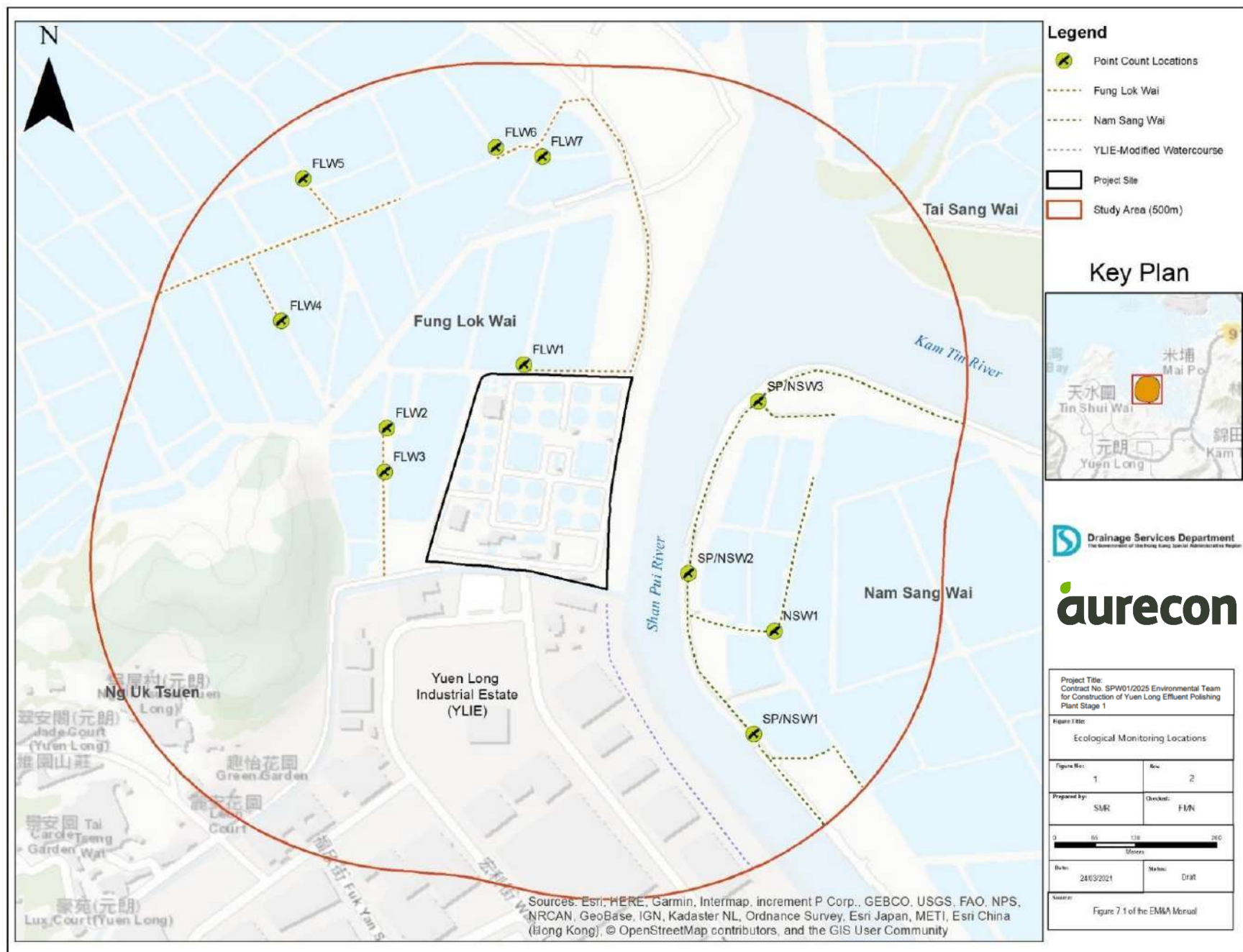
O.2.2 Active Night Roosting Site and Roosting Substrates



Appendix O.2.2a: Active night roost in the mudflat east side of the Project boundary (ANR1) observed on 24 July 2026 at around 19:18.

Appendix P

Ecological Bird Monitoring Area with Locations of Point Count Sites and Transect Route

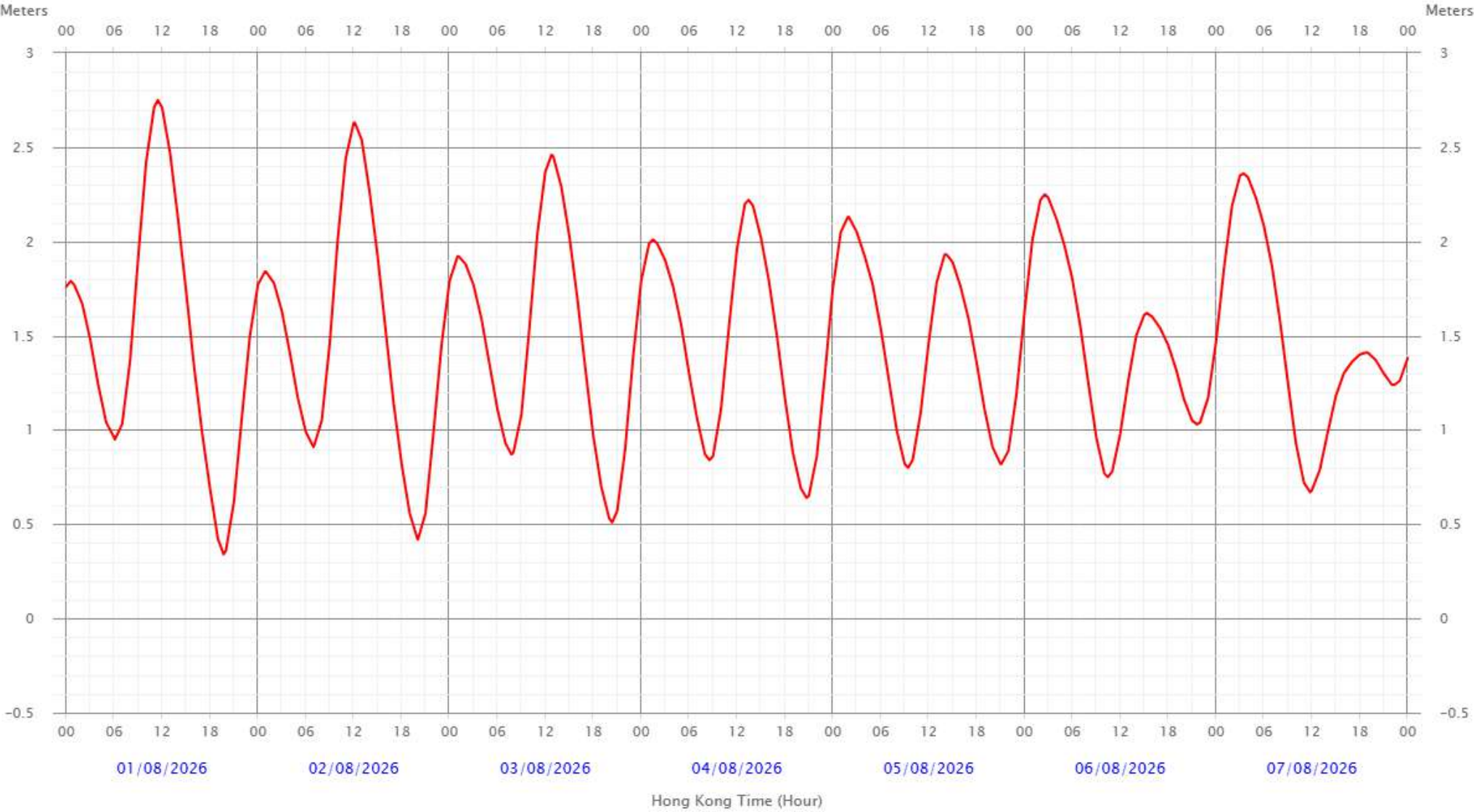


Appendix P: Ecological bird monitoring area with the locations of point count sites and transect routes

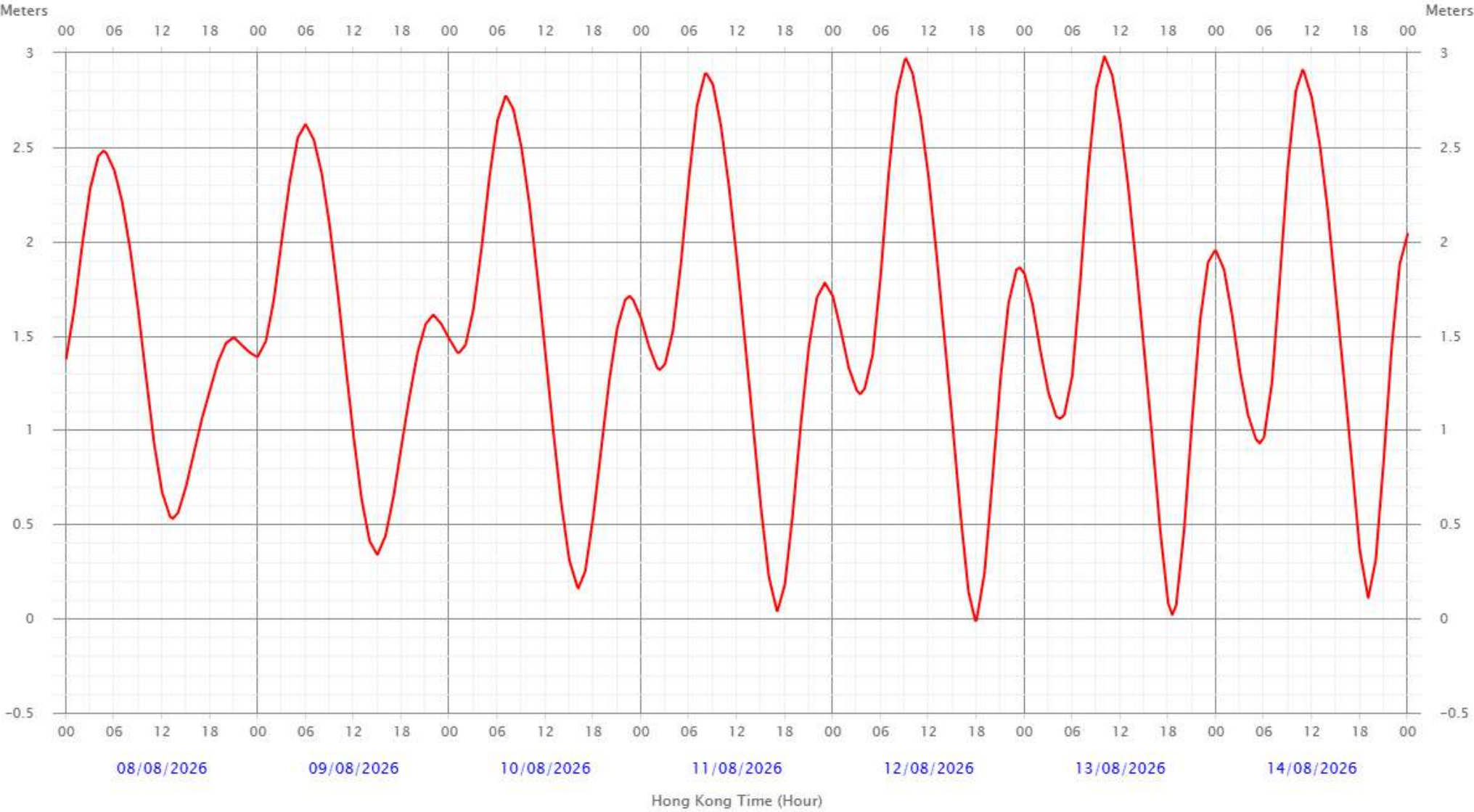
Appendix Q

Tides Predicted by the Hong Kong Observatory for the tidal station at Tsim Bei Tsui

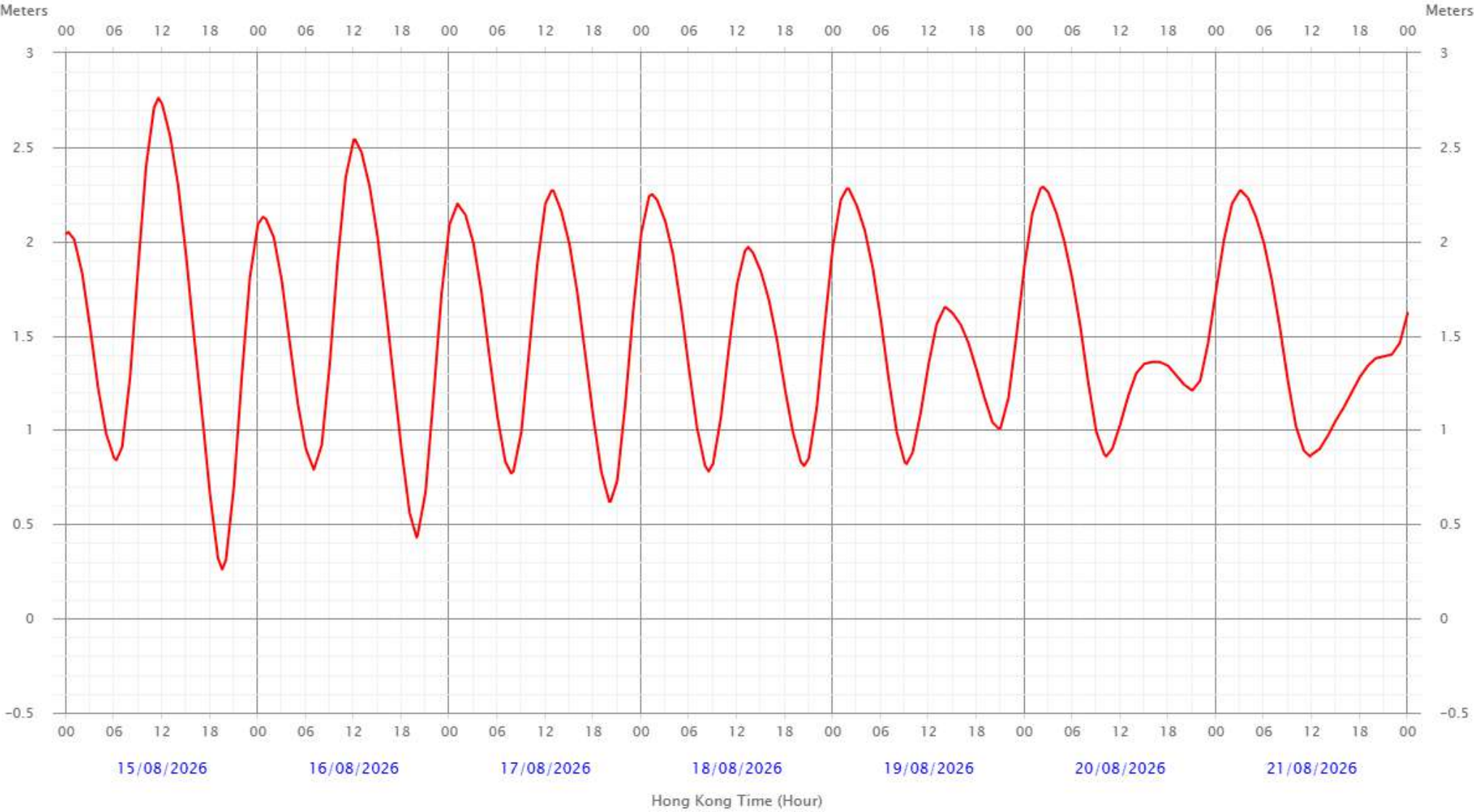
Tsim Bei Tsui



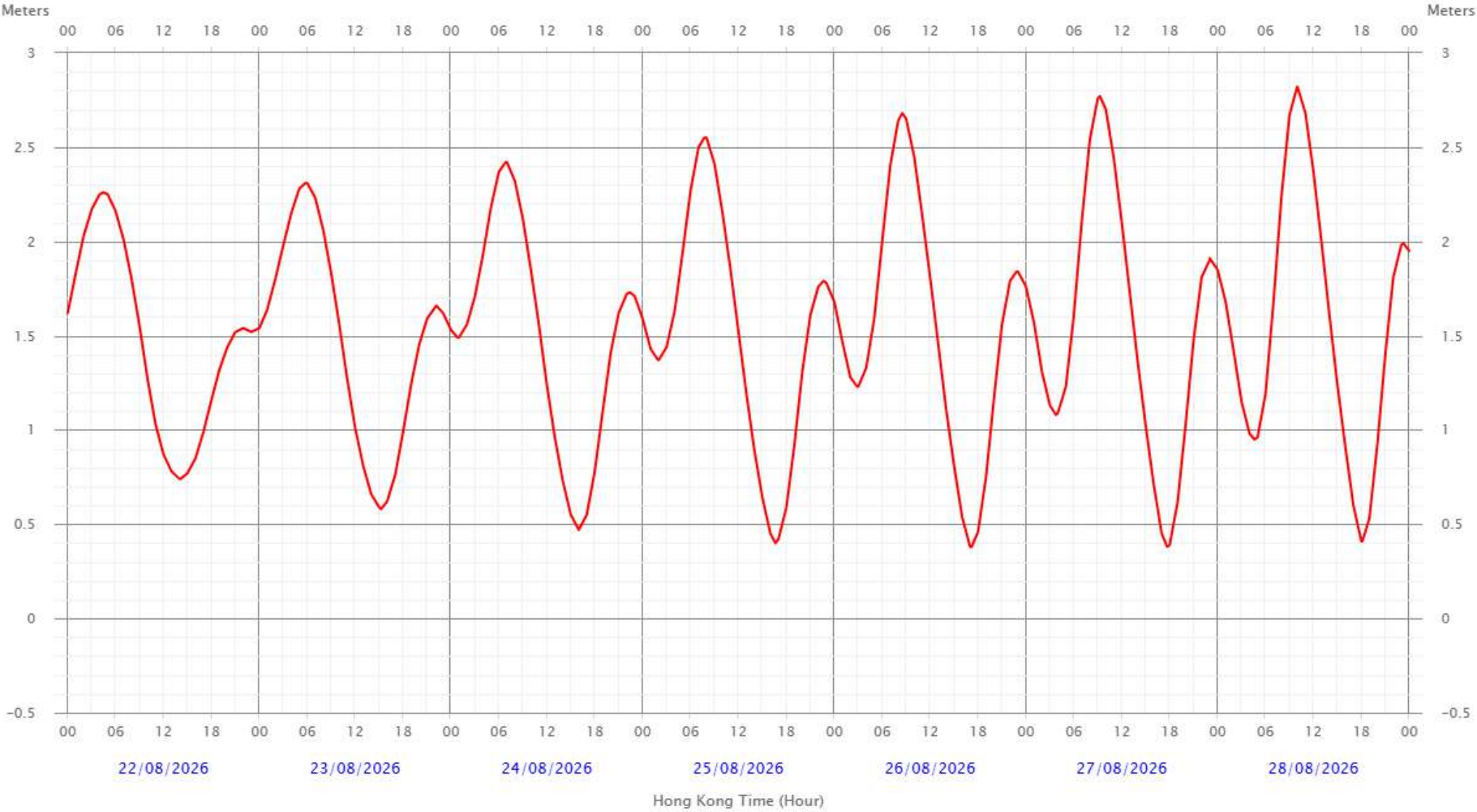
Tsim Bei Tsui



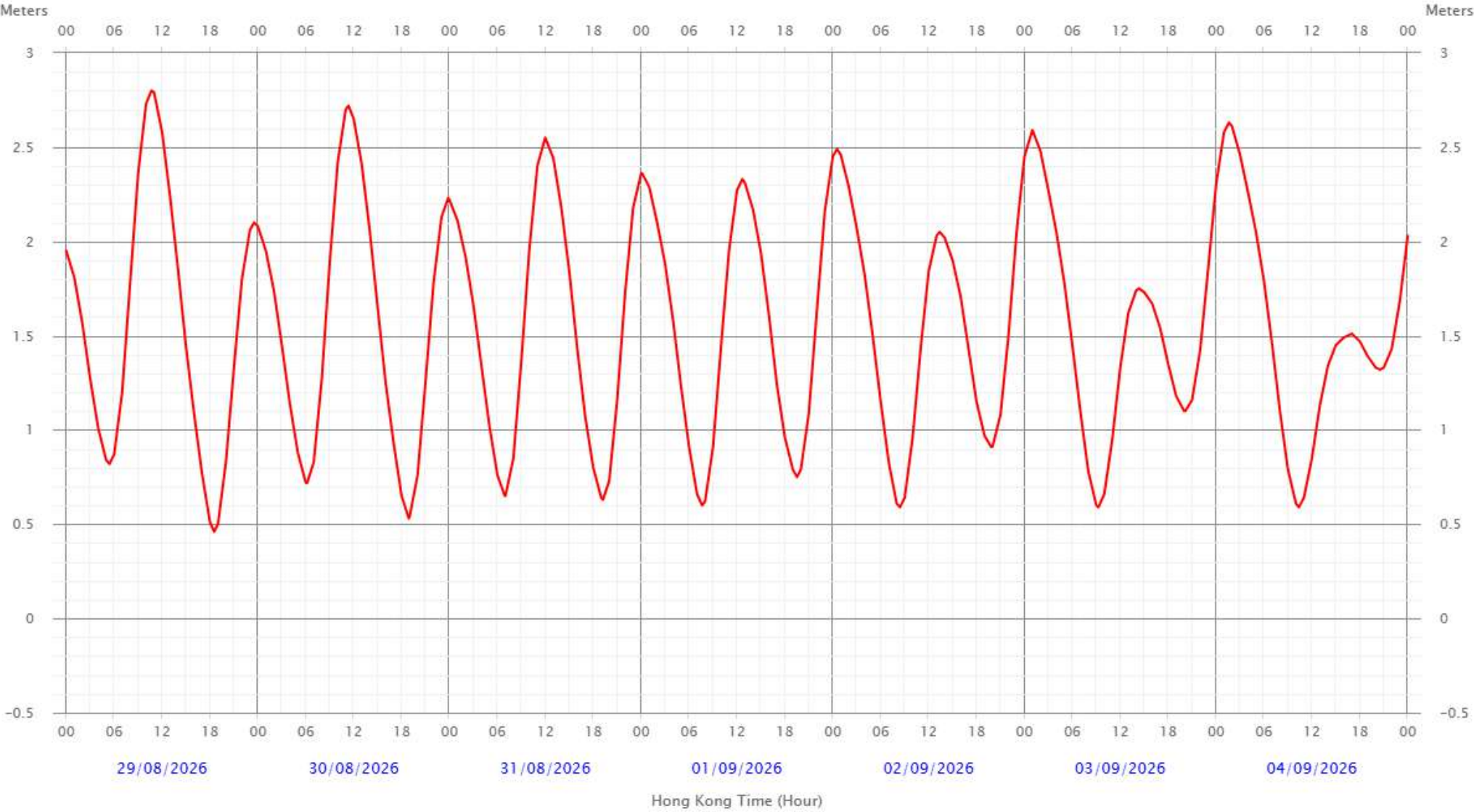
Tsim Bei Tsui



Tsim Bei Tsui



Tsim Bei Tsui



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