Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

Monthly EM&A Report (April 2025) **Drainage Services Department**

2025-05-11



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Contract No. SPW 04/2024

Independent Environmental Checker for Construction of Yuen Long Effluent Polishing Plant Stage 1 (2024-2025)

Environmental Permit No. EP-565/2019/A

EP Condition 3.4 – Monthly EM&A Report for April 2025

12 May 2025

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 April 2025 (Revision 1) which was received via e-mail and certified by the Environmental Team Leader on 12 May 2025 (ref.: PL-202505004).

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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Independent Environmental Checker

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Ref: PL-202505004

By Email

12 May 2025

Mott MacDonald 3/F Manulife Tower, 348 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong

Attn: Mr. Brandon Wong, IEC

Dear Sir,

Contract No. SPW 02/2023
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 April 2025

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 April 2025 (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

Vincent M. J. Lu Environmental Team Leader

Encl.

cc. AECOM – Mr. Patrick Leung (<u>patrick.leung@ylepp-aecom.com</u>)
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Contents

EX	ECUTIVE	SUMMARY	1
1	INTROD	UCTION	3
2	AIR QUA	ALITY	6
3	NOISE		9
4	WATER	QUALITY	12
5	ECOLO	GY MONITORING	16
6	LANDSO	CAPE AND VISUAL	28
7	LAND C	ONTAMINATION	29
8	SITE INS	SPECTION AND AUDIT	31
9		OMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SSFUL PROSECUTIONS	32
10	IMPLEM	IENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURE	33
11	FUTURE	E KEY ISSUES	35
12	CONCL	USION AND RECOMMENDATION	36
Та	ıbles		
Tab	_	Contact Information of Key Personnel	
	le 2	Environmental Licenses, Notification and Permits Summary	
	ole 3 ole 4	Air Quality Monitoring Equipment	
	ole 5	Summary of Air Quality Monitoring Results	
	ole 6	Comparison of 1-hr TSP data with EIA predictions	
	le 7	Construction Noise Monitoring Equipment	
Tab	le 8	Monitoring Parameters and Frequencies of Noise Monitoring	
	le 9	Construction Noise Monitoring Location	
	le 10	Summary of Construction Noise Monitoring Results	
	le 11	Comparison of Noise monitoring data with EIA predictions	
Tab	le 12	Water Quality Monitoring and Sampling Equipment	12

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Table 13 Table 14 Table 15 Table 16 Table 17 Table 18 Table 19 Table 20	Monitoring Parameters and Frequency Coordinates of Water Quality Monitoring Locations Summary of Water Quality Exceedance Noise Monitoring Parameters (For Active Ardeid Night Roost Survey) Active Ardeid Night Roost Survey Findings Noise Monitoring Parameters (For Active Ardeid Night Roost Survey) Noise Monitoring Parameters Abundance of all Avifauna Species	14 15 17 18 19
Table 21	Abundance of Species of Conservation Importance	
Table 22	Shannon Diversity Index Value of all Avifauna Species	
Table 23	Shannon Diversity Index Value of Species with Conservation Importance	
Table 24	Wetland habitat utilization of all avifauna species	
Table 25	Wetland habitat utilization of avifauna species of conservation importance	
Table 26	Noise Monitoring Results (For Ecological Monitoring of Birds)	
Table 27 Table 28	Waste Generated by the Construction and Disposal Ground	
Figures		
Figure 1 Figure 2 Figure 3 Figure 4	Location of Proposed Yuen Long Effluent Polishing Plant	
Figure 5	Ecology Monitoring Locations	
Appendix		
Appendix		
APPENDIX A	CONSTRUCTION PROGRAMME	
APPENDIX A APPENDIX B	CONSTRUCTION PROGRAMME	
APPENDIX A APPENDIX B	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART	
APPENDIX A APPENDIX B APPENDIX C	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS	
APPENDIX A APPENDIX C APPENDIX D	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT	
APPENDIX A APPENDIX C APPENDIX D APPENDIX E	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE	
APPENDIX A APPENDIX C APPENDIX D APPENDIX E APPENDIX F	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE ENVIRONMENTAL MONITORING RESULTS	
APPENDIX A APPENDIX C APPENDIX D APPENDIX E APPENDIX F APPENDIX G	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE ENVIRONMENTAL MONITORING RESULTS WIND DATA	
APPENDIX A APPENDIX C APPENDIX D APPENDIX E APPENDIX F APPENDIX G APPENDIX H	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE ENVIRONMENTAL MONITORING RESULTS WIND DATA EVENT AND ACTION PLAN	
APPENDIX A APPENDIX C APPENDIX D APPENDIX E APPENDIX F APPENDIX G APPENDIX H APPENDIX I	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE ENVIRONMENTAL MONITORING RESULTS WIND DATA EVENT AND ACTION PLAN WASTE FLOW TABLE	
APPENDIX A APPENDIX B APPENDIX C APPENDIX D APPENDIX E APPENDIX F APPENDIX G APPENDIX H APPENDIX I APPENDIX J	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE ENVIRONMENTAL MONITORING RESULTS WIND DATA EVENT AND ACTION PLAN WASTE FLOW TABLE IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES	<u>DF</u>
APPENDIX A APPENDIX B APPENDIX C APPENDIX D APPENDIX E APPENDIX F APPENDIX G APPENDIX H APPENDIX I APPENDIX J APPENDIX K	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE ENVIRONMENTAL MONITORING RESULTS WIND DATA EVENT AND ACTION PLAN WASTE FLOW TABLE IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES WEATHER AND METEOROLOGICAL CONDITIONS CUMULATIVE STATISTICS ON ENVIRONMENTAL COMPLAINTS, NOTIFICATIONS OF	<u> </u>
APPENDIX A APPENDIX B APPENDIX C APPENDIX D APPENDIX E APPENDIX F APPENDIX G APPENDIX H APPENDIX I APPENDIX J APPENDIX K APPENDIX L	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE ENVIRONMENTAL MONITORING RESULTS WIND DATA EVENT AND ACTION PLAN WASTE FLOW TABLE IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES WEATHER AND METEOROLOGICAL CONDITIONS CUMULATIVE STATISTICS ON ENVIRONMENTAL COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS SUMMARY OF THE ET LEADER'S SITE ENVIRONMENTAL AUDIT IN THE REPORTION.	<u> </u>
APPENDIX A APPENDIX B APPENDIX C APPENDIX D APPENDIX E APPENDIX F APPENDIX G APPENDIX H APPENDIX I APPENDIX J APPENDIX L APPENDIX L	CONSTRUCTION PROGRAMME PROJECT ORGANIZATION CHART ACTION AND LIMIT LEVELS CALIBRATION CERTIFICATES/ REPORTS OF MONITORING EQUIPMENT ENVIRONMENTAL MONITORING SCHEDULE ENVIRONMENTAL MONITORING RESULTS WIND DATA EVENT AND ACTION PLAN WASTE FLOW TABLE IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES WEATHER AND METEOROLOGICAL CONDITIONS CUMULATIVE STATISTICS ON ENVIRONMENTAL COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS SUMMARY OF THE ET LEADER'S SITE ENVIRONMENTAL AUDIT IN THE REPORTION MONTH	<u> </u>

APPENDIX Q TIDES PREDICTED BY THE HONG KONG OBSERVATORY FOR THE TIDAL STATION AT TSIM BEI TSUI

EXECUTIVE SUMMARY

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. SPW 02/2023 "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 49th Monthly EM&A Report for the construction phase which summaries findings of the EM&A programme during the reporting period from 1 April 2025 to 30 April 2025. As informed by the Contractor, major activities in the reporting month were:

- Fixing GRC panel at CLP Substation
- Pipeworks and manhole installation at emergency bypass chamber
- · ABWF and E&M works at IW
- ABWF and E&M works at PST
- · ELS work at SDB
- External works at site-wide include water meter cabinet
- ELS work and RC structure at AGS
- RC structure at TTS
- ABWF, E&M work and RC structure at STB
- · Demolish Existing SDT 1-4 and Gas Holder GH2
- RC structure at Sludge Digester no. 1-3 with PP1
- RC work at Biogas Holder no. 2-3 foundation
- 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 will be anticipated in the next three months are as follow:

- Fixing GRC panel at CLP Substation
- · Pipeworks and manhole installation at emergency bypass chamber
- · ABWF and E&M works at IW
- · ABWF and E&M works at PST
- ELS work at SDB
- · External works at site-wide include water meter cabinet
- ELS work and RC structure at AGS
- RC structure at TTS
- ABWF, E&M work and RC structure at STB
- Demolish Existing SDT 1-4 and Gas Holder GH2
- RC structure at Sludge Digester no. 1-3 with PP1
- RC work at Biogas Holder no. 2-3 foundation

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 commenced on 9 November 2020. Demolition of existing YLSTW for construction of new treatment facilities are in progress.
- 1.1.3 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.
- 1.1.4 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.
- 1.1.5 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.
- 1.1.6 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.
- 1.1.7 This is the 49th Monthly EM&A report to document the findings of site inspection activities and EM&A programme for this project from 1 April 2025 to 30 April 2025 (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's Representative	Chief Resident Engineer	Mr. Simon Yeung	9075 7172
(AECOM Asia Co. Ltd.)	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
Contractor	Environmental Specialist	Mr. Gabriel Wong	5269 5723
(Paul Y CREC Joint Venture)	Environmental Officer	Mr. Henry Lau	5490 5271
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:
 - Fixing GRC panel at CLP Substation
 - · Pipeworks and manhole installation at emergency bypass chamber
 - · ABWF and E&M works at IW
 - · ABWF and E&M works at PST
 - ELS work at SDB
 - External works at site-wide include water meter cabinet
 - · ELS work and RC structure at AGS
 - RC structure at TTS
 - ABWF, E&M work and RC structure at STB
 - Demolish Existing SDT 1-4 and Gas Holder GH2
 - RC structure at Sludge Digester no. 1-3 with PP1
 - RC work at Biogas Holder no. 2-3 foundation
- 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
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	GW-RN1253-24	17-Nov-2024	16-Apr-2025
Construction Noise Permit	GW-RN0246-25	11-Mar-2025	31-May-2025
Construction Noise Permit	GW-RN0063-25	6-Feb-2025	5-Aug-2025
Construction Noise Permit	GW-RN0367-25	17-Apr-2025	25-Sep-2025
Construction Noise Permit	PP-RN0012-25	11-Apr-2025	10-Jun-2025
Water Pollution Control Ordinance (WPCO) (CAP. 358) Licence pursuant to Section 20 (Variation of Licence Pursuant to Section 28 of WPCO)	WT00038102- 2021	4-Aug-2021 (Variation approved on 11- Dec-2023 with immediate effect)	31-Aug-2026
Marine Dumping Permit (Excavated Sediment of Category L - Suitable for Capping Exhausted Contaminated Mud Pits)	EP/MD/25-054	26-Feb-2025	25-Aug-2025
Marine Dumping Permit (Type 1 – Open Sea Disposal (Dedicated Site) and Type 2 – Confined	EP/MD/25-059	28-Mar-2025	27-Jun-2025
Disposal of Special waste at Landfills Admission Ticket (Sludge)	Admission Ticket Number: 105973	11-Mar-2025	10-Jun-2025
Disposal of Special waste at Landfills Admission Ticket (Pond Sediment)	Number: 107320	1-Apr-2025	30-Jun-2025
Disposal of Special waste at Landfills Admission Ticket (Sludge)	Admission Ticket Number: 107314	13-Mar-2025	12-Sep-2025
Revised Sediment Quality Report (SQR)	(35) in EP60/G1/12- 583V	6-Dec-2024	3-Dec-2025

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	Cilcoto	M. J.IID FD	SIBATA L	SIBATA LD-5R Digital Dust	851816,
2	AM2	Sibata	Model LD-5R	Indicator	882106	

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

- a) Pulling up the air sampling inlet cover
- b) Changing the Mode 0 to BG
- c) Pressing Start/Stop switch
- d) Turning the knob to SENSI.ADJ and press it
- e) Pressing Start/Stop switch again
- f) Returning the knob to the position MEASURE slowly
- g) Pressing the timer set switch to set measuring time
- h) 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 02/2023 "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 (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
		1-hour TSP		
AM1	39	38-45	291	500
AM2	39	33-43	296	500

- 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/ m³)	Maximum 1-hr TSP Monitoring Results in April 2025 (μg/ m³)
		Content	
AM1	ASR A09	205 454	45
AM2	ASR A11	205-451	43

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 ± 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	RION	NL-53	RION NL-53 Sound Level Meter	01130785
2	RION	NL-53	RION NL-53 Sound Level Meter	01130783
3	RION	NL-53	RION NL-53 Sound Level Meter	01130784
4	RION	NC-75	RION NC-75 Acoustic Calibrator	34724244
5	RION	NC-75	RION NC-75 Acoustic Calibrator	34724245
6	RION	NC-75	RION NC-75 Acoustic Calibrator	34524163

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		
LAeq (30 min) (L10 and L90 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 02/2023 "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	57.5 – 59.6	When one	75
	CM2	57.5 – 58.8	documented	75
	CM3	52.6 – 55.2	complaint is received	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 L _{eq} (30min) dB(A)	Maximum Construction Noise Level in April 2025 L _{eq} (30min) dB(A)
CM1	NSR1	72	59.6
CM2	NSR2	74	58.8
CM3	NSR3	75	55.2

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 Sonde	Xylem 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: ±0.2°C; DO: ±0.1mg/L or 1% for 0- 20mg/L; ±8% for 20-50mg/L Sal: ±1% of reading or 0.1 ppt (whichever is greater) pH: ±0.2 units Turb: ±3% or 0.3NTU (FNU) (whichever greater)	22D100436
Current Velocity and Direction	Current Meter	Valeport Model 106	Speed: 0.03 to 5 m/s Direction: 0 to 360	Speed: ±1.5% of reading above 0.15m/s, ±0.004 m/s below 0.15m/s Direction: ±2.5o	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: ±1m	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
In-situ Measurement Turbidity (in NTU), pH, DO (in mg/L and % of saturation), Temperature (in °C), Salinity (in ppt) Laboratory Analysis Suspended Solids	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.)

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) has 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
М3	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 The weather and meteorological conditions during the monitoring are provided in **Appendix K**.
- 4.8.4 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	
Location	Level	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
N44	Action	0	0	0	0	0	0	0	0
M1	Limit	0	0	0	0	0	0	0	0
M2	Action	0	0	0	0	0	0	0	0
IVI∠	Limit	0	0	0	0	0	0	0	0
MO	Action	0	0	0	0	0	0	0	0
M3	Limit	0	0	0	0	0	0	0	0
Total	Action	0	0	0	0	0	0	()
	Limit	0	0	0	0	0	0	()

- 4.8.5 During the reporting period, no Action and Limit Level exceedance was recorded for water quality monitoring.
- 4.8.6 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 License 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 contractor 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 preconstruction 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 14 April 2025.

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 18:44, 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)	Monthly in concurrence with the construction phase				
(L10 and L90 will be recorded for reference)	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 14 April 2025 and started around 17:43 (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, individuals of Chinese Pond *Heron Ardeola bacchus* (2) and Little Egret *Egretta garzetta* (2) were observed in pre-roost aggregate (PRA) around 18:22 at the mudflat east side ANR1 of the Project boundary while individuals of Grey Heron *Ardea cinerea* (8) and Great Egret *Ardea alba* (19) were concurrently noted at the mudflat northeast side ANR2 of the Project boundary (Table 17).

For the final night roost at around 18:54, individuals of Chinese Pond Heron *Ardeola bacchus* (2) and Little Egret *Egretta garzetta* (1) 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* (2), Great Egret *Ardea alba* (7) and Grey Heron *Ardea cinerea* (3) 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: 14 April 2025			Sunset Time: 18:43 Tidal Condition: Low Tide				
	Pre-roost Period		Final roost Period				
Time of Return:	Time of Return: Chinese Pond Heron Ardeola bacchus, Great Egret Ardea alba, Little Egret Egretta garzetta and Grey Heron Ardea cinerea (18:22)		Time of Return:	Chinese Pond Heron Ardeola bacchus, Great Egret alba and Little Egret Egretta garzetta (18:54)			
D	Loca	ation	Damamatana	Loc	ation		
Parameters	ANR1	ANR2	Parameters	ANR1	ANR2		
Pre-roost Aggregation (Y/N):	Y	Υ	Substrate Species:	Sonneratia apetala and S. caseolaris	Sonneratia apetala and S. caseolaris		
Substrate Species:	Sonneratia apetala and S. caseolaris	Sonneratia apetala and S. caseolaris	Substrate Height (m):	Approx. 5 m.	Approx. 3-4 m.		
Substrate Height (m):	Approx. 5 m.	Approx. 3-4 m.	, , , , , , , , , , , , , , , , , , ,				
Ardeid Species	Abundance	(individuals)	Ardeid Species	Abundance (individuals)			
Composition	ANR1	ANR2	Composition	ANR1	ANR2		
Chinese Pond Heron Ardeola bacchus	2	-	Chinese Pond Heron Ardeola bacchus	2	2		
Great Egret <i>Ardea alba</i>	-	19	Great Egret Ardea alba	-	7		
Little Egret Egretta garzetta	2	-	Little Egret Egretta garzetta	1	-		
Grey Heron - 8 Ardea cinerea		Grey Heron Ardea cinerea	-	3			
Dura dia a Astrita (VIII)	ANR1		ľ	N			
Breeding Activity (Y/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 14 April 2024 in concurrence with the construction phase monthly monitoring of the pre-identified active night roosts. Noise monitoring started at 18:54 and lasted for 30 minutes, until 19:24.

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	NMS1	18:54	56.2	05.5 (5/4)/1	70.0 ID(A)2
construction phase monthly monitoring of the active night roosts	NMS2	18:54	58.3	65.5 dB(A) ¹	72.2 dB(A) ²

Notes:

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

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

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 April 2025 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*, Little Egret *Egretta garzetta* and Grey Heron *Ardea cinerea*.

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)



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)

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 16 April 2025 (daytime) which started at around 07:15 and 14 April 2025 (night-time) which started around 19:00. 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 was recorded at each of the point count locations.

Table 19 Noise Monitoring Parameters

Parameter	Frequency and Period
LAeq (30 min)	Monthly in concurrence with the monthly ecological
(L10 and L90 will be recorded for reference)	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 (α = 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, $H' = \sum_{i=1}^s p_i lnp_i$ where, H' = Shannon Diversity Index; Pi = Pi proportion of the population of species; i = Pi number of species in sample; i = Pi 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 16 April 2025 (daytime) which started at around 07:15 and 14 April 2025 (night-time) which started at around 19:00 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 492 avifauna individuals were recorded in the monitoring area during the April 2025 monitoring period, of which 322 individuals were recorded from the point count method and 170 individuals from the transect walk method. Relative to the April 2017 baseline data (point count method = 298; and transect walk = 47), increases were noted for both the 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 A	vifauna Species			
EIA Report ID	EM&A Manual ID	April-17	April-25	Remarks
Point Count Method	I			
P1	FLW1	2	3	+
P2	FLW2	4	8	+
P3	FLW3	3	9	+
P4	FLW4	20	28	+
P5	FLW5	47	41	-
P6	FLW6	8	9	+
P7	FLW7	8	46	+
P9	SP/NSW3	110	75	-
P10	SP/NSW2	27	27	=
P11	NSW1	30	30	=
P12	SP/NSW1	39	46	+
Total		298	322	+
Mean		27	27	=
Transect Walk Meth	od			
Fung Lok Wai	FLW	44	54	+
Nam Sang Wai	NSW	3	16	+
YLIE-CW	YLIE-CW	0	100	+
Total		47	170	+
Mean		16	57	+

Notes:

- + increased abundance:
- decreased 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 492 avifauna individuals recorded in the monitoring area during the April 2025 monitoring period, 240 individuals (point count method = 153 individuals; transect walk method = 87 individuals) were of conservation importance. With reference to April 2017 data, (point count method = 200; and transect walk = 1), a decrease was noted for point count method, while an increase in transect walk method was observed. Details of these findings are summarized in Table 21.

⁼ no change in abundance.

Table 21 Abundance of Species of Conservation Importance

Abundance of Species of Conservation Importance					
EIA Report ID	EM&A Manual ID	April-17	April-25	Remarks	
Point Count Method	Point Count Method				
P1	FLW1	0	3	+	
P2	FLW2	0	2	+	
P3	FLW3	0	3	+	
P4	FLW4	10	3	-	
P5	FLW5	34	10	-	
P6	FLW6	2	7	+	
P7	FLW7	3	11	+	
P9	SP/NSW3	103	66	-	
P10	SP/NSW2	13	18	+	
P11	NSW1	3	4	+	
P12	SP/NSW1	32	26	-	
Total		200	153	-	
Mean		18	13	-	
Transect Walk Method					
Fung Lok Wai	FLW	1	9	+	
Nam Sang Wai	NSW	0	1	+	
YLIE-CW	YLIE-CW	0	77	+	
Total		1	87	+	
Mean		0.33	29	+	

Notes:

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 54 avifauna species (species richness) were recorded during the April 2025 monitoring period, of which, 50 species were recorded by the point count method while 35 species were noted by the transect walk method. Relative to the baseline data (point count method = 41 species; transect walk method = 13 species), increases in total species richness for both transect walk count and point count methods were recorded. In terms of Shannon diversity index (H') values, current result in point count method showed an increase (t-value = 1.50; t-crit = 1.96; p-value = 1.34E-01; α = 0.05) relative to the baseline reference value. The current results in the transect walk method also showed a significant increase (t-value = 6.11; t-crit = 1.99; p-value = 5.24E-08; 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



⁺ increased abundance;

⁻ decreased abundance;

⁼ no change in abundance.

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	April-17	April-25	Remarks
Point Count Method	Point Count Method			
P1	FLW1	0.69	0	-
P2	FLW2	1.39	1.67	+
P3	FLW3	0.64	1.74	+
P4	FLW4	2.08	2.50	+
P5	FLW5	2.27	2.68	+
P6	FLW6	1.73	1.89	+
P7	FLW7	1.67	1.25	-
P9	SP/NSW3	2.06	2.09	+
P10	SP/NSW2	2.47	2.24	-
P11	NSW1	2.63	2.26	-
P12	SP/NSW1	2.03	2.37	+
Overall H'		3.16	3.29	+
Species Richness		41	50	+
Transect Walk Meth	od			
Fung Lok Wai	FLW	2.03	2.64	+
Nam Sang Wai	NSW	0.64	2.05	+
YLIE-CW	YLIE-CW	**	2.37	+
Overall H'		2.10	3.11	+
Species	Richness	13	35	+

Notes

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 54 avifauna species identified during the April 2025 monitoring period, 20 species were of conservation importance (point count method = 17 species; transect walk method = 14 species). Meanwhile, relative to the baseline values in April 2017 (point count method = 13 species; transect walk method = 1 species), an increase in the number of species with conservation importance was recorded in both the point count and transect walk method. In terms of Shannon diversity index (H'), a slight decrease in point count method (t-value = 1.89; t-crit = 1.97; p-value = 6.02E-02; α = 0.05) and a significant increase in transect walk method (t-value = 21.09; t-crit = 1.99; p-value = 5.79E-36; α = 0.05) were noted relative to the baseline reference values. Details of these findings are summarized in **Table 23**, and **Appendix F.6.3**.



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

Table 23 Shannon Diversity Index Value of Species with Conservation Importance

Shannon Diversity I	Shannon Diversity Index Value of Species with Conservation Importance				
EIA Report ID	EM&A Manual ID	April-17	April-25	Remarks	
Point Count Method	Point Count Method				
P1	FLW1	**	0	=	
P2	FLW2	**	0.69	+	
P3	FLW3	**	0.64	+	
P4	FLW4	0.80	0.64	-	
P5	FLW5	1.51	1.19	-	
P6	FLW6	0	1.55	+	
P7	FLW7	1.10	0.30	-	
P9	SP/NSW3	1.87	1.68	-	
P10	SP/NSW2	1.56	1.69	+	
P11	NSW1	1.10	1.04	-	
P12	SP/NSW1	1.56	1.21	-	
Overall H'		2.24	2.06	-	
Species	Species Richness		17	+	
Transect Walk Meth	od				
Fung Lok Wai	FLW	0	1.43	+	
Nam Sang Wai	NSW	**	0	=	
YLIE-CW	YLIE-CW	**	1.81	+	
Over	Overall H'		2.12	+	
Species	Richness	1	14	+	

Notes

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 to Low (VL - L) abundance. In terms of species richness, different wetland habitats were generally observed with Moderate (M) or Very high (VH) number of species (**Table 24**).



^{**} 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')

Table 24 Wetland habitat utilization of all avifauna species

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

Notes:

- 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 14 April 2025 (night time) and 16 April 2025 (daytime) 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	Location	Day time (16/04/2024)		Night time (14/04/2024)	
and Period Location		Start Time	LAeq (30 min) dB(A)	Start Time	LAeq (30 min) dB(A)
	FLW1/P1	10:19	52.3	19:39	54.5
	FLW2/ P2	09:44	52.6	20:16	53.4
	FLW3/P3	09:48	53.4	20:51	55.3
NA	FLW4/ P4	08:59	51.6	21:42	56.8
Monthly in concurrence	FLW5/ P5	08:57	52.3	20:57	53.5
with the ecological	FLW6/ P6	08:17	54.5	20:10	54.9
monitoring of birds	FLW7/ P7	08:20	53.6	19:35	55.6
bilds	SP/NSW3/ P9	07:45	60.2	19:00	55.1
	SP/NSW2/ P10	08:28	60.1	19:34	54.3
	NSW1/ P11	09:02	62.8	20:09	56.7
	SP/NSW1/ P12	09:40	63.2	20:43	57.4

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, five weekly landscape and visual site audits were carried out on 2, 10, 16, 23 and 30 April 2025.

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 (Csat) 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 19th 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) and submitted to EPD on 29 October 2024.



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, five site inspections were carried out on 2, 10, 16, 23 and 30 April 2025.
- 8.1.3 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 Contractor 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)
Sludge	West New Territories Landfill (WENT)
	Type 1 – Open Sea Disposal: South Cheung Chau Open Sea Sediment Disposal Area
Marine Sediment	Type 1 – Open Sea Disposal (Dedicate Site) and Type 2 – Confined Marine Disposal: Contaminated Mud Pit Vb of the Confined Marine Disposal Facilities to the East of Sha Chau

- 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 Contractor 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 Contractor 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)	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)	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	Certified by ET Leader and verified by IEC on 14 Oct 2024 and submitted to EPD on 29 Oct 2024, to be finalised and made 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 March 2025)	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 March 2024)	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 March 2025	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

- Fixing GRC panel at CLP Substation
- · Pipeworks and manhole installation at emergency bypass chamber
- · ABWF and E&M works at IW
- ABWF and E&M works at PST
- ELS work at SDB
- External works at site-wide include water meter cabinet
- ELS work and RC structure at AGS
- RC structure at TTS
- ABWF, E&M work and RC structure at STB
- Demolish Existing SDT 1-4 and Gas Holder GH2
- RC structure at Sludge Digester no. 1-3 with PP1
- RC work at Biogas Holder no. 2-3 foundation

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 Five environmental site inspections were carried out in the reporting month. Recommendations on mitigation measures for air quality impact, chemical waste and construction waste management and permit/ licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 12.1.7 Five landscape and visual site audits were carried out 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 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:

Air Quality Impact

Insufficient watering for the haul road.

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

The Contractor was reminded to remove the construction waste from the Site

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

No specific observation was identified in the reporting month.

Hazard to Life

No specific observation was identified in the reporting month.

Permit/ Licenses

The size of NRMM label for the sheet piling machine at SDB is incorrect.

Other

The Contractor was remaindered to remove the stagnant water Main Entrance of the Site.



Figure 1 Location of Proposed Yuen Long Effluent Polishing Plant

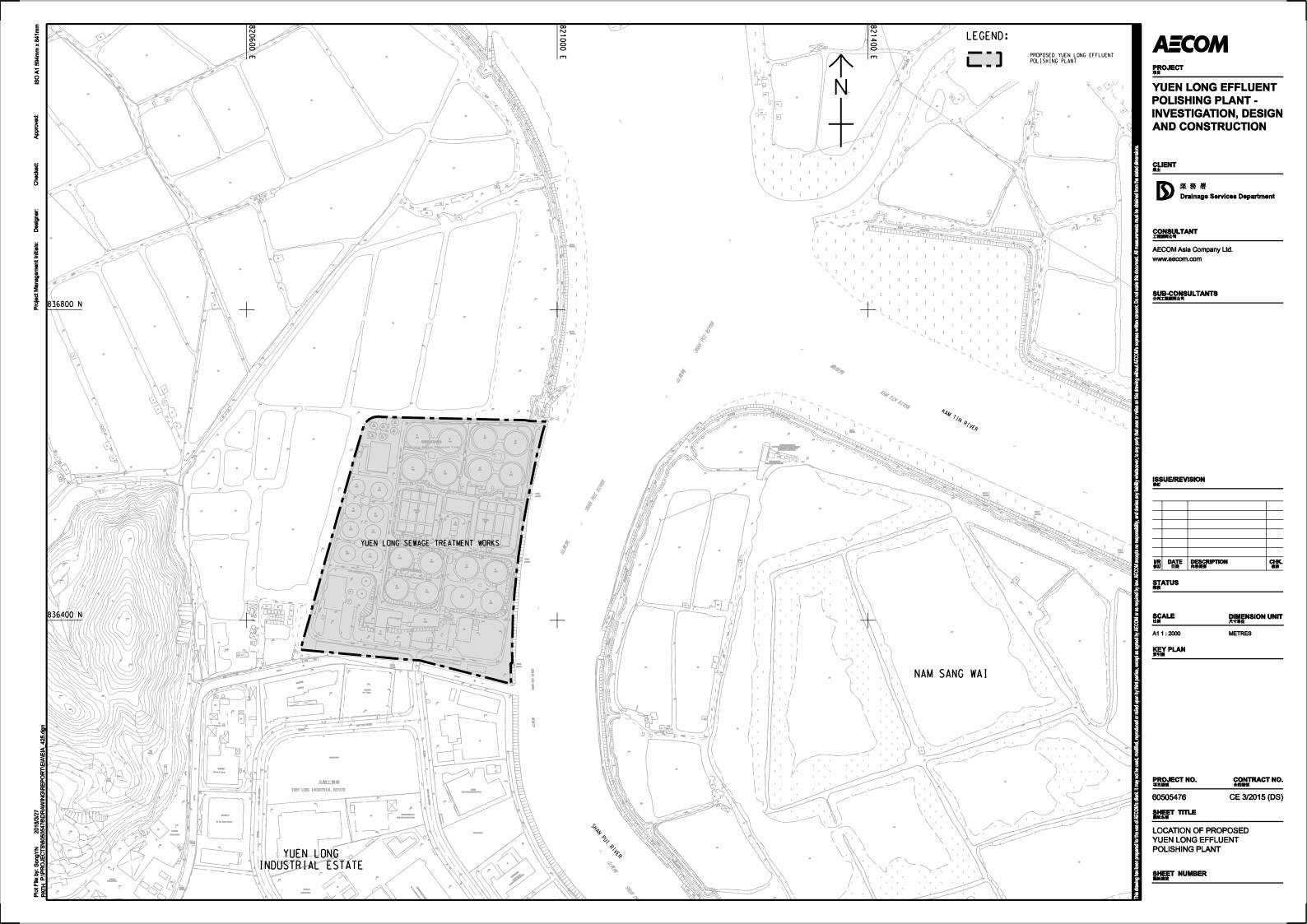


Figure 2 Location of Construction Dust Monitoring Stations

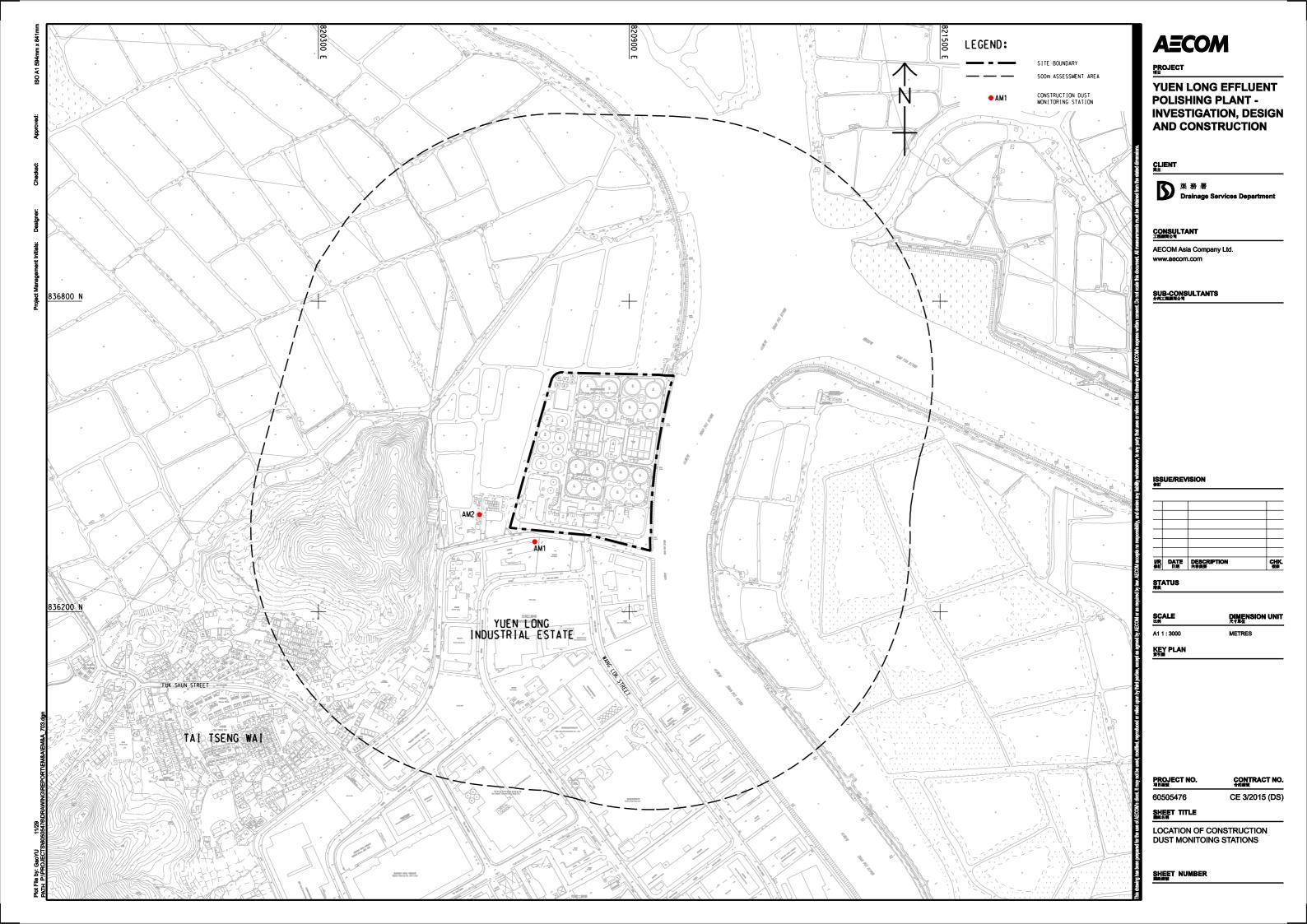


Figure 3 Noise Monitoring Locations

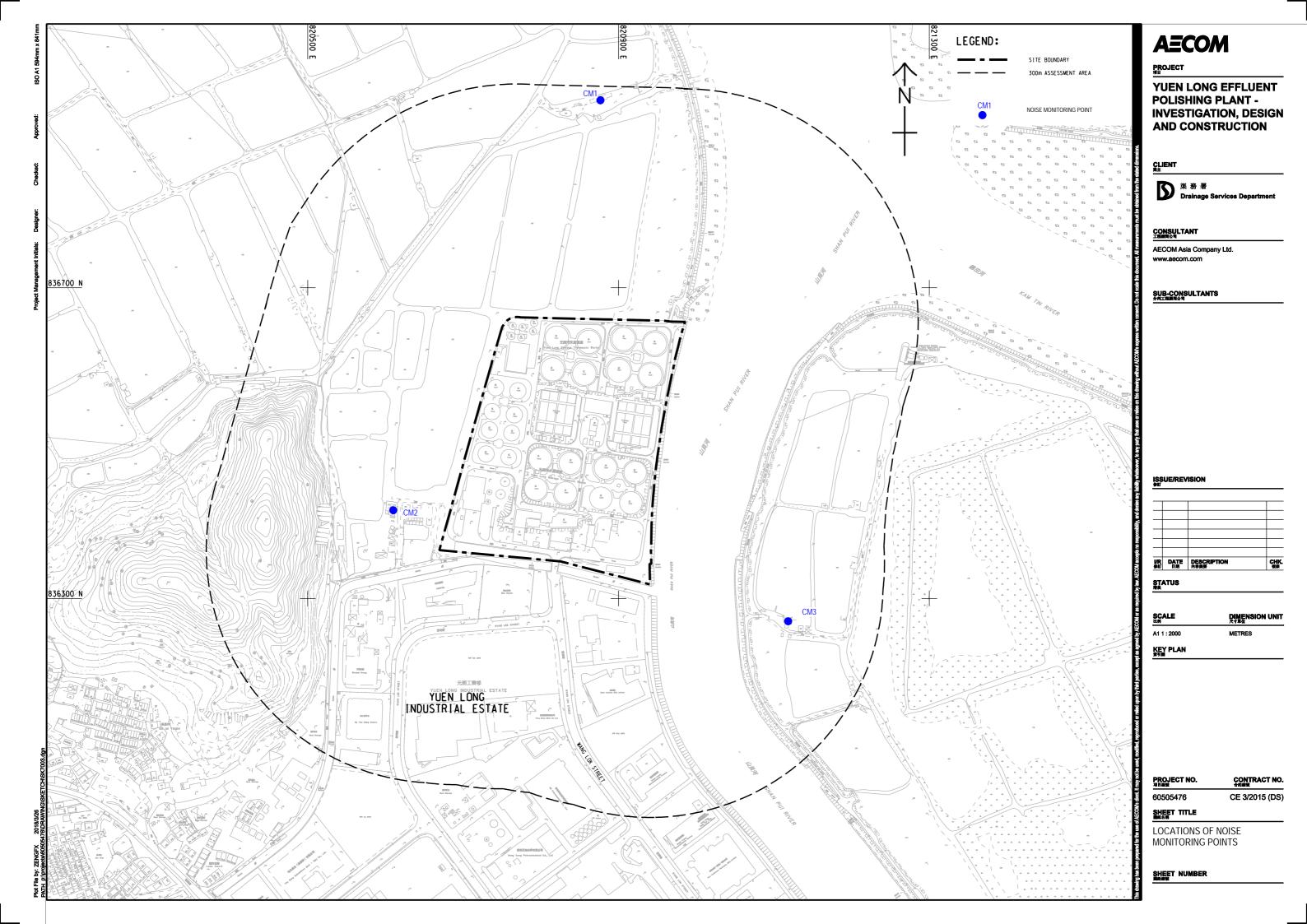


Figure 4 Water Quality Monitoring Locations

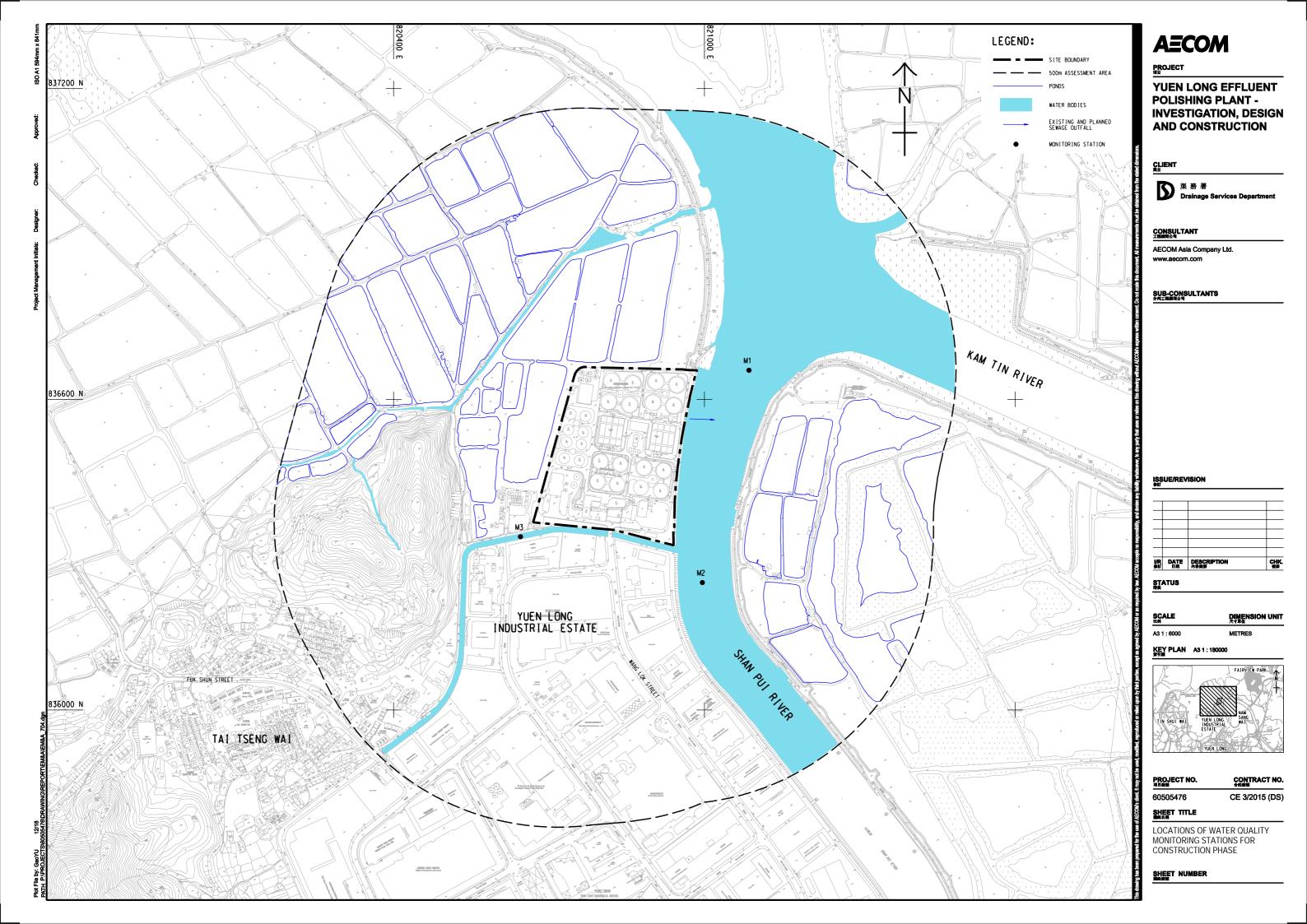
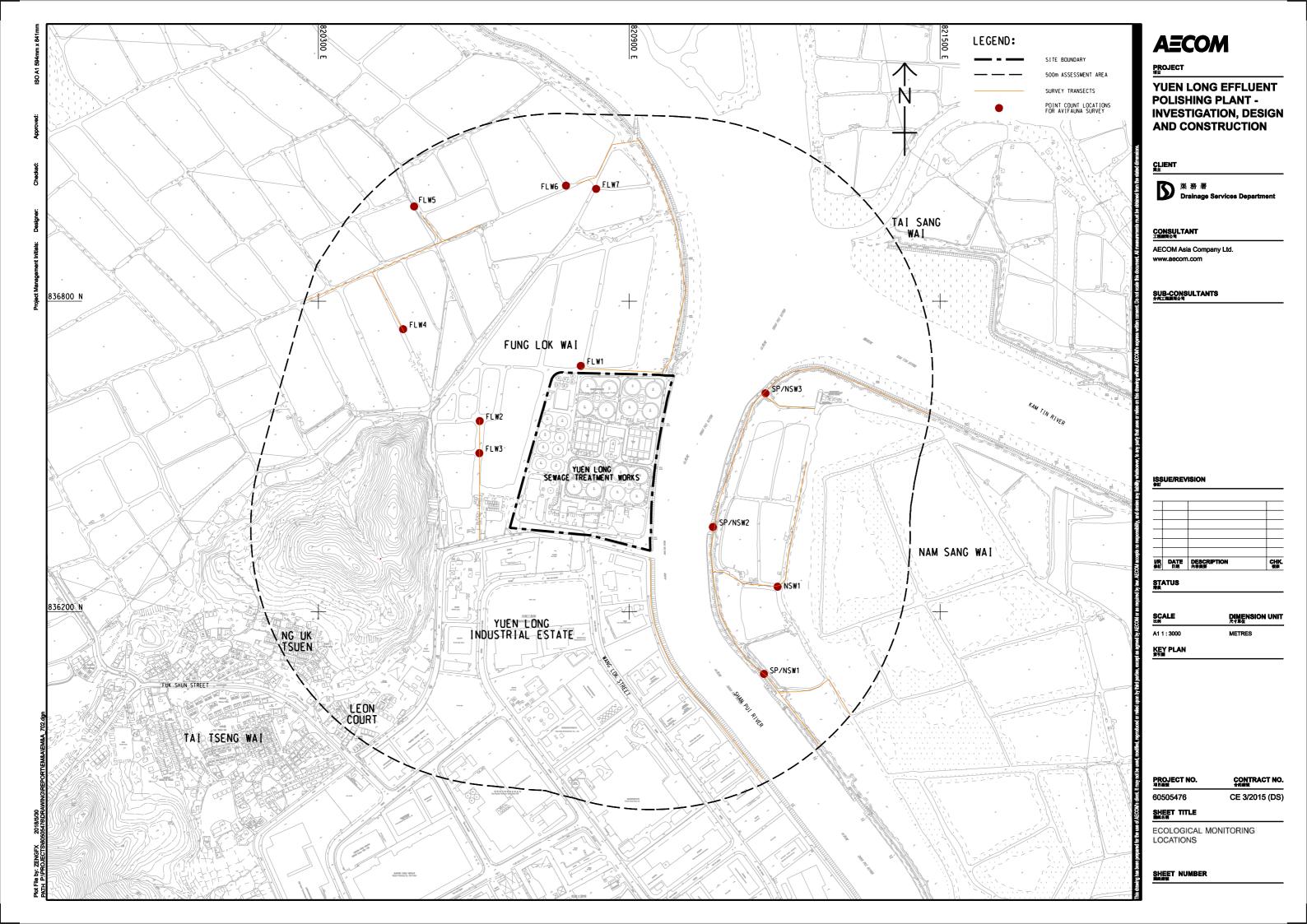
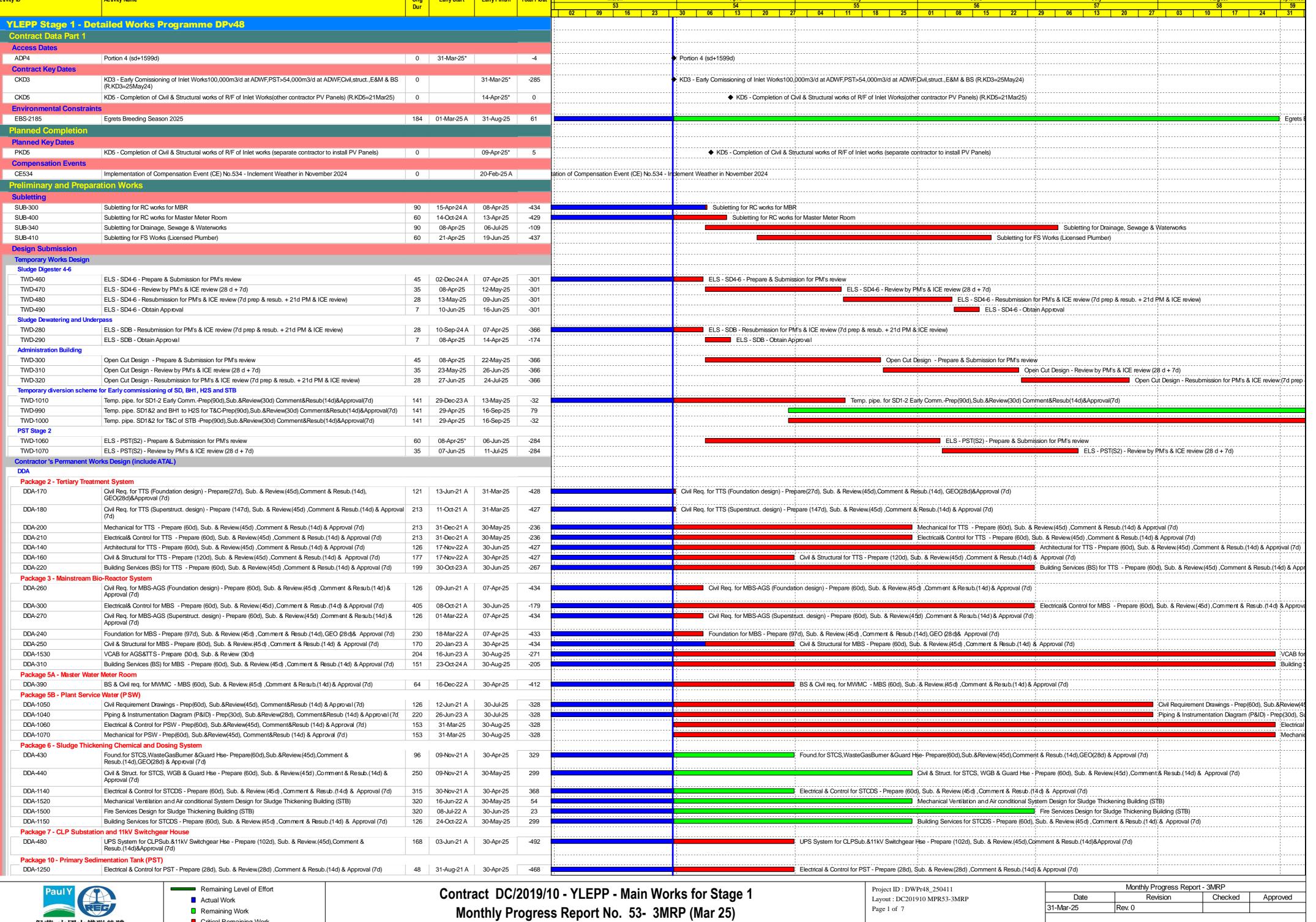


Figure 5 Ecology Monitoring Locations

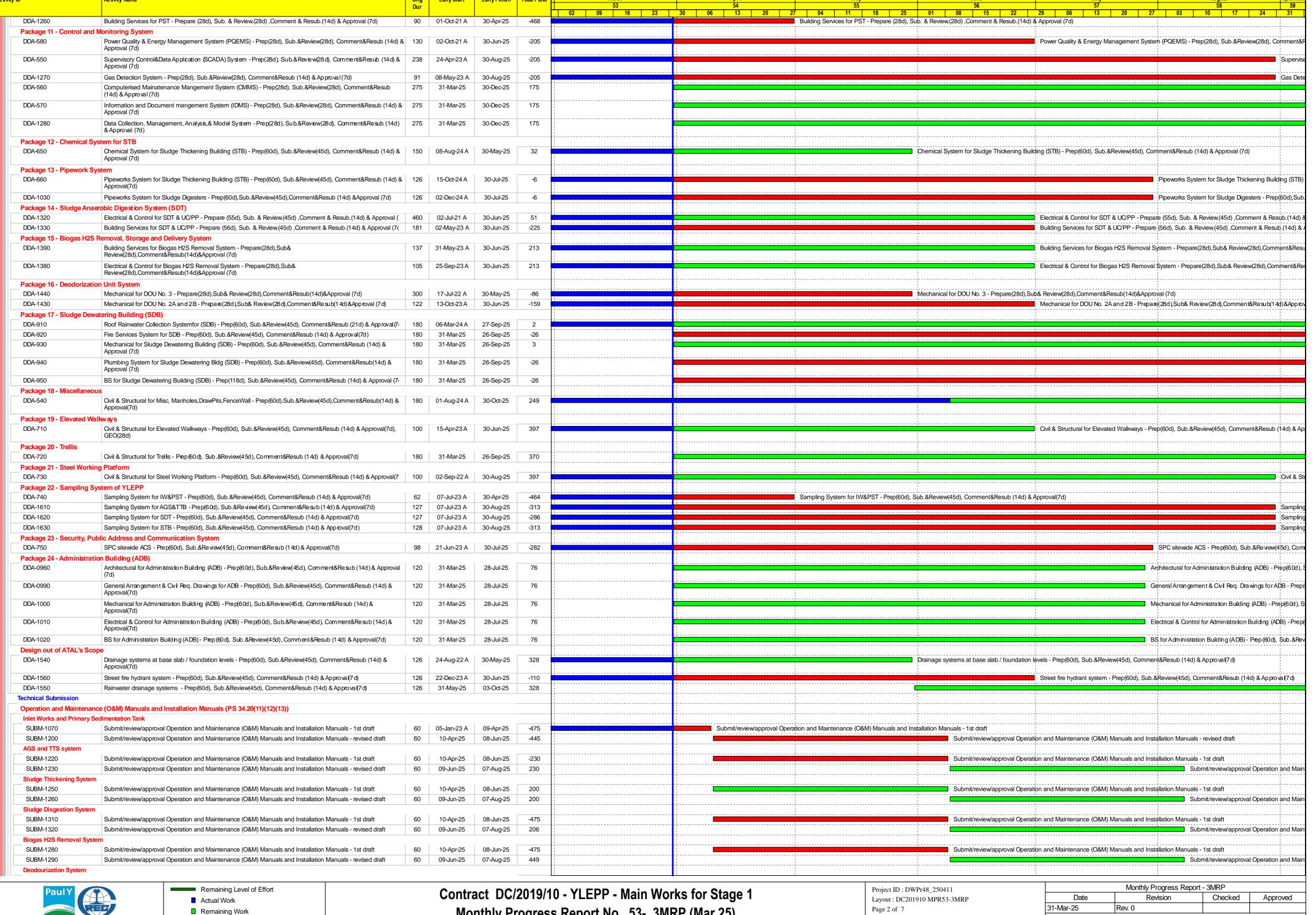


Appendix A Construction Programme





Monthly Progress Report - SIVIRP			
Date	Revision	Checked	Approved
1-Mar-25	Rev. 0		

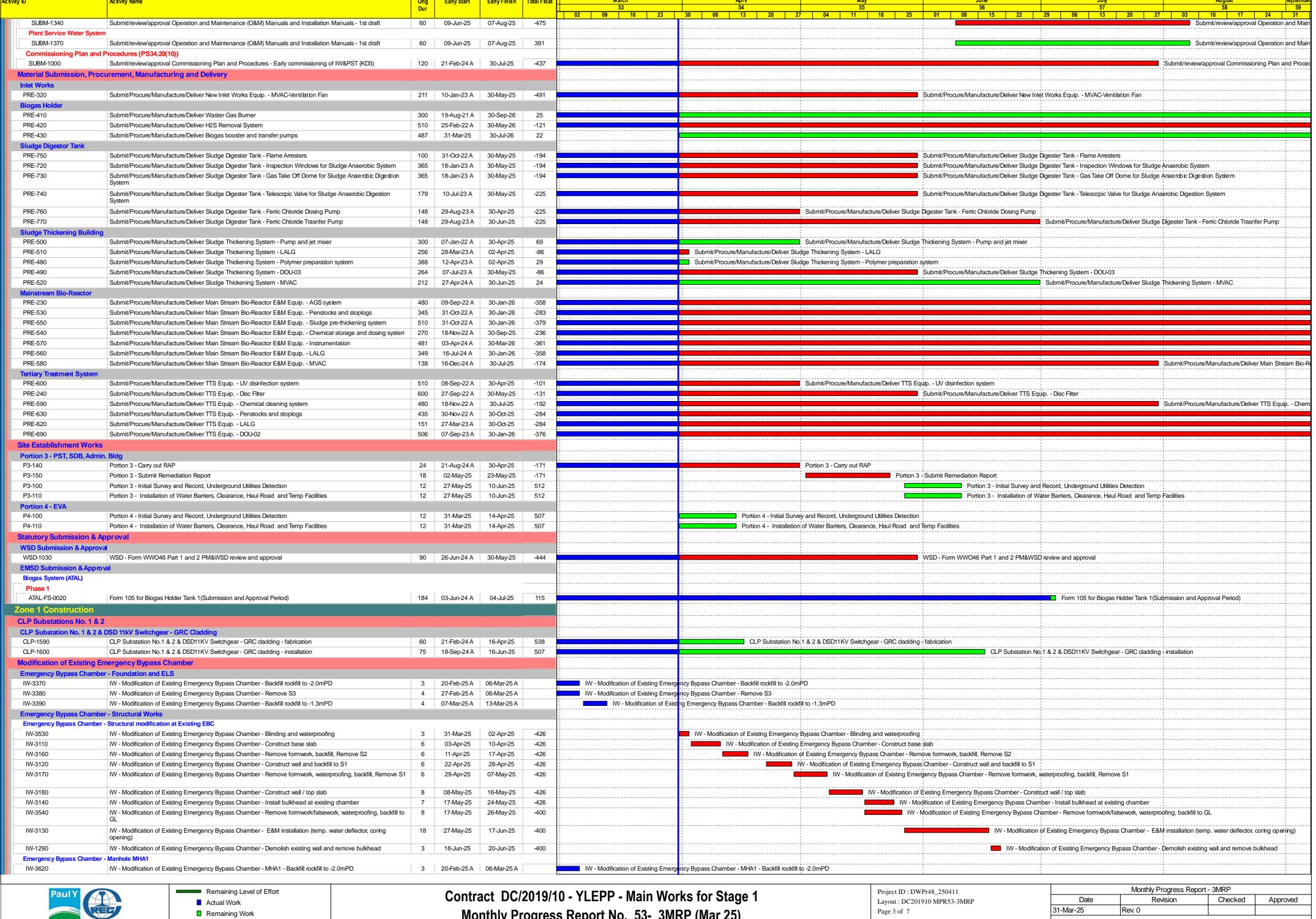




Remaining Work Critical Remaining Work ◆ Milestone

Monthly Progress Report No. 53- 3MRP (Mar 25)

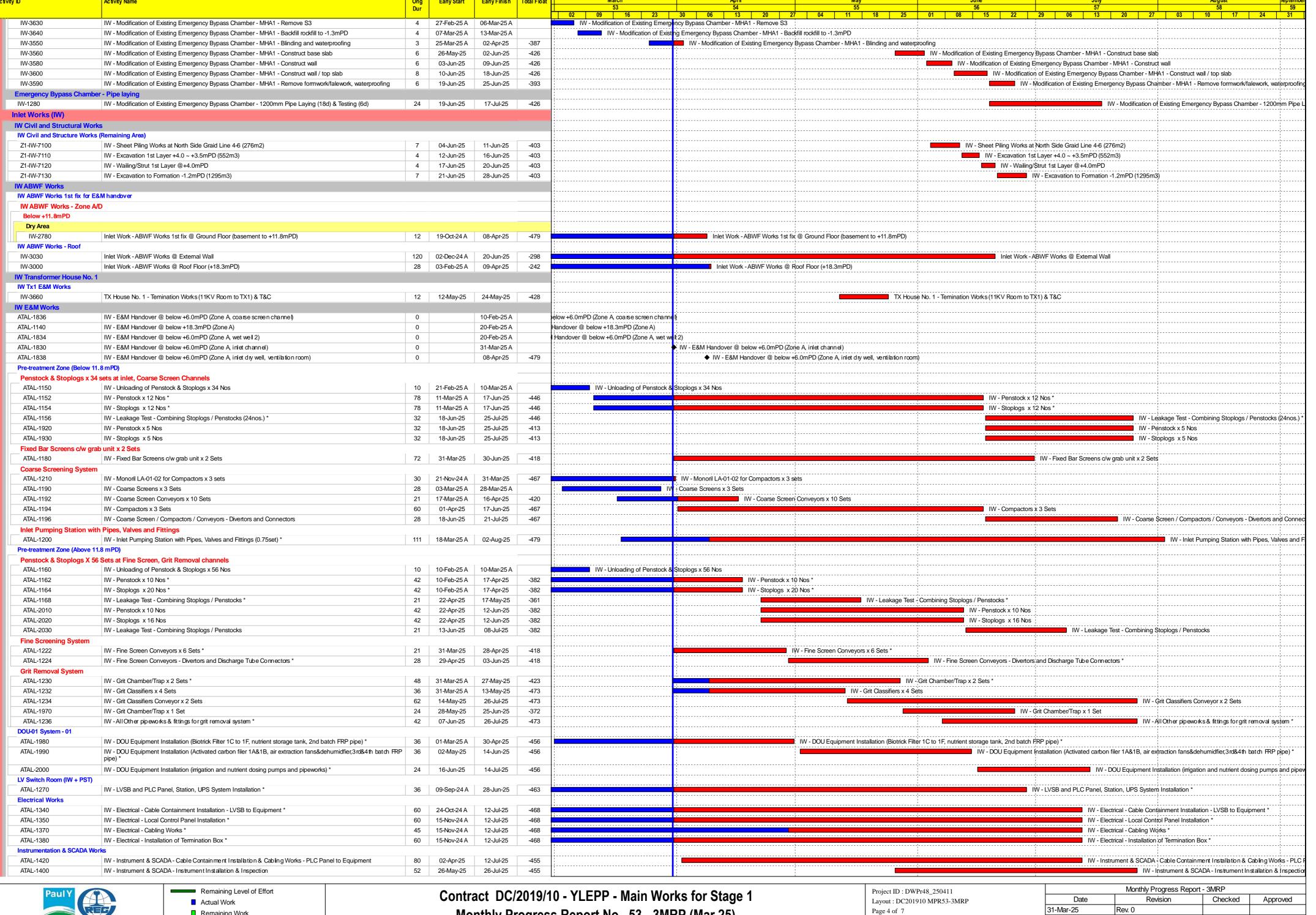
World by Frogress Report - Sivil Ci			
Date	Revision	Checked	Approved
31-Mar-25	Rev. 0		





Monthly Progress Report No. 53- 3MRP (Mar 25)

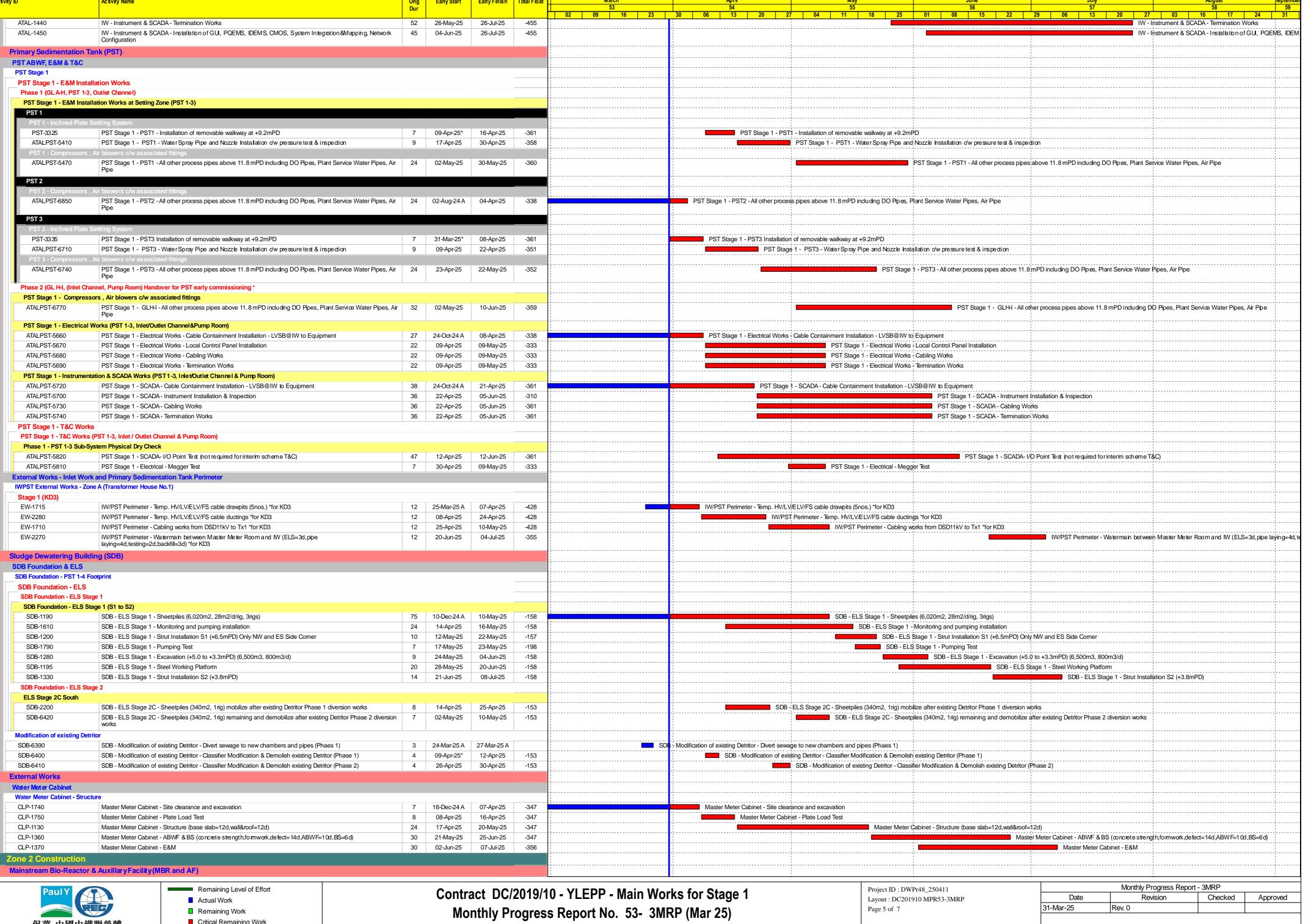
Worlding Frogress Report - Sivila			
Date	Revision	Checked	Approved
31-Mar-25	Rev. 0		





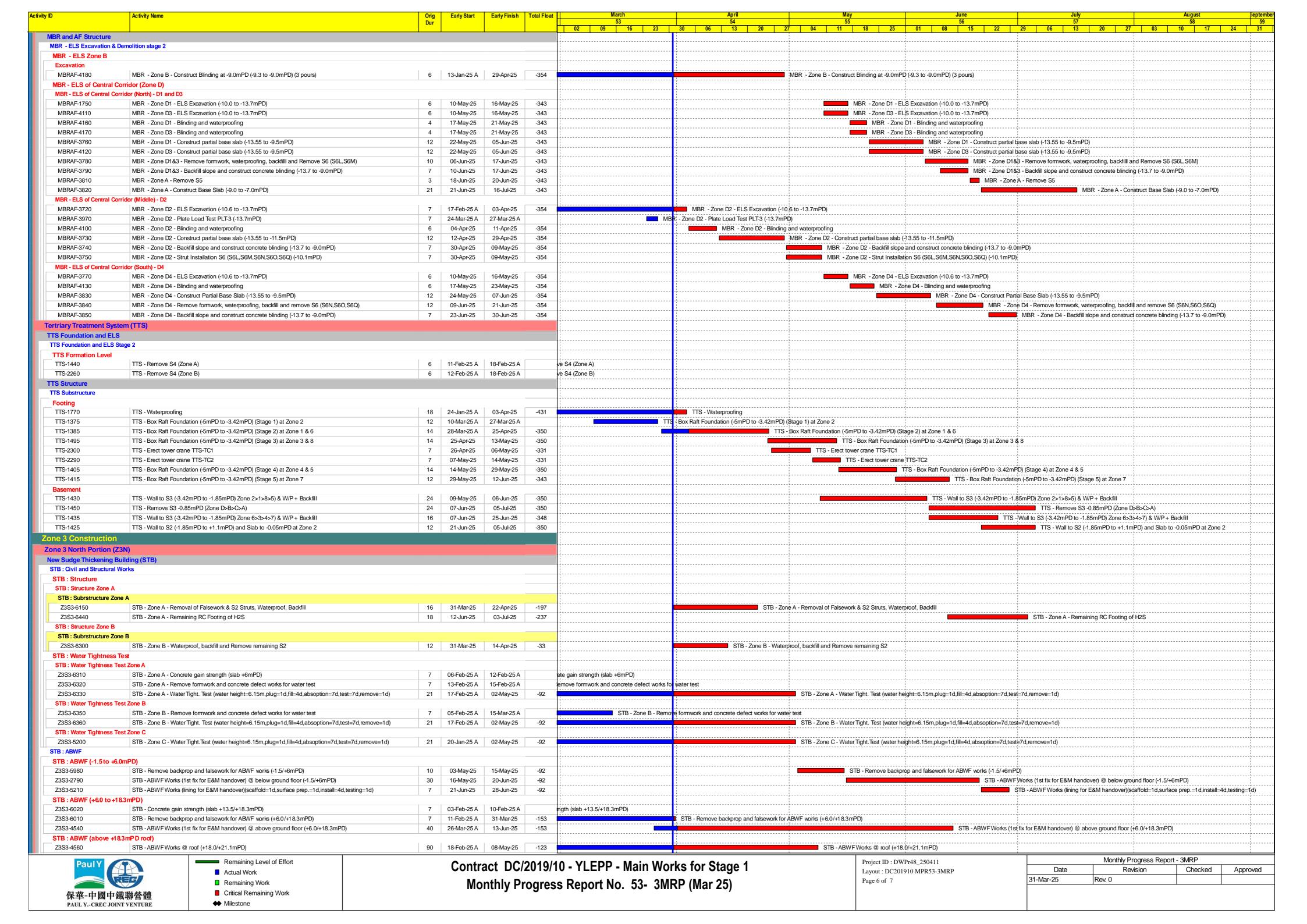
Remaining Work Critical Remaining Work ◆ Milestone

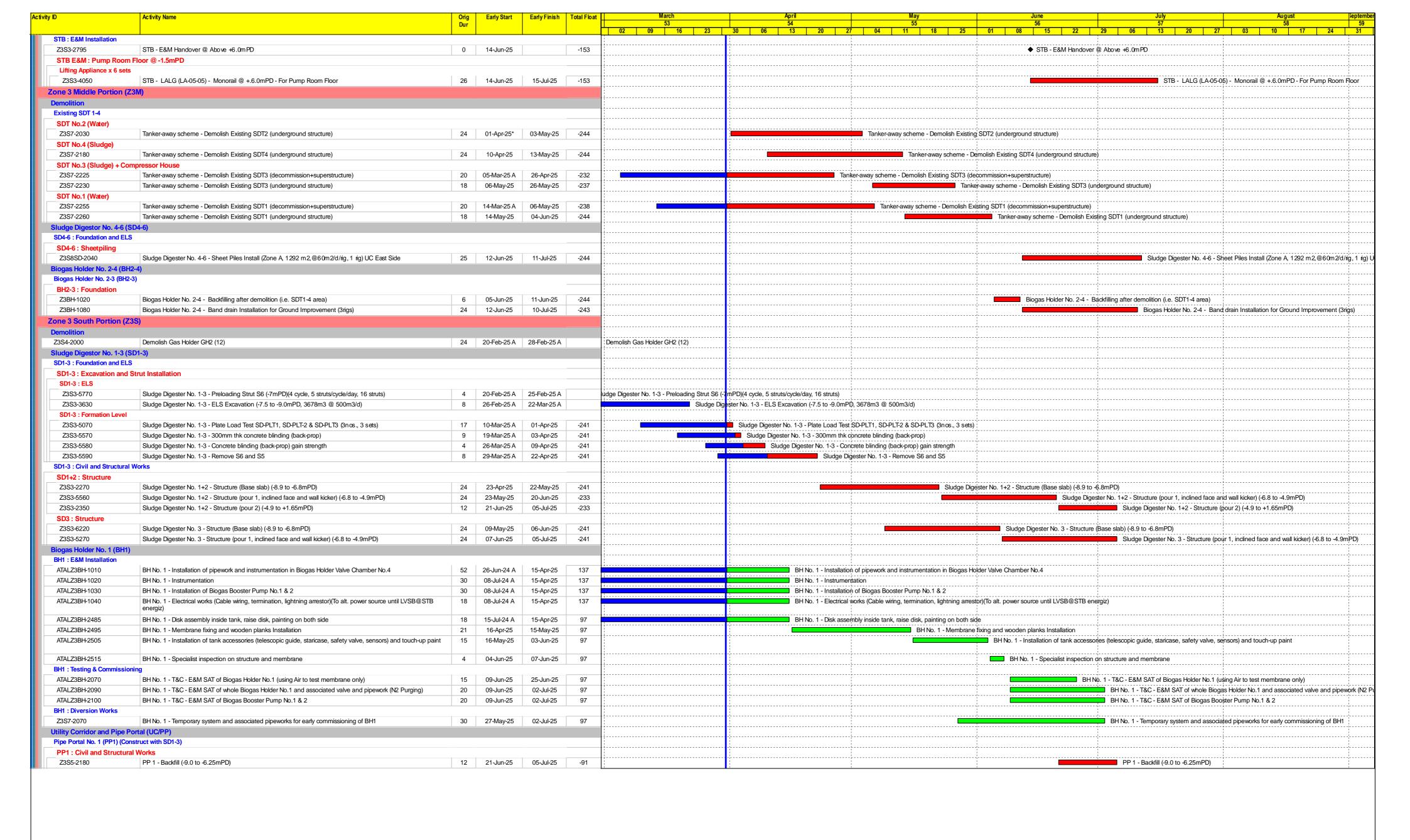
Monthly Progress Report No. 53- 3MRP (Mar 25)



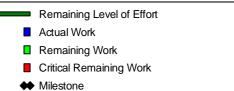


iviontniy Progress Report - 3iviRP			
Date	Revision	Checked	Approved
31-Mar-25	Rev. 0		





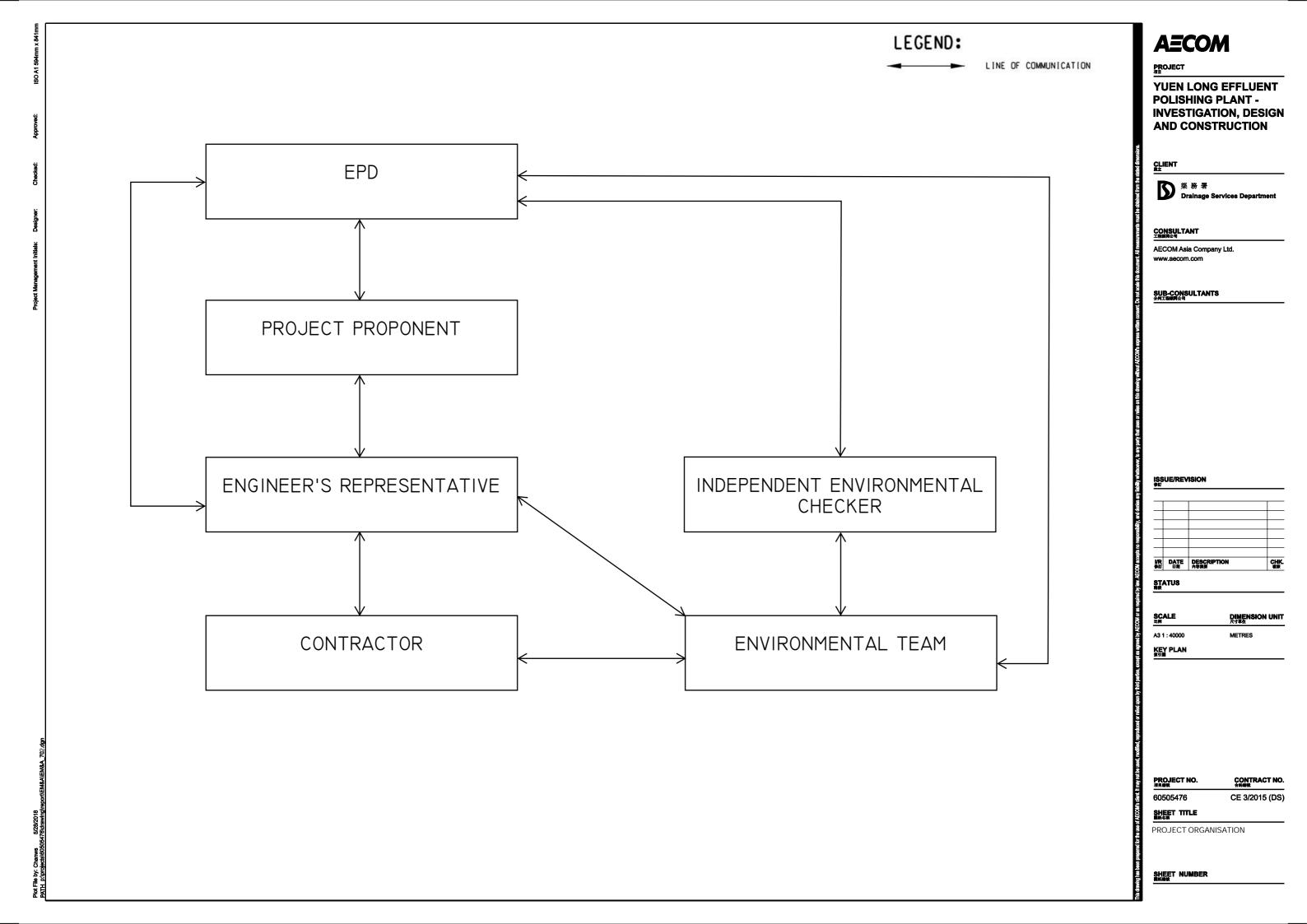




Project ID: DWPr48_250411 Layout: DC201910 MPR53-3MRP Page 7 of 7

Monthly Progress Report - 3MRP Date Revision Checked Approve				
0				

Appendix B Project Organization Chart



Appendix C Action and Limit Levels

Action and Limit Levels for Air Quality

Parameters	Action Level	Limit Level
1-hour TSP Level in µg/m³	1 For baseline level ≤ 384 μg/m 3 , Action level = (baseline level * 1.3 + Limit level)/2; For baseline level > 384 μg/m 3 , Action level = Limit level	500 μg/m ³

Notes:

- 1. The Action Level for 1-hour TSP Level:
- a) AM1 = $(63*1.3 + 500) / 2 = 291 \mu g/m^3$;
- b) AM2 = $(70*1.3 + 500) / 2 = 296 \mu g/m^3$.

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	Surface & Middle 5%-ile of baseline data for surface and middle layer. Bottom 5%-ile of baseline data for bottom layer.	Surface & Middle 4 mg/L or 1%-ile of baseline data for surface and middle layer. Bottom 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
	Abundance of all avifauna species (including but not only limited to overwintering waterbirds) in the community		Significant decline in any of these parameters for three consecutive months.
Transect	Species diversity of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Abundance of species with conservation importance only	Significant decline ^{1,2} in any of these parameters during the current monitoring	
	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	month relative to the corresponding month during the baseline survey.	
	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



Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipement

Verification Test Date:	13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25
Unit-under-Test- Model No.:		Sibata LD-5R		•	
Unit-under-Test Serial No.:		851816		•	
Our Report Refrence No.:	R	PT-23-HVS-00	67	•	
Calibration Location:	AM2,	location near	the Leachate Tre	eatment Works within the NENTX Landfill	

Standard Equipment Information

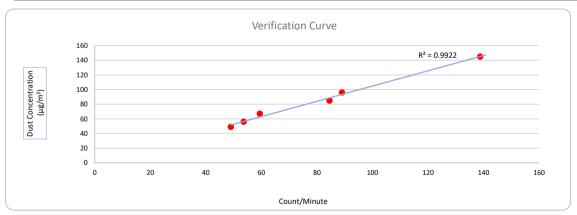
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

Equipement Vertification Result

Verification		Duration			Results from	Calibrated Equipement	Results from Standard Equipment	
Test No.	Date	Start-time	End-time	ne Elapsed Time (in min) Total Counts		Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis	
1	28/11/23	8789.68	8792.68	180.00	16023	89	96	
2	28/11/23	8792.68	8795.68	180.00	15213	85	85	
3	28/11/23	8795.68	8798.68	180.00	8823	49	49	
4	30/11/23	8798.68	8801.68	180.00	10698	59	67	
5	30/11/23	8801.68	8804.68	180.00	24980	139	145	
6	30/11/23	8804.68	8807.68	180.00	9653	54	56	

Linear Regression of y on x





Operated By: Andy Li Date: 14-09-2024

Project Technician, Environmental

Checked By: Tandy Tse Date: 14-09-2024

Senior Consultant, Environmental



Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipement

Verification Test Date:	13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25
Unit-under-Test- Model No.:		Sibata LD-5R		-	
Unit-under-Test Serial No.:		882106		-	
Our Report Refrence No.:	F	PT-23-HVS-00	168	-	
Calibration Location:	AM2,	location near	the Leachate Tre	eatment Works within the NENTX Landfill	
-					_

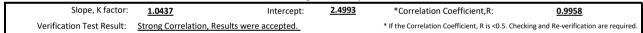
Standard Equipment Information

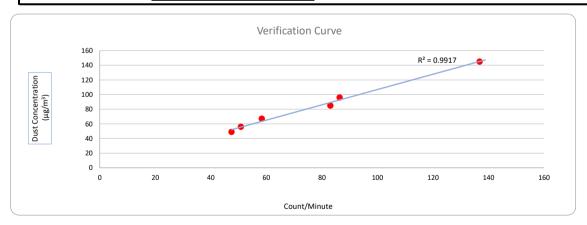
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

Equipement Vertification Result

Verification		Duration			Results from	Calibrated Equipement	Results from Standard Equipment	
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis	
1	28/11/23	8789.68	8792.68	180.00	15546	86	96	
2	28/11/23	8792.68	8795.68	180.00	14944	83	85	
3	28/11/23	8795.68	8798.68	180.00	8543	47	49	
4	30/11/23	8798.68	8801.68	180.00	10499	58	67	
5	30/11/23	8801.68	8804.68	180.00	24622	137	145	
6	30/11/23	8804.68	8807.68	180.00	9145	51	56	

Linear Regression of y on x





Operated By:

Andy Li

Project Technician, Environmental

Date: 14-09-2024

Checked By: Tandy Tse Date: 14-09-2024

Senior Consultant, Environmental

Noise Quality Monitoring Equipment

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

RION

Type No .:

NL-53 (Serial No.: 01130784)

Microphone:

UC-59 (Serial No.: 24908)

Preamplifier:

NH-25 (Serial No.:33675)

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: 26 February 2025

Date of calibration: 27 February 2025

Date of NEXT calibration: 26 February 2026

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 27 February 2025

Certificate No.: APJ24-154-CC003

Page 1 of 4



Calibration Precaution: 1.

- 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.

Calibration Conditions: 2.

Air Temperature:

25.8°C

Air Pressure:

1006 hPa

Relative Humidity:

54.9 %

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

Sett	ing of Uni	t-under-t	est (UUT)	App	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4	

Linearity

Sett	ing of U	nit-under-t	est (UUT)	Арр	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Sett	ing of Uni	t-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
	m.	ID 4 CDI	Fast	0.4	1000	94.0	Ref	
30-130	dBA	SPL	Slow	94	1000	94.0	±0.3	

Certificate No.: APJ24-154-CC003

Page 2 of 4



Frequency Response

Linear Response

Sett	ing of Uni	t-under-t	est (UUT)	App	lied value	UUT Reading,	g, IEC 61672 Class 1 Specification, dB
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	
			Fast		31.5	94.2	±2.0
					63	94.2	±1.5
		on.			125	94.2	±1.5
					250	94.1	±1.4
30-130	dB	SPL		94	500	94.1	±1.4
					1000	94.0	Ref
					2000	93.7	±1.6
		<u> </u>		4000	92.5	±1.6	

A-weighting

Sett	ing of Ur	it-under-t	est (UUT)	App	lied value	UUT Reading,	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	
			Fast	94	31.5	54.9	-39.4 ±2.0
					63	68.0	-26.2 ±1.5
					125	78.0	-16.1 ±1.5
	10.4	CDI			250	85.5	-8.6±1.4
30-130	dBA	dBA SPL			500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.9	+1.2 ±1.6
					4000	93.5	+1.0±1.6

C-weighting

Sett	ing of Uni	t-under-t	est (UUT)	App	ied value	UUT Reading,	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	
		1250 1200	Fast	94	31.5	91.2	-3.0 ±2.0
					63	93.4	-0.8 ±1.5
					125	94.0	-0.2 ±1.5
	IDG				250	94.1	-0.0 ±1.4
30-130	dBC	SPL			500	94.1	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.5	-0.2 ±1.6
					4000	91.7	-0.8 ±1.6

Certificate No.: APJ24-154-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	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.10
	250 Hz	± 0.05
	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.



Page 4 of 4

Certificate of Calibration

Description:

Sound Level Meter

Manufacturer:

RION

Type No .:

NL-53 (Serial No.: 01130783)

Microphone:

UC-59 (Serial No.: 25498)

Preamplifier:

NH-25 (Serial No.:33674)

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: 26 February 2025

Date of calibration: 27 February 2025

Date of NEXT calibration: 26 February 2026

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 27 February 2025

Certificate No.: APJ24-154-CC002

Page 1 of 4

Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

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:

54.9 %

3. Calibration Equipment:

Туре

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. W	eighting	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)			Арр	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	A SPL	Fast	104	1000	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. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
	175.4	CDI	Fast	0.4	1000	94.0	Ref
30-130 dBA	SPL	Slow	94 100	1000	94.0	±0.3	

Certificate No.: APJ24-154-CC002

(A+A) *L Page 2 of 4



Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				App	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94	31.5	94.2	±2.0
			Fast		63	94.1	±1.5
		SPL			125	94.1	±1.5
20.722	, tra				250	94.0	±1.4
30-130	dB				500	94.0	±1.4
					1000	94.0	Ref
					2000	93.6	±1.6
					4000	92.5	±1.6

A-weighting

Sett	ing of Uni	t-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.7	-39.4 ±2.0
				63	67.9	-26.2 ±1.5	
		SA SPL	Fast	94	125	78.0	-16.1 ±1.5
	In I				250	85.4	-8.6 ±1.4
30-130	dBA				500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.8	+1.2 ±1.6
					4000	93.5	+1.0 ±1.6

C-weighting

Sett	Setting of Unit-under-test (UUT)				lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
			Fast		31.5	91.2	-3.0 ±2.0
					63	93.3	-0.8 ±1.5
		C SPL		94	125	93.9	-0.2 ±1.5
12021222	In a				250	94.1	-0.0 ±1.4
30-130	dBC				500	94.0	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.4	-0.2 ±1.6
					4000	91.7	-0.8 ±1.6

Certificate No.: APJ24-154-CC002



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	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	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.



Page 4 of 4

Certificate of Calibration

Description:

Sound Level Meter

Manufacturer:

RION

Type No .:

NL-53 (Serial No.: 01130785)

Microphone:

UC-59 (Serial No.: 25374)

Preamplifier:

NH-25 (Serial No.:33676)

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: 26 February 2025

Date of calibration: 27 February 2025

Date of NEXT calibration: 26 February 2026

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 27 February 2025

Certificate No.: APJ24-154-CC001

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:

54.9 %

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. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130 dBA	dBA	A SPL	Fast	104	1000	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. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20.120	10.4	CDI	Fast	0.4	1000	94.0	Ref
30-130 dBA SI	SPL	Slow	94	1000	94.0	±0.3	

Certificate No.: APJ24-154-CC001

Page 2 of 4

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax: (852) 2668 6946

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Wo	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
			Fast	94	31.5	94.3	±2.0
					63	94.1	±1.5
					125	94.1	±1.5
00.100	l n				250	94.1	±1.4
30-130	dB	SPL			500	94.0	±1.4
					1000	94.0	Ref
					2000	93.7	±1.6
					4000	92.6	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 ±2.0
				st 94	63	68.0	-26.2 ±1.5
					125	78.0	-16.1 ±1.5
20.120	10.4				250	85.4	-8.6 ±1.4
30-130	dBA SPL	SPL	Fast		500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.9	+1.2 ±1.6
				4000	93.6	+1.0 ±1.6	

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.0 ±2.0
		dBC SPL Fast			63	93.3	-0.8 ±1.5
					125	93.9	-0.2 ±1.5
20.120	IDG				250	94.1	-0.0 ±1.4
30-130	abc SPL		94	500	94.1	-0.0 ±1.4	
					1000	94.0	Ref
					2000	93.5	-0.2 ±1.6
				4000	91.8	-0.8 ±1.6	

Certificate No.: APJ24-154-CC001





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	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	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.: APJ24-154-CC001

(A+A)*L S
Page 4 of 4

Certificate of Calibration

for

Description: Sound Level Calibrator

Manufacturer: RION

Type No.: NC-75

Serial No.: 34724244

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: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa

Laboratory Manager

Date of issue: 24 July 2024

Certificate No.: APJ23-154-CC002

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:

23.4 °C
1005 hPa
56.7 %

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	AV230128	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level dB	Accept upper level	Measured value
dB		dB	dB
94.0	93.6	94.4	93.9

Note:

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



Certificate No.: APJ23-154-CC002

Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No .:

NC-75

Serial No .:

34724245

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: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Certified by:

Mr. Ng Yan Wa

Laboratory Manager

Date of issue: 24 July 2024

Certificate No.: APJ23-154-CC003

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:	23.4°C
Air Pressure:	1005 hPa
Relative Humidity:	56.7 %

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	AV230128	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level dB	Accept upper level	Measured value
dB		dB	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.: APJ23-154-CC003

Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No .:

NC-75

Serial No .:

34524163

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: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 24 July 2024

Certificate No.: APJ24-010-CC001

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:	23.4°C
Air Pressure:	1005 hPa
Relative Humidity:	56.7 %

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	AV230128	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	93.9

Note:

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



Certificate No.: APJ24-010-CC001

Water Quality Monitoring Equipment



專業化驗有限公司 **OUALITY PRO TEST-CONSULT LIMITED**

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BE030347

Date of Issue

: 03 April 2025

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit 1608, 16/F, Tower B, Manulife Fin. Centre 223 - 231 Wai Yip Street, Kwun Tong,

Kowloon (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi Parameters)

Manufacturer :

YSI

Serial Number:

22D100436

Date of Received:

31 March 2025

Date of Calibration:

01 April 2025

Date of Next Calibration:

30 June 2025

Request No.:

D-BE030347

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working

Thermometer Calibration Procedure

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance (pH unit)	Result	
4.00	4.16	0.16	Satisfactory	
7.42	7.50	0.08	Satisfactory	
10.01	10.07	0.06	Satisfactory	

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	C) Display Reading		Result	
9.7	9.9	0.2	Satisfactory	
19.5	19.4	-0.1	Satisfactory	
32.3	31.7	-0.6	Satisfactory	

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance (mg/L)	Result
9.28	9,36	0.08	Satisfactory
6.21	6.08	-0.13	Satisfactory
3,32	3.16	-0.16	Satisfactory
0.01	0.12	0.11	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

> FUNG Yuen-ching Laboratory Manager



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email:info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BE030347

Date of Issue

: 03 April 2025

Page No.

:2 of 2

PART D - CALIBRATION RESULT

(4) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.77	-2.3	Satisfactory
20	19.59	-2.05	Satisfactory
30	29,31	-2.3	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (a) (%)	Result	
0	0.17		Satisfactory	
10	10.76	7.6	Satisfactory	
20	19.14	-4.3	Satisfactory	
100	94.58	-5.42	Satisfactory	
800	732.96	-8.38	Satisfactory	

Tolerance of Turbidity should be less than ± 10.0 (%)

Remark(s): -

- The "Date of Next Calibration" is recommended according to best practice principles followed by QPT or relevant international standards.
- The results relate only to the calibrated equipment as received.
- The performance of the equipment stated in this report is checked using independent reference material, with results compared against a calibrated secondary source.
 "Displayed Reading" denotes the figure shown on the item under calibration/checking, regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable to similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

--- END OF REPORT ---

⁽a) For O NTU, Display Reading should be less than 1 NTU

Appendix E Environmental Monitoring Schedule

Environmental Monitoring Schedule (April 2025)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2 WQM Mid Flood (09:09) Mid Ebb (13:29)	3 AQM, NM	4 WQM Mid Flood (08:33) Mid Ebb (14:27)	5
6	7 WQM Mid Flood (08:34) Mid Ebb (12:53)	8	9 AQM, NM, WQM Mid Flood (08:34) Mid Ebb (12:53)	10	11 WQM Mid Flood (08:33) Mid Ebb (14:27)	12
13	14 WQM, EMB (Night), ANRM, AQM, NM Mid Flood (08:34) Mid Ebb (12:53)	15	16 WQM, EMB (Day) Mid Flood (08:34) Mid Ebb (12:53)	17 AQM	18 WQM Mid Flood (08:33) Mid Ebb (14:27)	19
20	21 WQM Mid Flood (08:34) Mid Ebb (12:53)	22	23 AQM, NM, WQM Mid Flood (17:01) Mid Ebb (09:30)	24	25 WQM Mid Flood (08:33) Mid Ebb (14:27)	26
27	28 WQM Mid Flood (08:34) Mid Ebb (12:53)	29 AQM, NM	30 WQM Mid Flood (08:34) Mid Ebb (12:53)			

Remarks

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

- 6. Ardeid Night Roost Monitoring (ANRM): Once per month.
- 7. Air Quality Location: AM1 and AM2.
- 8. Noise Monitoring Location: CM1, CM2 and CM3.
- 9. Water Quality Monitoring Location: M1, M2, M3.

Environmental Monitoring Schedule (May 2025)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2 WQM Mid Flood (09:13) Mid Ebb (14:59)	3 AQM
4	5 WQM Mid Flood (10:18) Mid Ebb (16:42)	6	7 WQM Mid Flood (11:08) Mid Ebb (18:19)	8	9 AQM, NM, WQM Mid Flood (15:03) Mid Ebb (17:14)	10
11	12 WQM Mid Flood (16:49) Mid Ebb (12:08)	13 EMB (Night), ANRM	14 WQM Mid Flood (18:35) Mid Ebb (13:21)	15 AQM, NM	16 WQM Mid Flood (10:15) Mid Ebb (13:08)	17
18	19 WQM, EMB (Day) Mid Flood (09:16) Mid Ebb (15:25)	20	21 WQM, AQM, NM Mid Flood (09:50) Mid Ebb (16:23)	22	23 WQM Mid Flood (10:32) Mid Ebb (17:42)	24
25	26 WQM Mid Flood (09:16) Mid Ebb (18:20)	27 AQM, NM	28 WQM Mid Flood (17:14) Mid Ebb (12:15)	29	30 WQM Mid Flood (17:12) Mid Ebb (13:20)	31

Remarks:

- 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
- 2. Air Quality Monitoring (AQM): 3 x 1-hour TSP Monitoring per 6 days.
- 3. Noise Monitoring (NM): Leq (30 min) during between 0700 1900.
- 4. Water Quality Monitoring (WQM): Once per day for 3 days per week.

- 5. Ecological Monitoring of Birds (**EMB**): Once per month.
- 6. Ardeid Night Roost Monitoring (ANRM): Once per month.
- 7. Air Quality Location: AM1 and AM2.
- 8. Noise Monitoring Location: CM1, CM2 and CM3.
- 9. Water Quality Monitoring Location: M1, M2, M3.

Environmental Monitoring Schedule (June 2025)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2 WQM, AQM, NM Mid Flood (10:18) Mid Ebb (16:42)	3	4 WQM Mid Flood (11:08) Mid Ebb (18:19)	5	6 WQM Mid Flood (15:03) Mid Ebb (17:14)	7 AQM
8	9 WQM Mid Flood (16:49) Mid Ebb (12:08)	10	11 WQM Mid Flood (18:35) Mid Ebb (13:21)	12 EMB (Day)	13 WQM, AQM, NM Mid Flood (10:15) Mid Ebb (13:08)	14
15	16 WQM Mid Flood (09:16) Mid Ebb (15:25)	17 EMB (Night), ANRM	18 WQM Mid Flood (09:50) Mid Ebb (16:23)	19 AQM, NM	20 WQM Mid Flood (10:32) Mid Ebb (17:42)	21
22	23 WQM Mid Flood (09:16) Mid Ebb (18:20)	24	25 WQM, AQM, NM Mid Flood (17:14) Mid Ebb (12:15)	26	27 WQM Mid Flood (17:12) Mid Ebb (13:20)	28
29	30 WQM, AQM, NM Mid Flood (08:44) Mid Ebb (15:03)					

Remarks

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

- 6. Ardeid Night Roost Monitoring (ANRM): Once per month.
- 7. Air Quality Location: AM1 and AM2.
- 8. Noise Monitoring Location: CM1, CM2 and CM3.
- 9. Water Quality Monitoring Location: M1, M2, M3.

Environmental Monitoring Schedule (July 2025)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2 WQM Mid Flood (09:09) Mid Ebb (13:29)	3	4 WQM Mid Flood (08:33) Mid Ebb (14:27)	5 AQM
6	7 WQM Mid Flood (08:34) Mid Ebb (12:53)	8	9 WQM Mid Flood (08:34) Mid Ebb (12:53)	10	11 WQM, AQM, NM Mid Flood (08:33) Mid Ebb (14:27)	12
13	14 WQM, EMB (Night), ANRM Mid Flood (08:34) Mid Ebb (12:53)	15	16 WQM, EMB (Day) Mid Flood (08:34) Mid Ebb (12:53)	17 AQM, NM	18 WQM Mid Flood (08:33) Mid Ebb (14:27)	19
20	21 WQM Mid Flood (08:34) Mid Ebb (12:53)	22	23 AQM, NM, WQM Mid Flood (17:01) Mid Ebb (09:30)	24	25 WQM Mid Flood (08:33) Mid Ebb (14:27)	26
27	28 WQM Mid Flood (08:34) Mid Ebb (12:53)	29 AQM, NM	30 WQM Mid Flood (08:34) Mid Ebb (12:53)	31		

Remarks

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

- 6. Ardeid Night Roost Monitoring (ANRM): Once per month.
- 7. Air Quality Location: AM1 and AM2.
- 8. Noise Monitoring Location: CM1, CM2 and CM3.
- 9. 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 02/2023

Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

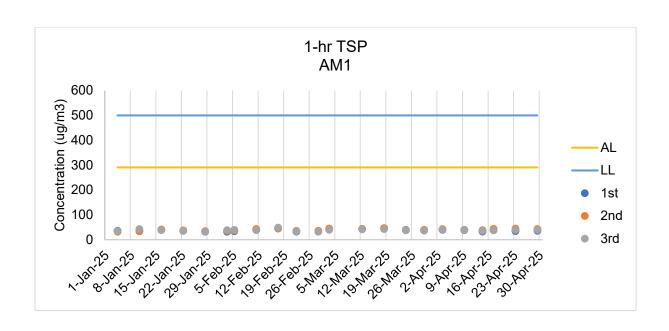
AM1 - Topfine Machinery (China) Co. Ltd.

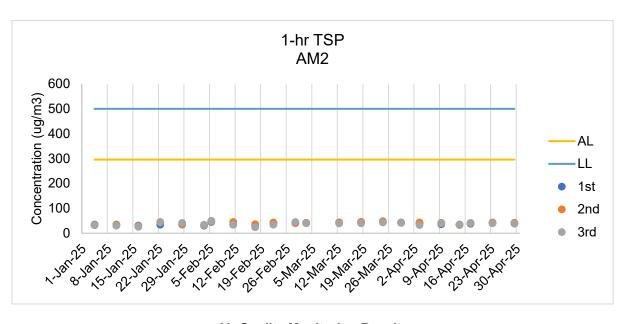
•			1-	-hour TSP (μg/m	l ³)		
Date	Weather	Start	1st	2nd	3rd	Action Level	Limit Level
Date	Condition	Time	Measurement	Measurement	Measurement	(ug/m ³)	(ug/m ³)
3/4/2025	Fine	8:11	40	43	41		
9/4/2025	Fine	8:34	39	40	40		
14/4/2025	Fine	8:09	33	39	36	291	500
17/4/2025	Fine	8:11	39	44	38	291	300
23/4/2025	Fine	8:29	35	45	40		
29/4/2025	Fine	9:00	36	43	40		
		Min		38			
		Max		45			
		Average		39			

AM2 - Squatter house at the west of Yuen Long STW

-			1	1-hour TSP (μg/m³)				
Date	Weather	Start	1st	2nd	3rd	Action Level	Limit Level	
	Condition	Time	Measurement	Measurement	Measurement	(ug/m ³)	(ug/m ³)	
3/4/2025	Fine	13:01	39	43	33			
9/4/2025	Fine	13:23	36	42	40			
14/4/2025	Fine	14:01	35	33	34	296	500	
17/4/2025	Fine	14:09	38	41	41	290	300	
23/4/2025	Fine	13:44	41	43	40			
29/4/2025	Fine	13:09	40	42	38			
		Min		33				
		Max		43				
		Average		39				

<u>Underline</u>: Exceedance of Action Level <u>Underline and Bold</u>: Exceedance of Limit Level





Air Quality Monitoring Results

Noise Monitoring Results

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)
Date		UD(A)	UD(A)	UD(A)	(111/5)	weather	UD(A)
3/4/2025	10:23	57.5	59.5	56.5	0.1	sunny	75
9/4/2025	10:39	58.3	60.2	57.5	0.1	sunny	75
14/4/2025	11:22	59.6	61.8	58.6	0.1	sunny	75
23/4/2025	11:07	57.6	60.2	56.4	0.1	sunny	75
29/4/2025	10:25	59.4	62.8	57.7	1.1	sunny	75
	Max	59.6			•	•	
	Min	57.5					

CM2 - Squatter house to the west of YLSTW

			L ₁₀	L ₉₀	Wind Speed		Limit Level
Date	Start Time	L _{eq} 30min dB(A)	dB(A)	dB(A)	(m/s)	Weather	dB(A)
3/4/2025	13:01	58.5	60.8	56.5	0.0	sunny	75
9/4/2025	13:23	57.5	59.7	56.5	0.0	sunny	75
14/4/2025	14:01	58.7	60.5	57.4	1.7	sunny	75
23/4/2025	13:44	58.8	61.5	57.1	0.2	sunny	75
29/4/2025	13:09	57.8	59.5	56.1	0.7	sunny	75
	Max	58.8					
	Min	57.5					

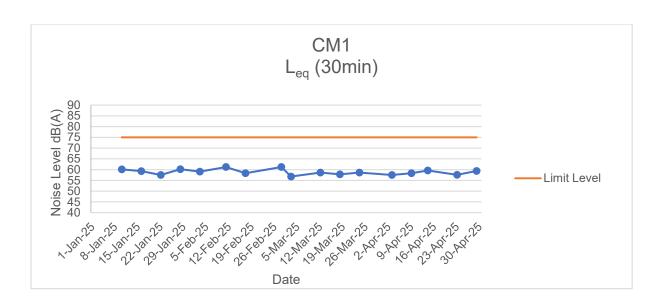
CM3 - Squatter house to the east of YLSTW

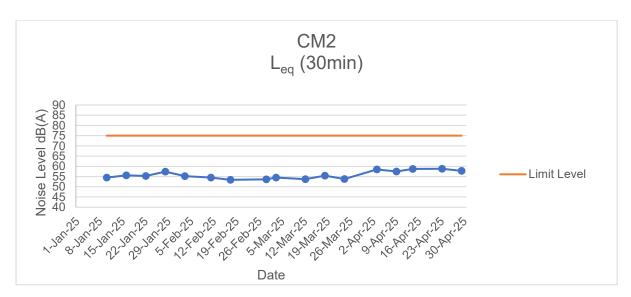
			L ₁₀	L ₉₀	Wind Speed		Limit Level
Date	Start Time	L _{eq} 30min dB(A)	dB(A)	dB(A)	(m/s)	Weather	dB(A)
3/4/2025	11:50	55.2	58.2	52.8	0.0	sunny	75
9/4/2025	12:08	53.9	55.2	51.2	0.8	sunny	75
14/4/2025	12:48	52.6	54.6	50.6	0.1	sunny	75
23/4/2025	12:31	54.5	55.6	52.2	0.1	sunny	75
29/4/2025	11:52	53.9	55.9	51.2	0.6	sunny	75
	Max	55.2		•	•		•
	Min	52.6					

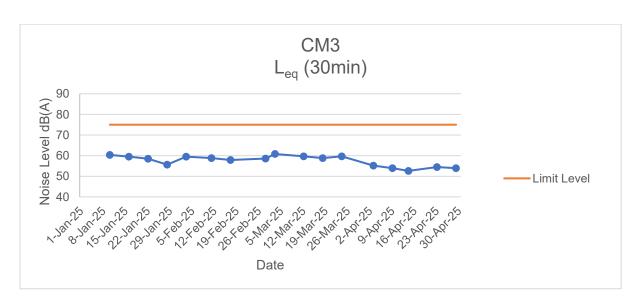
Note:

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.







Water Quality Monitoring Results

									Ф						In-s	tu Measu	rement							oratory alysis
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ation (%)	DO (ı	mg/L)	Turbidity (NTU		uspended s (mg/L)
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value Ave	. Value	Ave.
M1	2/4/2025	Mid-Flood	Sunny	Low	15:51	2.4	M	1.20	1	0.081	171.137	7.16	7.16	3.11	3.15	21.1	21.10	37.5	36.55	2.82	2.75	22.08 22.1	2 29	31
M1	2/4/2025	Mid-Flood	Sunny	Low	15:52	2.4	M	1.20	2	0.001	17 1.107	7.15	7.10	3.18	0.10	21.1	1	35.6	00.00	2.68	2.7	22.15	32	01
M2	2/4/2025	Mid-Flood	Sunny	Low	16:23	2.1	M	1.05	1	0.076	161.549	7.18	7.19	3.28	3.25	21.1	21.10	37.9	37.50	2.85	2.82	21.85 21.82 21.82	38	37
M2	2/4/2025	Mid-Flood	Sunny	Low	16:23	2.1	M	1.05	2	0.070	101.543	7.19	7.10	3.21	3.23	21.1	21.10	37.1	37.30	2.79	2.02	21.82	36	37
M3	2/4/2025	Mid-Flood	Sunny	Low	16:44	1.9	M	0.95	1	0.093	178.11	7.21	7.20	3.59	3.57	21.1	21.15	50.1	49.21	3.77	3.70	31.69 31.7	5 43	42
M3	2/4/2025	Mid-Flood	Sunny	Low	16:44	1.9	M	0.95	2	0.000	170.11	7.19	1.20	3.55	3.31	21.2	21.10	48.3	40.21	3.63	3.70	31.81	41	72
M1	2/4/2025	Mid-Ebb	Sunny	Low	9:33	2.5	M	1.25	1	0.074	327.628	7.18	7.18	2.89	2.89	20.9	20.95	35.8	35.11	2.69	2.64	21.99 22.0	s 36	34
M1	2/4/2025	Mid-Ebb	Sunny	Low	9:33	2.5	M	1.25	2	0.074	327.020	7.18	7.10	2.89	2.09	21.0	20.93	34.4	33.11	2.59	2.04	22.1	32	34
M2	2/4/2025	Mid-Ebb	Sunny	Low	9:01	2.3	M	1.15	1	0.064	323.992	7.19	7.20	2.65	2.61	20.9	20.90	37.9	37.24	2.85	2.80	21.85 21.77 21.8	1 40	40
M2	2/4/2025	Mid-Ebb	Sunny	Low	9:01	2.3	M	1.15	2	0.004	323.992	7.21	1.20	2.56	2.01	20.9	20.90	36.6	31.24	2.75	2.00	21.77	39	40
M3	2/4/2025	Mid-Ebb	Sunny	Low	9:48	2	M	1.00	1	0.07	316.182	7.2	7.20	3.37	3.34	20.9	20.90	49.2	49.94	3.7	3.76	32.05	32	33
M3	2/4/2025	Mid-Ebb	Sunny	Low	9:48	2	M	1.00	2	0.07	310.102	7.2	1.20	3.3	5.54	20.9	20.90	50.7	45.94	3.81	3.70	32	33	- 33

- 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	D	0	N.	TU	S	S
Location	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	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									9.						ln-s	itu Measu	rement							aboratory Analysis
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ration (%)	DO (r	mg/L)	Turbidity (NT		al Suspended olids (mg/L)
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value Av	e. Val	ue Ave.
M1	4/4/2025	Mid-Flood	Cloudy	Low	17:30	2.5	M	1.25	1	0.082	176.062	7.18	7.18	2.65	2.67	21.5	21.55	35.6	35.95	2.68	2.71	15.88	2.	5 3
M1	4/4/2025	Mid-Flood	Cloudy	Low	17:31	2.5	M	1.25	2	0.002	170.002	7.18	7.10	2.68	2.07	21.6	1.00	36.3	00.00	2.73	2.71	15.98	3	3
M2	4/4/2025	Mid-Flood	Cloudy	Low	17:58	2.2	M	1.10	1	0.086	188.993	7.19	7.20	2.75	2.73	21.5	21.55	36.6	36.00	2.75	2.71	16.77	38 3	3
M2	4/4/2025	Mid-Flood	Cloudy	Low	17:58	2.2	M	1.10	2	0.000	100.333	7.21	1.20	2.71	2.10	21.6	21.55	35.4	30.00	2.66	2.71	16.98	2.	5
M3	4/4/2025	Mid-Flood	Cloudy	Low	18:06	2	M	1.00	1	0.076	187.405	7.21	7 21	3.48	3.44	21.5	21.50	50.0	50.55	3.76	3.80	21.25	32 2.	5 2
M3	4/4/2025	Mid-Flood	Cloudy	Low	18:06	2	M	1.00	2	0.070	107.403	7.21	7.21	3.39	3.44	21.5	21.50	51.1	30.33	3.84	3.00	21.38	2.	5
M1	4/4/2025	Mid-Ebb	Cloudy	Low	10:26	2.5	M	1.25	1	0.08	300.821	7.16	7 17	2.69	2.67	21.5	21.50	35.8	36.30	2.69	2.73	16.12	10 2.	5 2
M1	4/4/2025	Mid-Ebb	Cloudy	Low	10:26	2.5	M	1.25	2	0.00	300.021	7.17	7.17	2.64	2.07	21.5	21.50	36.8	30.30	2.77	2.73	16.23	2.	5
M2	4/4/2025	Mid-Ebb	Cloudy	Low	9:52	2.3	M	1.15	1	0.065	325.088	7.17	7.18	2.65	2.70	21.6	21.65	37.8	37.20	2.84	2.80	16.77	2.	5 3
M2	4/4/2025	Mid-Ebb	Cloudy	Low	9:52	2.3	M	1.15	2	0.000	323.000	7.18	1.10	2.74	2.70	21.7	21.00	36.6	31.20	2.75	2.00	16.98	2.	5
M3	4/4/2025	Mid-Ebb	Cloudy	Low	10:45	2	M	1.00	1	0.068	325.419	7.21	7.22	3.30	3.26	21.6	21.65	50.4	50.65	3.79	3.81	22.25 22.	2.5	5 3
M3	4/4/2025	Mid-Ebb	Cloudy	Low	10:45	2	M	1.00	2	0.000	323.419	7.22	1.22	3.21	3.20	21.7	21.00	50.9	30.03	3.83	3.01	22.45	2.	5

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For Flood Tide						
Monitoring	D	0	N.	TU	S	S
Location	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	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Ф						ln-s	itu Measu	rement							Labora Analy	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ration (%)	DO (r	ng/L)	Turbidity ((NTU)	Total Susp Solids (r	
										. ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	7/4/2025	Mid-Flood	Cloudy	Low	10:29	2.3	M	1.15	1	0.088	175.115	7.15	7 15	2.82	2.84	21.8	21.85	37.9	38.45	2.85	2.89	23.72	23.88	21	18
M1	7/4/2025	Mid-Flood	Cloudy	Low	10:29	2.3	M	1.15	2	0.000	175.115	7.15	7.15	2.85	2.04	21.9	21.00	39.0	30.43	2.93	2.03	24.03	25.00	14	10
M2	7/4/2025	Mid-Flood	Cloudy	Low	10:55	2	M	1.00	1	0.093	176.616	7.16	7 16	2.89	2.92	21.8	21.85	37.1	36.90	2.79	2.78	24.98	24.86	19	10
M2	7/4/2025	Mid-Flood	Cloudy	Low	10:55	2	M	1.00	2	0.035	170.010	7.16	7.10	2.94	2.02	21.9	21.00	36.7	30.30	2.76	2.70	24.74	24.00	18	13
M3	7/4/2025	Mid-Flood	Cloudy	Low	11:13	1.8	M	0.90	1	0.089	165.333	7.19	7.20	3.38	3.42	21.8	21.85	49.2	50.00	3.7	3.76	31.53	31.56	15	17
M3	7/4/2025	Mid-Flood	Cloudy	Low	11:13	1.8	M	0.90	2	0.003	100.000	7.21	7.20	3.46	J.42	21.9	21.00	50.8	30.00	3.81	3.70	31.58	31.30	19	17
M1	7/4/2025	Mid-Ebb	Cloudy	Low	15:38	2.4	M	1.20	1	0.075	324.399	7.15	7.15	2.76	2.79	22.0 22.1	22.05	37.0	36.20	2.81	2.74	22.84	22.87	14	16
M1	7/4/2025	Mid-Ebb	Cloudy	Low	15:38	2.4	M	1.20	2	0.075	324.333	7.14	7.13	2.81	2.19	22.1	22.03	35.4	30.20	2.66	2.74	22.9	22.01	17	10
M2	7/4/2025	Mid-Ebb	Cloudy	Low	15:06	2.2	M	1.10	1	0.058	304.892	7.16	7 17	2.81	2.79	22.0	22.00	36.8	36.20	2.77	2.73	21.03	21.00	16	17
M2	7/4/2025	Mid-Ebb	Cloudy	Low	15:06	2.2	M	1.10	2	0.000	304.092	7.18	7.17	2.77	2.79	22.0	22.00	35.6	30.20	2.68	2.73	20.97	21.00	18	17
M3	7/4/2025	Mid-Ebb	Cloudy	Low	15:44	2	M	1.00	1	0.062	315.917	7.2	7.20	3.44	3.43	22.0	22.05	49.5	49.90	3.72	3.75	30.55	30.62	13	1/
M3	7/4/2025	Mid-Ebb	Cloudy	Low	15:44	2	M	1.00	2	0.002	313.917	7.19	7.20	3.42	3.43	22.1	22.00	50.3	49.90	3.78	3.75	30.69	30.02	14	14

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For Flood Tide						
Monitoring	D	0	N.	TU	S	S
Location	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	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Ф						In-s	itu Measu	rement							Laborat Analys	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ration (%)	DO (i	mg/L)	Turbidity (N	TU)	Total Susp Solids (n	
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value A	ve.	Value	Ave.
M1	9/4/2025	Mid-Flood	Cloudy	Low	11:52	2.4	M	1.20	1	0.088	176.74	7.15	7.15	2.94	2.97	22.8	22.85	40.6	41.20	3.05	3.10	22.50	2.57	17	16
M1	9/4/2025	Mid-Flood	Cloudy	Low	11:52	2.4	M	1.20	2	0.00	170.74	7.14	7.10	2.99	2.01	22.9	22.0	41.8	41.20	3.14	0.10	22.63		15	10
M2	9/4/2025	Mid-Flood	Cloudy	Low	12:24	2.1	M	1.05	1	0.093	183.828	7.14	7.14	3.04	3.05	22.8 22.9	22.85	40.0	40.75	3.01	3.07	23.40 23.66	3.53	17	17
M2	9/4/2025	Mid-Flood	Cloudy	Low	12:24	2.1	M	1.05	2	0.000	100.020	7.14	7.14	3.06	3.03	22.9	22.00	41.5	40.73	3.12	3.01	23.66	0.00	17	17
M3	9/4/2025	Mid-Flood	Cloudy	Low	12:39	1.9	M	0.95	1	0.09	171.654	7.18	7.18	3.65	3.61	22.8	22.85	49.9	50.15	3.75	3.77	31.66	1.81	18	18
M3	9/4/2025	Mid-Flood	Cloudy	Low	12:39	1.9	M	0.95	2	0.03	17 1.054	7.17	7.10	3.57	3.01	22.9	22.00	50.4	30.13	3.79	5.11	31.95	1.01	17	10
M1	9/4/2025	Mid-Ebb	Cloudy	Low	17:36	2.4	M	1.20	1	0.058	328.196	7.19	7.19	2.98	2.95	22.7	22.70	38.3	37.70	2.88	2.84	20.85	0.99	15	14
M1	9/4/2025	Mid-Ebb	Cloudy	Low	17:36	2.4	M	1.20	2	0.00	320.130	7.18	7.19	2.92	2.93	22.7	22.70	37.1	31.10	2.79	2.04	21.12	0.99	13	14
M2	9/4/2025	Mid-Ebb	Cloudy	Low	17:09	2.1	M	1.05	1	0.068	304.615	7.15	7.16	3.06 2.97	3.02	22.7 22.8	22.75	37.1	36.25	2.79	2.73	21.53 21.12 2	.33	12	1/
M2	9/4/2025	Mid-Ebb	Cloudy	Low	17:09	2.1	M	1.05	2	0.000	304.013	7.17	7.10	2.97	3.02	22.8	22.75	35.4	30.23	2.66	2.73	21.12	1.55	15	14
M3	9/4/2025	Mid-Ebb	Cloudy	Low	17:55	2	M	1.00	1	0.074	323.487	7.19	7.20	3.77	3.75	22.7	22.70	49.9	50.55	3.75	3.80	30.79	0.89	16	18
M3	9/4/2025	Mid-Ebb	Cloudy	Low	17:55	2	M	1.00	2	0.074	323.407	7.2	7.20	3.73	3.75	22.7	22.70	51.2	50.55	3.85	3.00	30.98	າ.ບອ	19	10

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For Flood Tide						
Monitoring	D	0	N.	TU	S	S
Location	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	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Θ.						ln-s	itu Measu	rement							Labora Analy	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	н	Salinit	y (ppt)	Tempe (degr		DO Satur	ration (%)	DO (i	mg/L)	Turbidity	(NTU)	Total Susp Solids (
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	11/4/2025	Mid-Flood	Sunny	Low	12:38	2.5	M	1.25	1	0.091	184.91	7.09	7.08	2.53	2.52	22.5 22.6	22.55	35.0	34.30	2.63	2.58	16.55	16.45	46	44
M1	11/4/2025	Mid-Flood	Sunny	Low	12:39	2.5	M	1.25	2	0.031	104.31	7.07	7.00	2.51	2.52	22.6	22.55	33.6	34.30	2.53	2.50	16.34	10.43	41	
M2	11/4/2025	Mid-Flood	Sunny	Low	13:01	2.2	M	1.10	1	0.08	168.225	7.11	7.10	2.47	2.47	22.5	22.50	35.0	35.65	2.63	2.68	17.10	16.89	37	39
M2	11/4/2025	Mid-Flood	Sunny	Low	13:01	2.2	M	1.10	2	0.00	100.223	7.09	7.10	2.46	2.41	22.5	22.50	36.3	33.03	2.73	2.00	16.67	10.03	41	55
M3	11/4/2025	Mid-Flood	Sunny	Low	13:16	2	M	1.00	1	0.094	179.147	7.15	7.15	2.99	3.00	22.5	22.55	49.3	49.00	3.71	3.69	25.82	25.62	38	37
M3	11/4/2025	Mid-Flood	Sunny	Low	13:16	2	M	1.00	2	0.034	173.147	7.15	7.10	3.01	3.00	22.6	22.00	48.7	+3.00	3.66	3.03	25.41	20.02	35	51
M1	11/4/2025	Mid-Ebb	Sunny	Low	18:57	2.5	M	1.25	1	0.077	318.189	7.05	7.06	2.51	2.52	22.4	22.40	37.2	37.70	2.8	2.84	15.49	15.53	36	40
M1	11/4/2025	Mid-Ebb	Sunny	Low	18:57	2.5	M	1.25	2	0.077	310.103	7.07	7.00	2.53	2.32	22.4	22.40	38.2	31.10	2.87	2.04	15.57	13.33	44	40
M2	11/4/2025	Mid-Ebb	Sunny	Low	18:32	2.2	M	1.10	1	0.077	328.89	7.08	7.08	2.44	2.47	22.4	22.45	36.0	35.90	2.71	2.70	16.13	16.24	47	47
M2	11/4/2025	Mid-Ebb	Sunny	Low	18:32	2.2	M	1.10	2	0.077	320.03	7.07	7.00	2.5	2.41	22.5	22.43	35.8	33.90	2.69	2.70	16.35	10.24	47	47
M3	11/4/2025	Mid-Ebb	Sunny	Low	19:06	2	M	1.00	1	0.074	300.754	7.14	7 15	3.13	3.13	22.4	22.45	50.9	51.60	3.83	3.88	24.52	24.62	47	51
M3	11/4/2025	Mid-Ebb	Sunnv	Low	19:06	2	M	1.00	2	0.074	300.734	7.16	7.13	3.12	3.13	22.5	22.43	52.3	31.00	3.93	3.00	24.72	24.02	54	JI

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- 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	D	0	N.	TU	S	S
	Location	AL	LL	AL	LL	AL	LL
	M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
ı	M3(Impact Station)	3.28	3 14	74	78	104	167

For Ebb Tide						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Ф						In-s	tu Measu	rement							Labora Analy	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ration (%)	DO (i	mg/L)	Turbidity (NTU)	Total Sus Solids (
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	14/4/2025	Mid-Flood	Sunny	Low	18:37	2.4	M	1.20	1	0.075	182.889	7.14	7.14	2.89	2.89	22.2	22.25	34.6	34.05	2.6	2.56	21.90	22.05	21	21
M1	14/4/2025	Mid-Flood	Sunny	Low	18:37	2.4	M	1.20	2	0.01	102.000	7.13	7.14	2.89	2.00	22.3	22:20	33.5	04.00	2.52	2.00	22.19	-2.00	21	
M2	14/4/2025	Mid-Flood	Sunny	Low	18:59	2.1	M	1.05	1	0.077	171.514	7.15	7 15	3.09	3.09	22.2 22.3	22.25	35.8	35.05	2.69	2.64	21.86	21 71	21	23
M2	14/4/2025	Mid-Flood	Sunny	Low	18:59	2.1	M	1.05	2	0.077	17 1.514	7.14	7.15	3.09	3.03	22.3	22.25	34.3	33.03	2.58	2.04	21.55	21.71	25	2.5
M3	14/4/2025	Mid-Flood	Sunny	Low	19:06	2	M	1.00	1	0.092	164.524	7.16	7.16	3.47	3.47	22.2	22.20	49.3	48.50	3.71	3.65	30.57	30.45	24	24
M3	14/4/2025	Mid-Flood	Sunny	Low	19:07	2	M	1.00	2	0.032	104.524	7.16	7.10	3.47	5.41	22.2	22.20	47.7	40.50	3.59	5.05	30.32	JU. 4 J	23	27
M1	14/4/2025	Mid-Ebb	Sunny	Low	9:51	2.5	M	1.25	1	0.06	334.584	7.17	7 16	2.91	2.91	22.3	22.30	34.8	35.30	2.62	2.66	19.92	19.86	22	25
M1	14/4/2025	Mid-Ebb	Sunny	Low	9:51	2.5	M	1.25	2	0.00	334.304	7.15	7.16	2.91	2.91	22.3	22.50	35.8	33.30	2.69	2.00	19.79	19.00	28	23
M2	14/4/2025	Mid-Ebb	Sunny	Low	9:20	2.3	M	1.15	1	0.061	309.927	7.17	7 17	2.86	2.86	22.3 22.3	22.30	34.3	33.60	2.58	2.53	19.54	19.68	21	25
M2	14/4/2025	Mid-Ebb	Sunny	Low	9:20	2.3	M	1.15	2	0.001	303.321	7.16	7.17	2.86	2.00	22.3	22.30	32.9	33.00	2.47	2.55	19.82	19.00	28	23
M3	14/4/2025	Mid-Ebb	Sunny	Low	10:01	2	M	1.00	1	0.06	326.805	7.17	7 17	3.53	3.53	22.3	22.35	48.0	47.55	3.61	3.58	29.74	29.88	28	27
M3	14/4/2025	Mid-Ebb	Sunny	Low	10:01	2	M	1.00	2	0.06	320.003	7.16	7.17	3.53	5.55	22.4	22.33	47.1	41.55	3.54	3.30	30.02	25.00	25	21

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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	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	2 20	21/	7/	70	104	167

FOR EDD TIDE						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

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Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ration (%)	DO (ı	mg/L)	Turbidity	y (NTU)	Total Sus Solids (
										. ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	16/4/2025	Mid-Flood	Sunny	Low	14:56	2.4	M	1.20	1	0.081	177.782	7.13	7.13	2.94	2.95	23.1	23.10	38.7	38.35	2.91	2.89	20.55	20.34	26	25
M1	16/4/2025	Mid-Flood	Sunny	Low	14:56	2.4	M	1.20	2	0.001	177.702	7.12	7.15	2.95	2.33	23.1	25.10	38.0	30.33	2.86	2.00	20.12	20.54	23	20
M2	16/4/2025	Mid-Flood	Sunny	Low	15:22	2.1	M	1.05	1	0.09	184.723	7.15	7.14	2.88	2.93	23.1	23.15	37.9	37.45	2.85	2.82	21.18	21.11	24	24
M2	16/4/2025	Mid-Flood	Sunny	Low	15:22	2.1	M	1.05	2	0.03	104.723	7.13	7.17	2.97	2.33	23.2	25.15	37.0	37.43	2.78	2.02	21.04	21.11	23	24
M3	16/4/2025	Mid-Flood	Sunny	Low	15:35	2	M	1.00	1	0.094	178.989	7.19	7.19	3.45	3.48	23.1	23.10	49.5	49.60	3.72	3.73	31.93	31.72	13	17
M3	16/4/2025	Mid-Flood	Sunny	Low	15:35	2	M	1.00	2	0.034	170.303	7.18	7.10	3.51	3.40	23.1	20.10	49.7	₩3.00	3.74	5.75	31.51	31.72	21	17
M1	16/4/2025	Mid-Ebb	Sunny	Low	8:41	2.5	M	1.25	1	0.06	342.351	7.14	7.14	2.60	2.60	22.9	22.95	37.5	37.55	2.82	2.83	19.87	19.96	16	21
M1	16/4/2025	Mid-Ebb	Sunny	Low	8:41	2.5	M	1.25	2	0.00	342.331	7.13	7.14	2.59	2.00	23.0	22.53	37.6	37.33	2.83	2.03	20.05	19.90	26	21
M2	16/4/2025	Mid-Ebb	Sunny	Low	8:13	2.3	M	1.15	1	0.065	310.117	7.13	7.13	2.55	2.57	22.9	22.90	39.0	38.50	2.93	2.90	20.56	20.72	21	22
M2	16/4/2025	Mid-Ebb	Sunny	Low	8:13	2.3	M	1.15	2	0.000	310.117	7.12	7.13	2.58	2.31	22.9	22.90	38.0	30.30	2.86	2.90	20.88	20.72	22	22
M3	16/4/2025	Mid-Ebb	Sunny	Low	8:55	2	M	1.00	1	0.06	316.399	7.18	7 17	3.46	3.50	22.9	22.95	51.2	51.65	3.85	3.89	29.63	29.81	22	24
M3	16/4/2025	Mid-Ebb	Sunnv	Low	8:55	2	M	1.00	2	0.00	310.355	7.16	7.17	3.53	3.30	23.0	22.93	52.1	31.03	3.92	3.09	29.98	29.01	25	24

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For Flood Tide						
Monitoring	D	0	N.	ΓU	S	S
Location	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 EDD TIDE						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

	·								ө						ln-s	itu Measu	rement							Labora Analy	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ration (%)	DO (ı	mg/L)	Turbidity	(NTU)	Total Sus Solids (
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	18/4/2025	Mid-Flood	Cloudy	Low	16:09	2.2	M	1.10	1	0.074	185.462	7.08	7.09	3.25	3.28	22.9 23	22.95	34.0	33.25	2.56	2.50	20.82	20.71	2.5	3
M1	18/4/2025	Mid-Flood	Cloudy	Low	16:09	2.2	M	1.10	2	0.074	100.402	7.09	1.00	3.3	5.20	23	22.55	32.5	33.23	2.44	2.50	20.59	20.71	2.5	3
M2	18/4/2025	Mid-Flood	Cloudy	Low	16:35	1.9	M	0.95	1	0.079	183.634	7.07	7.06	3.36	3.39	22.9	22.90	36.0	36.15	2.71	2.72	21.98	21.82	2.5	3
M2	18/4/2025	Mid-Flood	Cloudy	Low	16:35	1.9	M	0.95	2	0.073	103.034	7.05	7.00	3.42	5.5	22.9	22.50	36.3	30.13	2.73	2.12	21.65	21.02	2.5	
M3	18/4/2025	Mid-Flood	Cloudy	Low	16:48	1.8	M	0.90	1	0.085	182.293	7.11	7 12	4.21	4.25	22.9	22.90	50.5	51.00	3.8	3.84	30.57	30.50	2.5	3
M3	18/4/2025	Mid-Flood	Cloudy	Low	16:48	1.8	M	0.90	2	0.003	102.233	7.12	7.12	4.28	4.25	22.9	22.50	51.5	31.00	3.87	3.04	30.42	30.30	2.5	5
M1	18/4/2025	Mid-Ebb	Cloudy	Low	9:21	2.3	M	1.15	1	0.075	336.048	7.07	7.06	3.60	3.63	22.8	22.80	35.8	36.00	2.69	2.71	19.84	19.68	2.5	
M1	18/4/2025	Mid-Ebb	Cloudy	Low	9:21	2.3	M	1.15	2	0.073	330.040	7.05	7.00	3.66	3.03	22.8	22.00	36.2	30.00	2.72	2.7 1	19.51	19.00	2.5	3
M2	18/4/2025	Mid-Ebb	Cloudy	Low	8:56	2.1	M	1.05	1	0.079	328.05	7.07	7.06	3.35	3.34	22.8	22.80	33.8	34.00	2.54	2.56	19.28	19.46	2.5	3
M2	18/4/2025	Mid-Ebb	Cloudy	Low	8:56	2.1	M	1.05	2	0.078	020.00	7.05	7.00	3.32	5.54	22.8	22.00	34.2	J 4 .00	2.57	2.30	19.63	10.40	2.5	
M3	18/4/2025	Mid-Ebb	Cloudy	Low	9:38	1.8	M	0.90	1	0.071	327.006	7.12	7 12	4.28	4.28	22.8	22.85	48.1	47.85	3.62	3.60	29.63	29.67	2.5	3
M3	18/4/2025	Mid-Ebb	Cloudy	Low	9:38	1.8	M	0.90	2	0.071	327.000	7.11	1.12	4.28	4.20	22.9	22.03	47.6	47.03	3.58	3.00	29.7	29.07	2.5	3

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For Flood Tide						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	2 20	21/	7/	70	104	167

For Ebb Tide						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Ф						In-s	tu Measu	rement							aboratory Analysis
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ation (%)	DO (r	mg/L)	Turbidity (NT		Suspended lids (mg/L)
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value Av	e. Valu	ie Ave.
M1	21/4/2025	Mid-Flood	Cloudy	Low	15:26	2.3	M	1.15	1	0.091	163.911	7.12	7.13	2.65	2.67	22.5	22.55	36.6	35.85	2.75	2.70	20.15 20.	2.5	
M1	21/4/2025	Mid-Flood	Cloudy	Low	15:26	2.3	M	1.15	2	0.001	100.011	7.14	7.10	2.68	2.01	22.6	22.0	35.1	00.00	2.64	2.70	20.08	2.5	5
M2	21/4/2025	Mid-Flood	Cloudy	Low	15:49	2.1	M	1.05	1	0.084	183.787	7.16	7 16	2.75 2.8	2.78	22.5	22.55	37.8	38.10	2.84	2.87	19.93 19.79	2.5	j 3
M2	21/4/2025	Mid-Flood	Cloudy	Low	15:49	2.1	M	1.05	2	0.004	103.707	7.15	7.10	2.8	2.70	22.6	22.55	38.4	30.10	2.89	2.01		2.5	5
M3	21/4/2025	Mid-Flood	Cloudy	Low	15:58	1.9	M	0.95	1	0.08	176.26	7.18	7.19	3.39	3.44	22.5	22.55	50.9	51.10	3.83	3.85	25.69 25.	77 2.5	j 3
M3	21/4/2025	Mid-Flood	Cloudy	Low	15:58	1.9	M	0.95	2	0.00	170.20	7.19	7.10	3.48	5.77	22.6	22.00	51.3	31.10	3.86	3.03	25.85	2.5	5
M1	21/4/2025	Mid-Ebb	Cloudy	Low	13:44	2.3	M	1.15	1	0.074	344.379	7.13	7.14	2.68	2.71	22.9	22.90	37.8	36.80	2.84	2.77	19.88	2.5	j 2
M1	21/4/2025	Mid-Ebb	Cloudy	Low	13:45	2.3	M	1.15	2	0.074	344.573	7.15	7.14	2.74	2.71	22.9	22.90	35.8	30.00	2.69	2.11	20.06	2.5	5
M2	21/4/2025	Mid-Ebb	Cloudy	Low	13:15	2.1	M	1.05	1	0.063	315.036	7.12	7.12	2.86	2.82	22.9 22.9	22.90	36.4	36.15	2.74	2.72	18.13	2.5	3
M2	21/4/2025	Mid-Ebb	Cloudy	Low	13:15	2.1	M	1.05	2	0.003	313.030	7.12	7.12	2.77	2.02	22.9	22.90	35.9	30.13	2.7	2.12	17.79	2.5	
M3	21/4/2025	Mid-Ebb	Cloudy	Low	13:57	1.8	M	0.90	1	0.06	321.903	7.21	7.22	3.58	3.54	22.9	22.90	52.4	51.55	3.94	3.88	26.99 26.	2.5	3
M3	21/4/2025	Mid-Ebb	Cloudy	Low	13:57	1.8	M	0.90	2	0.00	321.903	7.23	1.22	3.5	5.54	22.9	22.90	50.7	51.55	3.81	5.00	26.58	2.5	5

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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	D	0	N.	TU	S	S
Location	AL 1.88	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	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

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Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	Н	Salinity	y (ppt)	Tempe (degre		DO Satur	ation (%)	DO (r	ng/L)	Turbidity ((NTU)	Total Susp Solids (i	
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.		Ave.	Value	Ave.
M1	23/4/2025	Mid-Flood	Cloudy	Low	10:26	2.5	M	1.25	1	0.088	181.761	7.08	7.07	2.34	2.35	21.5	21.50	37.9	38.65	2.85	2.91	20.36	20.24	42	43
M1	23/4/2025	Mid-Flood	Cloudy	Low	10:26	2.5	M	1.25	2	0.000	101.701	7.06	7.07	2.35	2.00	21.5	21.50	39.4	30.03	2.96	2.31		20.24	44	45
M2	23/4/2025	Mid-Flood	Cloudy	Low	10:49	2.2	M	1.10	1	0.08	180.603	7.09	7 10	2.22	2.19	21.5	21.55	36.4	37.15	2.74	2.80	19.84 19.83	19.84	39	38
M2	23/4/2025	Mid-Flood	Cloudy	Low	10:49	2.2	M	1.10	2	0.00	100.003	7.11	7.10	2.15	2.10	21.6	21.55	37.9	37.13	2.85	2.00		13.04	36	30
M3	23/4/2025	Mid-Flood	Cloudy	Low	11:03	2	M	1.00	1	0.078	169.265	7.12	7.13	3.16	3.16	21.5	21.55	50.4	50.05	3.79	3.77	31.54	31.44	41	37
M3	23/4/2025	Mid-Flood	Cloudy	Low	11:03	2	M	1.00	2	0.070	103.203	7.13	7.10	3.16	3.10	21.6	21.00	49.7	30.03	3.74	3.11	31.33	31.44	33	01
M1	23/4/2025	Mid-Ebb	Cloudy	Low	15:51	2.4	M	1.20	1	0.063	336.472	7.07	7.08	2.18	2.16	21.3	21.35	37.1	36.15	2.79	2.72	19.84	19.86	40	40
M1	23/4/2025	Mid-Ebb	Cloudy	Low	15:51	2.4	M	1.20	2	0.000	330.472	7.09	7.00	2.14	2.10	21.4	21.55	35.2	30.13	2.65	2.12	19.88	19.00	40	40
M2	23/4/2025	Mid-Ebb	Cloudy	Low	15:20	2.1	M	1.05	1	0.06	336.887	7.05	7.06	2.38	2.41	21.3	21.30	35	35.30	2.63	2.66	19.04	18.82	36	40
M2	23/4/2025	Mid-Ebb	Cloudy	Low	15:21	2.1	M	1.05	2	0.00	330.007	7.06	7.00	2.43	2.41	21.3	21.30	35.6	55.50	2.68	2.00	18.6	10.02	44	40
M3	23/4/2025	Mid-Ebb	Cloudy	Low	16:01	1.8	M	0.90	1	0.073	335.364	7.12	7 12	3.08	3.07	21.3	21.30	51.6	50.75	3.88	3.82	29.06	29.04	36	10
M3	23/4/2025	Mid-Ebb	Cloudy	Low	16:01	1.8	M	0.90	2	0.073	333.304	7.12	1.12	3.06	3.07	21.3	21.30	49.9	30.75	3.75	3.02	29.01	25.04	60	40

Remarl

- 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.
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- 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	D	0	N.	TU	S	S
	Location	AL	LL	AL	LL	AL	LL
	M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
ı	M3(Impact Station)	3.28	3 14	7/	78	104	167

FOR EDD TIDE						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									ө						ln-s	itu Measu	rement							Labora Analy	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ation (%)	DO (ı	mg/L)	Turbidity	y (NTU)	Total Sus Solids (
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	25/4/2025	Mid-Flood	Cloudy	Low	11:41	2.5	M	1.25	1	0.088	183.437	7.16	7 17	2.56	2.52	21.3	21.35	36.0	35.80	2.71	2.70	18.54	18.64	39	38
M1	25/4/2025	Mid-Flood	Cloudy	Low	11:41	2.5	М	1.25	2	0.000	103.437	7.18	7.17	2.48	2.52	21.4	21.55	35.6	33.00	2.68	2.70	18.74	10.01	36	30
M2	25/4/2025	Mid-Flood	Cloudy	Low	12:08	2.3	М	1.15	1	0.08	180.07	7.11	7 12	2.66	2.65	21.3	21.35	37.9	37.10	2.85	2.79	17.90	17.92	31	33
M2	25/4/2025	Mid-Flood	Cloudy	Low	12:08	2.3	М	1.15	2	0.00	100.07	7.12	7.12	2.64	2.00	21.4	21.55	36.3	37.10	2.73	2.10	17.93	17.52	35	55
M3	25/4/2025	Mid-Flood	Cloudy	Low	12:20	2	M	1.00	1	0.089	162.729	7.18	7 17	3.35	3.40	21.3	21.30	49.5	50.20	3.72	3.78	26.63	26.68	42	46
M3	25/4/2025	Mid-Flood	Cloudy	Low	12:20	2	M	1.00	2	0.003	102.723	7.16	7.17	3.44	3.40	21.3	21.00	50.9	30.20	3.83	5.70	26.73	20.00	50	70
M1	25/4/2025	Mid-Ebb	Cloudy	Low	17:49	2.4	M	1.20	1	0.058	328.029	7.15	7.16	2.65	2.67	21.1	21.15	36.7	37.35	2.76	2.81	18.55	18.67	39	41
M1	25/4/2025	Mid-Ebb	Cloudy	Low	17:49	2.4	М	1.20	2	0.000	320.023	7.16	7.10	2.68	2.07	21.2	21.13	38.0	31.33	2.86	2.01	18.79	10.07	42	41
M2	25/4/2025	Mid-Ebb	Cloudy	Low	17:27	2.2	M	1.10	1	0.071	329.37	7.14	7.14	2.58	2.61	21.1	21.10	37.2	37.55	2.8	2.83	18.12	18.16	40	45
M2	25/4/2025	Mid-Ebb	Cloudy	Low	17:27	2.2	M	1.10	2	0.071	523.51	7.13	7.14	2.63	2.01	21.1	21.10	37.9	37.33	2.85	2.03	18.19	10.10	49	40
M3	25/4/2025	Mid-Ebb	Cloudy	Low	18:04	1.9	M	0.95	1	0.066	325.648	7.18	7.19	3.54	3.51	21.1	21.10	49.7	49.80	3.74	3.75	25.99	25.81	34	40
M3	25/4/2025	Mid-Ebb	Cloudy	Low	18:04	1.9	M	0.95	2	0.000	323.040	7.19	7.19	3.48	3.31	21.1	21.10	49.9	45.00	3.75	3.75	25.62	25.01	45	40

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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	D	0	N.	TU	S	S
Location	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 EDD Tide						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									Ф						ln-s	itu Measu	rement							Labora Analy	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ration (%)	DO (i	mg/L)	Turbidity	(NTU)	Total Sus Solids (
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	28/4/2025	Mid-Flood	Cloudy	Low	13:30	2.3	M	1.15	1	0.084	174.331	7.08	7.08	3.11	3.08	22.6	22.65	37.4	37.65	2.81	2.83	22.15	22.30	26	22
M1	28/4/2025	Mid-Flood	Cloudy	Low	13:30	2.3	M	1.15	2	0.0	174.001	7.07	7.00	3.04	0.00	22.7	22.0	37.9	07.00	2.85	2.00	22.44	22.00	17	
M2	28/4/2025	Mid-Flood	Cloudy	Low	13:55	2.1	M	1.05	1	0.092	182.016	7.11	7 10	3.15 3.06	3.11	22.6	22.60	37.9	37.30	2.85	2.81	21.87	21.83	32	44
M2	28/4/2025	Mid-Flood	Cloudy	Low	13:56	2.1	M	1.05	2	0.032	102.010	7.09	7.10	3.06	5.11	22.6	22.00	36.7	37.30	2.76	2.01	21.78	21.00	56	
M3	28/4/2025	Mid-Flood	Cloudy	Low	14:08	1.9	M	0.95	1	0.09	161.866	7.15	7.14	3.56	3.58	22.6	22.60	48.7	47.95	3.66	3.61	31.69	31.69	45	41
M3	28/4/2025	Mid-Flood	Cloudy	Low	14:08	1.9	M	0.95	2	0.03	101.000	7.13	7.14	3.6	5.50	22.6	22.00	47.2	41.00	3.55	3.01	31.69	31.03	37	71
M1	28/4/2025	Mid-Ebb	Cloudy	Low	9:11	2.2	M	1.10	1	0.058	303.945	7.09	7.08	2.97	2.96	22.4	22.40	35.9	35.25	2.7	2.65	21.88	21.71	38	34
M1	28/4/2025	Mid-Ebb	Cloudy	Low	9:11	2.2	M	1.10	2	0.00	303.343	7.07	7.00	2.94	2.90	22.4	22.40	34.6	33.23	2.6	2.03	21.53	21.71	30	34
M2	28/4/2025	Mid-Ebb	Cloudy	Low	8:47	2	M	1.00	1	0.078	306.812	7.08	7.09	3.06	3.07	22.4 22.4	22.40	36.8	37.50	2.77	2.82	20.52	20.40	32	31
M2	28/4/2025	Mid-Ebb	Cloudy	Low	8:47	2	M	1.00	2	0.076	300.612	7.09	7.09	3.08	3.07	22.4	22.40	38.2	31.30	2.87	2.02	20.27	20.40	29	JI
M3	28/4/2025	Mid-Ebb	Cloudy	Low	9:24	1.8	M	0.90	1	0.061	303.646	7.14	7 12	3.47	3.45	22.4	22.40	49.9	49.55	3.75	3.73	30.56	30.41	39	45
M3	28/4/2025	Mid-Ebb	Cloudy	Low	9:24	1.8	M	0.90	2	0.001	303.040	7.12	1.13	3.43	5.45	22.4	22.40	49.2	45.55	3.7	3.73	30.25	30.41	51	40

Remarl

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For Flood Tide						
Monitoring	D	0	N ⁻	TU	S	S
Location	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	7/	78	104	167

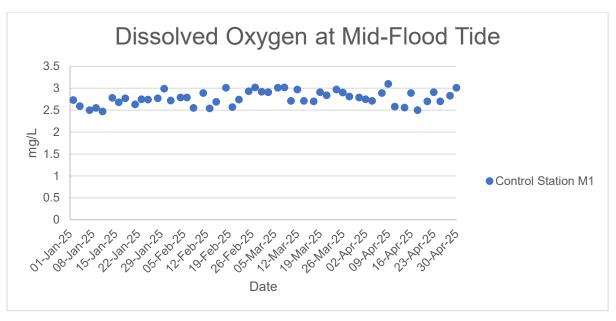
For Ebb Tide						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

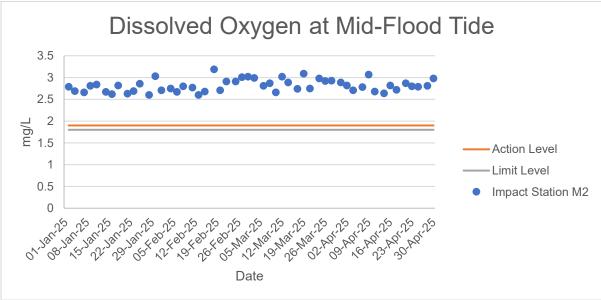
									Ф						In-s	tu Measu	rement							Labora Analy	
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	р	Н	Salinit	y (ppt)	Tempe (degr		DO Satur	ation (%)	DO (r	mg/L)	Turbidity	(NTU)	Total Sus Solids (
										, ,		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	30/4/2025	Mid-Flood	Cloudy	Low	14:54	2.6	M	1.30	1	0.078	174.687	7.09	7.10	2.42	2.44	21.9	21.90	39.6	39.95	2.98	3.01	20.59	20.56	32	32
M1	30/4/2025	Mid-Flood	Cloudy	Low	14:54	2.6	M	1.30	2	0.07	174.007	7.11	7.10	2.45	2.77	21.9	21.00	40.3	00.00	3.03	0.01	20.52	20.00	31	OZ.
M2	30/4/2025	Mid-Flood	Cloudy	Low	15:21	2.3	M	1.15	1	0.084	175.76	7.08	7.08	2.39	2.40	21.9	21.90	40.6	39.60	3.05	2.98	21.43	21.41	30	30
M2	30/4/2025	Mid-Flood	Cloudy	Low	15:21	2.3	M	1.15	2	0.004	175.70	7.08	7.00	2.4	2.40	21.9	21.30	38.6	33.00	2.9	2.30		21.71	29	50
M3	30/4/2025	Mid-Flood	Cloudy	Low	15:40	2.2	M	1.10	1	0.084	161.92	7.11	7 11	3.05	3.01	21.9	21.90	51.7	52.20	3.89	3.93	29.88	29.96	35	36
M3	30/4/2025	Mid-Flood	Cloudy	Low	15:40	2.2	M	1.10	2	0.004	101.32	7.1	7.11	2.97	5.01	21.9	21.30	52.7	32.20	3.96	0.00	30.04	23.30	36	30
M1	30/4/2025	Mid-Ebb	Cloudy	Low	10:16	2.6	M	1.30	1	0.076	336.991	7.08	7.08	2.52	2.53	21.8	21.85	38.4	38.35	2.89	2.89	21.86	21.95	34	31
M1	30/4/2025	Mid-Ebb	Cloudy	Low	10:16	2.6	M	1.30	2	0.070	330.331	7.08	7.00	2.54	2.55	21.9	21.03	38.3	30.33	2.88	2.09	22.03	21.93	27	31
M2	30/4/2025	Mid-Ebb	Cloudy	Low	9:44	2.3	M	1.15	1	0.063	333.114	7.09 7.07	7.08	2.51	2.47	21.8	21.80	39.1	38.25	2.94	2.88	22.41	22.46	26	27
M2	30/4/2025	Mid-Ebb	Cloudy	Low	9:44	2.3	M	1.15	2	0.003	333.114	7.07	1.00	2.42	2.47	21.8	21.00	37.4	30.23	2.81	2.00	22.51	22.40	27	21
M3	30/4/2025	Mid-Ebb	Cloudy	Low	10:28	2	M	1.05	1	0.063	314.472	7.12	7 12	2.99	3.04	21.8	21.85	51.2	50.65	3.85	3.81	29.58	29.47	33	35
M3	30/4/2025	Mid-Ebb	Cloudy	Low	10:28	2	M	1.05	2	0.003	314.472	7.14	1.13	3.08	3.04	21.9	21.00	50.1	50.05	3.77	3.01	29.35	25.41	37	33

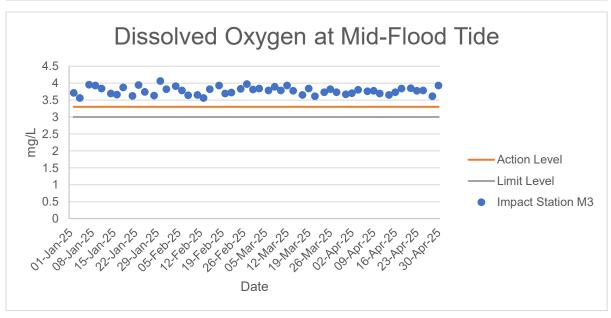
- 1. Orange and Bold: Action Level Exceedance (For Impact Station Only)
- 2. Red and Bold: Limit Level Exceedance (For Impact Station Only)
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- 6. Limit Level for SS: 99%-ile of baseline data or 130% of upstream control station's SS recorded on the same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

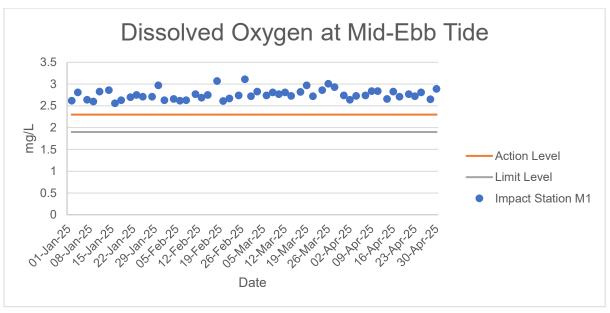
For Flood Tide						
Monitoring	D	0	N.	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167

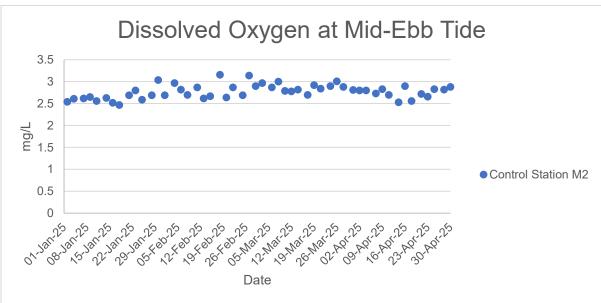
FOR EDD TIDE						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

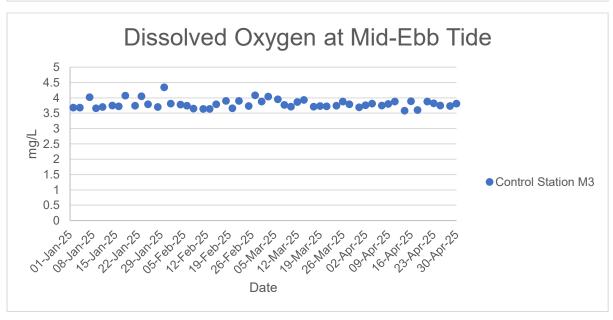


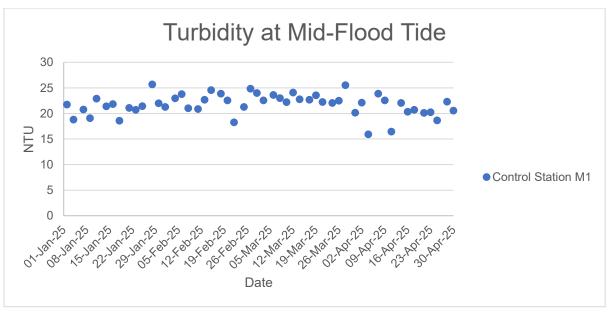


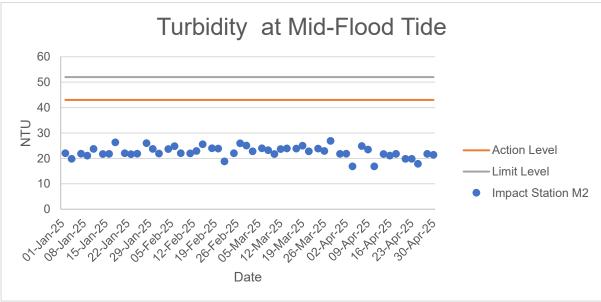


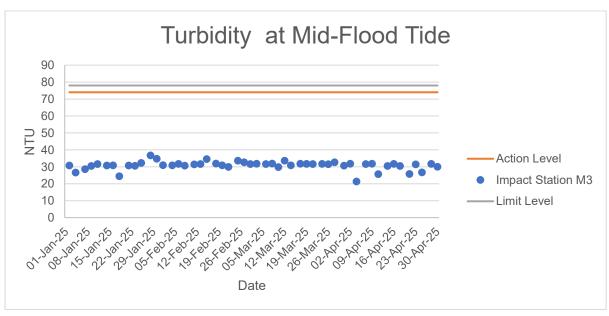


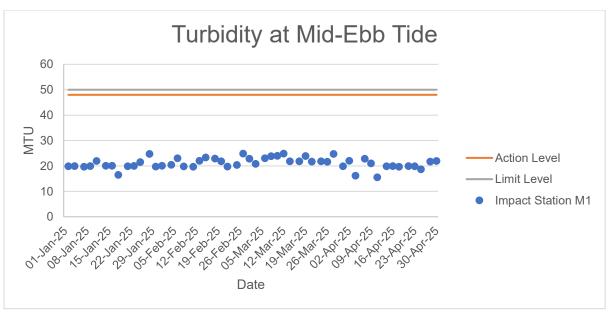


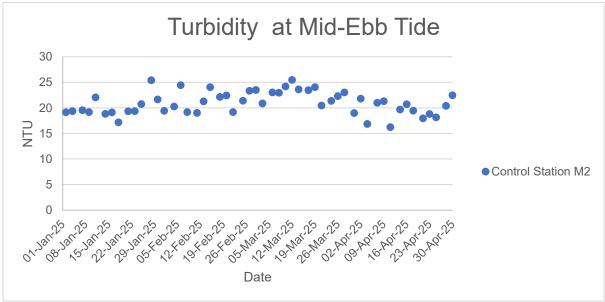


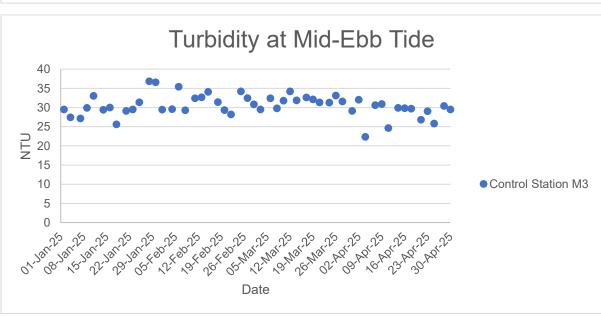


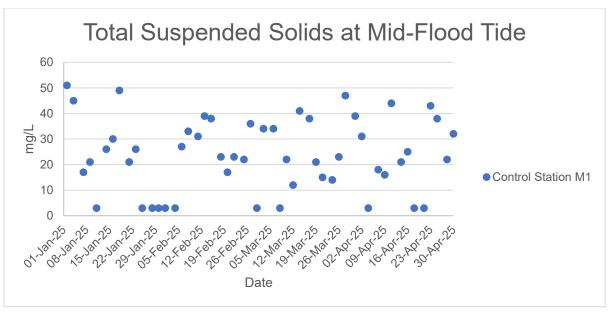


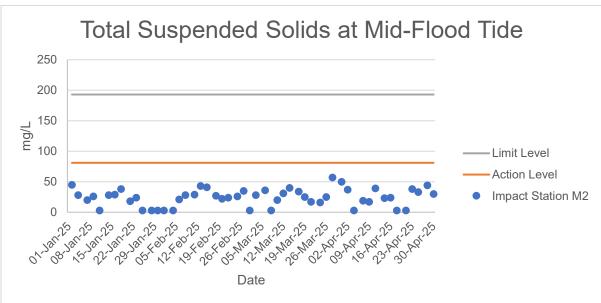


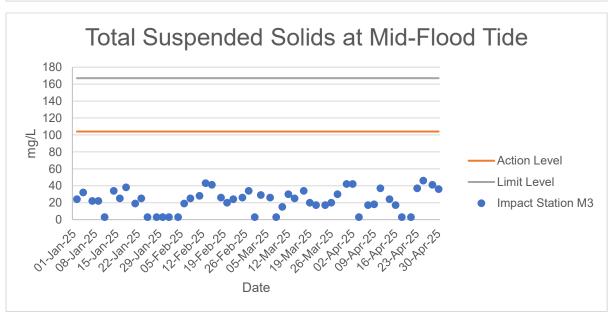




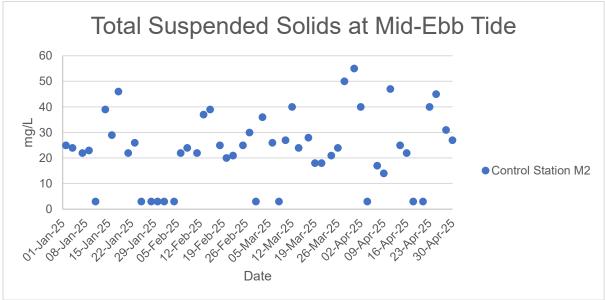














Ecology Monitoring Results for Contract No. SPW 02/2023

Environmental Team for Construction of Yuen long Effluent Polishing Plant Stage 1

Appendix F.1 Ecological Bird Monitoring Result (14 April & 16 April 2025)

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
14/04/2025	Night-time	Wet	FLW	Point Count	FLW1	Chinese Pond Heron	Ardeola bacchus	3	Common	R	PRC (RC)	-	-	LC	LC	Υ	Υ
14/04/2025	Night-time	Wet	FLW	Point Count	FLW2	Savanna Nightjar	Caprimulgus affinis	1	Uncommon	R.PM	-	-	-	DD	-	N	N
14/04/2025	Night-time	Wet	FLW	Point Count	FLW2	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
14/04/2025	Night-time	Wet	FLW	Point Count	FLW4	Large Hawk- Cuckoo	Hierococcyx sparverioides	1	Common	PM,SV	-	-	-	LC	LC	N	N
14/04/2025	Night-time	Wet	NSW	Point Count	SP/NSW1	Savanna Nightjar	Caprimulgus affinis	1	Uncommon	R.PM	-	-	-	DD	-	N	N
14/04/2025	Night-time	Wet	NSW	Point Count	SP/NSW3	Collared Scops Owl	Otus lettia	1	Common	R	-	Class II	-	LC	LC	Υ	N
14/04/2025	Night-time	Wet	NSW	Point Count	SP/NSW3	Large Hawk- Cuckoo	Hierococcyx sparverioides	1	Common	PM,SV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW2	Collared Crow	Corvus torquatus	1	Uncommon	R	LC	-	-	NT	VU	Υ	Υ
16/04/2025	Daytime	Wet	FLW	Point Count	FLW2	Crested Myna	Acridotheres cristatellus	3	Common	R	-	-	-	LC	LC	N	Z
16/04/2025	Daytime	Wet	FLW	Point Count	FLW2	Little Grebe	Tachybaptus ruficollis	1	Common	R	LC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW2	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	N	Z
16/04/2025	Daytime	Wet	FLW	Point Count	FLW3	Asian Koel	Eudynamys scolopaceus	1	Common	R	-	-	-	LC	LC	N	Z
16/04/2025	Daytime	Wet	FLW	Point Count	FLW3	Barn Swallow	Hirundo rustica	2	Abundant	PM,SV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW3	Black-collared Starling	Gracupica nigricollis	2	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW3	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW3	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW3	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Barn Swallow	Hirundo rustica	2	Abundant	PM,SV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Eastern Yellow Wagtail	Motacilla tschutschensis	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Eurasian Collared Dove	Streptopelia decaocto	2	Common	-	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Large Hawk- Cuckoo	Hierococcyx sparverioides	1	Common	PM,SV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

Appendix F.1 Ecological Bird Monitoring Result (14 April & 16 April 2025)

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
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Masked Laughingthrush	Pterorhinus perspicillatus	2	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Plain Prinia	Prinia inornata	4	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Scaly-breasted Munia	Lonchura punctulata	6	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	Stejneger's Stonechat	Saxicola stejnegeri	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW4	White-throated Kingfisher	Halcyon smyrnensis	2	Common	R	(LC)	Class II	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Barn Swallow	Hirundo rustica	2	Abundant	PM,SV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Black-collared Starling	Gracupica nigricollis	4	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Black-winged stilt	Himantopus himantopus	4	Common	PM	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Chinese Pond Heron	Ardeola bacchus	4	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Crested Myna	Acridotheres cristatellus	4	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Eurasian Collared Dove	Streptopelia decaocto	2	Common	-	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Eurasian Tree Sparrow	Passer montanus	6	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Long-tailed Shrike	Lanius schach	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Red-whiskered Bulbul	Pycnonotus jocosus	3	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Swinhoe's White- eye	Zosterops simplex	3	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (14 April & 16 April 2025)

Date (dd/mm/yyyy)	Daytime/ Night time	Season		Transect / Point Count	Point Count (Location) / Transect		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
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Υ
16/04/2025	Daytime	Wet	FLW	Point Count	FLW5	Richard's Pipit	Anthus richardi	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW6	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW6	Great Egret	Ardea alba	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW6	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Υ	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW6	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW6	Little Grebe	Tachybaptus ruficollis	2	Common	R	LC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW6	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW6	Stejneger's Stonechat	Saxicola stejnegeri	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW7	Asian Koel	Eudynamys scolopaceus	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW7	Azure-winged Magpie	Cyanopica cyanus	26	Introduced	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW7	Black-collared Starling	Gracupica nigricollis	6	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW7	Chinese Pond Heron	Ardeola bacchus	10	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW7	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Point Count	FLW7	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Point Count	FLW7	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Asian Koel	Eudynamys scolopaceus	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Black-collared Starling	Gracupica nigricollis	6	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Black-winged stilt	Himantopus himantopus	2	Common	PM	RC	-	-	LC	LC	Υ	Υ
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Common Greenshank	Tringa nebularia	1	Abundant	PM,WV	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Eurasian Collared Dove	Streptopelia decaocto	2	Common	-	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Eurasian Tree Sparrow	Passer montanus	5	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Masked Laughingthrush	Pterorhinus perspicillatus	5	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (14 April & 16 April 2025)

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
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Red-whiskered Bulbul	Pycnonotus jocosus	3	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	White Wagtail	Motacilla alba	2	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	NSW	Point Count	NSW1	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Black-winged stilt	Himantopus himantopus	14	Common	РМ	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Chinese Bulbul	Pycnonotus sinensis	3	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Greenshank	Tringa nebularia	4	Abundant	PM,WV	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Moorhen	Gallinula chloropus	3	Common	R	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Redshank	Tringa totanus	6	Common	РМ	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Crested Myna	Acridotheres cristatellus	2	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Eastern Yellow Wagtail	Motacilla tschutschensis	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Oriental Magpie Robin	Copsychus saularis	2	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Swinhoe's White- eye	Zosterops simplex	3	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW1	Pallas's Leaf Warbler	Phylloscopus proregulus	1	Common	W	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Black-collared Starling	Gracupica nigricollis	4	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Black-winged stilt	Himantopus himantopus	5	Common	PM	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Common Greenshank	Tringa nebularia	2	Abundant	PM,WV	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Common Redshank	Tringa totanus	6	Common	PM	RC	-	-	LC	LC	Υ	Y

Appendix F.1 Ecological Bird Monitoring Result (14 April & 16 April 2025)

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
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Common Snipe	Gallinago gallinago	2	Common	PM,WV	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Large-billed Crow	Corvus macrorhynchos	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Little Ringed Plover	Charadrius dubius	1	Common	WV,PM	(LC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	spotted Redshank	Tringa erythropus	1	Abundant	WV,Sp	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW2	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Black Kite	Milvus migrans	1	Common	R,WV	(RC)	Class II	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Black-tailed Godwit	Limosa limosa	11	Abundant	M,W	RC	-	Indeterminate	-	NT	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Black-winged stilt	Himantopus himantopus	15	Common	PM	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Chinese Pond Heron	Ardeola bacchus	3	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Common Greenshank	Tringa nebularia	6	Abundant	PM,WV	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Common Moorhen	Gallinula chloropus	1	Common	R	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Common Redshank	Tringa totanus	26	Common	РМ	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Marsh Sandpiper	Tringa stagnatilis	1	Common	PM,WV	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Point Count	SP/NSW3	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	N	N
14/04/2025	Night-time	Wet	FLW	Transect	FLW	Black-crowned Night Heron	Nycticorax nycticorax	1	Common	R,WV	(LC)	-	-	LC	LC	Υ	Υ

Appendix F.1 Ecological Bird Monitoring Result (14 April & 16 April 2025)

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
14/04/2025	Night-time	Wet	FLW	Transect	FLW	Asian Barred Owlet	Glaucidium cuculoides	1	Common	R	-	-	-	LC	LC	Υ	N
14/04/2025	Night-time	Wet	YLIE- CW	Transect	YLIE-CW	Savanna Nightjar	Caprimulgus affinis	2	Uncommon	R.PM	-	-	-	DD	-	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Azure-winged Magpie	Cyanopica cyanus	11	Introduced	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Black Kite	Milvus migrans	4	Common	R,WV	(RC)	Class II	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Black-collared Starling	Gracupica nigricollis	7	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Chinese Bulbul	Pycnonotus sinensis	2	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Crested Myna	Acridotheres cristatellus	5	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Eastern Yellow Wagtail	Motacilla tschutschensis	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Little Grebe	Tachybaptus ruficollis	2	Common	R	LC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Masked Laughingthrush	Pterorhinus perspicillatus	6	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Oriental Magpie Robin	Copsychus saularis	2	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Stejneger's Stonechat	Saxicola stejnegeri	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Swinhoe's White- eye	Zosterops simplex	2	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	FLW	Transect	FLW	Pallas's Leaf Warbler	Phylloscopus proregulus	1	Common	W	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Υ	N
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Masked Laughingthrush	Pterorhinus perspicillatus	3	Abundant	R	-	-	-	LC	LC	N	N

Appendix F.1 Ecological Bird Monitoring Result (14 April & 16 April 2025)

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
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Red-whiskered Bulbul	Pycnonotus jocosus	4	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Swinhoe's White- eye	Zosterops simplex	2	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	NSW	Transect	NSW	Yellow-browed Warbler	Phylloscopus inornatus	1	Common	WV,Sp	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Black-tailed Godwit	Limosa limosa	3	Abundant	M,W	RC	-	Indeterminate	-	NT	Y	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Black-winged stilt	Himantopus himantopus	21	Common	PM	RC	-	-	LC	LC	Y	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Chinese Bulbul	Pycnonotus sinensis	5	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Chinese Pond Heron	Ardeola bacchus	4	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Common Greenshank	Tringa nebularia	7	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Common Moorhen	Gallinula chloropus	4	Common	R	-	-	-	LC	LC	N	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Common Redshank	Tringa totanus	12	Common	PM	RC	-	-	LC	LC	Y	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Crested Myna	Acridotheres cristatellus	6	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Little Egret	Egretta garzetta	6	Common	R	PRC (RC)	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Pied Avocet	Recurvirostra avosetta	22	Abundant	WV	RC	-	-	LC	LC	Υ	Y
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
16/04/2025	Daytime	Wet	YLIE- CW	Transect	YLIE-CW	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y

- 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
- 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

Appendix F.1 Ecological Bird Monitoring Result (14 April & 16 April 2025)

- IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.
 Wetland-dependent species (including wetland-dependent species and waterbirds).
 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 (14 April & 16 April 2025)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Tachybaptus ruficollis	3	0.0093	-4.6759	-0.0436	0.2037
Ardeola bacchus	26	0.0807	-2.5165	-0.2032	0.5113
Ardea cinerea	3	0.0093	-4.6759	-0.0436	0.2037
Ardea alba	6	0.0186	-3.9828	-0.0742	0.2956
Egretta garzetta	4	0.0124	-4.3883	-0.0545	0.2392
Milvus migrans	1	0.0031	-5.7746	-0.0179	0.1036
Amaurornis phoenicurus	4	0.0124	-4.3883	-0.0545	0.2392
Gallinula chloropus	4	0.0124	-4.3883	-0.0545	0.2392
Himantopus himantopus	40	0.1242	-2.0857	-0.2591	0.5404
Charadrius dubius	1	0.0031	-5.7746	-0.0179	0.1036
Limosa limosa	11	0.0342	-3.3767	-0.1154	0.3895
Gallinago gallinago	2	0.0062	-5.0814	-0.0316	0.1604
Actitis hypoleucos	1	0.0031	-5.7746	-0.0179	0.1036
Tringa totanus	38	0.1180	-2.1370	-0.2522	0.5389
Tringa stagnatilis	1	0.0031	-5.7746	-0.0179	0.1036
Tringa erythropus	1	0.0031	-5.7746	-0.0179	0.1036
Tringa nebularia	13	0.0404	-3.2096	-0.1296	0.4159
Streptopelia decaocto	6	0.0186	-3.9828	-0.0742	0.2956
Spilopelia chinensis	3	0.0093	-4.6759	-0.0436	0.2037
Centropus sinensis	1	0.0031	-5.7746	-0.0179	0.1036
Eudynamys scolopaceus	3	0.0093	-4.6759	-0.0436	0.2037
Hierococcyx sparverioides	3	0.0093	-4.6759	-0.0436	0.2037
Otus lettia	1	0.0031	-5.7746	-0.0179	0.1036
Caprimulgus affinis	2	0.0062	-5.0814	-0.0316	0.1604
Halcyon smyrnensis	2	0.0062	-5.0814	-0.0316	0.1604
Alcedo atthis	1	0.0031	-5.7746	-0.0179	0.1036
Lanius schach	1	0.0031	-5.7746	-0.0179	0.1036
Cyanopica cyanus	26	0.0807	-2.5165	-0.2032	0.5113
Corvus torquatus	1	0.0031	-5.7746	-0.0179	0.1036
Corvus macrorhynchos	1	0.0031	-5.7746	-0.0179	0.1036
Parus minor	2	0.0062	-5.0814	-0.0316	0.1604
Pycnonotus jocosus	6	0.0186	-3.9828	-0.0742	0.2956
Pycnonotus sinensis	3	0.0093	-4.6759	-0.0436	0.2037
Hirundo rustica	6	0.0186	-3.9828	-0.0742	0.2956
Phylloscopus proregulus	1	0.0031	-5.7746	-0.0179	0.1036
Phylloscopus fuscatus	4	0.0124	-4.3883	-0.0545	0.2392
Prinia flaviventris	3	0.0093	-4.6759	-0.0436	0.2037
Prinia inornata	11	0.0342	-3.3767	-0.1154	0.3895
Orthotomus sutorius	2	0.0062	-5.0814	-0.0316	0.1604
Pterorhinus perspicillatus	7	0.0217	-3.8286	-0.0832	0.3187
Zosterops simplex	6	0.0186	-3.9828	-0.0742	0.2956
Acridotheres cristatellus	9	0.0280	-3.5773	-0.1000	0.3577
Gracupica nigricollis	22	0.0683	-2.6835	-0.1833	0.4920
Copsychus saularis	3	0.0093	-4.6759	-0.0436	0.2037
Saxicola stejnegeri	2	0.0062	-5.0814	-0.0316	0.1604
Passer montanus	11	0.0342	-3.3767	-0.1154	0.3895
Lonchura punctulata	6	0.0186	-3.9828	-0.0742	0.2956
Motacilla tschutschensis	2	0.0062	-5.0814	-0.0316	0.1604
Motacilla alba	5	0.0155	-4.1651	-0.0647	0.2694

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Anthus richardi	1	0.0031	-5.7746	-0.0179	0.1036
Total	322	1	-226.3460	-3.2905	11.9529
Richness	50				
SS	11.9529				
SQ	10.8271				
Н	3.2905				
S ² H	0.0037				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (14 April & 16 April 2025)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Tachybaptus ruficollis	3	0.0196	-3.9318	-0.0771	0.3031
Ardeola bacchus	26	0.1699	-1.7723	-0.3012	0.5338
Ardea cinerea	3	0.0196	-3.9318	-0.0771	0.3031
Ardea alba	6	0.0392	-3.2387	-0.1270	0.4113
Egretta garzetta	4	0.0261	-3.6441	-0.0953	0.3472
Milvus migrans	1	0.0065	-5.0304	-0.0329	0.1654
Himantopus himantopus	40	0.2614	-1.3416	-0.3507	0.4705
Charadrius dubius	1	0.0065	-5.0304	-0.0329	0.1654
Limosa limosa	11	0.0719	-2.6325	-0.1893	0.4983
Tringa totanus	38	0.2484	-1.3929	-0.3459	0.4818
Tringa stagnatilis	1	0.0065	-5.0304	-0.0329	0.1654
Tringa erythropus	1	0.0065	-5.0304	-0.0329	0.1654
Tringa nebularia	13	0.0850	-2.4655	-0.2095	0.5165
Centropus sinensis	1	0.0065	-5.0304	-0.0329	0.1654
Otus lettia	1	0.0065	-5.0304	-0.0329	0.1654
Halcyon smyrnensis	2	0.0131	-4.3373	-0.0567	0.2459
Corvus torquatus	1	0.0065	-5.0304	-0.0329	0.1654
Total	153	1	-63.9016	-2.0599	5.2693
Richness	17				
SS	5.2693				
SQ	4.2433				
Н	2.0599				
S ² H	0.00705				

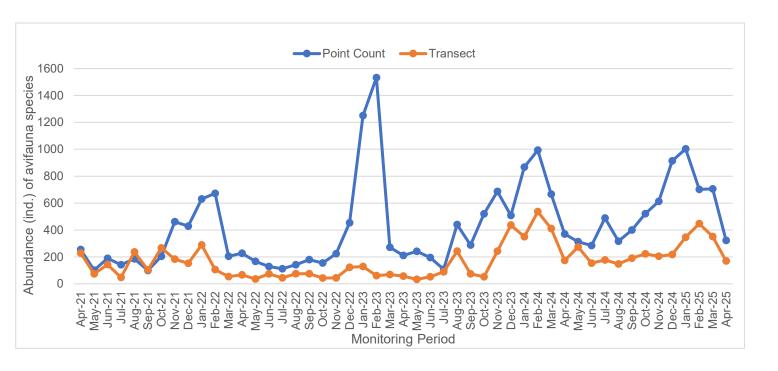
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (14 April & 16 April 2025)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Tachybaptus ruficollis	2	0.0118	-4.4427	-0.0523	0.2322
Nycticorax nycticorax	1	0.0059	-5.1358	-0.0302	0.1552
Ardeola bacchus	5	0.0294	-3.5264	-0.1037	0.3657
Ardea cinerea	1	0.0059	-5.1358	-0.0302	0.1552
Ardea alba	1	0.0059	-5.1358	-0.0302	0.1552
Egretta garzetta	6	0.0353	-3.3440	-0.1180	0.3947
Milvus migrans	4	0.0235	-3.7495	-0.0882	0.3308
Amaurornis phoenicurus	1	0.0059	-5.1358	-0.0302	0.1552
Gallinula chloropus	4	0.0235	-3.7495	-0.0882	0.3308
Himantopus himantopus	21	0.1235	-2.0913	-0.2583	0.5402
Recurvirostra avosetta	22	0.1294	-2.0448	-0.2646	0.5411
Limosa limosa	3	0.0176	-4.0372	-0.0712	0.2876
Actitis hypoleucos	1	0.0059	-5.1358	-0.0302	0.1552
Tringa totanus	12	0.0706	-2.6509	-0.1871	0.4960
Tringa nebularia	7	0.0412	-3.1899	-0.1313	0.4190
Spilopelia chinensis	5	0.0294	-3.5264	-0.1037	0.3657
Centropus sinensis	1	0.0059	-5.1358	-0.0302	0.1552
Glaucidium cuculoides	1	0.0059	-5.1358	-0.0302	0.1552
Caprimulgus affinis	2	0.0118	-4.4427	-0.0523	0.2322
Cyanopica cyanus	11	0.0647	-2.7379	-0.1772	0.4850
Parus minor	4	0.0235	-3.7495	-0.0882	0.3308
Pycnonotus jocosus	4	0.0235	-3.7495	-0.0882	0.3308
Pycnonotus sinensis	7	0.0412	-3.1899	-0.1313	0.4190
Phylloscopus inornatus	1	0.0059	-5.1358	-0.0302	0.1552
Phylloscopus proregulus	1	0.0059	-5.1358	-0.0302	0.1552
Phylloscopus fuscatus	1	0.0059	-5.1358	-0.0302	0.1552
Prinia inornata	4	0.0235	-3.7495	-0.0882	0.3308
Pterorhinus perspicillatus	9	0.0529	-2.9386	-0.1556	0.4572
Zosterops simplex	4	0.0235	-3.7495	-0.0882	0.3308
Acridotheres cristatellus	11	0.0647	-2.7379	-0.1772	0.4850
Gracupica nigricollis	7	0.0412	-3.1899	-0.1313	0.4190
Copsychus saularis	3	0.0176	-4.0372	-0.0712	0.2876
Saxicola stejnegeri	1	0.0059	-5.1358	-0.0302	0.1552
Motacilla tschutschensis	1	0.0059	-5.1358	-0.0302	0.1552
Motacilla alba	1	0.0059	-5.1358	-0.0302	0.1552
Total	170	1	-141.3898	-3.1086	10.4292
Richness	35				
SS	10.4292				
SQ	9.6632				
Н	3.1086				
S ² H	0.005094				

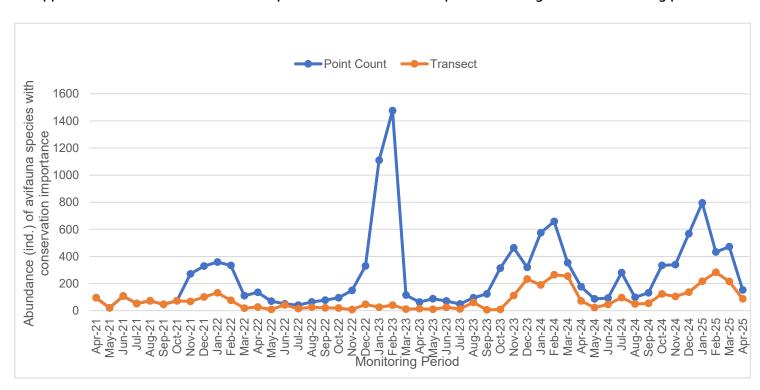
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (14 April & 16 April 2025)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Tachybaptus ruficollis	2	0.0230	-3.7728	-0.0867	0.3272
Nycticorax nycticorax	1	0.0115	-4.4659	-0.0513	0.2292
Ardeola bacchus	5	0.0575	-2.8565	-0.1642	0.4689
Ardea cinerea	1	0.0115	-4.4659	-0.0513	0.2292
Ardea alba	1	0.0115	-4.4659	-0.0513	0.2292
Egretta garzetta	6	0.0690	-2.6741	-0.1844	0.4932
Milvus migrans	4	0.0460	-3.0796	-0.1416	0.4360
Himantopus himantopus	21	0.2414	-1.4214	-0.3431	0.4877
Recurvirostra avosetta	22	0.2529	-1.3749	-0.3477	0.4780
Limosa limosa	3	0.0345	-3.3673	-0.1161	0.3910
Tringa totanus	12	0.1379	-1.9810	-0.2732	0.5413
Tringa nebularia	7	0.0805	-2.5200	-0.2028	0.5110
Centropus sinensis	1	0.0115	-4.4659	-0.0513	0.2292
Glaucidium cuculoides	1	0.0115	-4.4659	-0.0513	0.2292
Total	87	1	-45.3771	-2.1164	5.2805
Richness	14				
SS	5.2805				
SQ	4.4793				
Н	2.1164				
S ² H	0.01007				

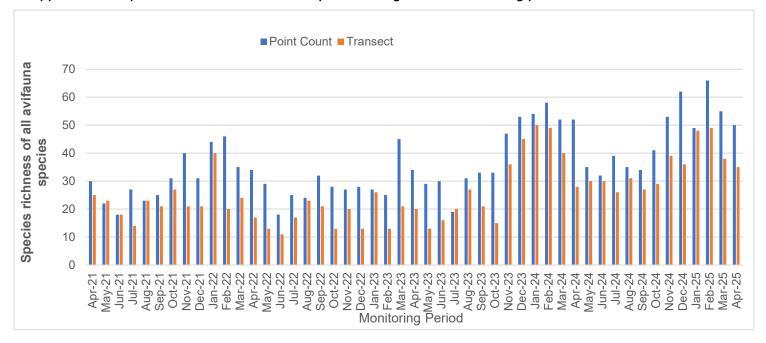
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



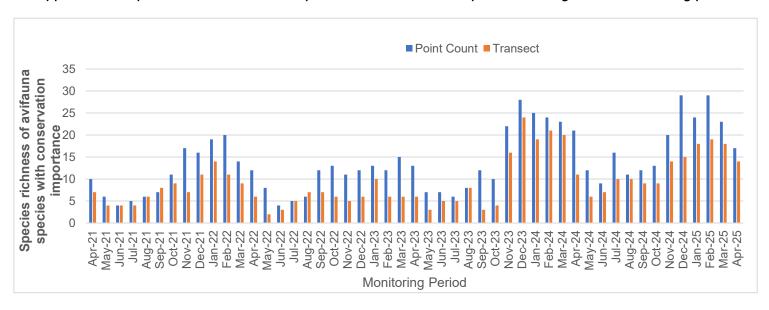
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period



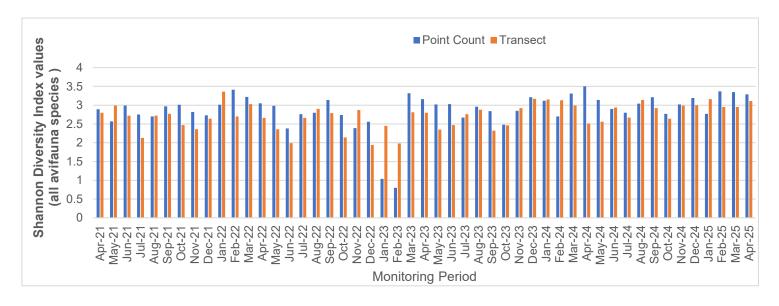
Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period



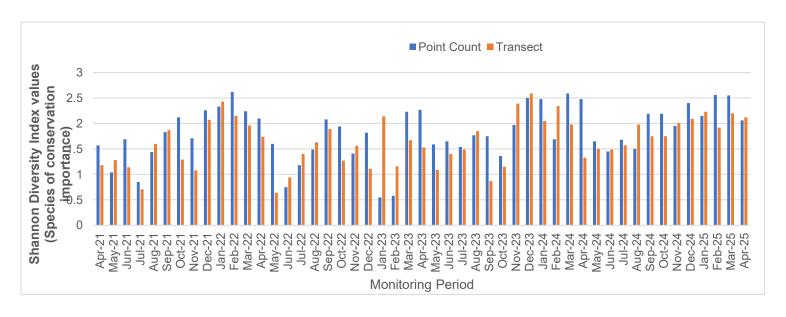
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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	April 2017	April 2025
Total	298	322
Richness	41	50
Н	3.1636	3.2905
S ² H	0.003400	0.003733
t	1.5016	
df	619.9608	
Crit	1.9638	
р	1.34E-01	
CI	0.1166	0.1222

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

Months	April 2017	April 2025
Total	47	170
Richness	13	35
Н	2.0956	3.1086
S ² H	0.02240	0.005094
t	6.1091	
df	69.8099	
Crit	1.9949	
р	5.24E-08	
CI	0.2993	0.1427

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

Months	April 2017	April 2025
Total	200	153
Richness	13	17
Н	2.2415	2.0599
S ² H	0.002200	0.007048
t	1.8879	
df	245.1508	
Crit	1.9697	
р	6.02E-02	
CI	0.0938	0.1679

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

Months	April 2017	April 2025
Total	1	87
Richness	1	14
Н	0.0000	2.1164
S ² H	0.00000	0.01007
t	21.0935	
df	87.0000	
Crit	1.9876	
р	5.79E-36	
CI	0.0000	0.2007

Appendix G Wind Data

Date	Wind Speed (m/s)	Wind Direction
1/4/2025 0:00	0.0	NE
1/4/2025 1:00	0.1	N
1/4/2025 2:00	0.1	NE
1/4/2025 3:00	0.0	NE
1/4/2025 4:00	0.1	NE
1/4/2025 5:00	0.0	NE
1/4/2025 6:00	0.1	N
1/4/2025 7:00	0.0	E
1/4/2025 8:00	0.6	NE
1/4/2025 9:00	0.7	NE
1/4/2025 10:00	0.1	NE
1/4/2025 11:00	0.1	NW
1/4/2025 12:00	0.2	NW
1/4/2025 13:00	0.7	NE
1/4/2025 14:00	0.1	NW
1/4/2025 15:00	0.6	N
1/4/2025 16:00	0.5	NE
1/4/2025 17:00	0.5	NE
1/4/2025 18:00	0.6	NE
1/4/2025 19:00	0.1	SE
1/4/2025 20:00	0.0	Е
1/4/2025 21:00	0.0	E
1/4/2025 22:00	0.0	SE
1/4/2025 23:00	0.0	E
1/4/2025 0:00	0.0	E
2/4/2025 1:00	0.0	S
2/4/2025 2:00	0.0	E

Date	Wind Speed (m/s)	Wind Direction
2/4/2025 3:00	0.0	SE
2/4/2025 4:00	0.0	S
2/4/2025 5:00	0.1	S
2/4/2025 6:00	0.1	S
2/4/2025 7:00	0.0	Е
2/4/2025 8:00	0.1	Е
2/4/2025 9:00	1.0	NE
2/4/2025 10:00	0.2	NE
2/4/2025 11:00	0.2	NE
2/4/2025 12:00	0.2	Е
2/4/2025 13:00	0.2	N
2/4/2025 14:00	0.4	NE
2/4/2025 15:00	1.8	E
2/4/2025 16:00	0.0	SW
2/4/2025 17:00	0.4	S
2/4/2025 18:00	0.8	S
2/4/2025 19:00	0.2	SE
2/4/2025 20:00	0.1	S
2/4/2025 21:00	0.1	E
2/4/2025 22:00	0.0	SE
2/4/2025 23:00	0.0	SE
2/4/2025 0:00	0.0	S
3/4/2025 1:00	0.1	S
3/4/2025 2:00	0.1	SE
3/4/2025 3:00	0.1	S
3/4/2025 4:00	0.0	NE
3/4/2025 5:00	0.1	SE

Date	Wind Speed (m/s)	Wind Direction
3/4/2025 6:00	0.0	SE
3/4/2025 7:00	0.1	S
3/4/2025 8:00	0.1	NE
3/4/2025 9:00	0.0	E
3/4/2025 10:00	0.1	N
3/4/2025 11:00	0.4	NE
3/4/2025 12:00	0.0	W
3/4/2025 13:00	0.0	S
3/4/2025 14:00	1.5	N
3/4/2025 15:00	0.3	SE
3/4/2025 16:00	0.2	S
3/4/2025 17:00	0.9	S
3/4/2025 18:00	1.0	S
3/4/2025 19:00	0.6	SW
3/4/2025 20:00	0.0	SE
3/4/2025 21:00	0.0	Е
3/4/2025 22:00	0.0	S
3/4/2025 23:00	0.0	SE
3/4/2025 0:00	0.0	Е
4/4/2025 1:00	0.2	NE
4/4/2025 2:00	0.0	N
4/4/2025 3:00	0.4	NE
4/4/2025 4:00	1.2	NE
4/4/2025 5:00	0.2	NE
4/4/2025 6:00	0.2	Е
4/4/2025 7:00	0.0	SE
4/4/2025 8:00	0.1	NW

Date	Wind Speed (m/s)	Wind Direction
4/4/2025 9:00	0.2	E
4/4/2025 10:00	0.4	E
4/4/2025 11:00	0.8	NE
4/4/2025 12:00	0.8	SE
4/4/2025 13:00	0.2	E
4/4/2025 14:00	0.2	Е
4/4/2025 15:00	0.1	Е
4/4/2025 16:00	0.1	E
4/4/2025 17:00	0.7	E
4/4/2025 18:00	0.1	NE
4/4/2025 19:00	0.3	NE
4/4/2025 20:00	0.3	NE
4/4/2025 21:00	0.1	N
4/4/2025 22:00	0.1	NE
4/4/2025 23:00	0.1	NE
4/4/2025 0:00	0.2	NE
5/4/2025 1:00	0.1	NE
5/4/2025 2:00	0.1	NE
5/4/2025 3:00	0.2	NE
5/4/2025 4:00	0.2	NE
5/4/2025 5:00	0.4	NE
5/4/2025 6:00	0.2	SE
5/4/2025 7:00	0.2	NE
5/4/2025 8:00	0.2	E
5/4/2025 9:00	0.2	NE
5/4/2025 10:00	0.3	NE
5/4/2025 11:00	0.2	E

Date	Wind Speed (m/s)	Wind Direction
5/4/2025 12:00	0.2	E
5/4/2025 13:00	2.4	NE
5/4/2025 14:00	0.2	NE
5/4/2025 15:00	0.6	NE
5/4/2025 16:00	0.1	SE
5/4/2025 17:00	0.5	NW
5/4/2025 18:00	0.1	NE
5/4/2025 19:00	0.0	NE
5/4/2025 20:00	0.0	E
5/4/2025 21:00	0.0	NE
5/4/2025 22:00	0.0	SE
5/4/2025 23:00	0.0	NE
5/4/2025 0:00	0.1	S
6/4/2025 1:00	0.0	SE
6/4/2025 2:00	0.0	SE
6/4/2025 3:00	0.0	SE
6/4/2025 4:00	0.0	NE
6/4/2025 5:00	0.0	NE
6/4/2025 6:00	0.0	NE
6/4/2025 7:00	0.0	NE
6/4/2025 8:00	0.0	E
6/4/2025 9:00	0.2	NE
6/4/2025 10:00	0.1	N
6/4/2025 11:00	0.1	NE
6/4/2025 12:00	0.1	E
6/4/2025 13:00	0.0	NE
6/4/2025 14:00	0.1	W

Date	Wind Speed (m/s)	Wind Direction
6/4/2025 15:00	0.1	W
6/4/2025 16:00	0.1	SE
6/4/2025 17:00	0.0	S
6/4/2025 18:00	0.1	N
6/4/2025 19:00	0.0	S
6/4/2025 20:00	0.0	S
6/4/2025 21:00	0.1	S
6/4/2025 22:00	0.1	N
6/4/2025 23:00	0.1	S
6/4/2025 0:00	0.0	S
7/4/2025 1:00	0.1	SE
7/4/2025 2:00	0.0	N
7/4/2025 3:00	0.1	S
7/4/2025 4:00	0.0	NE
7/4/2025 5:00	0.1	W
7/4/2025 6:00	0.1	SE
7/4/2025 7:00	0.0	SE
7/4/2025 8:00	0.0	NW
7/4/2025 9:00	0.0	NW
7/4/2025 10:00	0.7	W
7/4/2025 11:00	1.4	Е
7/4/2025 12:00	3.9	NE
7/4/2025 13:00	1.4	Е
7/4/2025 14:00	0.3	NE
7/4/2025 15:00	1.7	SE
7/4/2025 16:00	0.8	NE
7/4/2025 17:00	0.4	NE

Date	Wind Speed (m/s)	Wind Direction
7/4/2025 18:00	0.0	SE
7/4/2025 19:00	0.0	E
7/4/2025 20:00	0.0	SE
7/4/2025 21:00	0.0	N
7/4/2025 22:00	0.1	NE
7/4/2025 23:00	0.0	SE
7/4/2025 0:00	0.0	SE
8/4/2025 1:00	0.0	N
8/4/2025 2:00	0.0	S
8/4/2025 3:00	0.0	E
8/4/2025 4:00	0.0	SE
8/4/2025 5:00	0.0	SE
8/4/2025 6:00	0.0	S
8/4/2025 7:00	0.0	E
8/4/2025 8:00	0.0	E
8/4/2025 9:00	0.0	SE
8/4/2025 10:00	0.0	SE
8/4/2025 11:00	0.1	NE
8/4/2025 12:00	0.1	W
8/4/2025 13:00	0.9	W
8/4/2025 14:00	1.3	NW
8/4/2025 15:00	0.5	W
8/4/2025 16:00	0.1	NW
8/4/2025 17:00	0.1	SW
8/4/2025 18:00	0.2	S
8/4/2025 19:00	0.2	SE
8/4/2025 20:00	0.0	S

Date	Wind Speed (m/s)	Wind Direction
8/4/2025 21:00	0.1	NE
8/4/2025 22:00	0.0	SE
8/4/2025 23:00	0.1	NE
8/4/2025 0:00	0.0	NE
9/4/2025 1:00	0.1	E
9/4/2025 2:00	0.0	Е
9/4/2025 3:00	0.1	SE
9/4/2025 4:00	0.0	SE
9/4/2025 5:00	0.1	SE
9/4/2025 6:00	0.0	S
9/4/2025 7:00	0.0	S
9/4/2025 8:00	0.0	NE
9/4/2025 9:00	0.0	SE
9/4/2025 10:00	0.1	NE
9/4/2025 11:00	0.1	NW
9/4/2025 12:00	0.8	N
9/4/2025 13:00	0.0	NE
9/4/2025 14:00	0.3	NW
9/4/2025 15:00	1.1	S
9/4/2025 16:00	0.7	S
9/4/2025 17:00	0.2	SE
9/4/2025 18:00	0.1	S
9/4/2025 19:00	0.1	S
9/4/2025 20:00	0.3	SW
9/4/2025 21:00	0.0	S
9/4/2025 22:00	0.1	SW
9/4/2025 23:00	0.0	S

Date	Wind Speed (m/s)	Wind Direction
9/4/2025 0:00	0.2	S
10/4/2025 1:00	0.1	SE
10/4/2025 2:00	0.1	S
10/4/2025 3:00	0.1	W
10/4/2025 4:00	0.0	S
10/4/2025 5:00	0.1	NE
10/4/2025 6:00	0.0	NE
10/4/2025 7:00	0.0	S
10/4/2025 8:00	0.0	E
10/4/2025 9:00	0.1	S
10/4/2025 10:00	0.1	N
10/4/2025 11:00	0.2	NW
10/4/2025 12:00	0.1	E
10/4/2025 13:00	1.8	SW
10/4/2025 14:00	2.1	SW
10/4/2025 15:00	0.7	S
10/4/2025 16:00	1.8	S
10/4/2025 17:00	0.2	W
10/4/2025 18:00	1.1	SW
10/4/2025 19:00	0.3	S
10/4/2025 20:00	0.7	S
10/4/2025 21:00	0.1	S
10/4/2025 22:00	0.1	W
10/4/2025 23:00	0.2	S
10/4/2025 0:00	0.1	S
11/4/2025 1:00	0.2	S
11/4/2025 2:00	0.1	SW

Date	Wind Speed (m/s)	Wind Direction
11/4/2025 3:00	0.1	S
11/4/2025 4:00	0.0	SE
11/4/2025 5:00	0.0	S
11/4/2025 6:00	0.0	E
11/4/2025 7:00	0.0	E
11/4/2025 8:00	0.2	SE
11/4/2025 9:00	0.2	SW
11/4/2025 10:00	1.1	S
11/4/2025 11:00	0.5	S
11/4/2025 12:00	0.4	S
11/4/2025 13:00	2.3	S
11/4/2025 14:00	3.9	S
11/4/2025 15:00	0.9	S
11/4/2025 16:00	0.0	NW
11/4/2025 17:00	0.4	S
11/4/2025 18:00	0.3	S
11/4/2025 19:00	0.9	S
11/4/2025 20:00	0.2	SW
11/4/2025 21:00	0.2	S
11/4/2025 22:00	0.1	S
11/4/2025 23:00	0.3	S
11/4/2025 0:00	1.1	S
12/4/2025 1:00	1.4	S
12/4/2025 2:00	0.2	S
12/4/2025 3:00	0.1	SE
12/4/2025 4:00	2.2	SW
12/4/2025 5:00	0.3	S

Date	Wind Speed (m/s)	Wind Direction
12/4/2025 6:00	0.2	S
12/4/2025 7:00	0.8	S
12/4/2025 8:00	0.2	S
12/4/2025 9:00	0.7	S
12/4/2025 10:00	0.0	SE
12/4/2025 11:00	0.2	S
12/4/2025 12:00	0.8	S
12/4/2025 13:00	0.1	W
12/4/2025 14:00	0.6	SW
12/4/2025 15:00	3.8	SW
12/4/2025 16:00	1.0	W
12/4/2025 17:00	0.7	NE
12/4/2025 18:00	1.3	NE
12/4/2025 19:00	2.0	Е
12/4/2025 20:00	4.0	E
12/4/2025 21:00	0.9	Е
12/4/2025 22:00	0.1	NE
12/4/2025 23:00	1.7	E
12/4/2025 0:00	1.4	NE
13/4/2025 1:00	0.1	NE
13/4/2025 2:00	1.2	NE
13/4/2025 3:00	0.9	N
13/4/2025 4:00	0.0	N
13/4/2025 5:00	0.5	Е
13/4/2025 6:00	1.7	NE
13/4/2025 7:00	4.8	NE
13/4/2025 8:00	1.2	SE

Date	Wind Speed (m/s)	Wind Direction
13/4/2025 9:00	3.3	E
13/4/2025 10:00	0.7	E
13/4/2025 11:00	4.3	NE
13/4/2025 12:00	3.6	NE
13/4/2025 13:00	0.1	SE
13/4/2025 14:00	0.3	E
13/4/2025 15:00	2.9	NE
13/4/2025 16:00	0.2	N
13/4/2025 17:00	0.0	NE
13/4/2025 18:00	0.2	N
13/4/2025 19:00	0.0	SE
13/4/2025 20:00	0.0	N
13/4/2025 21:00	0.0	S
13/4/2025 22:00	0.0	S
13/4/2025 23:00	0.0	S
13/4/2025 0:00	0.0	S
14/4/2025 1:00	0.0	S
14/4/2025 2:00	0.0	S
14/4/2025 3:00	0.0	SE
14/4/2025 4:00	0.1	S
14/4/2025 5:00	0.0	S
14/4/2025 6:00	0.0	S
14/4/2025 7:00	0.0	S
14/4/2025 8:00	0.0	NW
14/4/2025 9:00	0.2	NW
14/4/2025 10:00	0.1	W
14/4/2025 11:00	0.1	NW

Date	Wind Speed (m/s)	Wind Direction
14/4/2025 12:00	0.1	NE
14/4/2025 13:00	0.7	SW
14/4/2025 14:00	0.0	W
14/4/2025 15:00	1.6	SW
14/4/2025 16:00	0.3	SW
14/4/2025 17:00	0.1	W
14/4/2025 18:00	0.5	W
14/4/2025 19:00	0.0	NW
14/4/2025 20:00	0.1	SE
14/4/2025 21:00	0.0	S
14/4/2025 22:00	0.1	SW
14/4/2025 23:00	0.0	NE
14/4/2025 0:00	0.0	S
15/4/2025 1:00	0.1	S
15/4/2025 2:00	0.0	S
15/4/2025 3:00	0.0	SE
15/4/2025 4:00	0.0	SE
15/4/2025 5:00	0.0	SE
15/4/2025 6:00	0.1	SE
15/4/2025 7:00	0.0	SE
15/4/2025 8:00	0.0	N
15/4/2025 9:00	0.0	NE
15/4/2025 10:00	1.2	NE
15/4/2025 11:00	4.4	NE
15/4/2025 12:00	0.9	N
15/4/2025 13:00	1.8	NE
15/4/2025 14:00	0.3	SE

Date	Wind Speed (m/s)	Wind Direction
15/4/2025 15:00	2.4	SW
15/4/2025 16:00	0.4	S
15/4/2025 17:00	2.4	S
15/4/2025 18:00	2.3	S
15/4/2025 19:00	0.0	S
15/4/2025 20:00	0.2	Е
15/4/2025 21:00	0.0	Е
15/4/2025 22:00	0.0	N
15/4/2025 23:00	0.1	NW
15/4/2025 0:00	0.1	NW
16/4/2025 1:00	0.0	SW
16/4/2025 2:00	0.0	S
16/4/2025 3:00	0.0	NE
16/4/2025 4:00	0.0	N
16/4/2025 5:00	0.1	S
16/4/2025 6:00	0.0	SE
16/4/2025 7:00	0.0	E
16/4/2025 8:00	0.0	NE
16/4/2025 9:00	0.0	NE
16/4/2025 10:00	0.0	N
16/4/2025 11:00	0.6	SW
16/4/2025 12:00	0.1	S
16/4/2025 13:00	2.2	S
16/4/2025 14:00	0.1	SW
16/4/2025 15:00	4.6	S
16/4/2025 16:00	0.8	SE
16/4/2025 17:00	1.7	S

Date	Wind Speed (m/s)	Wind Direction
16/4/2025 18:00	0.6	S
16/4/2025 19:00	0.4	S
16/4/2025 20:00	0.1	S
16/4/2025 21:00	0.0	NE
16/4/2025 22:00	0.0	N
16/4/2025 23:00	0.1	NW
16/4/2025 0:00	0.1	SE
17/4/2025 1:00	0.0	SE
17/4/2025 2:00	0.0	E
17/4/2025 3:00	0.0	Е
17/4/2025 4:00	0.0	S
17/4/2025 5:00	0.1	S
17/4/2025 6:00	0.1	E
17/4/2025 7:00	0.1	S
17/4/2025 8:00	0.2	SE
17/4/2025 9:00	0.2	SE
17/4/2025 10:00	0.0	S
17/4/2025 11:00	0.4	S
17/4/2025 12:00	1.7	S
17/4/2025 13:00	0.1	S
17/4/2025 14:00	0.0	S
17/4/2025 15:00	0.6	S
17/4/2025 16:00	0.6	Е
17/4/2025 17:00	0.3	S
17/4/2025 18:00	0.5	SE
17/4/2025 19:00	0.8	S
17/4/2025 20:00	0.1	S

Date	Wind Speed (m/s)	Wind Direction
17/4/2025 21:00	0.3	S
17/4/2025 22:00	0.1	S
17/4/2025 23:00	0.0	S
17/4/2025 0:00	0.1	S
18/4/2025 1:00	0.0	NE
18/4/2025 2:00	0.1	NE
18/4/2025 3:00	0.0	NE
18/4/2025 4:00	0.0	NE
18/4/2025 5:00	0.1	NE
18/4/2025 6:00	0.1	NE
18/4/2025 7:00	0.1	NE
18/4/2025 8:00	0.1	E
18/4/2025 9:00	0.2	S
18/4/2025 10:00	0.3	S
18/4/2025 11:00	0.5	SE
18/4/2025 12:00	0.6	S
18/4/2025 13:00	0.2	S
18/4/2025 14:00	0.9	S
18/4/2025 15:00	0.2	S
18/4/2025 16:00	0.5	S
18/4/2025 17:00	0.0	SW
18/4/2025 18:00	1.3	S
18/4/2025 19:00	1.8	S
18/4/2025 20:00	2.3	S
18/4/2025 21:00	0.1	SW
18/4/2025 22:00	1.2	S
18/4/2025 23:00	0.1	S

Date	Wind Speed (m/s)	Wind Direction
18/4/2025 0:00	0.2	S
19/4/2025 1:00	0.2	S
19/4/2025 2:00	0.1	SE
19/4/2025 3:00	0.2	SW
19/4/2025 4:00	0.4	S
19/4/2025 5:00	1.7	S
19/4/2025 6:00	0.2	SW
19/4/2025 7:00	0.1	SW
19/4/2025 8:00	0.3	S
19/4/2025 9:00	0.1	SW
19/4/2025 10:00	0.8	S
19/4/2025 11:00	2.1	S
19/4/2025 12:00	0.1	S
19/4/2025 13:00	3.2	S
19/4/2025 14:00	0.9	S
19/4/2025 15:00	2.1	SE
19/4/2025 16:00	2.4	S
19/4/2025 17:00	0.3	S
19/4/2025 18:00	0.2	S
19/4/2025 19:00	1.2	S
19/4/2025 20:00	0.1	S
19/4/2025 21:00	0.8	S
19/4/2025 22:00	0.1	S
19/4/2025 23:00	0.1	S
19/4/2025 0:00	1.6	S
20/4/2025 1:00	0.0	S
20/4/2025 2:00	0.1	SE

Date	Wind Speed (m/s)	Wind Direction
20/4/2025 3:00	0.1	S
20/4/2025 4:00	0.2	S
20/4/2025 5:00	0.1	SE
20/4/2025 6:00	0.1	S
20/4/2025 7:00	0.3	S
20/4/2025 8:00	1.1	S
20/4/2025 9:00	0.3	S
20/4/2025 10:00	0.7	SW
20/4/2025 11:00	2.6	SE
20/4/2025 12:00	0.6	S
20/4/2025 13:00	2.9	S
20/4/2025 14:00	0.2	S
20/4/2025 15:00	2.5	SE
20/4/2025 16:00	1.0	SE
20/4/2025 17:00	1.2	S
20/4/2025 18:00	1.2	S
20/4/2025 19:00	0.5	S
20/4/2025 20:00	1.3	S
20/4/2025 21:00	0.0	S
20/4/2025 22:00	0.5	S
20/4/2025 23:00	0.2	S
20/4/2025 0:00	0.1	S
21/4/2025 1:00	0.2	S
21/4/2025 2:00	0.0	S
21/4/2025 3:00	0.0	S
21/4/2025 4:00	0.2	S
21/4/2025 5:00	0.2	SE

Date	Wind Speed (m/s)	Wind Direction
21/4/2025 6:00	0.1	S
21/4/2025 7:00	0.1	S
21/4/2025 8:00	0.4	SE
21/4/2025 9:00	0.6	SW
21/4/2025 10:00	2.2	SW
21/4/2025 11:00	1.9	S
21/4/2025 12:00	0.8	S
21/4/2025 13:00	2.0	S
21/4/2025 14:00	1.1	SW
21/4/2025 15:00	3.3	W
21/4/2025 16:00	2.3	SW
21/4/2025 17:00	3.2	SW
21/4/2025 18:00	0.9	S
21/4/2025 19:00	0.8	S
21/4/2025 20:00	1.5	S
21/4/2025 21:00	0.8	S
21/4/2025 22:00	0.1	SW
21/4/2025 23:00	0.0	SE
21/4/2025 0:00	0.5	S
22/4/2025 1:00	0.1	S
22/4/2025 2:00	0.2	S
22/4/2025 3:00	0.1	S
22/4/2025 4:00	0.1	SW
22/4/2025 5:00	0.0	S
22/4/2025 6:00	0.1	S
22/4/2025 7:00	0.2	S
22/4/2025 8:00	0.1	S

Date	Wind Speed (m/s)	Wind Direction
22/4/2025 9:00	3.1	S
22/4/2025 10:00	2.2	S
22/4/2025 11:00	3.2	SW
22/4/2025 12:00	0.2	S
22/4/2025 13:00	1.5	SW
22/4/2025 14:00	1.0	SW
22/4/2025 15:00	1.1	S
22/4/2025 16:00	0.1	SW
22/4/2025 17:00	0.4	SW
22/4/2025 18:00	0.8	S
22/4/2025 19:00	0.4	S
22/4/2025 20:00	0.8	S
22/4/2025 21:00	0.0	SE
22/4/2025 22:00	0.1	SE
22/4/2025 23:00	0.1	S
22/4/2025 0:00	0.0	SE
23/4/2025 1:00	0.1	S
23/4/2025 2:00	1.6	S
23/4/2025 3:00	0.1	Е
23/4/2025 4:00	0.2	S
23/4/2025 5:00	0.1	S
23/4/2025 6:00	0.0	S
23/4/2025 7:00	0.0	SE
23/4/2025 8:00	0.9	SW
23/4/2025 9:00	1.5	SW
23/4/2025 10:00	1.4	SW
23/4/2025 11:00	0.1	SW

Date	Wind Speed (m/s)	Wind Direction
23/4/2025 12:00	0.1	SW
23/4/2025 13:00	1.6	S
23/4/2025 14:00	0.2	SE
23/4/2025 15:00	0.3	S
23/4/2025 16:00	0.2	S
23/4/2025 17:00	0.0	SE
23/4/2025 18:00	0.7	S
23/4/2025 19:00	0.3	S
23/4/2025 20:00	0.1	SE
23/4/2025 21:00	0.0	SE
23/4/2025 22:00	0.0	SE
23/4/2025 23:00	0.0	SE
23/4/2025 0:00	0.0	S
24/4/2025 1:00	0.1	S
24/4/2025 2:00	0.1	S
24/4/2025 3:00	0.1	SE
24/4/2025 4:00	0.1	S
24/4/2025 5:00	0.1	S
24/4/2025 6:00	0.0	S
24/4/2025 7:00	0.1	S
24/4/2025 8:00	0.2	S
24/4/2025 9:00	0.2	S
24/4/2025 10:00	0.3	S
24/4/2025 11:00	0.7	S
24/4/2025 12:00	1.4	S
24/4/2025 13:00	0.1	W
24/4/2025 14:00	3.2	S

Date	Wind Speed (m/s)	Wind Direction
24/4/2025 15:00	1.2	SW
24/4/2025 16:00	0.8	SW
24/4/2025 17:00	0.6	SW
24/4/2025 18:00	0.8	S
24/4/2025 19:00	0.2	W
24/4/2025 20:00	0.4	N
24/4/2025 21:00	0.1	S
24/4/2025 22:00	0.1	SE
24/4/2025 23:00	0.0	NE
24/4/2025 0:00	0.0	NE
25/4/2025 1:00	0.1	E
25/4/2025 2:00	0.2	E
25/4/2025 3:00	0.4	E
25/4/2025 4:00	0.2	SE
25/4/2025 5:00	4.0	NE
25/4/2025 6:00	10.4	S
25/4/2025 7:00	8.0	NE
25/4/2025 8:00	8.5	S
25/4/2025 9:00	5.2	SE
25/4/2025 10:00	4.9	S
25/4/2025 11:00	3.9	W
25/4/2025 12:00	0.1	NW
25/4/2025 13:00	3.3	SW
25/4/2025 14:00	0.0	W
25/4/2025 15:00	0.0	SW
25/4/2025 16:00	0.2	SW
25/4/2025 17:00	0.1	NW

Date	Wind Speed (m/s)	Wind Direction
25/4/2025 18:00	0.2	SE
25/4/2025 19:00	0.4	Е
25/4/2025 20:00	0.8	Е
25/4/2025 21:00	0.6	NE
25/4/2025 22:00	0.7	Е
25/4/2025 23:00	1.7	Е
26/4/2025 0:00	1.9	NE
26/4/2025 1:00	0.6	S
26/4/2025 2:00	0.4	E
26/4/2025 3:00	0.4	Е
26/4/2025 4:00	0.4	Е
26/4/2025 5:00	0.4	SE
26/4/2025 6:00	0.6	SE
26/4/2025 7:00	0.1	NE
26/4/2025 8:00	0.1	SE
26/4/2025 9:00	0.4	Е
26/4/2025 10:00	0.1	NE
26/4/2025 11:00	2.0	NE
26/4/2025 12:00	1.0	Е
26/4/2025 13:00	0.2	E
26/4/2025 14:00	1.1	NE
26/4/2025 15:00	0.7	NE
26/4/2025 16:00	0.7	Е
26/4/2025 17:00	1.8	Е
26/4/2025 18:00	2.0	NE
26/4/2025 19:00	0.2	Е
26/4/2025 20:00	0.1	NE

Date	Wind Speed (m/s)	Wind Direction
26/4/2025 21:00	0.0	NE
26/4/2025 22:00	0.2	NE
26/4/2025 23:00	0.2	NE
27/4/2025 0:00	0.0	E
27/4/2025 1:00	0.2	E
27/4/2025 2:00	0.1	N
27/4/2025 3:00	0.0	SE
27/4/2025 4:00	0.1	Е
27/4/2025 5:00	0.1	SE
27/4/2025 6:00	0.2	NE
27/4/2025 7:00	0.0	Е
27/4/2025 8:00	0.1	E
27/4/2025 9:00	0.0	W
27/4/2025 10:00	0.0	Е
27/4/2025 11:00	0.0	NE
27/4/2025 12:00	1.0	NW
27/4/2025 13:00	0.1	N
27/4/2025 14:00	0.0	Е
27/4/2025 15:00	1.3	NE
27/4/2025 16:00	0.2	SW
27/4/2025 17:00	0.4	S
27/4/2025 18:00	0.2	NE
27/4/2025 19:00	0.1	E
27/4/2025 20:00	0.8	E
27/4/2025 21:00	0.1	SE
27/4/2025 22:00	0.0	S
27/4/2025 23:00	0.0	NE

Date	Wind Speed (m/s)	Wind Direction
28/4/2025 0:00	0.1	N
28/4/2025 1:00	0.2	NE
28/4/2025 2:00	0.1	E
28/4/2025 3:00	0.1	SE
28/4/2025 4:00	0.0	SE
28/4/2025 5:00	0.1	N
28/4/2025 6:00	0.1	S
28/4/2025 7:00	0.0	E
28/4/2025 8:00	0.2	NE
28/4/2025 9:00	0.4	NE
28/4/2025 10:00	0.1	S
28/4/2025 11:00	0.0	N
28/4/2025 12:00	0.2	NW
28/4/2025 13:00	0.3	W
28/4/2025 14:00	0.0	SE
28/4/2025 15:00	0.7	W
28/4/2025 16:00	0.8	NW
28/4/2025 17:00	0.3	W
28/4/2025 18:00	1.3	N
28/4/2025 19:00	0.0	S
28/4/2025 20:00	0.0	S
28/4/2025 21:00	0.0	S
28/4/2025 22:00	0.1	SE
28/4/2025 23:00	0.0	NE
29/4/2025 0:00	0.0	Е
29/4/2025 1:00	0.0	SE
29/4/2025 2:00	0.0	Е

Date	Wind Speed (m/s)	Wind Direction
29/4/2025 3:00	2.0	E
29/4/2025 4:00	0.3	E
29/4/2025 5:00	0.4	NE
29/4/2025 6:00	0.6	NE
29/4/2025 7:00	0.6	NE
29/4/2025 8:00	0.0	SE
29/4/2025 9:00	0.1	NE
29/4/2025 10:00	2.2	E
29/4/2025 11:00	1.0	E
29/4/2025 12:00	0.6	S
29/4/2025 13:00	0.7	S
29/4/2025 14:00	0.0	E
29/4/2025 15:00	0.3	S
29/4/2025 16:00	0.7	NE
29/4/2025 17:00	0.1	S
29/4/2025 18:00	0.0	NE
29/4/2025 19:00	0.1	SE
29/4/2025 20:00	0.0	S
29/4/2025 21:00	0.0	S
29/4/2025 22:00	0.0	NE
29/4/2025 23:00	0.0	SE
30/4/2025 0:00	0.1	E
30/4/2025 1:00	0.0	N
30/4/2025 2:00	0.0	E
30/4/2025 3:00	0.0	SE
30/4/2025 4:00	0.0	E
30/4/2025 5:00	0.1	NE

Date	Wind Speed (m/s)	Wind Direction
30/4/2025 6:00	0.1	E
30/4/2025 7:00	0.0	SE
30/4/2025 8:00	0.1	S
30/4/2025 9:00	0.0	SE
30/4/2025 10:00	1.4	Е
30/4/2025 11:00	0.7	NE
30/4/2025 12:00	0.1	NW
30/4/2025 13:00	0.8	S
30/4/2025 14:00	0.3	SE
30/4/2025 15:00	0.0	NE
30/4/2025 16:00	0.1	N
30/4/2025 17:00	0.1	NE
30/4/2025 18:00	0.0	NE
30/4/2025 19:00	0.1	NE
30/4/2025 20:00	0.0	NE
30/4/2025 21:00	0.1	N
30/4/2025 22:00	0.0	E
30/4/2025 23:00	0.6	NE
1/5/2025 0:00	1.0	NE

Appendix H Event and Action Plan

Event and Action Plan for Air Quality (Construction Dust)

Frant		Action		
Event	ET	IEC	ER	Contractor
Action level being exceeded by	 Identify source, investigate the causes of complaint and propose remedial measures; Inform Contractor, IEC and ER; Repeat measurement to confirm finding; and Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method; and Review and advise the ET and ER on the effectiveness of the proposed remedial measures. 	Notify Contractor.	Identify source(s), investigate the causes of exceedance and propose remedial measures; Implement remedial measures; and Amend working methods agreed with the ER as appropriate.
Action level being exceeded by two or more consecutive sampling	 Identify source; Inform Contractor, IEC and ER; Advise the Contractor and ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with Contractor, IEC and ER; and If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Identify source and investigate the causes of exceedance; Submit proposals for remedial measures to the ER with a copy to ET and IEC within three working days of notification; Implement the agreed proposals; and Amend proposal as appropriate.
Limit level being exceeded by one sampling	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform Contractor, IEC, ER, and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; and Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures. 	Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented.	Identify source(s) and investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to ER with a copy to ET and IEC within three working days of notification; Implement the agreed proposals; and Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by the ET; Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; and 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. 	 Identify source(s) and investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to the ER with a copy to the IEC and ET within three working days of notification; Implement the agreed proposals; Revise and resubmit proposals if problem still not under control; and 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	
Event	ET	IEC ER	Contractor
Action Level	 Notify IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; and Increase monitoring frequency to check mitigation effectiveness. 	 Review the analyzed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; and Supervise the implementation of remedial measures. Confirm receipt of notification of failure in with contractor; Require Contractor to propose remedial measures for the analyzed noise problem; at Ensure remedial measures are properly implemented. 	to IEC; and 2. Implement noise mitigation
Limit Level	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures. Confirm receipt of notification of failure in with contractor; Require Contractor to propose remedial measures for the analyzed noise problem; implemented; and Ensure remedial measures properly implemented; and 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. 	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

Event and Action Plan for Water Quality Monitoring

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

Event and Action Plan for Ecology Monitoring

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

Appendix I Waste Flow Table

Waste Flor	w Table for Year	2025									
		Actual Quantities of Inert C&D Materials Generated Monthly			Actual Quantities of Non-inert C&D Wastes Generated Monthly						
Monthly Ending	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2025 Jan	3,435.58	Nil	Nil	Nil	3,305.22	777.24	78.92	0.03	Nil	Nil	130.33
2025 Feb	9,006.73	Nil	Nil	Nil	8,882.31	318.15	90.00	Nil	Nil	Nil	124.42
2025 Mar	8,791.06	Nil	Nil	Nil	8,665.14	325.29	130.60	0.28	Nil	Nil	125.63
2025 Apr	2,095.41	Nil	Nil	Nil	1,906.16	258.74	Nil	Nil	Nil	Nil	189.25
Total	23,628.30	Nil	Nil	Nil	22,758.83	1,679.42	299.52	0.31	Nil	Nil	569.63

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

Note:
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.

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		
	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				
	Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.		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		
0044	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.		Implemented		
3.8.1.1	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.	Construction Sites	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)		
	Movable noise barriers are recommended for hydraulic breakers mounted on excavators to be adopted during construction.		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
4.8.1	Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme.	Construction Sites	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 runoff 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)		
	Good Site Practices 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;		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
6.6.1.3	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;	Construction Sites	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
	Waste Reduction Measures 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;		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;	Construction Sites	Implemented
	Any unused chemicals or those with remaining functional capacity shall be recycled;		N/A
6.6.1.5	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
	Storage of Waste		
	Recommendations to minimise the impacts include:		
	Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimising the potential of pollution;	Construction Sites	Implemented
6.6.1.7	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
	Collection of Waste Licensed waste haulers should be employed for the collection and transportation of waste generated. The following measures should be e	enforced to minimise the potential ac	verse impacts:
	Remove waste in timely manner;	·	Implemented
	Waste collectors should only collect wastes prescribed by their permits;	Transportation Route of Waste /	Implemented
6.6.1.8	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	Transportation of Waste 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.		Implemented
6.6.1.12	Construction and Demolition Material 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
	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:		
6.6.1.13	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	Construction Sites	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
	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:		
	Surface of stockpiled soil should be regularly wetted with water especially during dry season;		Implemented
6.6.1.14	Disturbance of stockpile soil should be minimised;	Construction Sites	Implemented
	Stockpiled soil should be properly covered with tarpaulin especially when heavy storms are predicted; and	Constituction Oiles	Implemented
	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. 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
	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;		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
7.8.3.1	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
7.6.3.1	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;	Project Site / Construction Phase	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	Avoidance of Recognised Site of Conservation Importance 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	Avoidance of Demolition Works Using Breakers Mounted on Excavators and Percussive Piling during Dry Season 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	Restriction of Construction Hours 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	Minimising Construction Noise Disturbance Impacts through Consideration of Alternative Construction Methods 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	Minimising Construction Noise Disturbance Impacts Through Careful Phasing of Construction Activities 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	Minimising Construction Noise Disturbance Impacts through Use of Noise Barriers 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	Use of Quality Powered Mechanical Equipment 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		
	Preservation of Existing Vegetation (CM1)		
	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
	Transplanting of Affected Trees (CM2)	D : 1 " 10 1 "	Implemented
	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	
	Compensatory Tree Planting (CM3)	Project site / Construction	
Table 10.11	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.	Phase	N/A
	Control of Night-time Lighting Glare (CM4)	Project site / Construction Phase	Implemented
	All the night time lighting shall be avoided except for safety purpose. No light glare shall illuminate directly outside the site.		Implemented
	Erection of Decorative Screen Hoarding (CM5)	Project site / Construction	Implemented
	Site hoardings, if any, shall be painted in dull green colour	Phase	Implemented
	Management of Construction Activities and Facilities (CM6)	Duning the House Constitution	
	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;		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;	Project site / Construction Phase	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	i iiase	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
	Method statements and risk assessments shall be prepared and safety control measures shall be in place before commencement of work		Implemented
	All work procedures shall be complied with the operating plant procedures or guidelines and regulatory requirements;		Implemented
11.5.8	 Work permit system, on-site pre-work risk assessment and emergency response procedure shall be in place before commencement of work; 	Project site / Construction Phase	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
	Ensure speed limit enforcement is specified in the contractor's method statement to limit the speed of construction vehicles onsite;		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 are 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
11.9.1.2	Ensure effective communication system / protocol is in place between the contractors and the operation staff;	Project site / Construction Phase	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

March 2025 Weather

Station: Wetland Park

	Mean		Air Temperature		Mean	Total			
Date	Pressure	Maximum	Mean	Minimum	Relative Humidity	Rainfall			
	(hPa)	(deg. C)	(deg. C)	(deg. C)	(%)	(mm)			
	March 2025								
1	1014.3	27.1	22.5	18.7	87	0			
2	1012	27.9	23.5	20.8	87	0			
3	1010.5	28.5	24	19.8	86	0			
4	1009.9	27.5	24.8	22.9	85	0			
5	1013.3	23.2	19	16.2	94	2			
6	1020.5	16.3	13.5	11.4	87	9.5			
7	1021.8	13.6	12.4	10.9	89	5			
8	1020.8	22.6	16.5	12.9	73	0			
9	1021.6	24.2	19.3	15.2	71	0			
10	1019.8	28.3#	21.7	17.4#	72	0			
11	1016.2	28.8	22.5	17.6	78	0			
12	1013.8	28.3	23.8	21.4	81	0			
13	1013.1	29	24.3	20.5	85	0			
14	1013.6	26.7	22.7	20.8	90	0			
15	1014.1	28.9	22.2	18.7	88	20.5			
16	1019.6	22.4	18.1	15.8	59	0			
17	1021.2	18.3	16.2	14.9	52	0			
18	1022.6	21.1	16.4	12.9	61	0			
19	1024.3	25.2	17.3	11.3	62	0			
20	1023.8	26.4#	18.4	13.4#	68	0			
21	1022.5	28.5	19.1	13.4	69	0			
22	1020.3	27	20.2	13.9	66	0			
23	1017.3	27.9#	20.8	14.0#	66	0			
24	1013.1	29	21.6	14.8	64	0			
25	1009.1	30.8	23	16.2	67	0			
26	1007.5	28.5	23.8	19.4	84	0			
27	1006.8	29.7	25	20.9	84	0			
28	1010.3	29	25.2	18.2	88	1			
29	1018.2	18.2	15	12.7	87	1			
30	1021.4	14	12.5	11.2	87	2			
31	1020.2	12.8	11.8	11	96	1			

Note (From Hong Kong Observatory):

Source: Hong Kong Observatory

^{1. #} Data incomplete

^{2.} Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

April 2025 Weather

Station: Hong Kong Observatory

	Maan Dragging	Air Temperature					Mean Relative	Total Rainfall
Date	Mean Pressure (hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	Humidity (%)	(mm)		
	April 2025							
1	1018.3	20.3	16.1	12.9	67	0		
2	1019.1	23.4	18.6	15	63	0		
3	1018.6	25.5	20.6	16.9	57	0		
4	1016.2	21	19.9	18.9	72	Trace		
5	1015.3	19.8	19.3	18.7	90	7.3		
6	1015.9	23.4	20.5	18.8	74	Trace		
7	1016.9	26.6	22.1	19.5	64	0		
8	1016.2	26.7	23.2	20.8	72	0		
9	1012.5	27.2	24.1	22.2	77	0		
10	1009.2	27.8	24.6	22.7	80	0		
11	1008.8	27.6	25	23	85	Trace		
12	1009.3	27.1	24.6	20.4	81	6.9		
13	1015	24.5	21.8	20.3	32	Trace		
14	1012.9	26.2	22.6	19.8	49	0		
15	1012.5	33	25.8	20.3	48	0		
16	1012.2	27.5	24	21.9	73	0		
17	1010.1	28.7	24.5	22.4	78	0		
18	1009.6	26.5	24.9	23.5	90	3.5		
19	1009.7	28	26.3	25	86	0.1		
20	1011.1	30.6	27.1	25.8	79	0		
21	1012	29.1	26.9	25.6	79	0		
22	1010.5	29.1	27.3	25.8	78	0		
23	1009.3	30.8	27.8	26.4	77	0		
24	1009.3	30.1	27.5	26.1	78	0.5		
25	1011.5	26.5	25.2	23.5	88	18.9		
26	1014.6	23.9	22.3	21.3	85	Trace		
27	1013.4	23.2	22.2	21.2	92	0.8		
28	1011.7	29.3	25.3	22.6	85	19.1		
29	1013.5	28.3	25.4	23.5	64	0		
30	1013.3	29.2	25.2	23.1	75	0		

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

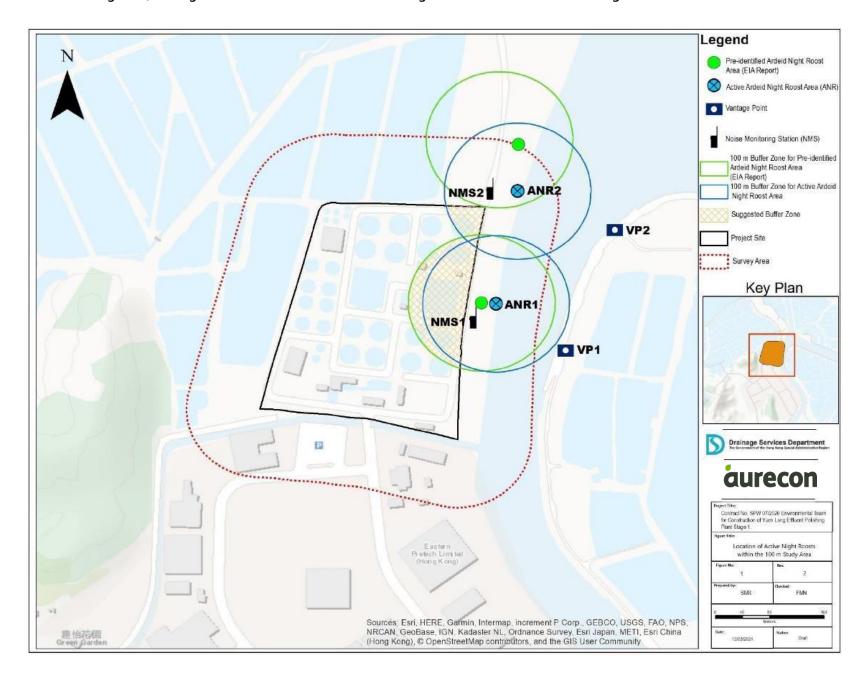
Parameters	Date Observations and Recommendations		Follow-up	
Air Quality	16 April 2025	Observation 1: Insufficient watering for the haul road.	Watering was increased	
Noise		NA		
Water Quality		NA		
Chemical and Construction Waste Management	10 April 2025	Reminder 1: The Contractor was reminded to remove the construction waste from the Site timely	Removal frequency was increased.	
Land Contamination	NA			
Ecological Impact		NA		
Landscape and Visual Impact		NA		
Permit / Licenses 2 April 2025		Observation 1: The size of NRMM label for the sheet piling machine at SDB is incorrect.	New NRMM label was provided	
Others 30 April 2025		Reminder 1: The Contractor was remaindered to remove the stagnant water Main Entrance of the Site.	The stagnant water was removed.	

Appendix N Outstanding Issues and Deficiencies

Summary of Outstanding Issues and Deficiencies in the Reporting Month

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

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



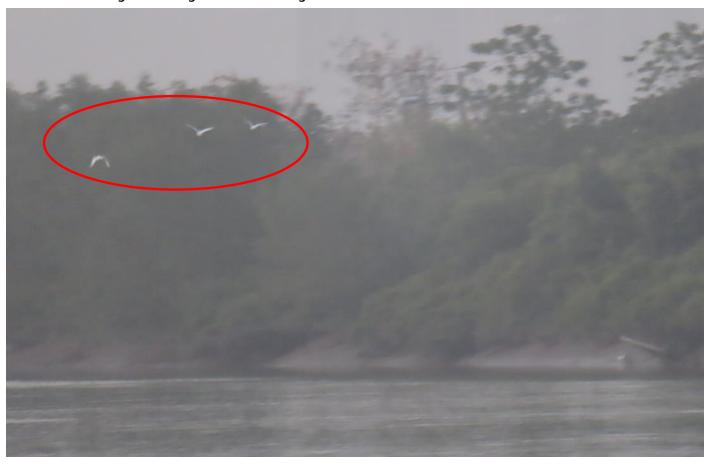
O.2 Survey Photos

O.2.1 Pre-roosting Aggregate



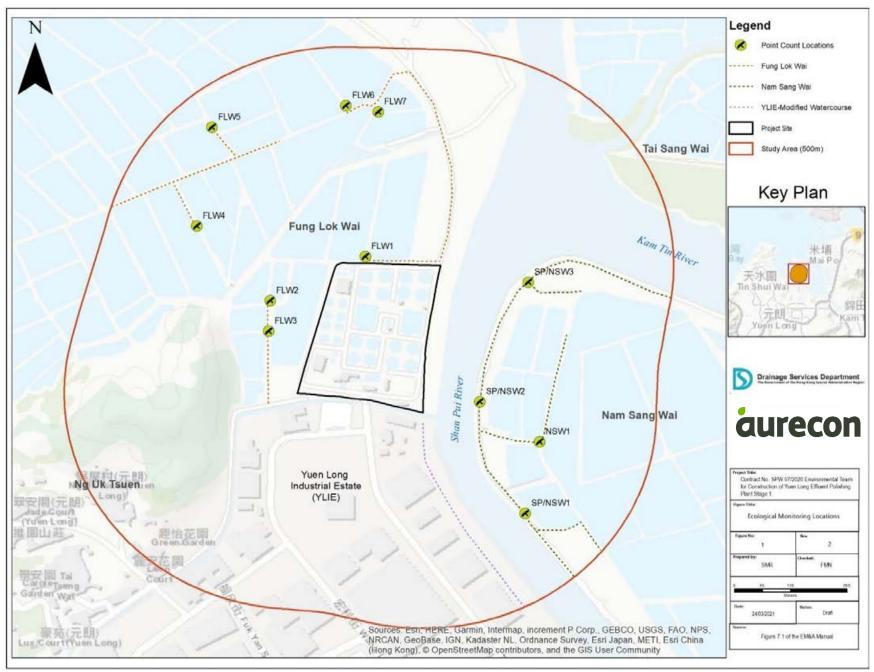
Appendix O.2.1a: Pre-roost aggregate of ardeids in the mudflat northeast side of the Project boundary (ANR2) observed on 14 April 2025 at around 18:22.

O.2.2 Active Night Roosting Site and Roosting Substrates



Appendix O.2.2a: Active night roost in the mudflat northeast side of the Project boundary (ANR2) observed on 14 April 2025 at around 18:54.

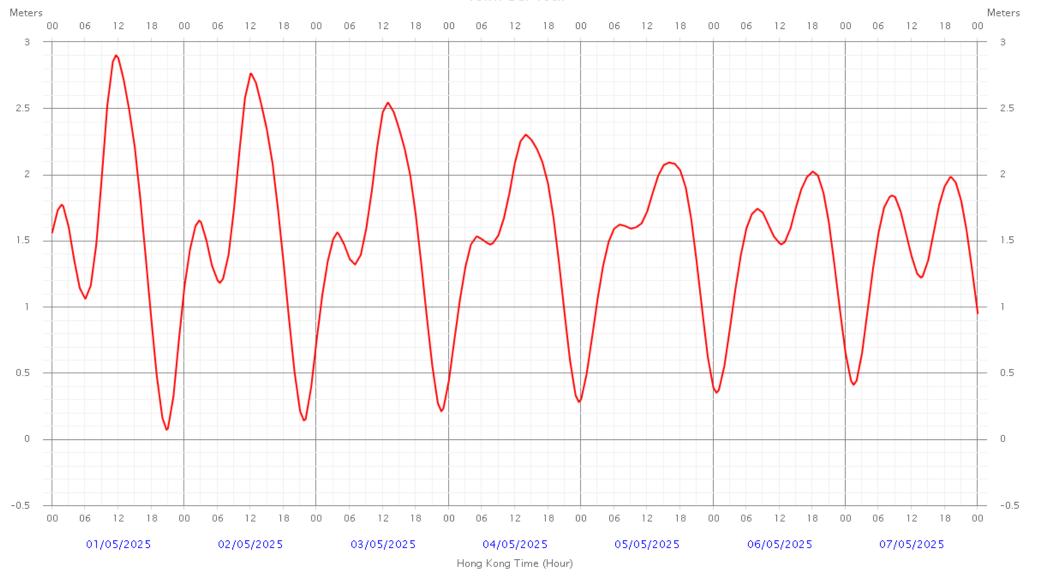
Appendix P
Ecological Bird Monitoring Area with Locations of Point
Count Sites and Transect Route

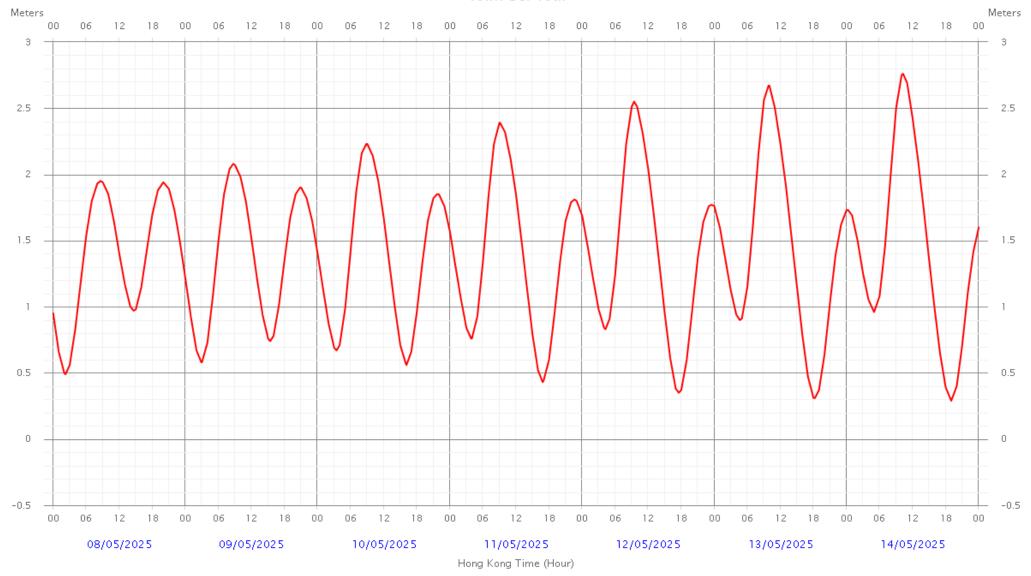


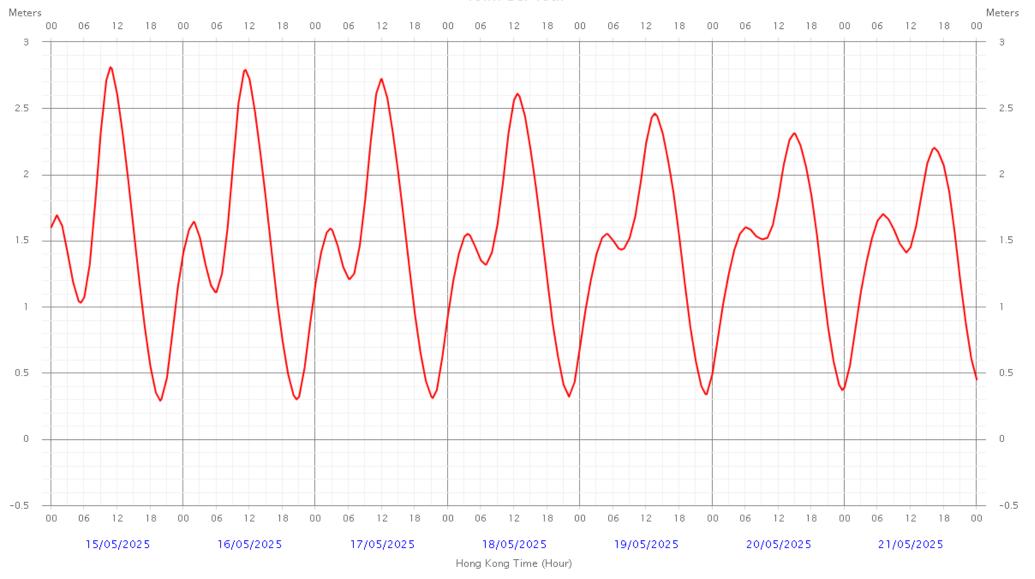
Appendix P: Ecological bird monitoring area with the locations of point count sites and transect routes

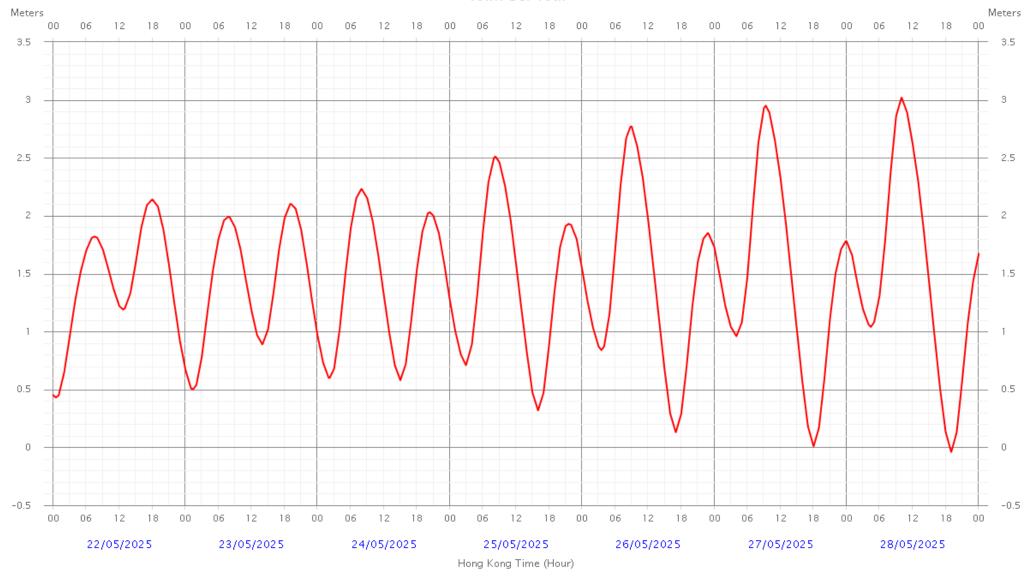
Appendix Q

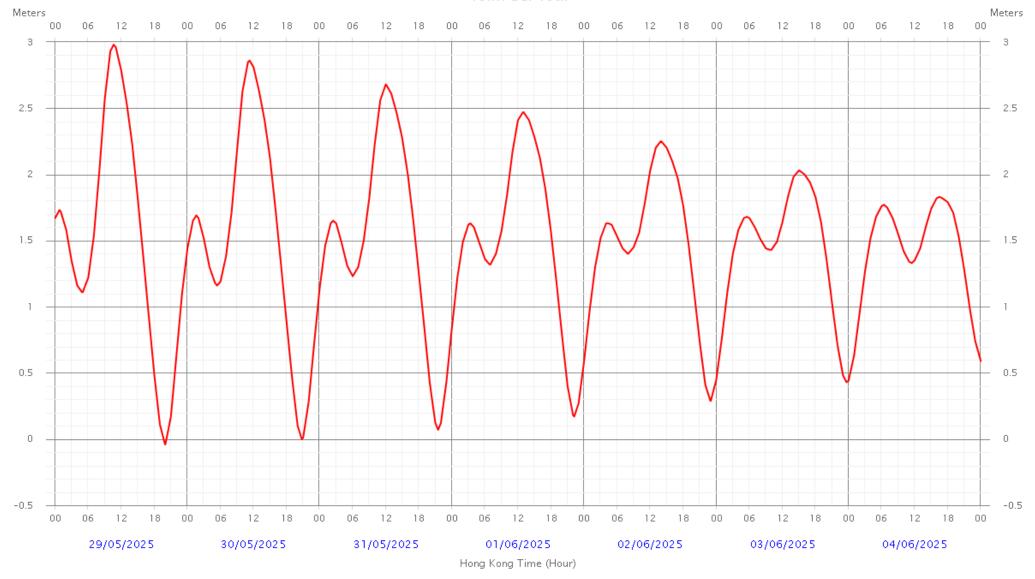
Tides Predicted by the Hong Kong Observatory for the tidal station at Tsim Bei Tsui

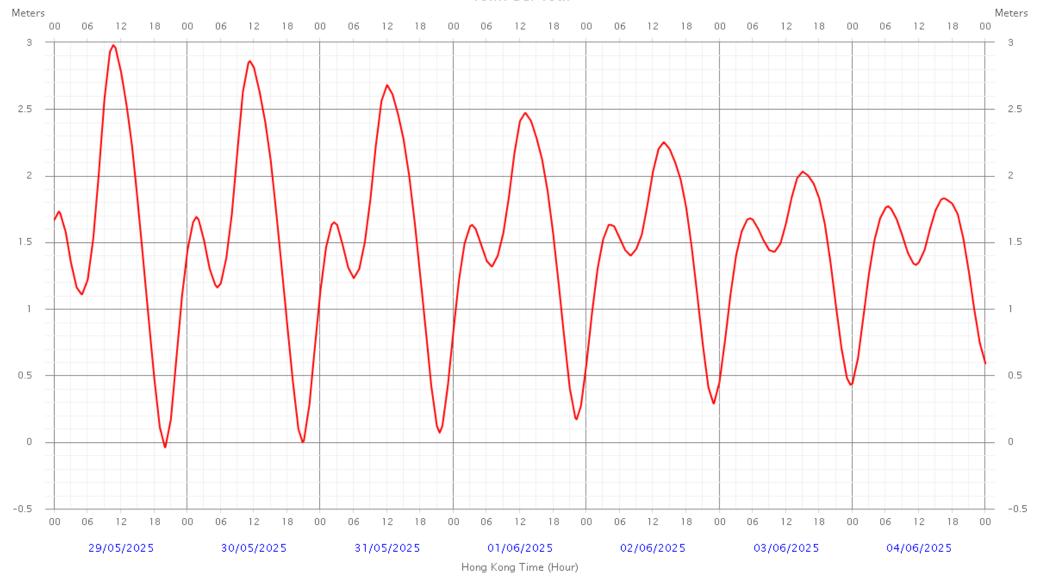












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