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

Monthly EM&A Report (May 2024) Drainage Services Department

2024-06-13



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Attn: Mr. Simon H.M. YEUNG - CRE(C)

Your Reference

Contract No. SPW 03/2023

Our Reference AFK/EC/TC/BW/bw/ T601100237/02/02/L059 Independent Environmental Checker for Construction of Yuen Long Effluent Polishing Plant Stage 1 (2023-2024)

D237/02/02/L059 Environmental Permit No. EP-565/2019

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15 June 2024 By Hand and By Email

Dear Sir,

I refer to the captioned Monthly EM&A Report for May 2024 (Revision 1) which was received via e-mail and certified by the Environmental Team Leader on 14 June 2024 (ref.: PL-202406017).

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.

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

Brandon WONG Independent Environmental Checker T +852 2828 5875 Brandon.Wong@mottmac.com

c.c. DSD

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Ref: PL-202406017

14 June 2024

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 EP Condition 3.4 – Monthly EM&A Report for May 2024

Pursuant to Clause 3.4 of Environmental Permit No. EP-565/2019 for the captioned project, we are pleased to submit the certified Monthly EM&A Report for May 2024 (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>) Paul Y. - CREC Joint Venture – Mr. Gabriel Wong (<u>gabriel.wong@crec.com.hk</u>) By Email

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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 38th Monthly EM&A Report for the construction phase which summaries findings of the EM&A programme during the reporting period from 1 May 2024 to 31 May 2024. As informed by the Contractor, major activities in the reporting month were:

- Piling at SDB
- ABWF work, E&M works and fixing GRC panel at CLP Substation
- ABWF and E&M works at PST
- ABWF, E&M works and RC structure at IW
- Erection temp. loading platform at AGS
- ELS work at AGS
- Erection temp. loading platform at TTS
- ELS work at TTS
- ELS work at STB
- ELS work at Sludge Digester no. 1-3
- E&M work at Biogas Holder no. 1
- Pipeworks for interim scheme
- 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" and "SAS Thickener House-2" were submitted to EPD respectively on 1st November 2021, 23rd November 2021, 29th April 2022, 6th July 2022 and 19th June 2023. No contaminated soil and ground water was found within the Main Storeroom & Workshop, Mechanical Workshop, Waste Storage Area, SAS Thickener House-1 and SAS Thickener House-2, 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:

- Piling at SDB
- Demolition at existing PST
- ABWF work, E&M works and fixing GRC panel at CLP Substation
- ABWF and E&M works at PST
- ABWF, E&M work and RC structure at IW
- ELS work at AGS
- ELS work at TTS
- RC Structure at TTS
- ELS work at STB
- RC Structure at STB
- ELS work at Sludge Digester no. 1-3
- E&M work at Biogas Holder no. 1
- ELS works and pipeworks at emergency bypass chamber

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.
- 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 37th Monthly EM&A report to document the findings of site inspection activities and EM&A programme for this project from 1 April 2024 to 30 April 2024 (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:
 - Piling at SDB
 - ABWF work, E&M works and fixing GRC panel at CLP Substation
 - ABWF and E&M works at PST
 - ABWF, E&M works and RC structure at IW
 - Erection temp. loading platform at AGS
 - ELS work at AGS
 - Erection temp. loading platform at TTS
 - ELS work at TTS
 - ELS work at STB
 - ELS work at Sludge Digester no. 1-3
 - E&M work at Biogas Holder no. 1
 - Pipeworks for interim scheme
- 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**.

Permit/ Notification/ License	Reference No	Valid From	Valid Till
Environmental Permit	EP-565/2019	26-Apr-2019	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-RN0127-24	6-Feb-2024	5-May-2024
Construction Noise Permit	GW-RN0355-24	4-Apr-2024	1-Jun-2024
Construction Noise Permit	GW-RN0404-24	17-Apr-2024	16-Jul-2024
Construction Noise Permit	GW-RN0491-24	6-May-2024	5-Sep-2024
Construction Noise Permit	PP-RN012-24	1-Apr-2024	30-Jun-2024
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 (Type 1 – Open Sea Disposal)	EP/MD/24-075	1-Mar-2024	31-Aug-2024
Marine Dumping Permit (Type 1 – Open Sea Disposal (Dedicated Site) and Type 2 – Confined	EP/MD/24-090	22-Apr-2024	21-Jul-2024
Disposal of Special waste at Landfills Admission Ticket (Pond Sediment)	Admission Ticket Number: 17810	1-Apr-2024	30-Jun-2024
Revised Sediment Quality Report (SQR)	(19) in EP60/G1/12- 583V	4-Apr-2024	3-Apr-2025

 Table 2
 Environmental Licenses, Notification and Permits Summary

2 AIR QUALITY

2.1 Monitoring Requirement

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

2.2 Monitoring Equipment

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

Table 3 Air Quality Monitoring Equipment

Item	Location	Brand	Model	Equipment	Serial No.	
1	AM1			SIBATA LD-5R Digital Dust	882106,	
2	AM2	Sibata	Model LD-5R	Indicator	882107	

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	61	51-65	291	500		
AM2	39	32-65	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**.

Monitoring Station	EIA ID	Predicted Maximum Hourly Average TSP Concentration (μg/ m³)	Maximum 1-hr TSP Monitoring Results in May 2024 (μg/ m³)		
Content					
AM1	ASR A09	205 454	65		
AM2	ASR A11	205-451	65		

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

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**.

Item	Brand	Model	Equipment	Serial No.
1	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-09696-E0
2	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-13548-E0
3	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-13661-E0
4	RION	NC-75	RION NC-75 Acoustic Calibrator	35124527
5	RION	NC-75	RION NC-75 Acoustic Calibrator	35124529
6	SVANTEK	SV33B	SVANTEK SV33B Acoustic Calibrator	83042

 Table 7
 Construction Noise Monitoring Equipment

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**.

Time Period	Noise Monitoring Stations	Leq (30min) dB(A) (Range)	Action Level	Limit Level dB(A)
0700-1900 hrs	CM1	60.5 - 62.2	When one	75
on normal weekdays	CM2	59.7 – 63.4	documented	75
	CM3	62.8 - 64.8	complaint is received	75

Table 10 Summary of Construction Noise Monitoring Results

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.

Monitoring Station	EIA ID	Maximum Predicted Mitigated Construction Noise Level L _{eq} (30min) dB(A)	Maximum Construction Noise Level in May 2024 L _{eq} (30min) dB(A)
CM1	NSR1	72	62.2
CM2	NSR2	74	63.4
CM3	NSR3	75	64.8

 Table 11 Comparison of Noise monitoring data with EIA predictions

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**.

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, 22C106561
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

Table 12 Water Quality Monitoring and Sampling Equipment

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) <u>Laboratory Analysis</u> 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**.

Sampling	Exceedance Level	DO		Turbidity		Suspended Solids		Total	
Location	Levei	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
Ma	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
IVIZ	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	()

Table 15 Summary of Water Quality Exceedance

- 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 Licence was approved by EPD on 11 December 2023 with immediate effect).

5 ECOLOGY MONITORING

5.1 Ardeid Night Roost Monitoring

5.1.1 Monitoring Requirement

With reference to the Pre-construction Ardeid Night Roost survey (May 2017) 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 23 May 2024.

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 (F	or 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 23 May 2024 and started around 17:59 (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* (3), Little Egret *Egretta garzetta* (11) and Great Egret *Ardea alba* (6) were observed in pre-roost aggregate (PRA) around 18:10 at the mudflat east side ANR1 of the Project boundary while individuals of Chinese Pond Heron *Ardeola bacchus* (2), Little Egret *Egretta garzetta* (1) and Great Egret *Ardea alba* (1) were concurrently noted at the mudflat northeast side ANR2 of the Project boundary (Table 17).

For the final night roost at around 19:07, individuals of Chinese Pond Heron Ardeola bacchus (4), Little Egret Egretta garzetta (1) and Great Egret Ardea alba (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) and Great Egret Ardea alba (1) 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: 23 May 2024			Sunset Time: 18:59 Tidal Condition: Low Tide		
	Pre-roost Period			Final roost Period	
Time of Return:	Chinese Pond Heron Ardeola bacchus, Great Egret Ardea alba and Little Egret Egretta garzetta (18:10)		Time of Return:	Chinese Pond Heron <i>Ardeola bacchus</i> , Great Egret <i>A alba</i> and Little Egret <i>Egretta garzetta</i> (19:07)	
Devementere	Location		– /	Location	
Parameters	ANR1	ANR2	Parameters	ANR1	ANR2
Pre-roost Aggregation (Y/N):	Y	Y	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	3	2	Chinese Pond Heron Ardeola bacchus	4	2
Great Egret Ardea alba	6	1	Great Egret Ardea alba	1	1
Little Egret Egretta garzetta	11	1	Little Egret Egretta garzetta	1	-
	ANR1	Ν			
Breeding Activity (Y/N):	ANR2	Ν			

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 23 May 2024 in concurrence with the construction phase monthly monitoring of the pre-identified active night roosts. Noise monitoring started at 19:07 and lasted for 30 minutes, until 19:37.

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	19:07	60.2		72.2 dB(A) ²
construction phase monthly monitoring of the active night roosts	NMS2	19:07	59.2	65.5 dB(A) ¹	

Notes:

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

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

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

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

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

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

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

5.1.5 Summary

5.1.5.1 Status and Location of Any Active Ardeid Night Roost

Two active ardeid night roost areas (ANR1 and ANR2) were observed within the Survey Area during the May 2024 monitoring period. These roosts were located at the mangrove strips in the east and northeast portions of the Project boundary. These were used by individuals of Chinese Pond Heron *Ardeola bacchus*, Great Egret *Ardea alba* and Little Egret *Egretta garzetta*.

5.1.5.2 Noise Monitoring Results

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

5.2 Ecological Monitoring of Birds

5.2.1 Monitoring Requirement

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



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

5.2.2 Monitoring Methodology

5.2.2.1 Monitoring Area

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

5.2.2.2 Monitoring Activity

Avifauna surveys on the different wetland habitats using the transect count and point count methods were conducted last 13 May 2024 (daytime) which started at around 07:15. 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 ($\alpha = 0.05$). Moreover, to check the presence of variation in bird species diversity, the two-sided Hutcheson t-test was also used. The two-sided Hutcheson t-test was developed as a method to compare the diversity of two community samples using the Shannon diversity index (Hutcheson 1970). Shannon diversity index will be computed using the formula, $H' = \sum_{i=1}^{s} p_i ln p_i$ where, H' = Shannon Diversity Index; Pi = proportion of the population of species; i = number of species in sample; ln = natural logarithm. Shannon diversity index is used as it accounts the proportion (relative abundance) of each species; thus, it gives a better description of diversity than a plain number of species (species richness).

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

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

5.2.3 Monitoring Results

Results of the avifauna survey on the different habitats within the monitoring area using the transect count and point count methods as conducted last 13 May 2024 (daytime) which started at around 07:15 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 587 avifauna individuals were recorded in the monitoring area during the May 2024 monitoring period, of which 313 individuals were recorded from the point count method and 274 individuals from the transect walk method. Relative to the May 2017 baseline data (point count method = 190; and transect walk = 2), increases were noted for both the point count and transect walk methods.

Details of these findings are summarized in Table 20.

Abundance of all A	vifauna Species			
EIA Report ID	EM&A Manual ID	May-17	May-24	Remarks
Point Count Metho	d			
P1	FLW1	3	27	+
P2	FLW2	4	14	+
P3	FLW3	6	8	+
P4	FLW4	18	10	-
P5	FLW5	13	32	+
P6	FLW6	44	48	+
P7	FLW7	22	28	+
P9	SP/NSW3	26	45	+
P10	SP/NSW2	9	29	+
P11	NSW1	36	42	+
P12	SP/NSW1	9	30	+
Т	otal	190	313	+
M	ean	17.27	28.45	+
Transect Walk Meth	nod			
Fung Lok Wai	FLW	1	158	+
Nam Sang Wai	NSW	1	51	+
YLIE-CW	YLIE-CW	0	65	+
Total		2	274	+
Mean		0.67	91.33	+

Table 20 Abundance of all Avifauna Species

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 587 avifauna individuals recorded in the monitoring area during the May 2024 monitoring period, 110 individuals (point count method = 87 individuals; transect walk method = 23 individuals) were of conservation importance. With reference to May 2017 data, (point count method = 71; and transect walk = 2), an increase was noted for both point count and transect walk method. Details of these findings are summarized in **Table 21**.

Abundance of Species of Conservation Importance					
EIA Report ID	EM&A Manual ID	May-17	May-24	Remarks	
Point Count Method	k				
P1	FLW1	2	18	+	
P2	FLW2	0	0	=	
P3	FLW3	0	4	+	
P4	FLW4	9	0	-	
P5	FLW5	5	3	-	
P6	FLW6	21	15	-	
P7	FLW7	0	17	+	
P9	SP/NSW3	22	14	-	
P10	SP/NSW2	3	7	+	
P11	NSW1	4	5	+	
P12	SP/NSW1	5	4	-	
Тс	otal	71	87	+	
M	ean	6.45	7.91	+	
Transect Walk Method					
Fung Lok Wai	FLW	1	5	+	
Nam Sang Wai	NSW	1	4	+	
YLIE-CW	YLIE-CW	0	14	+	
Т	otal	2	23	+	
Mean		0.67	7.67	+	

Table 21 Abundance of Species of Conservation Importance

Notes:

+ increased abundance;

- decreased abundance

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

5.2.3.2 Diversity (Species Richness¹ and Shannon Diversity Index²)

5.2.3.2.1 All Avifauna Species

A total of 40 avifauna species (species richness) were recorded during the May 2024 monitoring period, of which, 35 species were recorded by the point count method while 30 species were noted by the transect walk method. Relative to the baseline data (point count method = 31 species; transect walk method = 1 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 = 0.13; t-crit = 1.97; p-value = 8.99E-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 = 29.6; t-crit = 1.97; p-value = 1.99E-87; 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

Shannon Diversity Index Value of all Avifauna Species				
EIA Report ID	EM&A Manual ID	May-17	May-24	Remarks
Point Count Method	k			
P1	FLW1	1.1	1.34	+
P2	FLW2	0.69	1.81	+
P3	FLW3	1.56	1.73	+
P4	FLW4	1.9	1.33	-
P5	FLW5	2.1	2.51	+
P6	FLW6	2.23	1.82	-
P7	FLW7	1.91	1.72	-
P9	SP/NSW3	1.56	2.62	+
P10	SP/NSW2	1.68	2.22	+
P11	NSW1	2.75	2.51	-
P12	SP/NSW1	1.21	2.43	+
Overall H'		3.13	3.14	+
Species	Richness	31	35	+
Transect Walk Meth	nod			
Fung Lok Wai	FLW	0	2.25	+
Nam Sang Wai	NSW	0	2.68	+
YLIE-CW	YLIE-CW	**	2.61	+
Ove	rall H'	0	2.56	+
Species Richness		1	30	+

Table 22 Shannon Diversity Index Value of all Avifauna Species

Notes:

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

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

5.2.3.2.2 Avifauna Species of Conservation Importance

Of the 40 avifauna species identified during the May 2024 monitoring period, 12 species were of conservation importance (point count method = 12 species; transect walk method = 6 species). Meanwhile, relative to the baseline values in May 2017 (point count method = 7 species; transect walk method = 1 species), an increase in the number of species with conservation importance was recorded with both the point count and transect walk method. In terms of Shannon diversity index (H'), a slight decrease was noted in point count method (t-value = 0.50; t-crit = 1.97; p-value = 0.62; $\alpha = 0.05$) while an increase in transect walk method (t-value = 8.63; t-crit = 2.07; p-value = 1.134E-08; $\alpha = 0.05$) was observed relative to the baseline reference values. Details of these findings are summarized in **Table 23**, and **Appendix F.6.3**.



Shannon Diversity Index Value of Species with Conservation Importance					
EIA Report ID	EM&A Manual ID	May-17	May-24	Remarks	
Point Count Method					
P1	FLW1	0.69	0.35	-	
P2	FLW2	**	**	=	
P3	FLW3	**	1.04	+	
P4	FLW4	0.68	**	-	
P5	FLW5	1.33	1.10	-	
P6	FLW6	1.13	0.24	-	
P7	FLW7	**	0.61	+	
P9	SP/NSW3	1.08	1.24	+	
P10	SP/NSW2	1.1	1.55	+	
P11	NSW1	1.39	0.95	-	
P12	SP/NSW1	0.5	1.04	+	
Over	all H'	1.72	1.65	-	
Species	Richness	7	12	+	
Transect Walk Method					
Fung Lok Wai	FLW	0	1.05	+	
Nam Sang Wai	NSW	0	0.56	+	
YLIE-CW	YLIE-CW	**	1.40	+	
Over	Overall H'		1.50	+	
Species	Species Richness		6	+	

Table 23 Shannon Diversity Index Value of Species with Conservation Importance

Notes:

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

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

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

5.2.3.3 Wetland Habitat Utilization

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

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

5.2.3.3.1 All Avifauna Species

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



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	М
Modified Watercourse	Shan Pui River adjacent to Project site	L	VH
	Upper course of Shan Pui River along YLIE	VL – L	M-H
	Active Ponds adjacent to Project site in Fung Lok Wai	VL	М
Ponds	Active Ponds North to Nullah 2 in Fung Lok Wai	L-M	Н
Ponds	Inactive Ponds in Fung Lok Wai	L	Н
	Active and Inactive Ponds in Nam Sang Wai	VL	М
Mangrove	Mangrove within Assessment Area	-	-
Reedbed	Reedbed in Nam Sang Wai	-	-

Notes:

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)

Species richness (total number of species) amongst wetland habitats within the assessment area: VL = Very Low (≤5 species); L = Low (~10 species); M = Moderate (~15 species); H = High (~20 species), VH = Very High (>25 species)

-: no recorded individuals

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

5.2.3.3.2 Avifauna Species of Conservation Importance

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

Wetland Habitats	Area Description	Abundance ¹	Species Richness ²
	Confluence of Shan Pui River and Kam Tin River	VL	VL
Modified Watercourse	Shan Pui River adjacent to Project site	VL	VL - L
	Upper course of Shan Pui River along YLIE	VL	VL - L
	Active Ponds adjacent to Project site in Fung Lok Wai	VL	VL - L
Ponds	Active Ponds North to Nullah 2 in Fung Lok Wai	VL	VL - L
Folius	Inactive Ponds in Fung Lok Wai	VL	VL
	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)

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 13 May 2024(daytime) from each of the point count locations during the ecological bird monitoring are shown in **Table 26**.

Frequency and Period	Location	Day time (13/05/2024)	
Frequency and Feriod	Location	Start Time	LAeq (30 min) dB(A)
	FLW1/P1	09:49	53.3
	FLW2/P2	09:58	52.6
	FLW3/P3	10:26	54.5
	FLW4/ P4	08:16	52.3
Monthly in concurrence	FLW5/ P5	08:11	53.3
with the ecological monitoring of birds	FLW6/ P6	08:52	56.2
	FLW7/ P7	08:59	52.3
	SP/NSW3/ P9	12:18	58.2
	SP/NSW2/ P10	12:22	57.5
	NSW1/ P11	11:44	56.2
	SP/NSW1/P12	11:49	55.3

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, four weekly landscape and visual site audits were carried out on 8, 14, 22 and 29 May 2024.

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.

8 SITE INSPECTION AND AUDIT

8.1 Site Inspection

- 8.1.1 Site audits were carried out by ET on weekly basis at least once per week to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.
- 8.1.2 In the reporting month, four site inspections were carried out on 8, 14, 22 and 29 May 2024.
- 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 on 13 May 2024 (daytime).
- 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.

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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.

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

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.
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.

EP Condition (EP-565/2019)	Submission Title	Submission Status
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 2.15	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 April 2024)	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 April 2024	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

- Piling at SDB
- Demolition at existing PST
- ABWF work, E&M works and fixing GRC panel at CLP Substation
- ABWF and E&M works at PST
- ABWF, E&M work and RC structure at IW
- ELS work at AGS
- ELS work at TTS
- RC Structure at TTS
- ELS work at STB
- RC Structure at STB
- ELS work at Sludge Digester no. 1-3
- E&M work at Biogas Holder no. 1
- ELS works and pipeworks at emergency bypass chamber

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**.

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12 CONCLUSION AND RECOMMENDATION

12.1 Conclusions

- 12.1.1 1-hour TSP impact monitoring was carried out in the reporting month. No Action / Limit Level exceedance at AM1 and AM2 was recorded during the period.
- 12.1.2 Construction noise monitoring was carried out in the reporting month. No Action / Limit Level exceedance at CM1, CM2 and CM3 was recorded during the period.
- 12.1.3 No Action and Limit Level exceedance was recorded for water quality at M1, M2 and M3 in the reporting month.
- 12.1.4 Ardeid night roost monitoring was carried out in the reporting month. Two active ardeid night roost areas (ANR1 and ANR2) were observed within the Survey Area. These roosts were located at the mangrove strips in the east and northeast portions of the Project boundary. No Action / Limit Level exceedance at NMS1 and NMS2 was recorded during the period.
- 12.1.5 Ecological bird monitoring was carried out in the reporting month. No Action / Limit exceedance for the ecological monitoring of birds in the reporting month.
- 12.1.6 Four environmental site inspections were carried out 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 Four 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

• The contractor was remaindered to increase 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 clear the construction waste regularly.

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.

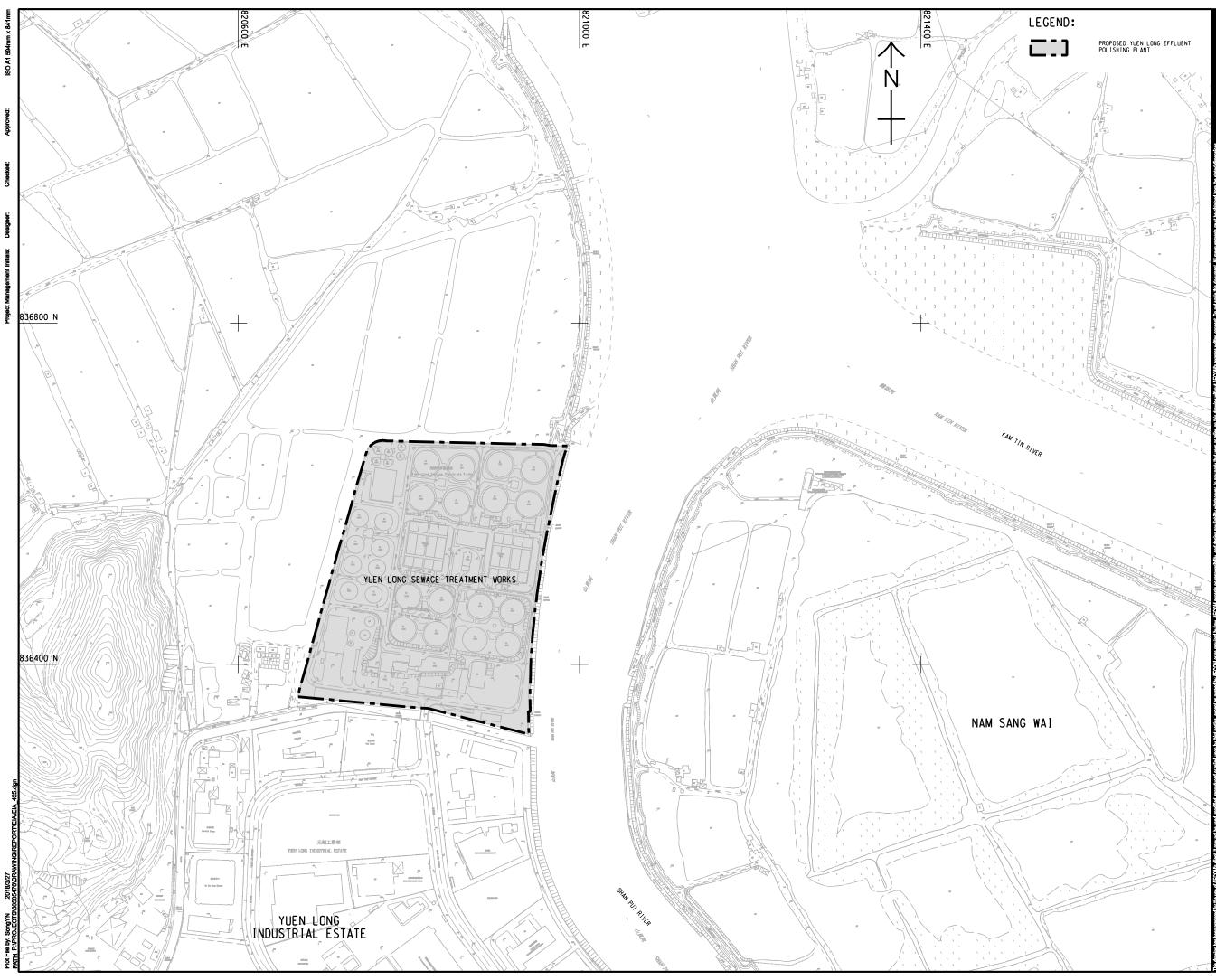
Hazard to Life

• No specific observation was identified in the reporting month.

Permit/ Licenses

• The contractor was reminded to display NRMM label on the PME.

Figure 1 Location of Proposed Yuen Long Effluent Polishing Plant



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PROJECT

YUEN LONG EFFLUENT POLISHING PLANT -INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT #±



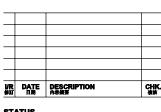
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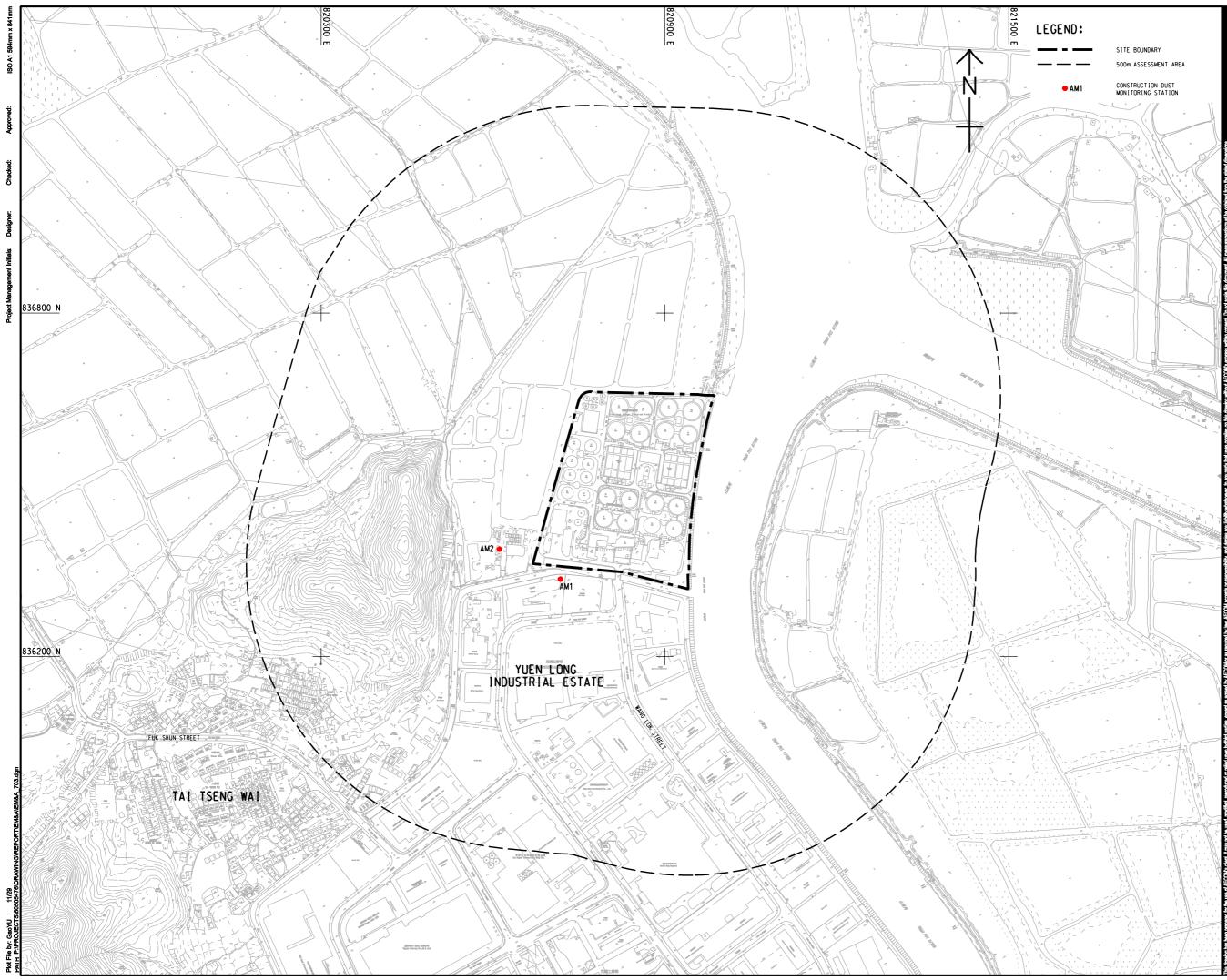
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Figure 2 Location of Construction Dust Monitoring Stations





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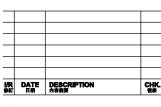
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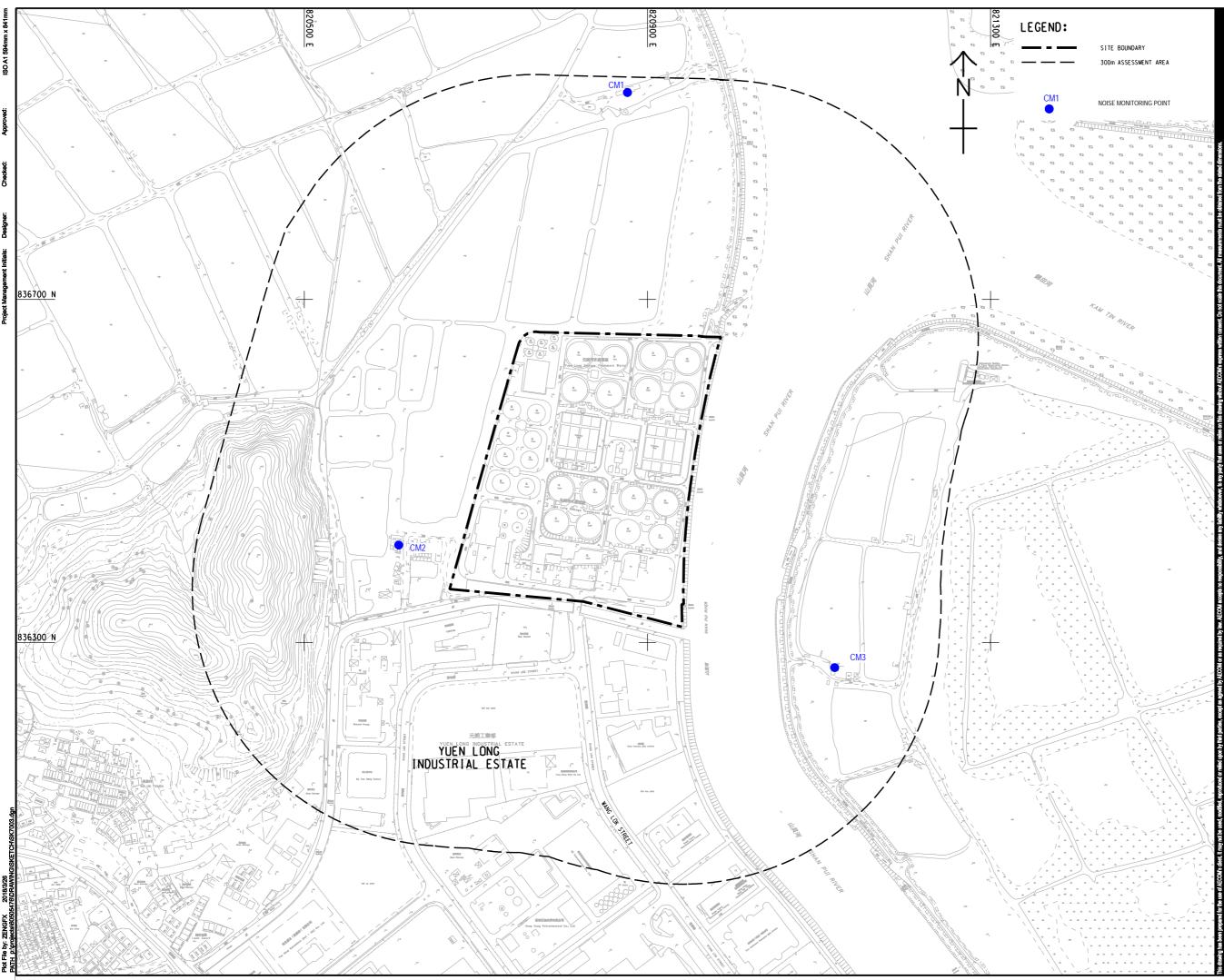
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Figure 3 Noise Monitoring Locations

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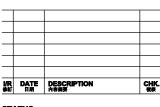
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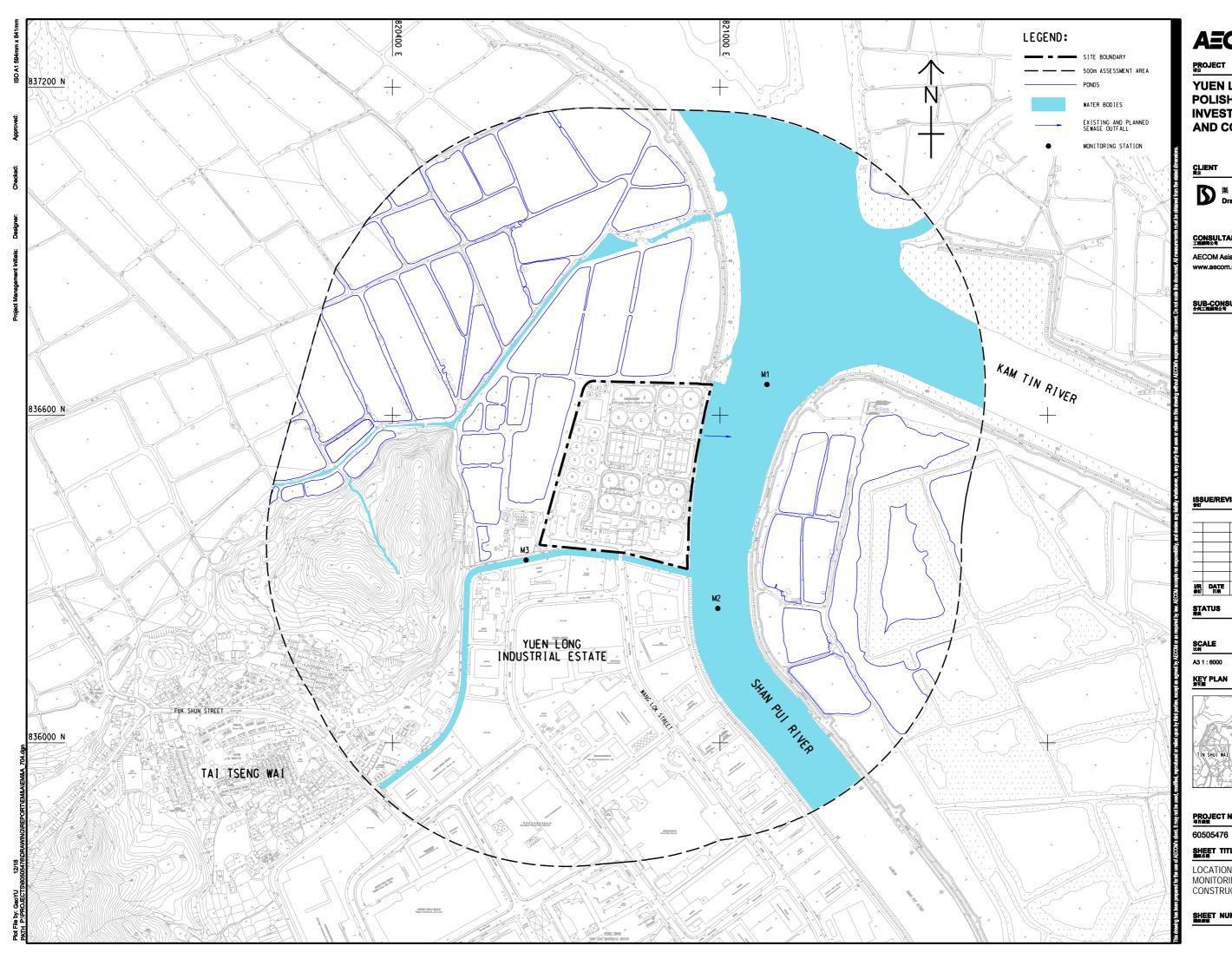
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Figure 4 Water Quality Monitoring Locations

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PROJECT

YUEN LONG EFFLUENT POLISHING PLANT -INVESTIGATION, DESIGN AND CONSTRUCTION

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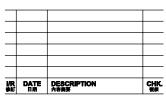
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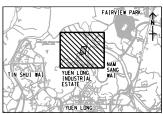
STATUS

SCALE 比例

A31:6000

METRES

KEY PLAN A31:180000



PROJECT NO.

CONTRACT NO. CE 3/2015 (DS)

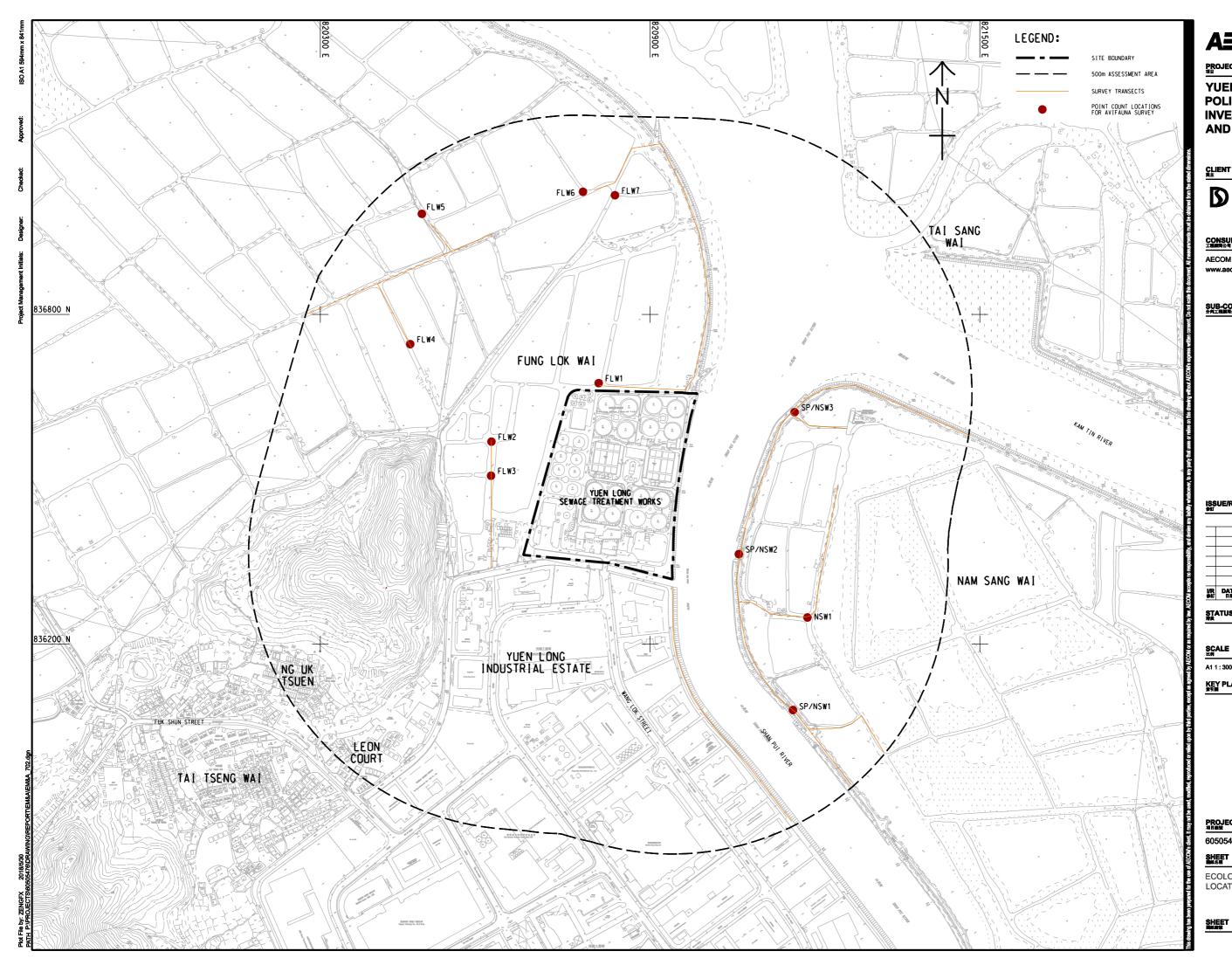
SHEET TITLE

LOCATIONS OF WATER QUALITY MONITORING STATIONS FOR CONSTRUCTION PHASE

SHEET NUMBER

Figure 5 Ecology Monitoring Locations

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PROJECT

YUEN LONG EFFLUENT POLISHING PLANT -INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT

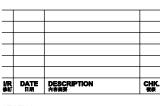


CONSULTANT 工程期间公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分式准确间公司

ISSUE/REVISION



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PROJECT NO. CONTRACT NO. CE 3/2015 (DS) 60505476

SHEET TITLE

ECOLOGICAL MONITORING

SHEET NUMBER

Appendix A Construction Programme

YL Effluent		Dur				41 42 43	26 02 09 16 23 30
	Polishing Plant - Main Works Stage 1 - Detailed Works Programme	DPv3	5 240446			03 10 17 24 31 07 14 21 28 05 12 19	26 02 09 16 23 30
Contract Data					The state		
Access Dates	WorkArea WA2 (sd) (newsite possession) validity for 12 months and subjectio renewal	757	05-Mar-21 A	22-Feb-25*	0		
ADP3	Portion 3 (sd+1218d)	0	01-Apr-24*	LEIOPES	-21	Porton 3 (sd+1218d)	
Contract Key D CKD10	lates KD10 - Completion of Civil & Structural works of roof floor of sludge thickening bidg (Rev.KD10=27Feb24)	0	P.L. MAR DA	31-Mar-24*	-33	KD10-Completon of Civil & Structural works of roof floor of sludge thickening bidg (RevKD10=27/	eb24)
CKD3	KD3 - Early Comissioning of Inlet Works100,000m3/d at ADWF;PST>54,000m3/d at ADWF;Civil,struct,E&M& BS (R,KI	0		07-May-24*	0	KD3-Early Comissioning of Ink	Works100,000m3kl atADWF/PST>54,000m3kl atADWF/Civitstruct,E
Environmental EBS-2175	Constraints Egrets Breeding Season 2024	184	01-Mar-24 A	31-Aug-24	0		
	In Preparation Works		United and	STRUGT	TY THE		
Subletting	and a second life is defendent franzis and the side of the second second second second second second second se		The Salar				
SUB-300 SUB-340	Subleting for RC works for MBR and TTB Subleting for Drainage, Sewage & waterworks	60 90	06-Jun-24 06-Jun-24	04-Aug-24 03-Sep-24	-196 -196		
Design Submis			12.102.2	the state of the			
Temporary Wor Studge Digester	ks Design 1-3 & Utilities Corridor						
TWD-370	ELS-ObtainApproval	7	21-Dec-22 A	29-Apr-24	-252	ELS-Obtain Approval	
TWD-260	ng and Underpass ELS - Prepare & Submission for PMs review	45	30-Apr-24	13-Jun-24	6		ELS-Prepare & Submission for PM
TWD-270	ELS-ReviewbyPMs & ICE review (28 d + 7d)	35	14-Jun-24	18-Jul-24	6		
Administration B TWD-300	Open CutDesign - Prepare & Submission for PMs review	45	14-Jun-24	28-Jul-24	99		
Walkway Across TWD-600	Tai Tseng Wai Nullah Wakway - Prepare & Submission for PM's review	45	14-Jun-24	28-Jul-24	584		
and the second se	via kwa y - He pure a Submission for Historie w kisting inspection Chamber & Inlet Effluent Pipes from NSWSPS	43	14-5011-24	20-30-24	204		
TWD-700	ELS - Prepare & Submission for PMs review ELS - Review by PMs & ICE review (28 d + 7d)	45	26-Oct-22A	07-Apr-24	-243 -243	ELS - Prepare & Submission for PMs review ELS-Review by PMs	ICF mylew (28 d + 7d)
TWD-710 TWD-720	ELS-Reviewby PMs & ICE review(28 d + 7d) ELS-Resubmission for PMs & ICE review(7d prep & resub. + 7d ICE)	35 14	08-Apr-24 13-May-24	12-May-24 26-May-24	-243		ELS - Resubmission for PMs & ICE review (7d prep & resub. + 7d ICE
TWD-730	ELS - Obtain Approval sion scheme for Early commissioning of SD, BH1, H2S and STB	7	27-May-24	02-Jun-24	-243		ELS-ObtainApproval
TWD-970	Temp. pipe. for BH1 Early Comm. Prep(90d), Sub.& Review(30d) Comment& Resub(14d)& Approval(7d)	141	30-Jun-23A	30-Apr-24	-131	Temp, pipe. for BH1 Early CommPrep(90d	Sub & Review (30d) Comment & Resub (14d) & Approval (7d)
TWD-1010	Temp.pipe.for SD1-2 Early Comm.Prep(90d),Sub_&Review(30d) Comment&Resub(14d)&Approval(7d)	141	29-Dec-23 A	31-Jul-24	-131		
AP	amaneni works Design (include ATAL)	100000					
Package 3A - AIP-520	Plant Service Water E&MAP Report for Plant Service Water-Resubmission for further review	45	20-Dec-21 A	30-Apr-24	-53	E&MAP Report for Plant Service Water-Re	ubmission for further review
AIP-530	E&MAP Report or Plant Service Water-Obtain Approval	7	01-May-24	07-May-24	-53	E&MAP Report for Plant Service	
AIP-980	Security, Public Address and Communication System SPC - Obtain Approval	49	29-Feb-24 A	08-Mar-24A	-	SPC-Obtain Approval	
DDA	SPC-UdainAppoval	13	294°00-24 A	U0-WBI-24A		ero-oxamppoint	
Package 2 - T DDA-170	ertiary Treatment System	404	42 1- 244	00 4-+04	000	CidDea forTTS Faundation decisio). Demose/2741 St	b. & Review445d),Comment & Resub.(14d), GEO(28d)&Approval (7d)
DDA-170	Civil Req. for TTS (Foundation design) - Prepare(27d), Sub.& Review(45d), Comment& Resub.(14d), GEO(28d)&App Foundation for TTS - Prepare (90d), Sub. & Review(45d), Comment& Resub.(14d) & Approval (7d), GEO (28d)	121 213	13-Jun-21A 08-Oct-21A	23-Apr-24 18-May-24	-200	Foundation	or TTS - Prepare (90d), Sub. & Review (45d), Comment & Resub. (14d)
DDA-180	Civil Req. for TTS (Superstruct design) - Prepare (147d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7i	213	11-0d-21 A	23-Apr-24	-20	Civil Req. for TTS (Superstruct design) - Prepare (147d), Mechanical for TTS - Prepare (60d), Sub. & Review(45	ub. & Review(45d) Comment & Resub.(14d) & Approval (7d)
DDA-200 DDA-210	Mechanical for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub (14d) & Approval (7d) Electrical& Control for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub (14d) & Approval (7d)	213 213	31-Deo-21 A 31-Deo-21 A	24-Apr-24 24-Apr-24	64 64	Electrica & Control for TTS - Prepare (600), Sub. & Rev	
DDA-140 DDA-160	Architectural for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	126	17-Nov-22 A	24-Jul-24	-130 -253		Civil & Structural for TTS - Prepar
DDA-160 DDA-220	Civil & Structural for TTS - Prepare (120d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d) Building Services (BS) for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	177 199	17-Nov-22 A 30-Oct-23 A	15-Jun-24 16-Jul-24	-253		
Package 3 - N	lainstream Bio-Reactor System					DidDay for DP AVE Equation down Descrete	id), Sub. & Review(45d) , Comment & Resub (14d) & Approval (7d)
DDA-260 DDA-280	Civil Req. for MBS-AGS (Foundation design) - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approv P&ID for MBS (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	126 126	09-Jun-21A 08-Oct-21A	23-Apr-24 12-May-24	46 144		b.& Review(45d) ,Comment& Resub.(14d) & Approval (7d)
DDA-290	Mechanical for MBS - Prepare (60d), Sub. & Review(45d) Comment & Resub. (14d) & Approval (7d)	126	08-Oct-21 A	18-May-24	144		orMBS -Prepare (60d), Sub. & Review(45d) Comment& Resub.(14d BS -Prepare (60d), Sub. & Review.(45d) Comment& Resub.(14d) &/
DDA-300 DDA-270	Electrical& Control for MBS - Prepare (60d), Sub.& Review (45 d) Comment& Resu b. (14 d) & Approval (7 d) Civil Req. for MBS-AGS (Superstruct.design) - Prepare (60 d), Sub. & Review (45 d), Comment& Resub. (14 d) & Approv	405	08-Oct-21 A 01-Mar-22 A	12-May-24 23-Apr-24	1268		d), Sub, & Review(45d) , Comment & Resub.(14d) & Approval (7d)
DDA-240	Foundation for MBS - Prepare (97d), Sub. & Review (45d), Comment & Resub. (14d) (GEO (28d) & Approval (7d)	230	18-Mar-22A	09-Jul-24	-196		
DDA-250 DDA-1530	Civil & Structural for MBS - Prepare (60d), Sub. & Review (45d) Comment & Resub. (14d) & Approval (7d) VCAB for AGS&TTS - Piepare (30d), Sub. & Review (30d)	170 204	20-Jan-23A 16-Jun-23A	28-Jul-24 22-Jul-24	1268 46		
DDA-310	Building Services (BS) for MBS - Prepare (60d), Sub. & Review, (45d), Comment & Resub, (14d) & Approval (7d)	142	01-Apr-24	20-Aug-24	50		
DDA-390	Master Water Meter Room P&ID forMVMC -MBS (60d), Sub.& Review (45d) Comment&Resub.(14d) & Approval (7d)	64	26-Jun-23A	06-Aug-24	44		
DDA-400 DDA-410	Mechanical for MMMC - Prepare (60d), Sub, & Review(45d) ,Comment& Resub (14d) & Approval (7d) Electrical& Control for MMMC - Prepare (60d), Sub, & Review(45d), Comment& Resub (14d) & Approval (7d)	220 220	30-Oct-23 A	06-Aug-24	761 761		
	Plant Service Water (PSW)	220	30-Oct-23 A	06-Aug-24	/01		
DDA-1050 DDA-1040	Civil Requirement Drawings - Prep(60d), Sub_&Review(45d), Comment&Resub (14d) & Approval (7 d) Piping & Instrumentation Diagram (P&ID) - Prep(30d), Sub_&Review(28d), Comment&Resub (14d) & Approval (7 d)	126 220	12-Jun-21 A	16-Jun-24	-33 -56		Civil Requirement Drawings-F
DDA-1040	Electrical & Control for PSW-Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approval (7d)	143	26-Jun-23A 01-Apr-24	21-Aug-24 21-Aug-24	-56		
DDA-1070	Mechanical for PSW-Prep(60d), Sub&Review(45d), Comment&Resub (14d) & Approval (7 d) Iudge Thickening Chemical and Dosing System	143	01-Apr-24	21-Aug-24	-56		
DDA-1120	P&ID for STCDS-Prepare (60d), Sub, & Review. (45d) Comment & Resub. (14d) & Approval (7d)	335	14-Aug-21 A	27-Jun-24	189		P&DforS
DDA-430 DDA-440	Found for STCS,WasteGasBurner & Guard Hee-Prepare (60 d),Sub & Review (45d),Comment & Resub.(14d),GEO(28	96	09-Nov-21 A	29-May-24	596		Found for STCS, Waste GasBurn er & Guard Hso-Prepare (60 d)
DDA-440B	Civil & Struct for STCS, WGB & Guard Hse - Prepare (60d), Sub, & Review(45d), Comment& Resub (14d) & Approva Civil Req. for STCDS - Prepare (60d), Sub, & Review(45d), Comment& Resub (14d) & Approval (7d)	250 300	09-Nov-21 A 15-Nov-21 A	29-Jun-24 29-Apr-24	565 248	Civil Req. for STCDS - Prepare (60d), Sub. & f	eview.(45d) Comment&Resub.(14d) & Approval (7d)
DDA-1130	Mechanical for STCDS-Prepare (60d), Sub. & Review(45d), Comment& Resub (14d) & Approval (7d)	340	16-Nov-21 A	29-Jun-24	597	Electrical & Control (Art 27CD C. Danage A	Mecha
DDA-1140 DDA-1520	Electrical & Control for STCDS - Prepare (60d), Sub. & Review. (45d), Comment & Resub. (14d) & Approval (7d) Mechanical Ventla I on and Air conditional System Design for Sludge Thickening Building (STB)	315 320	30-Nov-21 A 16-Jun-22 A	01-May-24 29-Jun-24	665 227	Electrical & Controllor's ICUS-Friepare (0d), Sub.& Review (45d) ,Comment & Resub. (14d) & Approval (7d) Mecha
DDA-1510	Plumbing and Drainage System Design for Sludge Thickening Building (STB)	320	07-Jul-22A	29-Jun-24	227		Plumbi Fire Se
DDA-1500 DDA-1150	Fire Services Design for Sludge Thickening Building (STB) Building Services for STCDS-Prepare (60d), Sub. & Review(45d) Comment& Resub (14d) & Approval (7d)	320	08-Jul-22A 24-Od-22A	29-Jun-24 29-May-24	227 596		Hite Se Building Services for STCDS - Prepare (60d), Sub. & Review (4
	LP Substation and 11kV Switchgear House	-					
DDA-480 Package 9 - Ir	UPS System for CLPSub & 11kV Switchgear Hse - Prepare (102d), Sub. & Review.(45d),Comment & Resub.(14d)&Ar let Work (IW)	168	03-Jun-21A	23-Apr-24	-125	UPS System for CLPSub &11kV Switchgear Hse - Prepa	e (102d),Sub.&Review.(45d),Comment&Resub.(14d)&Approval (7d
DDA-1190	Mechanical for Inlet Work - Prepare (28d), Sub. & Review (28d), Comment & Resub. (14d) & Approval (7d)	120	09-Aug-21 A	30-Apr-24	-195	······	b. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)
DDA-1200 DDA-1210	Electrical & Control for Inlet Work-Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d) Building Services for Inlet Work-Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	120 76	30-Oct-21 A 30-Mar-22 A	30-Apr-24 30-Apr-24	-215		8d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d) d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)
Package 10 -	Primary Sedimentation Tank (PST)						
DDA-1250 DDA-1260	Electrical & Control for PST - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d) Building Services for PST - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	48 90	31-Aug-21 A 01-Oct-21 A	30-Apr-24 30-Apr-24	424 424		ub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d) b. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)
Package 11-	Control and Monitoring System				_	Parking Antronomic 1.1.1 lebate (ron) o	
DDA-580	Power Quality & Energy Management System (PQEMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) & A	130	02-0d-21 A	30-May-24	31		Power Quality & Energy Management System (PQEMS) - Pre
	Remaining Level of Ef Actual Work Remaining Work Critical Remaining Work ◆ Milestone					019/10 - YLEPP - Main Works for Stage 1 gress Report No. 41- 3MRP (Mar 24)	Project ID : DWPr36_240416 Layout : DC201910 MPR41-3MRP Page 1 of 8

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DS-Prepare (60d), Sub.& Review (45d), Comment&Resub.(14d) & Approval (7d) b&Review.(45d),Comment&Resub.(14d),GEO(28d) & Approval (7d)	
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ces Design for Sludge Thickening Building (STB)	
Comment& Resub (14d)& Approval (7d)	
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Monthly Progress Report - 3MRP Date Revision Checked ////////////////////////////////////	Approved
Monthly Progress Report - 3MRP Date Revision Checked	Approved

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DDA-550 Supervisory Control&Data Application (SCADA) System-Prep(28d), Sub& Review (28d), Commen & Resub (14d) & A		24-Apr-23A	30-May-24	31		Supervisory Control&Data Application (SCADA) System - Prep (2
DDA-1270 Gas Detection System - Prep(28d), Sub & Review(28d), Comment& Resub (14d) & Approval (7d) DDA-560 Computerised Mainatenance Mangement System (CMMS) - Prep(28d), Sub & Review(28d), Comment& Resub (14d) 4	91 275	08-May-23 A 01-Apr-24	30-May-24 31-Dec-24	31		Gas Detection System - Prep(28d), Sub.& Review(28d), Comme
DDA-570 Information and Documentmangement System (DMS) - Prep(26d), Sub.aReview(26d), Comment&Resub (14d) & Ar	275	01-Apr-24	31-Dec-24	31		
DDA-1280 Data Collection, Management, Analysis & Model System - Prep (28d), Sub& Review (28d), Commen & Resub (14d) & A	275	01-Apr-24	31-Dec-24	31		
Package 12 - Chemical System for STB	1 Contraction	133 337		-		
DDA-650 Chemical System for Sludge Thickening Building (STB) - Prep(60d), Sub&Review(45d), Comment&Resub (14d) &At	150	01-Apr-24	28-Aug-24	127		
Package 13 - Pipework System DDA-660 Pipeworks System for Studge Thickening Building (STB) - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & A	126	01-Apr-24	04-Aug-24	185		
DDA-1030 Pipeworks System for Sludge Digesters - Prep(60d),Sub & Review(45d),Comment& Resub (14d) & Approval (7d)	126	01-Apr-24	04-Aug-24	-112		
Package 14 - Sludge Anærobic Digestion System (SDT)						
DDA-1320 Electrical & Control for SDT & UC/PP-Pre pare (55d), Sub. & Review (45d), Comment & Resub.(14d) & Approval (7d)		02-Jul-21A	29-Jun-24	-76	AL.	Electrical
DDA-1340 Civil Req. Drawing for UC/PP - Prepare (47d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d) DDA-1330 Building Services for SDT & UC/PP - Prepare (56d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)		10-Jul-21 A	24-May-24 29-Jun-24	-76 -76		Req. Drawing for UC/PP - Prepare (47d), Sub. & Review (45d), Comm Building S
DDA-1330 Building Services for SDT & UC/PP - Propare (56d) Sub & Review.(45d) ,Comment & Resub.(14d) & Approval (7d) Package 15 - Biogas H2S Removal, Storage and Delivery System	101	02-May-23 A	29-Jun-24	-70		
DDA-1390 Building Services for Biogas H2S Removal System - Prepare(28d), Sub& Review(28d), Comment& Resub(14d)& Appr	137	31-May-23 A	30-May-24	-124		Building Services for Biogas H2S Removal System - Prepare (28
DDA-1380 Electrical & Control for Biogas H2S Removal System - Prepare (28d), Sub& Review (28d), Comment& Resub(14d) & App	105	25-Sep-23 A	30-May-24	-124		Electrical & Control for Biogas H2S Removal System - Prepare Q
Package 16 - Deodorization Unit System	1.000				Mechanical for DOU No. 1 - Prepare (28d), Sub& Review (2	A Comment's Desigh (140) & Anomical (7d)
DDA-1420 Mechanical for DOU No.1 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d) DDA-1440 Mechanical for DOU No.3 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)		04-Mar-22A 17-Jul-22A	24-Apr-24 01-May-24	-131 275		& Review(28d),Comment&Resub(14d)&Approval (7d)
DDA-1430 Mechanical for DOU No.2A and 2B-Pre pare (28d) Sub& Review (28d) Common & Resub(14d) & Approval (7d)		13-Oct-23A	31-May-24	245		Mechanical for DOU No. 2A and 2B-Pre pare (28d), Sub& Rev
Package 17 - Sludge Dewatering Building (SDB)						
DDA-910 Roof Rainwater Collection Systemfor (SDB) - Prep(60d), Sub & Review(45d), Comment& Resub (21d) & Approva (7d)		01-May-24	28-Dec-24	73		
DDA-920 Fire Services System for SDB - Prep(60d), Sub,&Review(45d), Comment&Resub (14d) & Approval(7 d) DDA-930 Mechanical for Sludge Dewatering Building (SDB) - Prep(60d), Sub,&Review(45d), Comment&Resub (14d) & Approv	and the second	01-May-24 01-May-24	28-Dec-24 28-Dec-24	73 519		
DDA-940 Plumbing System for Studge Dewatering Bldg (SDB) - Prep(60d), Sub & Review(45d), Comment& Resub(14d) & Apps	- Contraction -	01-May-24	28-Dec-24	519		
DDA-950 BS for Sludge Dewatering Building (SDB) - Prep(118d), Sub & Review (45d), Comment& Resub (14d) & Approval (7d)	242	01-May-24	28-Dec-24	73		
Package 18 - Miscellaneous						
DDA-540 Civil & Structural for Msc, Manholes, DrawPits, FenceWall-Prep (60 d), Sub & Review (45d), Comment& Resub (14d) & App Package 19. Elevated Wellburger	255	29-Apr-24	08-Jan-25	44		
Package 19 - Elevated Walkways DDA-710 Civil & Structural for Elevated Walkways - Pre p(6 0d), Sub & Review(45d), Comment& Resub (14d) & Approval (7d), GEC	101	29-Apr-24	07-Aug-24	668		
Package 20 - Trellis						
DDA-720 Civil & Structural for Trellis - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approval(7d)	207	01-Apr-24	24-Oct-24	502		
Package 21 - Steel Working Platform	400	01 4-01	41 14.04	-		
DDA-730 Civil & Structural for Steel Working Platform - Prep(60d), Sub,&Review(45d), Comment&Resub (14d) & Approval(7d) Package 22 - Sampling System of YLEPP	102	01-Apr-24	11-Jul-24	607		
DDA-740 Samping System for M&PST-Prep(60d), Sub&Review(45d), Comment&Resub (14d) & Approval(7d)	62	07-Jul-23A	29-May-24	-201		Sampling System for IW&PST-Prep(60d), Sub & Review(45d), Co
DDA-1630 Sampling System for STB - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approva (7d)	128	01-Apr-24	06-Aug-24	-137		
DDA-1610 Samping System for AGS&TTB -Prep(60d), Sub.&Revie w(45d), Comment&Resub (14d) & Approval(7d)	127	25-Apr-24	29-Aug-24	-137		
DDA-1620 Samping System for SDT-Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d) Package 23 - Security, Public Address and Communication System	127	25-Apr-24	29-Aug-24	-137		
DDA-750 SPC sitewide ACS-Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approval(7d)	98	21-Jun-23A	06-Jun-24	-209		SPC situwide ACS-Prep(60d), Sub & Review (45d)
Package 24 - Administration Building (ADB)						
DDA-0960 Architectural for Administration Building (ADB) - Prep (60d), Sub. & Review (45d), Comment& Resub (14d) & Approval (7)	126	01-Apr-24	04-Aug-24	-108		
Design out of ATAL's Scope DDA-1540 Drainage systems atbase slab /foundation levels - Prep(60d), Sub&Review(45d), Comment&Resub (14d) & Approve	126	24-Aug-22 A	05-Jun-24	261		Drainage systems at base slab / foundation levels - P
DDA-1560 Street fire hydrantsystem - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approval(7d)	126	01-Apr-24	04-Aug-24	164		
DDA-1550 Rainwaterdrainage systems - Prep(60d), Sub&Review(45d), Comment&Resub (14d) & Approval(7d)	126	06-Jun-24	09-Oct-24	539		
Technical Submission Factory Acceptance Test Plans						
SUBIN-1130 Submitteview/approval Factory Acceptance Test Plans - SCADA system	120	01-Dec-23 A	14-Jun-24	-53		Submitteviewapproval Factory Acce
Operation and Maintenance (O&M) Manuals and Installation Manuals (PS 34.20(11)(12)(13))						
Inter Works and Primary Sedimentation Tank		05 L- 02 A	0114-01	004	Submitter	nance (O&M) Manuals and Installation Manuals - 1stdraft
SUBM-1070 Submitteview/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1stdraft SUBM-1200 Submitteview/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft		05-Jan-23A 02-May-24	01-May-24 30-Jun-24	-264 -235	Submitteeterwappioval operation and ivaline	nance (Cow) Manuals and installation Manuals - Istolari
AGS and TTS system						
SUBM-1220 Submitteviewapproval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	02-May-24	30-Jun-24	12		t Submit
Sludge Thickening System SUBM-1250 Submitteviewapproval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	02-May-24	30-Jun-24	454		Submit
Studge Disgestion System	00	0249839-24	30-00n-24	404		
SUBM-1310 Submitteview/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1stdraft	60	02-May-24	30-Jun-24	-264		Submit
Biogas H2S Removal System SUBM-1280 Submitteview/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	0214-024	20 1-24	264		Submit
SUBM-1280 Submitteview/approvalOperation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft Commissioning Plan and Procedures (PS34.20(10))	60	02-May-24	30-Jun-24	-264		Gubin
SUBIM-1000 Submitteview/approval Commissioning Plan and Procedures - Early commissioning of IW&PST (KD3)	120	21-Feb-24 A	29-Jul-24	-173		
Material Submission, Procurement, Manufacturing and Delivery						
Inlet Works						
PRE-210 Submit/Procure/Manufacture/Defiver NewInlet/Works Equip Screening system (fixed baccoarse fine) PRE-700 Submit/Procure/Manufacture/Defiver NewInlet/Works Equip Inletpumps (HFJE/Drainage)	and the second second second	16-Mar-21 A	15-Jul-24 15-Jul-24	-270		
PRE-700 SubmitProcureManufacture/Derver NewIntertWorks Equip, -Interpumps (PFL)-Drainage) PRE-290 SubmitProcureManufacture/Derver NewIntertWorks Equip, -GritTrap and classifier		05-Jan-22A 18-Feb-22A	15-Jui-24 15-Aug-24	-245		
PRE-280 SubmitProcureManufacture/Deliver NewInletWorks Equip Convergeor and compactor	270	12-Apr-22A	15-Jul-24	-210		
PRE-330 Submit/Procure/Manufacture/Defiver NewInlet/Works Equip DOU-01	and the state of t	26-May-22 A	23-Apr-24	-124	SubmitProcure/Manufacture/Deliver NewInlet Works Equip	
PRE-300 SubmitProcure/Manufacture/Deliver/NewInlet/Works EquipLALG PRE-310 SubmitProcure/Manufacture/Deliver/NewInlet/Works EquipPenstocks and stoplogs	and the second se	28-Jul-22A 13-Sep-22A	23-Apr-24 15-Jul-24	-180	SubmitProcure/Manufacture/DeliverNewInletWorks Equip	-LALG
PRE-320 Submit Procure/Manufacture/Defiver New Inlet Works Equip M/AC-Ventilation Fan	and the second second	10-Jan-23A	31-Aug-24	-282		
Biogas Holder						
PRE-410 Submit/Procure/Manufacture/Deliver/Waster Gas Burner	and the second	19-Aug-21 A	03-Dec-26	-124		
PRE-420 SubmitProcure.Manufacture/DeliverH2S Removal System PRE-430 SubmitProcure.Manufacture/DeliverBiogas booster and transfer pumps		25-Feb-22 A 27-Apr-24*	31-Oct-25 30-Sep-25	-65 63		
Sludge Digestor Tank	~22	****	00-00p-20	03		
PRE-750 Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Flame Arresters	100	31-Od-22 A	30-Nov-24	-230		
PRE-780 Submit/Procure.Manufacture/Deliver Sludge Digester Tank-Moing System and Heat Exchanger for Sludge Anaerobic		22-Dec-22 A	30-Nov-24	-230		
PRE-720 SubmikProcure.Manufacture/Deliver Sludge Digester Tank - Inspection Windowsfor Sludge Anaerobic System PRE-730 SubmikProcure.Manufacture/Deliver Sludge Digester Tank - Gas Take Off Dome for Sludge Anaerobic Digestion Syste	and the second se	18-Jan-23A	30-Nov-24 30-Nov-24	-230		
PRE-730 Submit/Procure/Manufacture/Deliver Sludge Digester Tank-Gas Take Off Dometor Sudge Anaerobic Digeston Syste PRE-710 Submit/Procure/Manufacture/Deliver Sludge Digester Tank-Pressure and Vacuum Relief Valves		18-Jan-23A 01-Mar-23A	30-Nov-24 30-Nov-24	-230		
PRE-740 Submit/Procure/Manufacture/Deliver Sludge Digester Tank-Telescopic Valve for Sludge Anaero bic Digestion System		10-Jul-23A	30-Nov-24	-230		
PRE-760 Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Ferric Chloride Dosing Pump		29-Aug-23 A	30-Nov-24	-230		
PRE-770 Submit/Procure/Manufacture/Deliver Studge Digester Tank-Ferric Chloride Trasnler Pump	148	29-Aug-23 A	30-Nov-24	-230		
Sludge Thickening Building PRE-250 SubmikProcureManufactureDeliver Sludge Thickening System-Thickening Centrifuges	360	12-Nov-21 A	29-Jun-24	221		Submits
PRE-500 Submit/Procure/Manufacture/Deliver Skudge Thickening System-Pump and jet mixer	and the second division of the second divisio	07-Jan-22A	16-Aug-24	10		
PRE-510 Submit/Procure/Manufacture/Deliver Studge Thickening System - LALG		28-Mar-23 A	28-Aug-24	102		<u> </u>
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omment	&Resub (14d) & Approval(7d)			
		Sampling Syste	m for STB - Prep(60d), Subl&Review(45d), Sampling System
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		Architectural for Adn	ninistraton Building (ADB) + Prep (60 d), Sub
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cureManufactureDeliver Skidge Thickening System -Polymer preparation system cureManufactureDeliver Skidge Thickening System -DOU-03 cureManufactureDeliver Skidge Thickening System -MVAC scureManufactureDeliver Main Stream Bio-Reactor E&MEquipAGS system cureManufactureDeliver Main Stream Bio-Reactor E&MEquipAGS system cureManufactureDeliver Main Stream Bio-Reactor E&MEquipChestocks and stoplogs incureManufactureDeliver Main Stream Bio-Reactor E&MEquipChertical stoplogs incureManufactureDeliver Main Stream Bio-Reactor E&MEquipChertical stoplogs incureManufactureDeliver Main Stream Bio-Reactor E&MEquipChertical stoplogs incureManufactureDeliver Main Stream Bio-Reactor E&MEquipLALG incureManufactureDeliver Main Stream Bio-Reactor E&MEquipInstrumentation iscureManufactureDeliver Main Stream Bio-Reactor E&MEquipMVAC iscureManufactureDeliver Main Stream Bio-Reactor E&MEquipMVAC iscureManufactureDeliver Main Stream Bio-Reactor E&MEquipMVAC	388 264 212 480 345 510 270 398 481 241	12-Apr-23A 07-Jul-23A 01-Apr-24 09-Sep-22A 31-Oct-22A 31-Oct-22A 18-Nov-22A 01-Apr-24	28-Aug-24 26-Oct-24 29-Oct-24 03-May-25 25-Jul-25 09-Mar-25 09-Mar-25 03-May-25	127 102 99 -207 -207 -129 -152		
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ocure Manufacture/Deliver Main Stream Bio-Reactor E&MEquipInstrumentation ocure Manufacture/Deliver Main Stream Bio-Reactor E&MEquipMVAC ocure/Manufacture/Deliver TTS EquipPumping system	481	a second and a second se	03-May-25			
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ncure/Manufacture/Deliver TTS EquipDisc Filter Incure/Manufacture/Deliver TTS EquipChemical cleaning system	600 480	27-Sep-22 A 18-Nov-22 A	09-Mar-25 09-Mar-25	-119		
core/Manufacture/Deliver TTS EquipPenstocks and stoplogs	435	30-Nov-22 A	09-Mar-25	-119		
ocure/Manufacture/Deliver TTS EquipLALG	151	27-Mar-23A	09-Mar-25	-119		
acure/Manufacture/DeliverTTS EquipDOU-02	506	07-Sep-23 A	20-May-25	-191		
ern cure Manufacture/Deliver Electrial and Control System - SCADA and instrumentation	420	30-Apr-22A	13-Apr-24	-53	SubmitProcure/Manufacture/Deliver/Electrial and Control System-SCADA	and instrumentation
cureManufacture/Deliver Electrial and Control System - LVSB	300	21-Dec-22.A	01-Apr-24	-189	SubmitProcure/Manufacture/Deliver Electrial and Control System - LVSB	
ocure.Manufacture.Deliver Electrial and Control System - UPS	300	21-Dec-22 A	03-Apr-24	-161	SubmitProcureManufacture/Deliver Electrial and Control System - UPS	Control System - Amoured Cable
scure.Manufacture.Deliver Electrial and Control System - Armoured Cable	203	21-Dec-22 A	27-Apr-24	-113		
n. Bidg						
Initial Survey and Record, Underground Utilifies Detection	12	06-May-24	20-May-24	1		-Initial Survey and Record, Underground Utilities Detection
Installation of Water Barriers, Clearance, Haul Road and Temp Facilities	12	06-May-24	20-May-24	1	Portion 3	Installation of Water Barriers, Clearance, Haul Road and Temp Fa Portion 3 - Land Contamination Site Investigation
Land Contamination Site Investigation Carry out RAP	12 24	21-May-24 04-Jun-24	03-Jun-24 03-Jul-24	23		
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services Installation Plan for Building (Form 314) (Drawings for Smoke Extraction System and VAC) al	0		08-Mar-24A		FSD Fire Services Installation Plan for Building (Form 314) (Drawings for Smoke Extraction System and VAC)	
ar m WWO542 PM&WSD reviewand approval	90	10-Mar-22.A	26-Apr-24	-215	WSD - Form WWO542 PM&WSD review and appro	wal
bmitForm WWO46 Part 1 and 2	0		26-Apr-24	-215	♦ WSD-SubmitForm WWO46 Part 1 and 2	
m WWO46 Part 1 and 2 PM&WSD review and approval	90	27-Apr-24	25-Jul-24	-215		
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for Biogas Holder Tank 1 (Submission and Approval Period)	184	08-Nov-22 A	04-Jun-24	-47		Form 105 for Biogas Holder Tank 1 (Submission a
alfor VEP			10.401		EPD - VEP Review, prepare and submitto PM	
P Review prepare and submitto PM P RIC to PM and approval	60 7	24-May-23 A 11-Apr-24	10-Apr-24 17-Apr-24	55 55	EPD-VEP Review, prepare and solution million	
P consultation with HKBW	28	11-Apr-24	08-May-24	69	EPD-VEP consultation with H	
P Submission to DSD and EPD	28	18-Apr-24	15-May-24	55		nission to DSD and EPD
P RIC to DSD and EPD	7 28	16-May-24 23-May-24	22-May-24 19-Jun-24	55 55		EPD-VEP Gazette
Papproval	7	20-Jun-24	26-Jun-24	55		EPD-VE
2 iandover Inspection and Installation tation No.1 - Energization tation No.2 - Energization	0		21-Mar-24A 21-Mar-24A		CLP Substation \$0.1-Energization CLP Substation \$0.2-Energization	
					DODM/010-blasses	
	8	02-May-24	10-May-24	-123	DSDTINV SWIDgear-Er	Jorgization
tation No.1 & 2 & DSD11KV Switchgear - GRC dadding - fabrication	60	21-Feb-24 A	08-Jun-24	513		CLP Substation No.1 & 2 & DSD11KV Sw
tation No.1 & 2 & DSD11KV Switchgear-GRC dadding-installation	75	10-Apr-24	10-Jul-24	513		
mergency Bypass Chamber						
	12	15.Ans.24*	27-Apr-24	-186	W-Modification of Existing Emergency Bypass C	hamber - Sile clearance and mobilization of sheetpile and grouting
cation of Existing Emergency Bypass Chamber - Diagonal grouting atexisting chamber	18	28-Apr-24	15-May-24	-229		of Existing Emergency Bypass Chamber - Diagonal grouting at exist
calon of Existing Emergency Bypass Chamber - Sheet Piles Installation (1,283m2,60m2/dayltig, 1rig)	18	29-Apr-24	21-May-24	-186		odification of Existing Emergency Bypass Chamber- Sheet Piles Ins
cation of Existing Emergency Bypass Chamber - Pumping test	5	22-May-24	26-May-24	-235		W-Modification of Existing Emergency Bypass Chamber - Pum W-Modification of Existing Emergency Bypass Chamber -
	6		29-May-24 05-Jun-24	-188		W-Modification of Existing Emergency Bypass Chamber
cation of Existing Emergency Bypass Chamber - Sectionsalianon (gr-4,000 D) cation of Existing Emergency Bypass Chamber - Excavation: 2nd layer +3.5 to +1.0mPD (633m3)	4	06-Jun-24	11-Jun-24	-188		W-Modification of Existing Emerger
calon of Existing Emergency Bypass Chamber - Strutinstallation @ +1.5mPD	6	12-Jun-24	18-Jun-24	-188		W-Modification of Exis
	4	and the second sec	and the second data and the se			W-Modification
cation of Existing Emergency Bypass Chamber-Strutinstaliation @-15mPD er - Pipe laying		27-001-24	2.5-5411-24	-100		
caton of Existing Emergency Bypass Chamber - Excavation: FEL+1.0 to -0.9mPD (481 m3)	6	19-Jun-24	25-Jun-24	-156		W-Medifi
cation of Existing Emergency Bypass Chamber - 1200mm Pipe Laying, connect b IV & Backfilling	40	26-Jun-24	12-Aug-24	-156		
	24	26-hin-24	24-hil-24	-140		
	-	201001124	2400729	-140		
on of Existing Inspection Chamber - SheetPiles Installation (1,020m2,40m2/day/lig,1 rig)	21	14-Jun-24	09-Jul-24	-228		Cartan
				1000		
s						
LS						
A-Remove stut S4 and remaining S3	6	31-Jan-24 A	19-Feb-24 A			
A-Pile Cap @ 4.90/4.60/4.65mpD (3rd pour)	8	20-Feb-24 A	04-Mar-24A			
A-Pile Cap @-0.55mpD (5th pour) D-Pile Cap @-1.65 (GL4-5 upper portion) *OT	6	27-Feb-24 A 27-Feb-24 A	20-Mar-24 A 08-Mar-24 A		W-Zone D-Pile Cap @-1.65 (GL4-5 upper portion)*OT	
A-Pile Cap @-1.60/-0.05mpD (4th pour)	10	28-Feb-24 A	20-Mar-24A		M-Zone A-Pile Cap @-1.6040.05mpD (4th pour)	
					MiC)- Zone C3-Struting:Remove S1 & S2 strut(MS3-1 & MS3-2)atGL4	
	1.0.1					
ne C3 - Strufing: Remove S1 & S2 strut (MS3-1 & MS3-2) at GL4	3	24-Mar-24A	26-Mar-24A			
	don No.2 - Energization Switchgear - Energization DBD 11kV Switchgear - GRC Cladding don No.1 & 2 & DSD 11kV Switchgear - GRC cladding - fabrication don No.1 & 2 & DSD 11kV Switchgear - GRC cladding - fabrication don No.1 & 2 & DSD 11kV Switchgear - GRC cladding - fabrication don No.1 & 2 & DSD 11kV Switchgear - GRC cladding - fabrication mergency Bypass Chamber - Foundation and ELS alon of Existing Emergency Bypass Chamber - Site clearance and mobilization of sheetpile and grouting alon of Existing Emergency Bypass Chamber - Diagonal grouting at existing chamber alon of Existing Emergency Bypass Chamber - Pumping bat alon of Existing Emergency Bypass Chamber - Exavation: 1stayer 4.5 to +3.5mPD (253m3) alon of Existing Emergency Bypass Chamber - Exavation: 2nd Buser 4.5 to +1.5mPD (253m3) alon of Existing Emergency Bypass Chamber - Exavation: 2nd Buser 4.5 to +1.5mPD (253m3) alon of Existing Emergency Bypass Chamber - Stutinstaliation @ +1.5mPD alon of Existing Emergency Bypass Chamber - Stutinstaliation @ +1.5mPD alon of Existing Emergency Bypass Chamber - Exavation: 2nd Buser 4.5 to +1.5mPD (759m3) alon of Existing Emergency Bypass Chamber - Exavation: 2nd Buser 4.5 to +1.5mPD (759m3) alon of Existing Emergency Bypass Chamber - Exavation: 2nd Buser 4.5 to +0.5mPD (451m3) alon of Existing Emergency Bypass Chamber - Exavation: 2nd Buser 4.5 to +0.5mPD (451m3) alon of Existing Emergency Bypass Chamber - 1200mm Pipe Layling, connect to IW& Backlilling - Structural Wodification alon of Existing Emergency Bypass Chamber - Istal bukhead at existing chamber spection Chamber & Intel Efficient Pipes from NSWSPS to Existing Imagency Bypass Chamber - SheetPiles Instalation (1,020m2, 40m2taylig, 1 tig) - Bis Cang @ -1.65 (Clu4-5 upper potion) 'OT	don No.2-Energization 0 Switchgear-Energization 6 DBD 11KV Switchgear - GRC Cladding 60 don No.1 & 2 & DSD11KV Switchgear - GRC cladding - fabrication 60 don No.1 & 2 & DSD11KV Switchgear - GRC cladding - fabrication 60 don No.1 & 2 & DSD11KV Switchgear - GRC cladding - fabrication 60 more net gency Bypass Chamber 75 r-Foundation and ELS 75 ation of Existing Emergency Bypass Chamber - Site dearance and mobilization of sheetpile and groufing 12 ation of Existing Emergency Bypass Chamber - Diagonal groufing a texisting chamber 18 ation of Existing Emergency Bypass Chamber - Pumping bat 5 ation of Existing Emergency Bypass Chamber - Exavation: 1stayer +4.5 to +3.5mPD (£33m3) 3 ation of Existing Emergency Bypass Chamber - Exavation: 2md layer +3.5 to +1.5mPD (53m3) 4 ation of Existing Emergency Bypass Chamber - Exavation: 2md layer +3.5 to +1.5mPD (53m3) 4 ation of Existing Emergency Bypass Chamber - Exavation: 2md layer +3.5 to +1.5mPD (55m3) 4 ation of Existing Emergency Bypass Chamber - Exavation: 2md layer +1.5 to +2.0mPD (759m3) 4 ation of Existing Emergency Bypass Chamber - Exavation: 2md layer, 4.5 to +1.5mPD 6 ation of Existing Emergency Bypass Chamber - Exavation: 2md layer, 4.10 to -2.0mPD (759m3) 4 ation of Existing Emergency Bypass Chamber - 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Exavation: TetLayer 4.5 to +1.0mPD (750m3) 4 19-Jun-24 ation of Existing Emergency Bypass Chamber - Exavation: TetLayer 4.5 to +0.0mPD (750m3) 4 19-Jun-24 r - Pipic Laying <td< td=""><td>don No.2 - Energization 0 21-Mar24A Switchgear - Energization 6 02-May-24 10-May-24 DBD 11KV Switchgear - GRC Cladding 60 21-Fab-24 A 08-Jun-24 don No.1 & 2 & DSD11KV Switchgear - GRC cladding - Institution 75 10-Apr-24 00-Jul-24 nergency Bypass Chamber 75 10-Apr-24 10-Jul-24 nergency Bypass Chamber 18 28-Apr-24 27-Apr-24 ation of Existing Emergency Bypass Chamber - Site clearance and mobilization of sheetpile and groufing 12 15-Apr-24 ation of Existing Emergency Bypass Chamber - Diagonal groufing atexisting chamber 18 28-Apr-24 21-May-24 ation of Existing Emergency Bypass Chamber - Pumping text 5 22-May-24 28-May-24 ation of Existing Emergency Bypass Chamber - Exavation: Tettayer +4.5 to +3.5mPD (253m3) 3 27-May-24 29-May-24 ation of Existing Emergency Bypass Chamber - Exavation: Tettayer +4.5 to +3.5mPD (533m3) 4 06-Jun-24 18-Jun-24 ation of Existing Emergency Bypass Chamber - Exavation: Tettayer +4.5 to +3.5mPD (553m3) 4 19-Jun-24 18-Jun-24 ation of Existing Emergency Bypass Chamber - Exavation: Tettayer +4.5 to +3.5mPD (55m3) 4 19-Jun-24 29-Jun-24 ation of Existing Emergency Bypass Chamber - Exavation: Tettayer +4.5 to +3.5mPD (55m3) 4</td><td>den No.2 - Energization 0 21-Mar-24A Switchgear - Energization 8 02.May-24 10.May-24 -123 Switchgear - GRC Cladding </td><td>doi:N0.2-Energization 0 21 Han-2/4 • C.2-Energization 0xh0y-26-Toing/zation 0 02 Han-2/4 10 Hay-9/4 12 Han-2/4 • C.2-Energization Image: Control Science (Control Handle (Control Science (Control Science</td></td<>	don No.2 - Energization 0 21-Mar24A Switchgear - Energization 6 02-May-24 10-May-24 DBD 11KV Switchgear - GRC Cladding 60 21-Fab-24 A 08-Jun-24 don No.1 & 2 & DSD11KV Switchgear - GRC cladding - Institution 75 10-Apr-24 00-Jul-24 nergency Bypass Chamber 75 10-Apr-24 10-Jul-24 nergency Bypass Chamber 18 28-Apr-24 27-Apr-24 ation of Existing Emergency Bypass Chamber - Site clearance and mobilization of sheetpile and groufing 12 15-Apr-24 ation of Existing Emergency Bypass Chamber - 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RC cladding - fabrication		Whatan CPC	dadding ind		
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er					
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1stlayer+4.5 to +3.5mPD (2 -Strutinstallation @ +4.0mPC					
Chamber - Excavation: 2nd l ency Bypass Chamber - Strut	installation @+1	5mPD			
Emergency Bypass Chambe on of Existing Emergency Byp	er-Excavation: 3m ass Chamber-S	d layer+1.0 to - trutinstallation (2,0mPD (759n 2) -1.5mPD	13)	
isling Emergency Bypass Ch	amber-Excavati	on:FEL+1.0 to			g Ernergency Bypa
	IVV-Modification	of Existing Em			nstall bulkhead at e
Modification of Existing Ins	pection Chambe	r- SheetPiles	installation (1,0	20m2,40m2/d	lay/rig, 1 rig)
	Monthly P				
Date 31-Mar-24	Rev. 0	Revision	Ch	necked	Approved

 works, Formworks and RC Works (0.55 b +3.95/4.95 mPD) slab (+3.95mPD) RC Works *S1 retained & S2 cast-in a; (0.55 b below S3) (0.66bw S3) a*S2 cast-in RC Works (+3.95/+4.95 mPD) Works (+3.95/+4.95 mPD) after S1 remove (0.66bw S2) weil) slab) threes test +7.835) & imSlab of Falseworks, Formworks and RC Works (+7.83); B) & interminidiae Slab of Falseworks, Formworks and RC Works (+7.83); B) & interminidiae Slab of Falseworks, Formworks and RC Works (+7.83); B) & interminidiae Slab of Falseworks, Formworks and RC Works (+1.92mPD) work (+3.95 to +7.835/+8.2mPD) *gittap (+5mPD) late cast and 1/F slab RC Works (+18.2mPD) s (+7.84+8.2mPD) s (+7.84+8.2mPD) s (+11.8mPD) cord Slab of Falseworks c (+11.8mPD) 	9 6 10 8 4 2 8 8 3 12 12 12 12 8 8 3 3 3 7 7 7 18 18 18 8 8 8 8 8 8 8 8 8 8 8 8	274Mar-24A 154Mar-24A 254Mar-24A 12-Apr-24 12-Apr-24 13-Apr-24 13-Apr-24 13-Apr-24 13-Apr-24 03-May-24 03-May-24 06-Jun-24 18-May-24 06-Jun-24 18-May-24 26-Jun-24 18-Apr-24 27-Apr-24 08-May-24 22-Apr-24	17-Apr-24 20-Apr-24 10-Apr-24 18-Apr-24 18-Apr-24 18-Apr-24 27-Apr-24 17-May-24 17-May-24 17-May-24 17-May-24 05-Jun-24 05-Jun-24 05-Jun-24 25-May-24 13-Jun-24 25-Jun-24 25-Jun-24 17-Jul-24	-160 -215 -232 -232 -232 -232 -232 -232 -232 -23	M(AO)-W M(AO)-W MUAC	52 cast-In nd RC Works (+3,95/+4,95 mPD) IRC Works (+3,95/+4,95 mPD) IRC Works (+3,95/+4,95 mPD) IRC Works (+3,95/+4,95 mPD))- Remove S2 IWAO)-Wate proof, concrete IWAO)-Wate proof, concrete IWAO, Wate Water IWAO, WA
s (0.55 b below S3) (0.6bw S3) s *S2 caskin CC Works (+3.95/+4.95 mPD) Works (+3.95/+4.95 mPD) after S1 remove (0.6bw S2) wel) slab) threas test +7.8.35) & imSlab of Falseworks, Formworks and RC Works (+7.83/ 8) & intermidiate Slab of Falseworks, Formworks and RC Works (+7.83/ 8) & intermidiate Slab of Falseworks, Formworks and RC Works (+7.83/ 8) & intermidiate Slab of Falseworks, Formworks and RC Works (+7.83/ 8) & intermidiate Slab of Falseworks, Formworks and RC Works (+7.83/ 8) & intermidiate Slab of Falseworks, Formworks and RC Works (+18.2mPD) Works (+3.95 to +7.835/+8.2mPD) 'grittap (+5mPD) late cast and 1.F slab RC Works (+11.8mPD) oor Slab RC Works (+18.2mPD) s (+7.84/+8.2mPD) des and RC Works (+7.84/+8.2mPD) giftap (+5mPD) RC Works s (+11.8mPD) IC Works (+11.8mPD)	10 8 4 2 8 3 12 12 8 8 3 3 3 7 7 7 18 18 18 8 8 8 8 8 8 8 8 8 10 10 10 10 10	25Mar-24A 02-Apr-24 12-Apr-24 13-Apr-24 19-Apr-24 29-Apr-24 03-May-24 03-May-24 18-May-24 08-Jun-24 11-Jun-24 18-May-24 04-Jun-24 26-Jun-24 18-Apr-24 26-Jun-24 26-Jun-24	02-Apr-24 11-Apr-24 18-Apr-24 27-Apr-24 02-May-24 17-May-24 17-May-24 05-Jun-24 08-Jun-24 13-Jun-24 25-May-24 03-Jun-24 25-Jun-24 17-Jul-24	-232 -232 -232 -232 -232 -232 -232 -232	W(AD)-Wail Erecton of Formworks and RC Works (0.55 to below S3) W(AD)-Remove formeroft, concrete teffectivorite (below S3) W(AD)-Wail groot/concrete teddll (below S3) W(AD)-Remove S3 W(AD)-Wail, column (-1.6 to -3.0mPD) RC Works "S2 cashin W(AD)-GF Slab of Fabeworks, Formworks an W(AD)-GF Slab of Fabeworks, Formworks an W(AD)-GF Slab of Fabeworks, Formworks an W(AD)-Remove S1 W(AD)-Remove S1 W(AD)-Remove S1 W(AD)-Remove S1 W(AD)-Wail (column (-1.6 to -3.0mPD) RC Works, Formworks an W(AD)-GF Slab of Fabeworks, Formworks an W(AD)-GF Slab of Fabeworks, Formworks an W(AD)-GF Slab of Fabeworks, Formworks an W(AD)-Remove S1 W(AD)-Remov	nd RC Works (+3.954-4.95 mPD) IRC Works (+3.954-4.95 mPD) concrete defectivents (below St ab proof, concrete ta addit (below))-Remove S2 I W(AD) - Waterproof, concrete (WZoneA +4.95 stab) nvork and make good for water WB - W
	8 4 2 8 3 12 12 8 8 8 3 3 7 7 7 18 18 18 8 8 8 8 8 8 8 8 10 10 10 10	02-Apr-24 12-Apr-24 17-Apr-24 19-Apr-24 29-Apr-24 03-May-24 03-May-24 28-May-24 06-Jun-24 11-Jun-24 18-May-24 04-Jun-24 26-Jun-24 18-Apr-24 26-Jun-24 18-Apr-24 27-Apr-24 08-May-24	11-Apr24 18-Apr24 18-Apr24 27-Apr24 02-May24 17-May24 05-Jun24 08-Jun24 08-Jun24 08-Jun24 03-Jun24 25-May24 03-Jun24 25-Jun24	-232 -232 -232 -232 -232 -232 -228 -228	MQAD)-Remove formsork, concrete defectivorte (belowS3) MQAD)-Remove S3 MQAD)-Remove S3 MQAD)-Remove S1 MQAD)-Remove S1 MQAD)-GF Slab of Falseworks, Formworks an MQAD)-GF Slab of Falseworks, Formworks an MQAD)-With Concrete develop steregt	IRC Works (+3.95t+4.95 mPD) concrete defectivents (below 52 to proof, concrete backfil (below I)-Remove 52 II W(AO)-Waterproof, concrete M(WZoneA +4.95 stab) mvok and make good for water WB-W
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RC Works (+3.95/+4.95 mPD) Works (+3.95/+4.95 mPD) after S1 remove (pelow S2) wei) slab) these test +7.8.35)& imSlab of Falseworks, Formworks and RC Works (+7.8.9) 8)& intermidiate Stab of Falseworks, Formworks and RC Works (+7.8.9) 8)& intermidiate Stab of Falseworks, Formworks and RC Works (+7.8.9) 8)& intermidiate Stab of Falseworks, Formworks and RC Works (+1.8.9) 8)& intermidiate Stab of Falseworks, Formworks and RC Works (+1.9.9) 8) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 9)& Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 14) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 15) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 16) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 17) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 18) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 18) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 19) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 10) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 10) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 10) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 10) & Roof Stab of Falseworks, Formworks and RC Works (+1.8.9) 10) & Roof Stab RC Works (+1.8.	8 3 12 12 8 8 8 3 3 3 7 7 7 18 18 18 18 8 8 8 8 8 8 10 10 10 10 10 6	17-Apr-24 19-Apr-24 03-May-24 03-May-24 03-May-24 18-May-24 28-May-24 28-May-24 11-Jun-24 18-May-24 26-Jun-24 26-Jun-24 18-Apr-24 26-Jun-24 28-Jun-24 28-Jun-24	18-Apr24 27-Apr24 02-May-24 17-May-24 17-May-24 05-Jun-24 08-Jun-24 13-Jun-24 25-May-24 03-Jun-24 25-Jun-24 17-Jul-24 25-Jun-24 03-Jun-24	-232 -232 -232 -232 -228 -228 -228 -228	MVAD)-Remove \$3 MVAD)-Wall, ob trm (-1.8 to -3.0 mPD) RC Works "52 caskin MVAD)-GF Stab of Fabsworks, Formworks an MVAD)-GF Stab of Fabsworks, Formworks an MVAD)-GF Stab of Fabsworks, Formworks an MVAD)-Core Stab of Fabsworks, Formworks an MVAD)-Remove State of Pabsworks, Formworks an MVAD)-Wall, ob trm (-1.8 to -3.0 mPD) RC Works "S2 caskin MVAD)-GF Stab of Fabsworks, Formworks an MVAD)-GF Stab of Fabsworks, Formworks an MVAD)-Wall, ob trm (-1.8 to -3.0 mPD) RC Works "S2 caskin MVAD)-GF Stab of Fabsworks, Formworks an MVAD)-GF Stab of Fabsworks, Formworks an MVAD)-Wall, ob trm (-1.8 to -3.0 mPD) RC Works "NWAD]-Remove State MVAD)-Wall, ob trm (-1.8 to -3.0 mPD) RC Works "NWAD]-Remove State MVAD)-Wall, ob trm (-1.8 to -3.0 mPD) RC Works "NWAD]-Remove State MVAD)-Wall, ob trm (-1.8 to -3.0 mPD) RC Works "NWAD]-Remove State MVAD]-Remove	IRC Works (+3.95t+4.95 mPD) concrete defectivents (below 52 to proof, concrete backfil (below I)-Remove 52 II W(AO)-Waterproof, concrete M(WZoneA +4.95 stab) mvok and make good for water WB-W
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wel) slab) intess test +78 35)& imSlab of Falseworks, Formworks and RC Works (+7.83) 8) & intermidiate Slab of Falseworks, Formworks and RC Works (+18.9) A Roof Slab of Falseworks, Formworks and RC Works (+18.2mPD) Works (+3.95 to +7.835/+8.2mPD) 'grittrap (+5mPD) late cast and 1.F slab RC Works (+11.8mPD) oorf Slab RC Works (+18.2mPD) s (+7.84/+8.2mPD) des and RC Works (+18.2mPD) grittrap (+5mPD) RC Works s (+11.8mPD) IC Works (+11.8mPD) IC Works (+11.8mPD)	3 3 7 7 7 18 18 18 8 8 8 8 8 8 10 10 10 10	28-May-24 06-Jun-24 11-Jun-24 18-May-24 27-May-24 04-Jun-24 26-Jun-24 26-Jun-24 18-Apr-24 27-Apr-24 08-May-24 22-Apr-24	05-Jun-24 08-Jun-24 13-Jun-24 25-May-24 03-Jun-24 25-Jun-24 17-Jul-24 26-Apr-24 07-May-24	-228 -228 -228 -229 -229 -229 -229 -229	M(AO)-W M(AO)-W MUAC	h typoof, concerts baddil (beloo)- Remove S2 I W(AD)- Wa brypoof, concerts I (WZoneA +4.95 stab) nwork and make good for water MB-W
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8) & Intermidiate Stab of Falseworks, Formworks and RC Works (+1)) & Roof Stab of Falseworks, Formworks and RC Works (+182mPD) Works (+3.95 to +7.835/+8.2mPD) *grittrap (+5mPD) late cast and 1.F. stab RC Works (+11.8mPD) oor Stab RC Works (+18.2mPD) ss (+7.84/+8.2mPD) rds and RC Works (+7.84/+8.2mPD) grittrap (+5mPD) RC Works s (+11.8mPD) IC Works (+11.8mPD)	8 8 10 10 10	27-Apr-24 08-May-24 22-Apr-24	07-May-24		MS (C)-Zone C3 - Wall & Column (+3,95/+4 95 b +7 8 35)& jmSlab of Falseworks,	/ormworks and RC Works (+7 8
) & Roof Slab of Falseworks, Formworks and RC Works (+182mPD Works (+3.95 to +7.835/+82mPD) *grittrap (+5mPD) late cast and 1.F. stab RC Works (+11.8mPD) oorf Slab RC Works (+182mPD) ss (+7.844+82mPD) rks and RC Works (+7.84/+82mPD) grittrap (+5mPD) RC Works ss (+11.8mPD) IC Works (+11.8mPD)	8 10 10 10	08-May-24 22-Apr-24		-160	WS (c)-Zone C3-Viall&Column (+7.83 5b +11.8) & intermidi	
and 1.F slab RC Works (+11.8mPD) coof Slab RC Works (+18.2mPD) ss (+7.84+8.2mPD) rks and RC Works (+7.84+8.2mPD) gifttrap (+5mPD) RC Works ss (+11.8mPD) IC Works (+11.8mPD)	10 10 6			-160	MS (C)-Zone C3-Wall & Column (+118 to +	
and 1.F slab RC Works (+11.8mPD) coof Slab RC Works (+18.2mPD) ss (+7.84+8.2mPD) rks and RC Works (+7.84+8.2mPD) gifttrap (+5mPD) RC Works ss (+11.8mPD) IC Works (+11.8mPD)	10 10 6					(100-DD) 1 10 10 10
oofSlab RC Works (+18 2mPD) s (+7,84+82mPD) rks and RC Works(+7.84/+82mPD) gittap (+5mPD) RC Works s (+11,8mPD) IC Works (+11.8mPD)	10 6	0414-04	03-May-24	-215	MS (D)-Wal, column and intermediate stab RC/Works (+3.95 to +7.83 MS (D)-Wal, column (+7.835+8.2 to +11.8mP	
s (+7,84+82mPD) r/s and RC Works(+7,84/+82mPD) gittap (+5mPD) RC Works s (+11,8mPD) IC Works (+11,8mPD)	6	04-May-24 17-May-24	16-May-24 28-May-24	-189 -189		1.8 to +18.2mPD) and Roof Sla
rks and RC Works(+7.84/+82mPD) grittap (+5mPD) RC Works s (+11.8mPD) IC Works (+11.8mPD)	6					
grittap (+5mPD) RC Works ss (+11.8mPD) IC Works (+11.8mPD)		18-May-24	24-May-24	-232	MS (A)-Wall Endon of Formwo	
s (+11.8mPD) IC Works (+11.8mPD)	12	25-May-24	07-Jun-24	-232		Intermediate Stab of Falsework Intermediate Stab (+7.84/+8.2)
C Works (+11.8mPD)	12 5	25-May-24 08-Jun-24	07-Jun-24 14-Jun-24	-232		MS (A) - Wall Erection of F
e (418 2mPD)	12	15-Jun-24	28-Jun-24	-232		N
s (+182mPD)	5	29-Jun-24	05-Jul-24	-231		
slab)	7	29-Jun-24	05-Jul-24	-289		
		20001124	0000124	-200		
				_		
	6	18-May-24	24-May-24	-196	InletWork-Concrete gain strengt	1 (-4.9/+0.0mPD)
+0.0mPD)	6	25-May-24	31-May-24	-196	hiel Work-Remove	formwork and falsework (-4.9/+(
(4.9H0.0mPD)	12	01-Jun-24	15-Jun-24	-196		InletWork-ABWF Works InletWork-Concrete gain
		and the second sec	a second second second second second			InletWork-R
	12	24-Jun-24	08-Jul-24	-214		
	5		and the second se			ncrete gain strength (Zone D, +1) Jork-Remove formwork and fai
	10	11-Jun-24		-189		InletWork-AB
	7	22-Jan-24A	13-Apr-24	-160	IntelWork-ABWFWorks 1stExtor LVSB instalation (+12.8+18.3mPD)	
i (+6.0/+18.3mPD)	7	27-Jan-24A	27-Apr-24	-150	INITIAL AND A STATE AND A STAT	
		ALC: NO.				
(+11.6mPD)	5	06-Feb-24 A	11-Feb-24 A		stength roofslab (+11.6mPD)	
D to +12.7mPD	6	12-Feb-24 A	16-Feb-24 A			
	3					
	v	101 00-24 A	LUTIONZAA			
	0	25-Mar-24A			◆ TX House No. 1 - E&M Handover	
	32	25-Mar-24A	10-May-24	-123	TX House No. 1-BS & Transformer/Installation	
A REAL PROPERTY OF THE REAL PR	U	11-1Vay-24	The second second	-134	● IA house no.1 - PowerUn	
LVSB)	0		13-Apr-24	-160	♦ IW-E&MHandover@below+18.3mPD (Zone C, LVSB)	
	0		27-Apr-24	-150	♦ W+E&MHandover@below+11.8mPD (Zone C, DOU)	
	0		21-Jun-24	-189		♦ IW-E&MHa
	30	29-Apr-24	04-Jun-24	-150	LALG instala	lon
	45	05-Jun-24	29-Jul-24	-150		
		11 1 1	0014			
	36					
	36	15-Apr-24	28-May-24	-160	Station Installation	
	36	15-Apr-24	28-May-24	-137	UPS System	
nTXNo.1 b LVSB	24	29-Apr-24	28-May-24	-160		nent&Cabling Works from TX N Norks (TX to LV/SB)
	7	29-May-24 05-Jun-24	04-Jun-24 13-Jun-24	-143	lemnatori	Energization & SAT of LVSB
	2 THE					
ainht 1 m buildeanda 2d fil-1 d a baanfan - 7d bat 7d		20.5-6.044	1016-044		PST_Whiter Technology and Control for the second state of the seco	
eign⊨in,buikneag=2d,ni=1d,absopiion=7d,test=7d,remove=1d) (8	29-Feb-24 A	10-Mar-24 A		roi-vieler iginness iesto iniecojanneijweerneight=1m,bulkhead=20,1ll=1d,absoptojn=/djest=7d,remove=1d)@+7.8	
	COLUMN ST					
w PST - Structure						
	-					
Remaining Level of Ef		Cont	ract	DC	019/10 - YI FPP - Main Works for Stage 1 Project ID : D	WPr36_240416
Actual Work		Joint	aut	001	Layout: DC2	01910 MPR41-3M
Remaining Mark			a			
		IV	onth		gress Report No. 41- 3MRP (Mar 24)	
	w PST - Structure Remaining Level of Ef	DA460mPD) 6 +4.0A60mPD) 12 SA183mPD) 5 neD,+11.8A183mPD) 5 eD,+11.8A183mPD) 10 on (+12.8A18.3mPD) 7 on (+2.8A18.3mPD) 7 on (+2.8A18.3mPD) 6 0 32 0 32 0 32 0 30 30 45 36 36 36 36 37 38 38 38 39 39 39 36 39 36 39	D#6.0mPD) 6 17-Jun-24 #4.0/#6.0mPD) 12 24-Jun-24 SA18.2mPD) 5 29-May-24 ne D, +11.8/+18.3mPD) 5 04-Jun-24 on (+12.8/+18.3mPD) 7 27-Jan-24A on (+12.8/+18.3mPD) 7 27-Jan-24A on (+12.8/+18.3mPD) 7 27-Jan-24A b (+11.6mPD) 5 06-Feb-24A b (+11.6mPD) 5 06-Feb-24A b (+11.6mPD) 5 06-Feb-24A column + 12.7mPD 6 12-Feb-24A doi: 122-StMar-24A 3 column + 12.7mPD 6 12-Feb-24A doi: 11-May-24 3 column + 12.7mPD 6 12-Feb-24A doi: 11-May-24 3 column + 12.7mPD 0 11-May-24 column + 12.7mPD 0 3 column + 2 3 15-Apr-24 column + 2 3 15-Apr-24 column + 2 38 15-Apr-24 colum	DA650mPD) 6 17-Jun-24 22-Jun-24 V4.DA650mPD) 12 24-Jun-24 08-Jul-24 DA4183mPD) 5 29-May-24 03-Jun-24 ne D, +118A+18.3mPD) 5 04-Jun-24 08-Jun-24 on (+128A+18.3mPD) 10 11-Jun-24 21-Jun-24 on (+128A+18.3mPD) 7 22-Jan-24A 13-Apr-24 on (+128A+18.3mPD) 7 27-Jan-24A 27-Apr-24 b (+116mPD) 7 22-Jan-24A 13-Apr-24 b (+116mPD) 5 06-Feb-24A 11-Feb-24A D b +12.7mPD 6 12-Feb-24A 15-Feb-24A 32 25-Mar-24A 23-Mar-24A 23-Mar-24A 32 25-Mar-24A 10-May-24 10-May-24 33 14-Feb-24A 10-May-24 10-May-24 34 11-May-24 10-May-24 10-May-24 34 11-May-24 10-May-24 10-May-24 34 11-May-24 10-May-24 10-May-24 35 15-Apr-24 29-	DAP65mPD) 6 17-Jun-24 22-Jun-24 214 +420+65mPD) 12 24-Jun-24 06-Jul-24 214 SA183mPD) 5 29May-24 03-Jun-24 189 ne D, +112/H33mPD) 5 04-Jun-24 189 11-Jun-24 189 Dn (+122/H183mPD) 7 27-Jun-24A 13-Apr-24 -160 nn (+52/H183mPD) 7 27-Jun-24A 13-Apr-24 -160 nn (+52/H183mPD) 7 27-Jun-24A 15-Feb-24A 160 nn (+52/H183mPD) 5 06-Feb-24A 11-Feb-24A 150 b(+115mPD) 5 06-Feb-24A 15-Feb-24A 160 D1 11-Jun-24 13-Apr-24 -150 12 D2 b+127mPD 6 12-Feb-24A 15-Feb-24A 160 32 25-Mar-24A 10-Mar-24 -123 14 0 11-Mary-24 -123 13 14 0 25-Mar-24A 10-Mary-24 -123 0 11-Mary-24 -150 13 14 0 11-Mary-24 -160 <t< td=""><td>Def Carbony 0 1 T-June 3 22-June 4 44 AudeSchurgfort 12 22-June 4 44 1 <th1< th=""> 1 1 <</th1<></td></t<>	Def Carbony 0 1 T-June 3 22-June 4 44 AudeSchurgfort 12 22-June 4 44 1 <th1< th=""> 1 1 <</th1<>

保華-中國中鐵聯營體 PAUL Y.-CREC JOINT VENTURE

Milestone

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July 45		August 46		September 47
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essTestPhase 1				
WB-WaterTightne	ss lestPhase 2			
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Works(+11.8mPD)				
is and RC Works (+ 18.2mPD)				
		•••••		
s (+182mPD)				
		•••••		
rks and RC Works(+7,84/+8,2mPD)				
grittrap (+5mPD) RC Works Ind RC Works (+11.8mPD)				
Slab of Falseworks, Formworks and RC \	Norks (+11.8mPD)			
IWS (A) - Wall Erection of Formworks and	RC Works (+182mPE))		
IWB - Concrete develop strength (W Zon	eA+11.8 slab)			
				····•
asementFloor (-4.9/+0.0mPD)				
+4.0/+6.0mPD)				
mwork and falsework (+4.0/+6.0mPD)				
mwork and falsework (+4.0/+6.0mPD) InletWork-ABWF Works 1st fix @ G	Floor (+4.0/+6.0	mPD)		
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hletWork-ABWF Works 1stfix@ G PD) ne D, +11.8/+18.3mPD)		mPD)		
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InterWork-ABWF Works 1ettic@ C iPD) ne D, +11.8/+18.3mPD) 1stlr@FirstFloor (Zone D, +11.8/+18.3r elow+18.3mPD (Zone D)	nPD)	mPD)		
InterWork-ABWF Works 1ettic@ C iPD) ne D, +11.8/+18.3mPD) 1stlr@FirstFloor (Zone D, +11.8/+18.3r elow+18.3mPD (Zone D)	nPD)	mPD)		
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InterWork-ABWF Works 1ettic@ C iPD) ne D, +11.8/+18.3mPD) 1stlr@FirstPloor (Zone D, +11.8/+18.3r elow+18.3mPD (Zone D)	nPD)	mPD)		
InterWork-ABWF Works 1ettic @ C IPD) ne D, +11.8/+18.3mPD) 1stic @ First Ploor (Zone D, +11.8/+18.3r stow+18.3mPD (Zone D)	nPD)	mPD)		
hetWork-ABWF Works 1eth @ C iPD) ne D, +11 8/-18.3mPD) 1eth @ Finit Floor (Zone D, +11.8/-18.3r elow+18.3mPD (Zone D) 8	nPD)	stallation		
InterWork-ABWF Works 1etting C (PD) ne D, +11.8/+18.3mPD) 1etting Finis/Floor (Zone D, +11.8/+18.3r elow+18.3mPD (Zone D) 8	nPD)	statistics		
hetWork-ABWF Works 1etbr@ 0 PD) ne D,+11.8/+18.3mPD) 1stbr@ FinsiFloor (Zone D, +11.8/+18.3r elow+18.3mPD (Zone D)	nPD)	statistics	- 3MRP Checked	Approved
InterWork-ABWF Works 1etbrog C iPD) ne D, +11.8/+18.3mPD) 1stiru@ FirstPloor (Zone D, +11.8/+18.3r elow+18.3mPD (Zone D) source and the second	nPD)	statistics		Approved
InterWork-ABWF Works 1etting 0 PD) ne D, +11.8/+18.3mPD) 1stbog First Ploor (Zone D, +11.8/+18.3m slow+18.3mPD (Zone D)	nPD)	statistics		Approved
InterWork-ABWF Works 1etting 0 PD) ne D, +11.8/-18.3mPD) 1sting FirstPoor (Zone D, +11.8/-18.3r slow+18.3mPD (Zone D)	nPD)	statistics		Approved

Activity		Dur	Early Start	Early Finish	Total Float	41 03 10 17 24	42 31 07 14 21	43 28 05 12 19 26	44 02 09 16 23
hamber A					6		System-ChamberA-Water test and tank coaling		
and a second	Pumping System - ChamberA - Water test and tank coaling Pumping System - ChamberA - E&MInstallation and T&C	5	15-Mar-24 A 20-Mar-24 A	22-Mar-24A 17-Apr-24	-48	temp.Pumpin		tem-ChamberA-E&MInstallation and T&C	
dified Chamber of Zon			201081-2474	1770124	40				
and the second s	Pumping System - Modified Chamber of Zone 2A diversion - ELS	5	23-Feb-24 A	05-Mar-24A		Temp.Pumping System - Modified Chambe			
D-4460 Temp.P	Pumping System-Modified Chamber of Zone 2A diversion - Structure	12	06-Mar-24A	26-Mar-24A		Temp.	Pumping System - Modified Chamber of Zone 2A dive	ersion - Structure	
porary Pumping Fa	acilities for Conveying Sewage to New PST - Pipeworks								
and the second	Pumping System - Pipeworks (Stage 1a) (DN1200 sewage pipe from Zone 1 Diversion to ChamberA)	14	01-Feb-24 A	28-Mar-24A			np. Pumping System - Pipeworks (Stage 1a)(DN1200		
	Pumping System - Pipeworks (Stage 6)(DN200)2 studge&scum)	14	21-Feb-24 A	28-Mar-24A		Te	np. Pumping System-Pipeworks (Stage 6)(DN200x2		aum) affarmad da atACD
	Pumping System - Pipeworks (Stage 4)(DN1000 outflow+DN200x2 sludge&scum) after road div.atAGS	20	28-Feb-24 A	13-Apr-24	-45			ipeworks (Stage 4)(DN1000 outflow+DN200x2 sludge& ipeworks (Stage 3)(DN800 outflow to modified chamber	
	Pumping System - Pipeworks (Stage 3)(DN800 outflowto modified chamber+DN200x2 sludge&scum)	9	05-Mar-24 A	13-Apr-24	-45	Tomo Rumina Sut	emp. Pumping System - Pipeworks (Stage 5)(DN800 overflow)	the works (stage 3)(b) record outlow to modified charmen	
the state of the second se	Pumping System - Pipeworks (Stage 5)(DN800 overflow) Pumping System - Pipeworks (Stage 2)(DN800 inflow+DN200x2 studge&scum)	8	06-Mar-24 A 08-Mar-24 A	18-Mar-24A 13-Apr-24	-45	remp.Pamping Sys		peworks (Stage 2)(DN800 inflow+DN200x2 studge≻	; m)
Stage 1 - Early T&C	runiping oyaem-ripewons longe z/privou milow-prizousz sinageoscum)	0	U0HVRI-24A	13401-24	43			in a serie of the series of th	
p Pumping System	n T&C*								
and a second part of the second s	age 1 - Temp T&C for Decommision of Existing PST 1 Relia bility&Performance Test (Sewage)	14	21-Apr-24	04-May-24	-64			PST Stage 1 - Temp T&C for Decommision of	Existing PST 1 Relia bility&Performance Test (Seve
	age 1 - Ready for Decommision of Existing PST2, 3 Reliability&Performance Test (Sewage) (no T&C required)	0		04-May-24	-64	-		PST Stage 1 - Ready for Decommission of Exit	ing PST2, 3 Reliability&Performance Test (Seway
Stage 1									
Stage 1 - ABWF W	Vorks								
T1-3, Outlet channel									
utiet									
a second data and the second data and the second data	age 1 - Constructemporary well with puddle	14 9	02-Mar-24 A		10	PSISag	1 - Constructiemporary wall with puddle DST Shap 1 - Samodia	g'and Lining at outlet channel	
PST-3345 PST Sta A-H above +11.8mPD	tage 1-Screeding and Lining atoutlet channel	9	05-Apr-24	15-Apr-24	-46		For obje 1=outeuin		
	age 1 - ABWF Works (wall renderspray=1d, let dry=5d) at + 11.8/+18.15mPD	6	02-Apr-24	09-Apr-24	15		PSTStage 1-ABWF Works (well re	enderspray=1d.jet-dry=5d) at+11.8/+18.15mPD	
	age 1-ABWF Works (wall plaster 3 coats) at +11.8/+18.15mPD	2	10-Apr-24	11-Apr-24	15			all plaster:3coats) at +11.8/+18,15mPD	1
and the second se	age 1-ABWF Works (floor screeding) at+11.8/+18.15mPD	3	12-Apr-24	15-Apr-24	15	-	PST Stage 1-ABWFW	orks (floor screeding) at +11,8/+18,15mPD	
and the second se	age 1-ABWF Works (floor coaling 3 coals) at+11.8/+18.15mPD	3	16-Apr-24	18-Apr-24	15		PSTStage 1 - ABV	NF Works (floor coating 3 coats) at + 11.8/+ 18.15 mPD	
t channel*	÷	-				· ·			
	tage 1 - Lining at inlet channel (surface prep=1d install=1d,testing=1d)*	4	13-Apr-24	17-Apr-24	-48	1	PST Stage 1 - Uning	atinlet channel (surface prep=1d instal=1d,testing=1d)	
mp room *		100			_				
and the second	tage 1 - Strike formwork and falswork	6	01-Feb-24 A	14-Feb-24 A		work and falswork			
and a start of the second s	tage 1-Site clearance for handover	2	15-Feb-24 A	17-Feb-24A		dearance for handover			
Stage 1 - E&M Inst use 1 (GLA-H, PST1-3									1
and the second	allation Works at Setting Zone (PST1-3)								1
ST1			and the second second	States and the					1
PST1-Inclined Plate 3	Settling System	N. C. Star	S LOUISE	No. All Street					1
ATALPST- PST Sta	tage 1 - PST1 -Air Scouring Pipe and Nozzle Installation c/w pressure test & inspection	21	28-Feb-24 A	15-Apr-24	-108		PST Stage 1 - PST1 - A	ir Scouring Pipe and Nozzle Installation owpressure test	
PST3325 PSTSta	tage 1-PST1 -Installation of removable walkway at+92mPD	7	06-May-24	13-May-24	-118				idn of removable walkway at+92mPD
ATALPST- PST Sta	tage 1 - PST1 - Water Spray Pipe and Nozzle Installation of w pressure test & inspection	11	14-May-24	27-May-24	-119			PS1	Stage 1 - PST1 - Water Spray Pipe and Nozzle In
PST1-Bottom Scrap	per System					<u>.</u>		Total DOTE but be all the second	
state of the second	lage 1-PST1 -Installation of bottom scraper frame, link arm and drive unit, leveling and inspection *OT vorks	20	28-Feb-24 A	27-Apr-24	-119		P	ST Stage 1 - PST1 - Installation of bottom scraper frame, PST Stage 1 - PST1 - Wet Test (Fresh water) (
AIALPSIK PSISE	tage 1-PST1-WetTest (Fresh water) (7d)	6	29-Apr-24	04-May-24	-150			For oage 1-For - We lest (Flesh Wale) (4)
ATALPST- PST St	tage 1-PST1 - Soum Scraper, Soum Collection Pipe & All other process pipework at inspection platform level *01	20	28-Feb-24 A	20-Apr-24	-113		PST Stage 1-I	PST1 - Sourn Scraper,Sourn Collection Pipe & All other p	rocess pipework at inspection platform level *OT
and the second se	s , Air blowers c.lw.a.ss.ociated fillings								1
	tage 1 - PST1 - All other process pipes above 11.8 mPD including DO Rpes, Plant Se wice Water Pipes, Air Pipe	24	28-May-24	25-Jun-24	-119				P
PST2					(Second				
PST2-inclined Plate S	SettlingSystem								
and the second	tage 1-PST2-Installation of Lamella support beam pre-assembled module(16nos), Flume(96nos), plate(1152r	42	16-Jan-24A	30-Apr-24	-170			PST Stage 1 - PST2 - Installation of Lamella support	peam.pre-assembled module(16nos.),Flume(96n ge 1 - PST2 - Air Scouring Pipe and Nozzle Instal
	tage 1 - PST2-Air Scouring Pipe and Nozzle Installation of pressure test & inspection tage 1 - PST2 Installation of removable walkway at +92mPD	20	02-May-24 26-Jun-24	25-May-24 04-Jul-24	-151	-		Polo	ige 1 - PS 12 -Air Scouning Pipe and Nozze Instal
	varye 1-roliz inskalkation on rennovable trainvikay at tozinir bi ner Sustam		20-0011-24	04-50-24	-109			· [· · · · · · · · · · · · · · · · · ·	
ATALPST- PST Sta	age 1 - PST2 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection	38	02-May-24	17-Jun-24	-169				PSTStage 1-P
and the subset of the limit of the subset of	lage 1 - PST2 We tTest (Fresh water) (7d)	7	18-Jun-24	25-Jun-24	-169	1		1	P
PST2-Scum Collection	ion System	10.31							
ATALPST- PST Sta	tage 1 - PST2 - Scum Scraper, Scum Collection Pipe & All other process pipework at inspection platform level	26	02-May-24	01-Jun-24	-157				PST Stage 1-PST2-Sourn Scraper,Sourn C
PST3					Section and				
PST 1 - Inclined Plate S	Settling System	-		Charles Color					
	tage 1 - PST3 - Air Scouring Pipe and Nozzle Installation of w pressure test & inspection	18				PST Stage 1 - PST3-Air Scouring Pi	e and Nozzle Installation dwpressure test & inspection		n of remainable we found at +0.2mpp
and the second se	tage 1 - PST3 Installation of removable walkway at +92mPD tage 1 - PST3 - Water Spray Pipe and Nozzle Installation c/w pressure test & inspection	7	06-May-24 14-May-24	13-May-24 27-May-24	-118 -119				n of removable walkway at +9.2mPD Stage 1 - PST3 - Water Spray Pipe and Nozzle In
Part Parts	egy in the reason open y hipe and reaze assessment whitessure assessments a inspection	n	14-may-24	21-1VBy-24	-119			Po	Vego 1 - Fo to - veset optay ripe and Wozzle I
ATALPST + PSTSt	tage 1 - PST3 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection	17	16-Feb-24 A	28-Mar-24A		PST	Stage 1 - PST3 - Installation of bottom scraper frame,	ink arm and drive unit, leveling and inspection	1
and a second processing of the second s	lage 1-PST3 We (Test (Fresh water) (7d) using temporary power from 1600A transformer room	6	15-Apr-24	20-Apr-24	-136			PST3 WetTest (Fresh water) (7d) using temporary power	forn 1600Atransformer room
PST 3 - Scum Collecti	ion System		Contraction of the second	TOUTET					[
ATALPST- PST Sta	age 1-PST3-Soum Scraper,Soum Collection Pipe & All other process pipework at inspection platform level	17	16-Feb-24 A	13-Apr-24	-107	1	PST Stage 1-PST3-Scurr	n Scraper, Scurn Collection Pipe & All other process piper	wirk at inspection platform level
PST1-Compressors	s "Air blowers c./w.a.ss.ockated fittings								
sector in the sector of the sector is the se	tage 1-PST3-All other process pipes above 11.8 mPD including DO Rpes, Plant Service Water Pipes, Air Pipe	25	28-May-24	26-Jun-24	-119	1		-	
ST Stage 1 - Outlet Cha									
	tage 1-Leakage test-Combining StoplogsPenstocks	7	21-Mar-24 A	03-Apr-24	-46		PST Stage 1 - Leakage test-Combining Stop	biogs/r-ensibcks	4
	aannel, Pump Room) Handover for PST early commissioning * lage 1 - E&M Handover below +7,835mPD (GL HL, pump room)		19-Feb-24 A		-	&MHandover below+7,835mPD (GLH-I, pump room)			
	lage 1 - E&MHandover below + 7,835mPD (GLHH, pump room) lage 1 - E&MHandover + 7,835mPD (GLHH, Inlet channel)	0	19-Feb-24 A 20-Mar-24 A		-		MHandover+7.835mPD (GLHH, Inletchannel)	· · · · · · · · · · · · · · · · · · ·	
	age 1 - E&MHandover + 11,75mPD & above (GLH-I, Inlet channel)	0	02-Apr-24 A		-74	♥ For oxy01+E0	 PST Stage 1 - E&MHandover+11.75mPD & ab 	ove (GLH-Unletchannel)	
ST Stage 1 - Inlet Chan		-				1		1	1
	lage 1 - Unloading of Stoplogs & Penstocks x 14 Nos.	5	21-Mar-24A	23-Mar-24A		PSTStage 1	Unloading of Stoplogs & Penstocks x 14 Nos.	1	1
	tage 1-Installation of Penstocks x 5 Nos(5d/ho/gang, 1gang)	24	21-Mar-24 A	03-Apr-24	-47		PST Stage 1 - Installation of Penstocks x 5 No		
	age 1 - Installation of Stoplogs x 9 Nos.(5d/no./gang, 2gang)	24	21-Mar-24 A	03-Apr-24	-47		PST Stage 1 - Installation of Stoplogs x 9 Nos.		
	tage 1 - Channel Aeration System installation	32	21-Mar-24 A	08-Apr-24	1122		PSTStage 1-ChannelAeration Sys	***************************************	
	tage 1 - Inspection & Grouting of Penstocks x 5 Nos	5	02-Apr-24	08-Apr-24	-48		PST Stage 1 - Inspection & Grouting		
	age 1 - Inspection & Grouting of Stoplogs x9 Nos.	5	02-Apr-24	08-Apr-24	-48		PST Stage 1 - Inspection & Grouting		
STStage 1 - Pump Roc	age 1 - Leakage test-Combining Stoplogs/Penstocks	4	09-Apr-24	12-Apr-24	-48		PST Stage 1 - Leakage test -	Comuning Suppogsitensiocks	
ATALPST-56 PST Sta		14	19-Feb-24 A	24-Feb-24 A	-	age 1-LALG Works			
	age 1-PSTDrainage Pipe	25	19-Feb-24 A	24-Feb-24 A 06-Mar-24 A		PST Stage 1 - PST Drain age Pipe			
	age 1 - Studge Pumps & Grinder for PST3	6	07-Mar-24 A	16-Mar-24A		PST Stage 1 - Sludge P	mps & Grinder for PST3		1
	age 1 - Sludge Pumps & Grinder for PST1&2	12	18-Mar-24A	13-Apr-24	-48		PST Stage 1 - Sludge Pum	ps & Grinder for PST1&2	
the second se	age 1 - Scum Pumps & Drainage Pumps for PST3	6	18-Mar-24 A	03-Apr-24	-37		PST Stage 1 - Scum Pumps & Drainage Purr		
	age 1 - All other process pipework inside Pump Room c/w pressure test for PST3	6	18-Mar-24 A	03-Apr-24	-37		PST Stage 1 - All other process pipework insid]
	age 1 - Scurn Pumps & Drainage Pumps for PST1&2	12	15-Apr-24	27-Apr-24	-51	1		ST Stage 1 - Scum Pumps & Drainage Pumps for PST1	
	age 1-All other process pipework inside Pump Room c/w pressure test for PST1&2	12	15-Apr-24	27-Apr-24	-51	E .	P	ST Stage 1 - All other process pipework inside Pump Roo	m c/wpressure test for PST1&2



Remaining Level of Ef... Actual Work Remaining Work Critical Remaining Work Milestone

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Contract DC/2019/10 - YLEPP - Main Works for Stage 1 Monthly Progress Report No. 41- 3MRP (Mar 24) Project ID : DWPr36_240416 Layout : DC201910 MPR41-3MRP Page 5 of 8

July 45	_	A	46	September 47
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ure test & inspection				
				1
-All other process pipes above 1		cluding DO Pipes, Plant		
-All other process pipes above 1	1.8mPD n	oluding DO Apes, Plant	Se Moe Water Pipes, Ai	rPipe
) netě inenaction				
, est&inspection Stage 1 - PST2 Installation of rer	movable vi	alkway at+92mPD		
bottom scraper frame, link arm a				
WetTest (Fresh water) (7d)	ind drive ut	in, leveling and inspector		
Wet lest (Fresh water) (/ d)	10000			
other process pipework at inspec	ction platfor	m level		
	ction platfor	m level		
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other process pipework at inspec	cion platfor	m level		
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other process pipework at inspec			tSenice Water Pipes,	4-Pipe
other process pipework at inspec ure test& inspection			it Senice Water Pipes,	Nr Pipe
other process pipework at inspec ure test& inspection			it Senice Water Pipes,	Nr Pipe
other process pipework at inspec ure test& inspection			it Service Water Pipes,	AirPipe
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other process pipework at inspec ure test& inspection			ISenico Water Pipes,	Al-Pipe
ofter process pipework at inspector	• 11.8mPD	Including DO Pipes, Plat		Al-Pipe
ofter process pipework at inspection	• 11.8mPD	Including DO Pipes, Plan	port - 3MRP	
other process pipework at inspection 3-All other process pipes above 3-All other process pipes above M Date	in simpo	heluding DO Rpes, Pla		Approved
ofter process pipework at inspection	• 11.8mPD	heluding DO Rpes, Pla	port - 3MRP	

	Orig Dur		Early Finish	Total Float	41 03 10 17 24 31	42 1 07 14 21 28	43 05 12 19 26	44 02 09 16 23 3
PSTStage 1 - Electrical Works (PST1-3, Inlet/Outlet Channel& Pump Room)				-				
ATALPST-56/ PST Stage 1 - Electrical Works - Cable Containment hstalls ton - LVSB@Wto Equipment	26	22-Jun-24	23-Jul-24	-160				
PSTStage 1-Instrumentation & SCADAWorks (PST1-3, Inlet/Outlet Channel & Pump Room) ATALPST-57; PSTStage 1-SCADA-Cable Containment Installation -LVSB@Wtb Equipment	39	22-Jun-24	07-Aug-24	-188				
PST Stage 1 - BS Works (PST1-3, Inlet/Outlet Channel & Pump Room)								
ATALPST-576 PST Stage 1 - ELV Works	85	06-May-24	15-Aug-24	430				
ATALPST-578 PST Stage 1 - EL Works	85	06-May-24	15-Aug-24	341				
ATALPST-579 PST Stage 1 - FS. Works	86	12-Jun-24	21-Sep-24	399				
2ST Stage 1 - T&C Works PST Stage 1 - T&C Works (PST 1-3, Inlist / Outlist Channel & Pump Room)								
Phase 1 - PST 1-3 sub-System Physical Dry Check				-				
ATALPST-58: PST Stage 1 - Energization	6	06-Jun-24	13-Jun-24	-100				PST Stage 1 - Energization
Phase 3 - PST 1-3 Sub-System Wet Test (On load Performance, Endurance Test) (Fresh Water)								
ATALPST-69/ PST Stage 1 - Inlet/Pump Room/Outlet Wet Test (Fresh water) (7d)	6	29-Apr-24	04-May-24	-64			PST Stage 1 - Inlet/Pump Room/Outlet Wet Test	t (Fresh water) (7d)
ternal Works - Inlet Work and Primary Sedimentation Tank Perimeter		181386		2 6 11 10				
/PST External Works - Zone A (Transformer House No.1)								
Stage 1 (KD3) EW-1980 M/PSTPerimeter - Cross road duct at Tx1	6	02-Apr-24*	09-Apr-24	-103		W/PST Perimeter - Cross road ductatTxt		
EW-1700 W/PST Perimeter-Cabing works from DSD11KV to Tx1	6	10-Apr-24	16-Apr-24	-103		WPSTPerimeter-Cabling		
dge Dewatering Building (SDB)	COLUMN TO A	1014121	ion pi an					
B Foundation & ELS - Stage 1								
B Preliminaries for Foundation Works			LUCST LATER D					
emolition of Existing PST1, 2, 3, 4								
SDB-1880 SDB - Trial pittrench and UU Diversion for sheetpile and driven h-pile works	96	04-Dec-23 A	11-May-24	-23			SDB - Trial pittench and UU Diver	sion for sheetpile and driven h-pile works
SDB-1000 Site Hoarding, Clearance, Temp Facilities	18	13-Apr-24	04-May-24	629			Site Hoarding, Clearance, Temp Facilities	
SDB-1310 Access Date to Portion 3	0		04-May-24	775			Access Date to Portion 3	
Demolition of Existing PST4	1		1	-				
SDB-2040 SDB - Site clearance for demoif on of PST4	3	08-Feb-24 A	09-Feb-24A	-	bfPST4	orfen hefen med disprint or delte abox		
SDB-2050 SDB - Demoifion of Existing PST 4 (portion before road diversion and pipe plug) SDB-2030 SDB - Early sheeipile for SDB at PST4	16	21-Feb-24 A 29-Feb-24 A	12-Mar-24A 08-Mar-24A	-	SDB-Demoliton of Existing PST 4 (por SDB-Early sheetpile for SDB at PST4	ortion before road diversion and pipe plug)		
SDB-2030 SDB-Eany sheepile for SDB at PS14 SDB-1320 SDB-Pipe plug at Existing PST4	4	29-Feb-24 A 15-Mar-24 A	08-Mar-24A 16-Mar-24A		SDB-Eany sneeple for SDB aLPS 14	T4		
SDB-1800 SDB-Backling of Existing PST4	2	19-Mar-24 A	21-Mar-24A		SDB-Backfiling of Exis			
SDB-2010 SDB - Road diversion at AGS Zone C	1	15-Apr-24	15-Apr-24	-5		SDB-Road diversion at AGS	Zone C	
SDB-1100 SDB - Demotifion of Existing PST4 (portion after road diversion and pipe plug)	4	16-Apr-24	19-Apr-24	-5		SDB-Demolition of Ex	isting PST4 (portion after road diversion and pipe p	lug)
Demolition of Existing PST1			Second Second		1			
SDB-1960 SDB-Decommissioning of Existing PST1	6	06-May-24	11-May-24	-50	[SDB - Decommissioning of Existin	
SDB-1970 SDB - Demolition of Existing PST1	18	13-May-24	03-Jun-24	-50				SDB-Demolition of Existing PST1
SDB-1980 SDB-Backfiling of Existing PST1 emolition of Existing PST28.3	3	04-Jun-24	06-Jun-24	-50				SDB-Backfilling of Existing PST1
SDB-1810 SDB-Decommissioning of Existing PST2, 3 & remaining chamber&pipe	6	06-May-24	11-May-24	-50			SDB-Decommissioning of Existin	g PST2, 3 & remaining chamber&pipe
SDB-1820 SDB - Demolition of Existing PST2, 3 & remaining chamber&pipe	18	13-May-24	03-Jun-24	-50				SDB-Demolition of Existing PST2, 3 & remaining
SDB-1830 SDB - Backtilling of Existing PST2, 3 & remaining chamber&pipe	3	04-Jun-24	06-Jun-24	-50				SDB-Backfilling of Existing PST2, 3 & remains
B Gl-Pre-drilling Works				1				
DBAtPST4 and Existing Road								
SDB-1030 SDB-PD22 relocated	12	01-Feb-24 A	20-Feb-24 A		located			
SDBAtPST1,23 Footprint								
DB-1130 SDB-PD14 w/obstruction (PST3) relocated	12	31-Jan-24 A	20-Feb-24 A		Abstruction (PST3) relocated			
SDB-1160 SDB-PD18 Wobstruction (PST3) relocated	12	08-Feb-24 A	01-Mar-24A	_	SDB-PD18 w/obstruction (PST3) relocated			
SDB-1150 SDB-PD17 w/obstruction (PST3) relocated DB Foundation -PST1-4 Footprint	12	15-Mar-24 A	05-Apr-24	7		SDB-PD17 w/obstruction (PST3) relocated		
DB Foundation - Driven H-Pile								
SDB-1920 SDB - Driven H-piles mobilization	6	22-Mar-24 A	28-Mar-24A	1	SCB-Driv	niven H-piles mobilization		
SDB-1940 SDB - Driven H-piles (SDB18nos, 1044m @48m/d/fig, 1 rig after PST4 demolish) no trial pile required	22	02-Apr-24	27-Apr-24	153			riven H-piles (SDB18nos,1044m @48m/d/tig, 1rig	after PST4 demolish) no trial pile required
SDB-2080 SDB - Driven H-piles 2nd mobilization (after existing PST demolished)	6	07-Jun-24	14-Jun-24	-50				SDB - Driven H-piles 2nd mot
SDB-1170 SDB - Driven H-piles (SDB315nos, 18270m @48mkthig, 4rigs after PST1, 2,3& remaining chamber&pipe demolish)	96	15-Jun-24	08-Oct-24	-50				
mal Works								
kway Across Tai Tseng Wai Nullah				Real I				
P-1570 Wakway-Predidi (Inos.MAPD1)	12	02-Apr-24*	16-Apr-24	603		Wakway-Predrill (In os. MA	+PD1)	
2 Construction	C. Ball	and a set	and the second	and the second				
olition Works								
r Existing Pumping Stations								
Mary Pumping Stations	1		1 and the second	-				
2T-150 B20 Demolfion of Auk lia ry Pumping Station (19) below ground site rtmethod	60	02-Apr-24	14-Jun-24	-193				Demolifion of Auviliary Pumpi
stream Blo-Reactor & Auxillary Facility (MBR and AF)								į.
and Ar Structure R -ELS Excavation & Demolition stage 2	11111			0.00 23				
RAF-4010 MBR - Pumping Test(Stage 1b) dewater to -9.0mPD		24-May-24	01-Jun-24	-210				MBR - Pumping Test (Stage 1b) dewater to -9.0 mPD
SR - ELS Zone A	3	6-1100/129	01-041-24	-210				- uniter - camping restorate intoewater o -a TUMG
xcavation and Demolition								
IBRAF-1640 MBR - Zone A-Strutinstallation S2 (+2.3mPD)(1 crane, 8welders, 24bn/d)	18	16-Feb-24 A	25-Mar-24A	-	MBR - Zone A-	A-StrutInstallation S2 (+2,3mPD)(1 crane, 8welders, 24	4bn/d)	
MBRAF-2490 MBR - Zone A - Installation of steel deck	14	16-Feb-24 A	28-Mar-24A			Zone A-Installation of steel deck		
VBRAF-3480 MBR - Zone A- Preloading Strut S2 (5 cycles, 5 struts/cycle/day)	3	26-Mar-24 A	28-Mar-24A		MeR-Zor	Zone A- Preloading Strut S2 (5 cycles, 5 struts/cycle/day	0	
MBRAF-3280 MBR - Zone A-ELS Excavate (+1.75 to to -1.25mPD)(7800m3) (3-4 excavators, 500m3/d)	16	02-Apr-24	20-Apr-24	-206			Excavate (+1.75 to to -1,25mPD)(7800m3) (3-4 exc	
APPAR 1860 LED Taxes Conduct Later C2 / 0 TerDOV/1 among Suchan 244-140	10	15-Apr-24	25-Apr-24	-206			e A-Strut Instaliation S3 (-0,7mPD)(1 crane, 8welder	
	3	26-Apr-24	29-Apr-24	-206		MBR	2 -Zone A- Preloading Strut S3 (5 cycles, 5 struts/cy	
MBRAF-3490 MBR - Zone A - Preloading Strut S3 (5 cycles, 5 struta/cycle/day)		26-Apr-24 02-May-24	10-May-24	-137 -207			MBR - Zone A - Toe grout for 323 pip	
MBRAF-3490 MBR - Zone A - Preloading Strut S3 (5 cycles, 5 strutskyclektay) MBRAF-3710 MBR - Zone A - Toe grout for 323 pipe pile	12	U2-May-24	20-May-24 25-May-24	-207	 			S Excavation (-1.25 to -4.15mPD)(7540m3)(3-4 excava
MBRAF-3490 MBR - Zone A- Prebading Shut S3 (5 cycles, 5 shutskydektay) MBRAF-3710 MBR - Zone A- Toe grout for 323 pipe pile MBRAF-1670 MBR - Zone A- ELS Excavation (-1.25 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD	15							one A-Strutinstallation S4 (-3.6mPD)(1 crane, 8welders, BR -Zone A- Trial pumping pit (4nos., -5 to -7.6mPD) &
MBRAF-3490 MBR - Zone A- Preloading Strut S3 (5 cycles, 5 strutskycletday) MBRAF-3710 MBR - Zone A- Toe grout for 323 pipe pile MBRAF-1670 MBR - Zone A- ELS Excavation (-1.25 to -4.15mPD)(7540m3)(3-4 excavations, 500m3kd) *MD MBRAF-1680 MBR - Zone A- Struthstallation S4 (-3.6mPD)(1 crane, 8-welders, 24ton.td)		11-May-24		-198				
MBR -Zone A- Preloading Strut S3 (5 cycles, 5 strutskycketkay) MBRAF-3710 MBR -Zone A- Toe grout for 323 pipe pile //BRAF-1670 MBR -Zone A- ELS Excavation (1 25 to 4.15mPD)(7540m3)(3-4 excavators, 500m3kt) *MD //BRAF-1680 MBR -Zone A- Struthstalation \$4 (-3.6mPD)(1 crane, 6.wekders, 24ton.kt) //BRAF-3930 MBR -Zone A- Trial pumping pit (4nos, -5 to -7.6mPD) & Stage 1b Pumping Test (to -9.0mPD)	15 12		29-May-24 29-May-24	-198 -198				
MBRAF-3490 MBR - Zone A - Prebading ShutS3 (5 cycles, 5 stutskyclektay) MBRAF-3710 MBR - Zone A - Tee groutfor 323 pipe pile MBRAF-1670 MBR - Zone A - ELS Excavation (-1.25 to -4.15mPD)(7540m3)(3-4 excavators, 500m34d) *MD MBRAF-1680 MBR - Zone A - StutInstalation S4 (-3.6mPD)(1 crane, 8welders, 24ton4d) MBRAF-3800 MBR - Zone A - Trial pumping pit (4nos., 5 to - 75mPD) & 5 Sage 10 Pumping Test (to -9.0mPD) MBRAF-3500 MBR - Zone A - Prebading ShutS4 (5 cycles, 5 stutskycketay)	15 12 8	11-May-24 21-May-24	29-May-24					BR - Zone A- Preloading Strut S4 (5 cycles, 5 struts/cycle
MBR AF-3490 MBR - Zone A- Prebading Shut S3 (5 cycles, 5 shutskycleklay) MBRAF-3710 MBR - Zone A- Toe grout for 323 pipe pile MBRAF-1670 MBR - Zone A- ELS Excavaton (-1.25 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD MBRAF-1680 MBR - Zone A- Shuthstalation S4 (-3.5mPD)(1 crane, 8welders, 24lon/d) MBRAF-3800 MBR - Zone A- Trial pumping pit (4nos, -5 to -7.5mPD) & Stage 1b Pumping Test (to -8.0mPD) MBRAF-3800 MBR - Zone A- Prebading Shut S4 (5 cycles, 5 shutskyckday) MBRAF-3100 MBR - Zone A- Flaipumping pit (4.15 to -7.55mPD)(9100m3)(3-4 excavators, 500m3/d) *MD	15 12 8 3	11-May-24 21-May-24 27-May-24	29-May-24 29-May-24	-198				BR -Zone A- Preloading Strut S4 (5 cycles, 5 struts/cycle
MBRAF-3490 MBR - Zone A - Prebading Shut33 (5 cycles, 5 stutskycketkay) MBRAF-3710 MBR - Zone A - Exe groutfor 323 pipe pile MBRAF-1670 MBR - Zone A - Exe groutfor 323 pipe pile MBRAF-1670 MBR - Zone A - Exe groutfor 323 pipe pile MBRAF-1680 MBR - Zone A - Exe groutfor 323 pipe pile MBRAF-1680 MBR - Zone A - Stuthstalation \$4 (-5.6m/PD) (t crane, 8weklers, 24bn.kt) MBRAF-5300 MBR - Zone A - Trial pumping pit (4nos, -5 to -7.6m/PD) & Stage 1b Pumping Text (to -8.0m/PD) MBRAF-5800 MBR - Zone A - Prebading Shut\$4 (5 cycles, 5 strutskycketkay) MBRAF-1680 MBR - Zone A - Exclavation (4.15 to -7.65m/PD)(9100m3)(3-4 excavators, 500m3d)*MD MBRAF-3840 MBR - Zone A - Trial pumping pit (4nos, -7.1 to -9.5m/PD) MBRAF-3840 MBR - Zone A - Trial pumping pit (4nos, -7.1 to -9.5m/PD)	15 12 8 3 18	11-May-24 21-May-24 27-May-24 03-Jun-24	29-May-24 29-May-24 24-Jun-24	-198 -201				BR -Zone A- Preloading Stut S4 (5 cycles, 5 stuts/cycle MBR -Zon
MBR -Zone A- Preloading Stut33 (5 cycles, 5 stytekrydektay) MBRAF-3490 MBR -Zone A- Toe groutfor 323 pipe pile MBRAF-1670 MBR -Zone A- ELS Excavation (-125 to 4.15mPD)(7540m3)(3-4 excavators, 500m3ki) *MD MBRAF-1680 MBR -Zone A- Stutthstallation 54 (-3.5mPD)(1 crane, 8welders, 24bnki) MBRAF-3930 MBR -Zone A- Tital pumping pit (4nos, -5 to -75mPD) & Stage 1b Pumping Test (to -9,0mPD) MBRAF-1680 MBR -Zone A- Flus Excavation (-4.15 to -7.55mPD)(9100m3)(3-4 excavators, 500m3ki) *MD MBRAF-3500 MBR -Zone A- ELS Excavation (-4.15 to -7.55mPD)(9100m3)(3-4 excavators, 500m3ki) *MD MBRAF-3680 MBR -Zone A- Stutthstallation 54 (5 cycles, 5 strutscyclektay) MBRAF-3500 MBR -Zone A- ELS Excavation (-4.15 to -7.55mPD)(9100m3)(3-4 excavators, 500m3ki) *MD MBRAF-3500 MBR -Zone A- Stut3 (a pipe pile (13nos, TL=-28 mPD, 1 no.dtaytig) MBR-Zone A- Tital pumping pit (4nos, -7.1 to -9.5mPD) MBR -Zone A- Tital pumping pit (4nos, -7.1 to -9.5mPD) MR -ELS Zone B MBR -Zone B MBR -Zone B	15 12 8 3 18 13	11-May-24 21-May-24 27-May-24 03-Jun-24 25-Jun-24	29-May-24 29-May-24 24-Jun-24 10-Jul-24	-198 -201 -201				BR -Zone A- Preloading StutS4 (5 cycles, 5 stutskyc) MBR -Zon
MBR AF-3490 MBR - Zone A- Prebading ShttS3 (5 cycles, 5 shttsbydektay) MBRAF-1670 MBR - Zone A- The groutfor 323 pipe pile MBRAF-1670 MBR - Zone A- Els Excavatorin (125 the 4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD MBRAF-1670 MBR - Zone A- Struthstalation S4 (3.5mPD)(1 crane, 8wekkers, 24ton/d) MBRAF-1670 MBR - Zone A- Struthstalation S4 (3.5mPD)(1 crane, 8wekkers, 24ton/d) MBRAF-1670 MBR - Zone A- Trial pumping pit (4nos, -5 th -75mPD) & Stage 1b Pumping Text (to -8,0m PD) MBRAF-1670 MBR - Zone A- Prebading ShttS4 (5 cycles, 5 shttsbydektay) MBRAF-1680 MBR - Zone A- Els Excavation (4.15 the -755mPD)(9100m3)(3-4 excavators, 500m3/d) *MD MBRAF-1690 MBR - Zone A- 125 Lexcavation (4.15 the -755mPD)(9100m3)(3-4 excavators, 500m3/d) *MD MBRAF-1690 MBR - Zone A- 323dia pipe pile (13nos, TL=28 mPD, 1 no Alayitig) MBRAF-1690 MBR - Zone A- Trial pumping pit (4nos, -7.1 the 45mPD) MBR - Zone B xcavation	15 12 8 3 18 13 6	11-May-24 21-May-24 27-May-24 03-Jun-24 25-Jun-24 25-Jun-24	29-May-24 29-May-24 24-Jun-24 10-Jul-24 02-Jul-24	-198 -201 -201			M	BR -Zone A- Preloading StutS4 (5 cycles, 5 stuts/yck MBR -Zon
MBR AF-3490 MBR - Zone A- Prebading ShxtS3 (5 cycles, 5 stutus/ydektay) MBRAF-3710 MBR - Zone A- Exergorutfor 323 pipe pile MBRAF-1670 MBR - Zone A- Exergorutfor 323 pipe pile MBRAF-1670 MBR - Zone A- Exergorutfor 323 pipe pile MBRAF-1670 MBR - Zone A- Exet Staxavation (-125 to -4.15mPD)(7540m3)(3-4 excavations, 500m3/d) *MD MBRAF-1680 MBR - Zone A- Struthstalation 54 (-5.5m-7D) (5 stage 1b Pumping Text(to -0.0m PD) MBRAF-580 MBR - Zone A - Prebading ShxtS4 (5 cycles, 5 struts/ydektay) MBRAF-1680 MBR - Zone A - Prebading ShxtS4 (5 cycles, 5 struts/ydektay) MBRAF-1680 MBR - Zone A - Exit Straxavation (-115 to -7.65mPD)(pl0100m3)(3-4 excavations, 500m3/d) *MD MBRAF-1680 MBR - Zone A - Tital pumping pit (4nos, -7.1 to -9.5mPD) MBR - Exit Stravel B Stravel B MBRAF-5840 MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(8370m3)(3-4 excavators, 500m3/d)	15 12 8 3 18 13 6 13	11-May-24 21-May-24 27-May-24 03-Jun-24 25-Jun-24 25-Jun-24 04-Mar-24 A	29-May-24 29-May-24 24-Jun-24 10-Jul-24 02-Jul-24 16-Mar-24A	-198 -201 -201 -186		(+42 b +1.75mPD)(6370m3)(3-4 excevators, 500m3	на) на)	BR -Zone A- Preloading Stut S4 (5 cycles, 5 stuts/cycle MBR -Zon
MBRAF-3710 MBR - Zone A- Toe grout for 323 pipe pile MBRAF-3770 MBR - Zone A- Toe grout for 323 pipe pile MBRAF-1670 MBR - Zone A- ELS Excavaton (-1.25 to 4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD MBRAF-1680 MBR - Zone A- Struthstaliation S4 (-3.6mPD)(1 crane, 8welders, 24bn/d) MBRAF-3500 MBR - Zone A- Trial pumping pit (4nos., -5 to -7.5mPD) & Stage 1b Pumping Test (to -9.0mPD) MBRAF-3500 MBR - Zone A- Prebading Strut S4 (5 cycles, 5 strut by deltay) MBRAF-3600 MBR - Zone A- ELS Excavaton (-4.15 to -7.5mPD)(9100m3)(3-4 excavators, 500m3/d) *MD MBRAF-3500 MBR - Zone A- ELS Excavaton (-1.5 to -7.5mPD) MBRAF-3500 MBR - Zone A- Trial pumping pit (4nos., -7.1 to -9.5mPD) BRAF-3540 MBR - Zone A- Trial pumping pit (4nos., -7.1 to -9.5mPD) BRAF-3540 MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(5370m3)(3-4 excavators, 500m3/d) MBRAF-3540 MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(5370m3)(3-4 excavators, 500m3/d) MBRAF-3540 MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(5370m3)(3-4 excavators, 500m3/d) MBRAF-3540 MBR - Zone B - Strut Instaliation S2 (+2.3mPD)(1 crane, 8welders, 24bn.d)	15 12 8 3 18 13 6 13 10	11-May-24 21-May-24 27-May-24 03-Jun-24 25-Jun-24 25-Jun-24 04-Mar-24 A 18-Mar-24 A	29-May-24 29-May-24 24-Jun-24 10-Jul-24 02-Jul-24 16-Mar-24A 03-Apr-24	-198 -201 -201 -186 -212		MBR -Zone B - Strutinstallation S2 (+2.3mPD)(1 cra	k) ne, 8welders, 24ton/d)	BR -Zone A- Preloading StutS4 (5 cycles, 5 stutsbycle MBR -Zone
MBRAF-3490 MBR - Zone A - Prebading Shut S3 (5 cycles, 5 shutskyclektlay) MBRAF-3710 MBR - Zone A - The grout for 232 pipe pile MBRAF-1670 MBR - Zone A - ELS Excavation (+125 the -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD MBRAF-1680 MBR - Zone A - Stuthstallation S4 (-3.5mPD)(1 crane, 8wekders, 24ton/d) MBRAF-1680 MBR - Zone A - Stuthstallation S4 (-3.5mPD)(1 crane, 8wekders, 24ton/d) MBRAF-1680 MBR - Zone A - Stuthstallation S4 (-3.5mPD)(9100m3)(3-4 excavators, 500m3/d) *MD MBRAF-1680 MBR - Zone A - Trial pumping pit (4nos., -5 to -7.5mPD) & Stage 1b Pumping Test (to -8.0mPD) MBRAF-1690 MBR - Zone A - ELS Excavation (-4.15 to -7.5mPD) (9100m3)(3-4 excavators, 500m3/d) *MD MBRAF-1690 MBR - Zone A - Trial pumping pit (4nos., -7.1 to -8.5mPD) MBRAF-3650 MBR - Zone A - Trial pumping pit (4nos., -7.1 to -8.5mPD) MBRAF-3540 MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(8370m3)(3-4 excavators, 500m3/d) MBRAF-3540 MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(8370m3)(3-4 excavators, 500m3/d) MBRAF-3540 MBR - Zone B - Stut Installation S2 (+2.3mPD)(1 crane, 8wekders, 24ton/d) MBRAF-3550 MBR - Zone B - Preloading Stut S2 (5 cycles, 5 stutskycket/sy)	15 12 8 3 18 13 6 13 10 2	11-May-24 21-May-24 27-May-24 03-Jun-24 25-Jun-24 25-Jun-24 25-Jun-24 04-Mar-24 A 18-Mar-24 A 05-Apr-24	29-May-24 29-May-24 24-Jun-24 10-Jul-24 02-Jul-24 16-Mar-24A 03-Apr-24 06-Apr-24	-198 -201 -201 -186 -212 -212 -212		MBR -Zone B - StrutInstallation S2 (+2.3mPD)(1 cra MBR -Zone B - Preloading StrutS2 (5 cycles, 1	d) d) sre, 8vekiers, 24bnki) Sshutskydekiary	BR - Zone A - Preloading Stutiski (5 cycles, 5 stutiskycle. MBR - Zone MBR - Zone
MBRAF-3490 MBR - Zone A - Preloading Stut53 (5 cycles, 5 stutskycleiday) MBRAF-3710 MBR - Zone A - Exe groutfor 323 pipe pile MBRAF-1670 MBR - Zone A - Exe groutfor 323 pipe pile MBRAF-1670 MBR - Zone A - Exe groutfor 323 pipe pile MBRAF-1670 MBR - Zone A - Stuthstallation 54 (3 5m/PD)(T crane, 8welders, 24bn.4) MBRAF-1680 MBR - Zone A - Trial pumping pit (4nos, -5 b - 7.5m/PD) & Stage 1b Pumping Tect (to -8.0m/PD) MBRAF-1680 MBR - Zone A - Preloading Stut54 (5 cycles, 5 stutskycketay) MBRAF-1680 MBR - Zone A - Ele Szexardon (-4.15 b - 7.56m/PD)(9100m3)(3-4 excavabra, 500m3d) *MD MBRAF-1680 MBR - Zone A - Ele Szexardon (-4.15 b - 7.56m/PD)(9100m3)(3-4 excavabra, 500m3d) *MD MBRAF-3640 MBR - Zone A - Trial pumping pit (4nos, -7.1 to -9.5m/PD) MBR - Zone A - Trial pumping pit (4nos, -7.1 to -9.5m/PD) Eccavation MBRAF-3540 MBR - Zone B - ELS Execavate (+4.2 to +1.75m/PD)(5370m3)(3-4 excavabra, 500m3d) MBRAF-3540 MBR - Zone B - ELS Execavate (+4.2 to +1.75m/PD)(16370m3)(3-4 excavabra, 500m3d) MBRAF-3050 MBR - Zone B - Preloading Stut 52 (5 cycles, 5 stutskycleiday) MBRAF-3050 MBR - Zone B - Preloading Stut 52 (5 cycles, 5 stutskycleiday) MBRAF-3050 MBR - Zone B - Preloading Stut 52 (5 cycles, 5 s	15 12 8 3 18 13 6 13 10 2 16	11-May-24 21-May-24 27-May-24 03-Jun-24 25-Jun-24 25-Jun-24 25-Jun-24 04-Mar-24A 18-Mar-24A 05-Apr-24 08-Apr-24	29-May-24 29-May-24 24-Jun-24 10-Jul-24 02-Jul-24 16-Man-24A 03-Apr-24 06-Apr-24 25-Apr-24	-198 -201 -201 -186 -212 -212 -212 -212		MBR -Zone B - Strutinstallation S2 (+2.3mPD)(1 cra MBR -Zone B - Preloading Strut S2 (5 cycles, MBR -Zone	d) ki) ane, 8wekters, 24bonkt) 5 Shrufstyckektay) 18 - ELS Excavation (+1.75 to -1.25mPD)(7800m3)	BR - Zone A - Preloading Stutiski (5 cycles, 5 stutiskycle MBR - Zone MBR - Zone (34 excavabus, 500m340)
MBRAF-3490 MBR - Zone A - Prebading Shut S3 (5 cycles, 5 shutskyckelday) MBRAF-3710 MBR - Zone A - The groutfor 323 pipe pile MBRAF-1670 MBR - Zone A - ELS Excavation (+125 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD MBRAF-1680 MBR - Zone A - ELS Excavation (+125 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD MBRAF-1680 MBR - Zone A - ELS Excavation (+125 to -4.15mPD)(7 crane, 8wekders, 24tonkt) MBRAF-3800 MBR - Zone A - Shuthstalation S4 (-5 mPD) & Stage 1b Pumping Test (to -8,0mPD) MBRAF-3800 MBR - Zone A - Trialpumping pit (4nos, -5 to -7 5mPD) & Stage 1b Pumping Test (to -8,0mPD) MBRAF-3800 MBR - Zone A - Prebading Shut S4 (5 cycles, 5 strutskychotday) MBRAF-3800 MBR - Zone A - ELS Excavation (+1.15 to -7.55mPD)(9100m3)(3-4 excavators, 500m3/d) *MD MBRAF-3840 MBR - Zone A - Trialpumping pit (4nos, -7.1 to -9.5mPD) MBRAF-3840 MBR - Zone A - Trialpumping pit (4nos, -7.1 to -9.5mPD) MBRAF-3840 MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(6370m3)(3-4 excavators, 500m3/d) MBRAF-3050 MBR - Zone B - Stut Instalation S2 (+2.3mPD)(1 crane, 8welders, 24tonkt)	15 12 8 3 18 13 6 13 10 2	11-May-24 21-May-24 27-May-24 03-Jun-24 25-Jun-24 25-Jun-24 25-Jun-24 04-Mar-24 A 18-Mar-24 A 05-Apr-24	29-May-24 29-May-24 24-Jun-24 10-Jul-24 02-Jul-24 16-Mar-24A 03-Apr-24 06-Apr-24	-198 -201 -201 -186 -212 -212 -212		MBR -Zone B - Stutinstaliation S2 (+2.3mPD)(1 cra MBR -Zone B - Preloading StutiS2 (5 cycles, MBR -Zone MBR -Zone	d) d) sre, 8vekiers, 24bnki) Sshutskydekiary	BR - Zone A - Preloading Stut 84 (5 cycles, 5 stutistycle WBR - Zone (34 excavators, 500m3kt) (34 excavators, 240m3kt) (39 exclavators, 240m3kt)

PaulY 保華-中國中鐵聯營體 Paul Y-CREC JOINT VENTURE Remaining Level of Ef... Actual Work Remaining Work Critical Remaining Work Milestone Contract DC/2019/10 - YLEPP - Main Works for Stage 1 Monthly Progress Report No. 41- 3MRP (Mar 24) Project ID : DWPr36_240416 Layout : DC201910 MPR41-3MRP Page 6 of 8

0	July 45	21	28	04	Au 11	gust 16	8	25	September 47 01 0
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			st oldge t						
				P	ST Stage 1				entinstallation
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n3/d)*	MD								
Pump	ing Test(to -9.1	mPD)							
			100-020	4 excavators, 50	0m340 # =				
	MBR -Zone	A-323dia pi	ipe pile (13	inos., TL=-28 mi	PD, 1no./da	y/fig)			
-Zone	A- Trial pump	ing pit (4nos.	,-7.1 to -9.5	imPD)					
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				Drogrou	s Ron	-	IMPD		
		B.	10nthh						
	D	N	10nthly	Progres	n	Che	acked		nroved
	Da 31-Mar-	ate	Rev	Revisio	n	Che	ecked		pproved

Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Harch April 41 42	May June July August 43 44 45 45
VF-3290 MBR - Zone B - ELS Excavation (-1.25 to -4,15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD	15	06-May-24	23-May-24	-212	03 10 17 24 31 07 14	21 28 05 12 19 26 02 09 16 23 30 07 14 21 28 04 11 18 25 MBR - Zone,B - ELS Excavation (-125 to -4.15mPD)(7540m3)(3-4) excavators, 500m3)(4) *MD
NF-3300 MBR - Zone B - Strut Installation S4 (-3.6mPD)(1 crane, 8welders, 24ton.tt)	13	18-May-24	31-May-24	-212		MBR - Zone B - Stutinstalation S4 (3.6mPD)(1 craite, 8vekters, 24tond)
NF-3910 MBR - Zone B - Trial pumping pit (4nos.,-5 to -7.6mPD)	6	24-May-24	30-May-24	-208		MBR - Zone B - Tital pumping pit (4nos.,-5 to -7 &mPD)
NF-3590 MBR - Zone B - Preloading Strut S4 (5 cycles, 5 strutsbyclektay) NF-3310 MBR - Zone B - ELS Excavation (-4.15 to -7.65mPD)(9100m3)(3-4 excavators, 500m3/d) *MD	3	01-Jun-24 05-Jun-24	04-Jun-24 26-Jun-24	-212		MBR - Zone B - Preloading Stut/S4 (5 cycles, 5 stut/scycle/day) MBR - Zone B - ELS Excavation (4.15 b - 7 // 5mPD)(9100m3)(3-4 excavators, 500m34) *MD
VF-3660 MBR - Zone B - 323dia pipe pile (22nos, TL=-28 mPD, 1no.tdaylig)	18	27-Jun-24	23-Jul-24	-212		MBR - Zone B - 323dia pipe pile (Zznos, TL28 mPD, Tno Alayila)
AF-3920 MBR -Zone B - Trial pumping pit (4nos7.1 to -9.5mPD)	6	27-Jun-24	04-Jul-24	-188		MBR - Zone B - Tital pumping plt(4nos, -7.1 to-9.5mPD)
ELS Zone C						
ation NF-3150 MBR -Zone C - ELS Excavation (+4.7 to +1.75mPD) (5880m3) (3-4 excavators, 500m3.b)	12	15-Feb-24 A	18-Mar-24A	-	MBR -Zone C - ELS Excavation (+4.7 to +1.75mPD) (588	01/04 execution 500m04h
VF-3160 MBR - Zone C - Strutinstallation S2 (+2.3mPD)(1 crane, 10welders, 24ton/d)	14	28-Feb-24 A	25-Mar-24A		MBR - Zone C - Strutinstallation S2 (+2.3mPD	
AF-3610 MBR - Zone C - Preloading Strut S2 (5 cycles, 5 struts/cycle/day)	3	26-Mar-24 A	27-Mar-24A		MBR Zone C - Preloading Strut S2 (5 cyc	
MBR - Zone C - ELS Excavation (+1.75 to -1.25mPD) (7200m3)(3-4 excavators, 500m3/d) MBR - Zone C - Strutinstallation S3 (-0.7mPD)(1 crane, 10welders, 24bn/d)	15	29-Mar-24 A	11-Apr-24	-201	MBR - Zone C	ELS Exervator; (+1.75 to -1.25mPD) (7200m3)(3-4 exervators, 500m3/d) MBR -Zone C - Strutinstaliation S3 (-0.7mPD)(1 crane, 10webles, 24bnd)
VF-3620 MBR - Zone C - Strutinsaliation 35 (-0, mir D) (1 chane, 10 weiders, 24 bind) VF-3620 MBR - Zone C - Preloading Strut S3 (5 cycles, 5 strut/scycle/day)	12	12-Apr-24 26-Apr-24	25-Apr-24 29-Apr-24	-201		Hark - Cone OF optimization of COINT Dirth Cones, Annual Cones and Cone Cones and Cones and Cone
AF-3690 MBR - Zone C - Toe groutfor 323 pipe pile	24	26-Apr-24	25-May-24	-149		MBR -Zone C - Toe grout/or323 pipe pile
AF-3190 MBR - Zone C - ELS Excavation (-1 25 to -4.15mPD) (6960m3) (3-4 excavators, 500m3/d) *MD	10	30-Apr-24	11-May-24	-201		MBR - Zone C - ELS Exeavaton (-1.25 to -4.15mPD) (6990m3)(-3 4 exeavators, 500m34) * NO
AF-3200 MBR -Zone C - Struthstallation S4 (-3.6mPD)(1 crane, 10welders, 24tond) AF-3890 MBR -Zone C - Trial pumping pit (3nos, -5 to -7.6mPD)	12	10-May-24 13-May-24	24-May-24 20-May-24	-201		MBR - Zone C - Strut Installation S4 (3.6mPD)(1 crane, 10welders, 24bn/d) MBR - Zone C - Tital pumping pit (3.0s., 5 b - 7.6mPD)
VF-3630 MBR -Zone C - Preloading Stut S4 (5 cycles, 5 struts/cycle/blay)	3	25-May-24	28-May-24	-201		MBR - Zone C - Preloading Strut 54 (5 cycles, 5 strut=tycle4day)
AF-3210 MBR - Zone C - ELS Excavation (4.15 to -7.65mPD) (8400m3)(3-4 excavators, 500m3/d) *MD	12	03-Jun-24	17-Jun-24	-205		MBR -Zone C - ELS Excavation (4.15 to -7.65mPD) (8400m3)(3-4 excavation, 500m34) MD
AF-3670 MBR - Zone C (North) - 323dia pipe pile (12nos., TL=-28 mPD, 1no./day/tig)	12	18-Jun-24	02-Jul-24	-194		MBR - Zone C (North) - 323dia pipe pile (12nos, TL=-28 mPD, 1no./day/tig) MBR - Zone C (South) - 323dia pipe pile (23nos, TL=-28 mPD, 1no./day/tig)
AF-3680 MBR - Zone C (South) - 323dia pipe pile (23nos, TL=28 mPD, 1no,day/tig) AF-3900 MBR - Zone C - Trial pumping pit (3nos, -7.1 to -8.5mPD)	23	18-Jun-24 18-Jun-24	15-Jul-24 24-Jun-24	-205		MBR -Zone C - Trial pumping process - Trial pumping pr
Treatment System (TTS)		10 001 21	2100.21	100		
ndation and ELS						
t and Working Platform						
50 TTS-Installation of steel deck (Westportion) 30 TTS-Installation of steel deck (Center portion)		16-Mar-24A 06-Apr-24	05-Apr-24 19-Apr-24	-207	TTS - Installation of steel	ok (West portion) S-Installation of steel deck (Center portion)
vidation and ELS Stage 2						
S	1 434	-		-		
V40 TTS-ELS Excavation (+3.1 to +1.15mPD) (14,158m3)(3-4 excavabrs/WF,2 WFs,600m3/d/WF) V50 TTS-Strittlestellation S2 (41,65mPD)/2 compase Busilians part/ME 2 MEs 2 MEs 2 MEs 2 MEs	12				TTS-ELS Excavation (+3.1 to + 1.15mPD) (14,158m3)(3-4 excavato TTS-Stutinstaliation S2 (+1,65mPD)(2 cran	
V50 TTS - Strut Installation S2 (+1.65mPD)(2 cranes, 8weblers per WF,2 WFs, 30bn.d) V50 TTS - Preloading Strut S2 (+1.65mPD)(4 cycles, 4 struts/cyclediay, 16 struts)	15	19-Feb-24 A 26-Mar-24 A	25-Mar-24A 28-Mar-24A		TTS-Stutinstalation S2 (+1.65mPD)(2 cran	
110-1 North States (110-1 North States) (14,158m3)(34 excavators/WF,2 WFs,600m3/d/WF) *MD/PD	12	06-Apr-24	19-Apr-24	-207		S-ELS Exervation (+1.15 to -1.35mPD) (14,158m3)(2-4 exervationsWIF, 2 WIFs, 600m3klWF) *MD/PD
TTS - Strutinstallation S3 (-0.85mPD)(2 cranes, 8 weiders per WF, 2 WFs, 30 bond)	15	11-Apr-24	27-Apr-24	-207		TTS -Strutinstation S3 (0,85mPD)(2 cranes, 8weblers per WF,2 WFs, 30bnHd)
160 TTS - Preloading Stut S3 (-0.85mPD)(4 cycles, 4 stutis/cycle/day, 16 struts) 280 TTS - ELS Excavation (-1.35 to -3.37mPD) (11,439m3)(3-4 excavabrs/WF, 2 WFs, 600m3/d/WF) *MD/PD	4	29-Apr-24 04-May-24	03-May-24 16-May-24	-207		TTS - Preloading StrutS3 (0.85mPD)(4 cycles, 4 strutskyclektay, 16 struts) TTS - ELS Excavation (-1,35 to -3.37mPD) (11,439m3)(3-4 excavatorsWF;2 WF;s, 600m3kl/WF) *MD/PD
290 TTS-Strutinstaliation S4 (-2.87mPD)(2 granes, 8 welders per WF, 2 WFs, 30 ton 30 w/P) MD/PD	15	09-May-24	27-May-24	-207		TIS +Stuthstallation S4 (-287mPD)/2 cranes, 8welders per WF; 2 WFs, 30bnkl)
070 TTS-Preloading Strut S4 (-2.87mPD)(4 cycles, 4 struts/cycle/day, 16 struts)	4	28-May-24	31-May-24	-207		TTS - Preloading Shut 54 (2.87mPD)(4 cycles, 4 shub/cycledday, 16 shute)
300 TTS-ELS Excavation (3.37 to -5mPD) (9,231m3)(3-4 excavators/WF, 2 WFs, 600m3/d/WF) *MD	8	01-Jun-24	11-Jun-24	-207		TTS-ELS Excavation (3.37 to-5mPD) (#231m3)(24 excavatorsWF,2 WFs,600m340/Wp *MD
mation Level TTS-Plate load test (2nos.)(assume 2nos.non-MD area)	8	12-Jun-24	20-Jun-24	-207		TTS-Piste loadbest (2nos Jassume 2nos non-MD area)
310 TTS-Local excavation of marine sediment (-5 to -6.3mPD, 920m3) *MD		12-Jun-24	18-Jun-24	-189		TTS-Local exavation of matrine sediment (-5 to -6.3mPD, 920m3) *MD
N80 TTS-Backfil (-6.3 to -5mPD)	12	19-Jun-24	03-Jul-24	-189		TIS-Backili (cdali (cdali (cdali cdali (cdali cdali cdali (cdali cdali cdali (cdali cdali
icture structure		CONTRACT!	D. 5. 201	and the second		
TTS - BoxRaftFoundation (-5mPD to -3.42mPD) (incl. earth matinstallation)	36	21-Jun-24	02-Aug-24	-207		TIS-BoxRaftFoundaton (6mPD to 3.42mPD)
Construction	11111		Date State			
lorth Portion (Z3N)				A CONTRACT		
ige Thickening Building (STB)						
andation and ELS						
Excavation and Lateral Support ELS Zone A and B						
2360 STB-ELS (A&B), Excavation (+3.5 to -0.5mPD, 2501m3 @ 500m3/d) *MD/PD	5	21-Feb-24 A	05-Mar-24A	-	STB-ELS (A&B), Excavation (+3.5 to -0.5mPD, 2501m3 @ 500m3.4) *MD/PD	
2420 STB - ELS (A&B), Strutinstaliation S2 (@ 0mPD)		06-Mar-24 A). Studinskalajoh S2 (@ 0mPD)
5230 STB - ELS (A&B), Struthstallation S2 preload 2450 STB - ELS (A&B), Excavation (-0.5 to -3.75mPD, 2,001m3 @ 350m3/d) *MD	2	12-Apr-24	13-Apr-24	-112		&B), Struthstallplon S2 preload STB-ELS (A&B), Excavation (-0.5 to -3.75mPD, 2,001 m3 @ 350m3/d) 1MD
5800 STB-ELS (A&B), Demolish remaining existing AFT (8) silent method	6		20-Apr-24 20-Apr-24	-112		s ra - Ecs Yeab (classiant yeb 6-s) omred, 200 mile (glassiniso) ind
ELS Zone C						
5110 STB-ELS (C), Excavation (+6.0 to +3.5mPD) remaining portion after road diversion at UCS	2	29-Feb-24 A	06-Mar-24A		STB-ELS (C), Excavation (+6.0 to +3.5mPD) remaining portion after road diver	
5120 STB - ELS (C), Strut installation S1 (@ +4.0mPD) remaining portion after road diversion at UC5 5940 STB - ELS (C), Excavation (+3.5 to -0.5mPD, 1250m3 @ 200m3/d) *MD/PD	6	07-Mar-24 A 20-Mar-24 A	19-Mar-24A 28-Mar-24A		STB-ELS (C), Struinstallation S1 (@ +4.0mPD) remains STB-ELS (C), Excavation (+3.5 to -0.5 to	
5950 STB-ELS (C), Strutinstallation S2 (@ 0mPD)	8		15-Apr-24	-112		S (C), Shufinstalation S2 (@ 0mPD)
5960 STB-ELS (C), Strut Installation S2 preload	2	16-Apr-24	17-Apr-24	-112		ELS (C), Shuthadalation S2 preload
5970 STB-ELS (C), Excavation (-0.5 to -3.75mPD, 500m3 @ 200m3/d) *MD riland Structural Works	3	18-Apr-24	20-Apr-24	-112		STB-ELS (C), Excavation (-0.5 to -3.75mPD, 500m3 @ 200m3ki) *MD
Structure Struct						
Structure Stage 1 (KD10)						
Subrstructure	1					
STB - Stage 1 - Install capping plate and blinding STB - Stage 1 - Pile Cap Construction (-3,55 to -0,5mPD, 2,055m) Base Slab and Wall	10	22-Apr-24 04-May-24	03-May-24 18-May-24	-112 -112		STB - Stage 1 - Instal capping plate and binding STB - Stage 1 - Pile Cap Construction (3.55 to -0.5mPD, 2.055m) Base Slab and Wall
3-3670 STB-Stage 1 - Waterproof, backfill and Remove part of S2	6	20-May-24	25-May-24	-112		STB-Stage 1 - Viate proof, backfill and Remove partofS2
3-2600 STB-Stage 1 - Structural WallColumn (-0.5 to +3 5mPD) with S2 castin	6	27-May-24	01-Jun-24	-112		STB-Stage 1-Structural WallColumn (0.5b 43 5mPD) with 52 castin
3-3660 STB-Stage 1 - Waterproof, backfill and Remove S1		03-Jun-24	08-Jun-24	-112		STB-Stage 1 - Waterproof, backfill and Remove S1
5-2630 STB-Stage 1 - Structural WallColumn (+ 3,5 b +6mPD)& Ground Fbor Stab@ +6.0mPD Superstructure	12	11-Jun-24	24-Jun-24	-112		STB-Stage 1 - Structural WallColumn (+3.5 b +6mPD)& Ground Fbor Stab@+60mPD
5-2740 STB-Stage 1 - Structure (+6.0 to +18.3mPD) Roof Floor @ +18.3mPD	12	25-Jun-24	09-Jul-24	-112		STB-Stage 1-Structure (+6.0 to +18.3mPD) Roof Floor @ +18.3mPD
Structure Stage 2 (Remaining)						
Substructure SETE - Stars 2 - Install campion plots and material binding	1	04.14	1914 01	40		STD Shan 2 hold samin able and
Koron STB - Stage 2 - Install capping plate, earth mat and blinding STB - Stage 2 - Pile Cap Construction (-3.55 to -0.5mPD, 2.055m) Base Slab and Wall	12	04-May-24 20-May-24	18-May-24 01-Jun-24	-10		STB - Stage 2 - Install capping plate, earth mat and blinding STB - Stage 2 - Pile Cap Construction (-3.55 to -0.5mPD, 2.055m)Base Stab and Wall
3-6110 STB-Stage 2-Via enproof, backfill and Remove part of S2	6	03-Jun-24	08-Jun-24	-10		STB-Stage 2- Via Exprosf, backfill and Remove partor IS2
3-6050 STB-Stage 2-Structure (-0.5 to +3.5mPD)	7	11-Jun-24	18-Jun-24	-10		STB-Stage 2-Structure (-0.5 to +3.5mPD)
56100 STB-Stage 2-Waterproof, backfill and Remove S1 56060 STB-Stage 2-Structure (+3.5 to +6mPD) Ground Floor @ +6.0mPD	6 12	19-Jun-24	25-Jun-24	-10		STB-Stage 2- Waterproof, backfill and Remove S1
Vater Tightness Test	12	26-Jun-24	10-Jul-24	-10		STB - Stage 2 - Structure (+3.5 to +6mPD) Ground Floor @ +6.0mPD
1990 STB-Concrete gain strength (slab +6mpd)	7	25-Jun-24	03-Jul-24	-7		STB-Concrete gain strength (stab +6mpd)
rridor (UC5) (Connect to STB)	BUS AL			S. S. S. S.		
And Structura Works		OF F-L CI L	10 5 1 011	_	nnian Shore 1 an Completed I/CE (
UC5 - Road Diversion Stage 1 on Completed UC5 (concrete pavement) UC5 - Road Diversion Stage 2 on deck (concrete pavement)	1	05-Feb-24 A 28-Feb-24 A			ersion Stage 1 on Completed UC5 (concrete pavemen) C5 - Road Diversion Stage 2 on deck (concrete pavement)	
	Con another	LUT BUZAA	LUT UP24A		and an and a surger fourier baselieuth	
outh Portion (Z3S)	and the second				E	Project ID : DWPr36 240416 Monthly Progress Report - 3MRP
						Monthly Progress Report - 3MRP
Paul Y Remaining Level of Ef		Cont	rant	DC	010/10 VI EDD Main W/a	
		Cont	ract	DC/2	2019/10 - YLEPP - Main Wo	ke tor Stade 1
Paul Y Remaining Level of Ef Actual Work						KS TOF Stage 1 Layout : DC201910 MPR41-3MRP Date Revision Checked A
Paul Y Remaining Level of Ef					019/10 - YLEPP - Main Wo ogress Report No. 41- 3M	KS TOF Stage 1 Layout : DC201910 MPR41-3MRP Date Revision Checked A

y D Activity Name		Orig	Early Start	Early Finish	Total Flo	oat		A			42		May				44					45		-		46			
		Dur					03 10	17	24	31 07	14 21	28	05 12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	
ludge Digestor No. 1-3 (SD1-	1-3)	1	ST. TES2	1		1			-			1													1259		20	-	
D1-3 : Foundation and ELS																								1				1	1
SD1-3 : Sheetpiling, Kingpos	ost, Monitoring and pumping					1						1			1													1	1
Z3S3-5100 Sludge Digest	ster No. 1-3 - Pumping test*assume reading taking during CNY	7	06-Feb-24 A	13-Feb-24 A		Pum	ping test *assume real	ling taking during C	NY																				-
	sterNo.1-3-Additional grouting for BH1 settlement control	14	19-Feb-24 A	27-Feb-24 A	4	slud	ge Digester No. 1-3 - A	ditional grouting for	rBH1 set	mentcontrol																			1
SD1-3 : Excavation and Strut	ut Installation			-																				1					1
SD1-3:ELS					-																								:
Z3S3-2110 Sludge Diges	ster No. 1-3 - ELS Excavation (+5.0 to +4.3 mPD, 4168 m3 @ 1000 m3/d)	5	20-Feb-24 A	08-Mar-24A	-		Sludge D	igester No. 1-3 - ELS	S Excavat	on (+5.0 to +4.3mPD, 416	8m3 @ 1000m3kl)	1																1	1
	ester No. 1-3 - Strutinstallation S1 (+4.8mPD)	7	09-Mar-24A	03-Apr-24	-205						No. 1-3 - Strutinstallation S	1 (+4.8mPD)																1	1
Z3S3-2150 Sludge Diges	ester No.1-3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3/d)	6	05-Apr-24	11-Apr-24	-205					Slu	dge Digester No. 1-3 - EL	S Excavation (4.3 to +1.8mPD,61	130m3@100	0m3/d)													1	1
Z3S3-2190 Sludge Diges	ester No. 1-3 - Strut Installation S2 (+2.3mPD)	7	09-Apr-24	16-Apr-24	-205						Słudge Digester No	1-3-Strutinst	allation S2 (+2.3mPl	D)	1									1				1	1
Z3S3-5730 Sludge Diges	ster No. 1-3 - Preloading Strut S2 (+2.3mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	17-Apr-24	20-Apr-24	-205						Sludge Dige	sterNo.1-3-F	reloading Stut S2 (4	(+2.3mPD)(4 c	ycle, 5 struts/cy	de/day, 16 struts	5)							1					1
	ster No.1-3 - ELS Excavation (+1.8 to -0.7mPD, 6130m3 @ 1000m3.d) *MD	6		27-Apr-24	-205	1						Sludge Diges	erNo.1-3-ELS Exc	cavation (+1.8	b-0.7mPD,61	30m3@1000r	m3/d)*MD							1					1
Z3S3-2210 Sludge Diges	ester No. 1-3 - Strutinstallation S3 (-0.2mPD)	7	25-Apr-24	03-May-24	-205	1						Sku	ige Digester No. 1-3	3 - Strut Installa	tion S3 (-0,2mi	PD)													1
Z3S3-5740 Sludge Diges	ster No. 1-3 - Preloading Strut S3 (-0.2mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	04-May-24	08-May-24	-205								Sludge Digest	ter No. 1-3 - Pr	eloading Struts	3 (-0.2mPD)(4	cycle, 5 stru	uts/cycle/day,	16 struts)					1					T
	ster No. 1-3 - ELS Excavation (-0.7 to -3.2mPD, 6130m3 @ 1000m3/d)*MD	6	09-May-24	16-May-24	-205	1								Sludge Diges	terNo.1-3-EL	S Excavation (4	0.7 to -3.2m	PD,6130m3	3@1000m	3.H)*MD				1					T
	ester No. 1-3 - Strutinstallation S4 (-2.7mPD)	7	13-May-24	21-May-24	-205									Slud	ge Digester No	1-3-Strutinsta	allation S4 (2.7mPD)											T
Z3S3-5750 Sludge Digest	ester No. 1-3 - Preloading Strut S4 (-2.7mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	22-May-24	25-May-24	-205										Sludge Dige	ster No. 1-3 - Pr	reloading S	tut S4 (-2.7n	nPD)(4 cycl	e,5 struts/cy	de/day, 16 s	struts)							1
Z3S3-2240 Sludge Diges	ester No.1-3 - ELS Excavation (-3.2 to -5.5mPD, 5640m3 @ 1000m3/d)	6	27-May-24	01-Jun-24	-205											Sludge Digeste	erNo.1-3-8	ELS Excavat	ion (-3.2 to -	\$5mPD,56	640m3@10	000m3/d)							1
Z3S3-3600 Sludge Diges	ester No. 1-3 - Strut Installation S5 (-5.0mPD)	7	30-May-24	06-Jun-24	-205											Sludg	e Digester I	No. 1-3 - Stru	tinstallation	S5 (-5.0mP	PD)			1					T
Z3S3-5760 Sludge Diges	aster No. 1-3 - Preloading Strut S5 (-5.0mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	07-Jun-24	12-Jun-24	-205	1											Sludge	e Digester N	o.1-3-Prek	oading Stu	S5 (-5.0mP	D)(4 cycle,	5 struts/cycle/d	day, 16 stru	rts)				1
	ester No. 1-3 - ELS Excavation (-5.5 to -7.5mPD, 4904m3 @ 1000m3/d)	5	13-Jun-24	18-Jun-24	-205													Sludge	Digester No	1-3-ELS	Excavation (-5.5 to -7.5r	nPD,4904m3	3 @ 1000n	n3/d)				T
Z3S3-3620 Sludge Diges	ester No, 1-3 - Strutinstallation S6 (-7mPD)	7	17-Jun-24	24-Jun-24	-205									••••••					Sludge D	Digester No.	1-3-Strutin	stallation S	6 (-7mPD)	1					1
Z3S3-5770 Sludge Diges	ster No. 1-3 - Preloading Strut S6 (-7mPD)(4 cycle, 5 struts/cycle/day, 16 struts)	4	25-Jun-24	28-Jun-24	-205														S	Judge Dige	ster No. 1-3-	-Preloadin	g Strut S6 (-7m	mPD)(4 cyc	de, 5 struts/cycl	e/day, 16 str	uts)		1
Z3S3-3630 Sludge Diges	aster No. 1-3 - ELS Excavation (-7.5 to -9.0mPD, 3678m3 @ 1000m3.td)	6	29-Jun-24	06-Jul-24	-205							1									Sludge Dig	gester No.	-3-ELS Excan	avation (+7	5 to -8.0mPD,3	3678m3 @	1000m3/d)		1
iogas Holder No. 1 (BH1)															1									1					1
BH1 : E&M Installation						1						1			1					1				1					1
ATALZ38H-2455 BH No.1-Jac	ackinstallation	14	29-Feb-24 A	15-Mar-24A				BH No.1-Jackin	stallation						1					1									1
ATALZ38H-2465 BH No.1-Tan	ank wall (2nd to 3 rd Ring) and tan kmounting ring construction and welding	32	16-Mar-24 A	27-Apr-24	-98			E				BHNo.1-Tan	kwall (2nd to 3nd Rin	ing) and tan kn	nounting ring c	onstruction and	welding												1
ATALZ38H-2475 BH No.1 - Tan	ank wall (4th to 5th Ring) construction and welding	32	29-Apr-24	06-Jun-24	-98											BHN	o.1 - Tankw	vall (4th to 5th	Ring) cons	truction and	welding								1
ATALZ3BH-1010 BH No.1-Inst	stallation of pipework and instrumentation in Biogas Holder Valve Chamber No.4	52	07-Jun-24	08-Aug-24	-82									•••••												BH No.1 -In	stallation of pi	pipework and in	instu
ATALZ38H-1020 BH No.1 - Inst	istrumentation	30	07-Jun-24	13-Jul-24	-70	1														,		BH No.1	-Instrumental	ion :					T
ATALZ38H-1030 BH No.1 -Inst	Istallation of Biogas Booster Pump No,1 & 2	30	07-Jun-24	13-Jul-24	-70																	BH No. 1	-Installation of	of Biogas E	BoosterPump	No.1 & 2			1
ATALZ38H-1040 BH No.1-Ele	ectrical works (Cable wiring, termination, lightning arrestor)(To alt power source until LVSB@STB energiz)	18	07-Jun-24	28-Jun-24	-58														B	HNo.1-E	ectrical work	s (Cable w	ring, terminatio	ion, lighthin	g arrestor)(To a	alt power so	urce until LVS	SB@STB ener	ingiz)
A CONTRACTOR OF A	visk assembly inside tank, raise disk, painting on both side	18	07-Jun-24	28-Jun-24	-98	1														*********			k, raise disk, pa						1
	lembrane fixing and wooden planks Installation	21	29-Jun-24	24-Jul-24	-88	1																	BH	INo.1-M	embrane fixing	and woode	n planks Insta	allation	1
BH1 : Diversion Works						1															•••••								1
Z3S7-2060 BH No.1 - Ten	emporary system and as sociated pipeworks for switchover to new BH1 for decomission of GH2	90	22-Apr-24	08-Aug-24	-92																					BH No.1-Te	emporary syst	stemandasso	ociate
tility Corridor and Pipe Porta	tal (UC/PP)	and the second			-	1									1					1									T
Itility Corridor No. 1 (UC1)					-	1																							1
UC1 : Predrilling Works					-	1														·				·····					-
Z3S5UC1-2180 UC/PP - Pred	drilUC&PP-PD2	6	02-Apr-24	09-Apr-24	-86	1			******	UC/PP	-Predril UC&PP-PD2	···												·····				,	+
	drilUC&PP-PD6		10-Apr-24	16-Apr-24							UC/PP-Predril UC	APP-PD6								······				·····					+



Remaining Level of Ef... Actual Work Remaining Work Critical Remaining Work Milestone

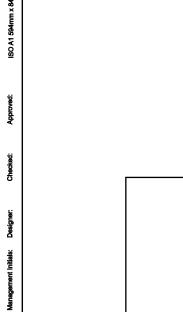
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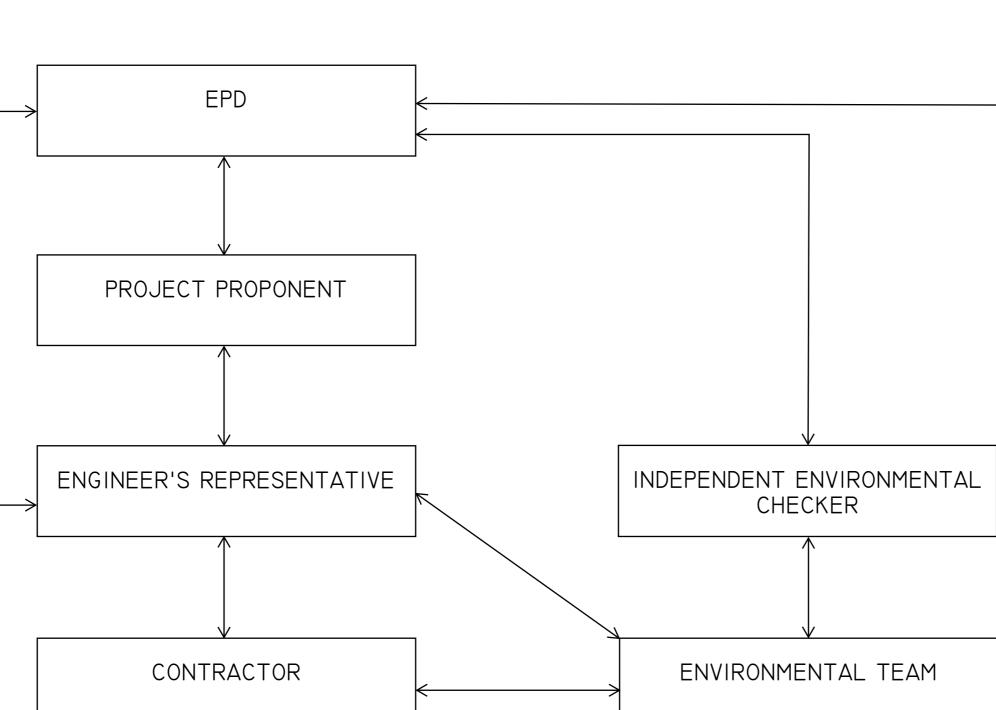
Contract DC/2019/10 - YLEPP - Main Works for Stage 1 Monthly Progress Report No. 41- 3MRP (Mar 24)

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Date	Revision	Checked	Approved
31-Mar-24	Rev. 0		

Appendix B Project Organization Chart





LINE OF COMMUNICATION

LEGEND:



PROJECT ^{東目}

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

CLIENT

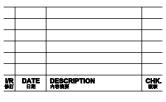


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SUB-CONSULTANTS 分判工程期間公司

ISSUE/REVISION



S1

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SCALE	DIMENS 尺寸單位

SCALE 此例	DIMENSION UNIT 尺寸平位
A3 1 : 40000	METRES

KEY PLAN ★헤르

PROJECT NO.	

ACT NO.

60505476

CE 3/2015 (DS)

SHEET TITLE 副紙名第

PROJECT ORGANISATION

SHEET NUMBER

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 \leq 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 µg/m³.

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

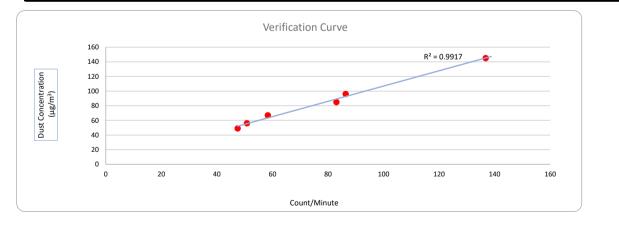
Information of Calibrated Equipement							
28-Nov-23	to	30-Nov-24	Next Verification Test Date:	28-Nov-24			
	Sibata LD-5R	1					
882106							
RPT-23-HVS-0068		068					
AM2, location near the Leachate Treatment Works within the NEN			ent Works within the NENTX Landfill				
	RF	28-Nov-23 to Sibata LD-5R Sibata LD-5R 882106 RPT-23-HVS-00	28-Nov-23 to 30-Nov-24 Sibata LD-5R 882106 882106 RPT-23-HVS-0068	28-Nov-23 to 30-Nov-24 Next Verification Test Date: Sibata LD-5R 882106 882106			

	Standard Equipment Informat	tion
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	4166
Last Calibration Date:	4-Nov-23	19-Jun-23
Next Calibration Date:	3-Jan-24	19-Jun-24

	Equipement Vertification Result									
Verification		Duration			Results from	n Calibrated Equipement	Results from Standard Equipment			
Test No.	Date	Start-time	e End-time Elapsed Tim (in min)		Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis			
1	28/11/2023	8789.68	8792.68	180.00	15546	86	96			
2	28/11/2023	8792.68	8795.68	180.00	14944	83	85			
3	28/11/2023	8795.68	8798.68	180.00	8543	47	49			
4	30/11/2023	8798.68	8801.68	180.00	10499	58	67			
5	30/11/2023	8801.68	8804.68	180.00	24622	137	145			
6	30/11/2023	8804.68	8807.68	180.00	9145	51	56			

Linear Regression of y on x

ſ	Slope, K factor:	<u>1.0437</u>	Intercept:	<u>2.4993</u>	*Correlation Coefficient,R:	<u>0.9958</u>
	Verification Test Result:	Strong Correlation,	Results were accepted.		* If the Correlation Coefficient, R is <0.5. Chec	king and Re-verification are required.



Operated By:

Checked By:

Andy Li Project Technician, Environmental

Date: 30-11-2023

Date:

30-11-2023

Tandy Tse

Senior Consultant, Environmental



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

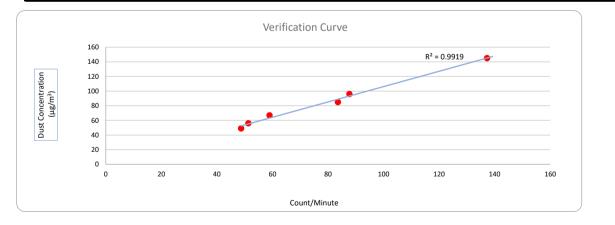
Information of Calibrated Equipement							
28-Nov-23	to	30-Nov-23	Next Verification Test Date:	28-Nov-24			
	Sibata LD-5R						
882107							
RPT-23-HVS-0069		69					
AM2, location near the Leachate Treatment			tment Works within the NENTX Landfill				
	RF	28-Nov-23 to Sibata LD-5R 882107 RPT-23-HVS-00 882107	28-Nov-23 to 30-Nov-23 Sibata LD-5R 882107 882107 RPT-23-HVS-0069	28-Nov-23 to 30-Nov-23 Sibata LD-5R 882107			

	Standard Equipment Informat	tion
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	4166
Last Calibration Date:	4-Nov-23	19-Jun-23
Next Calibration Date:	3-Jan-24	19-Jun-24

	Equipement Vertification Result									
Verification		Duration			Results from	a Calibrated Equipement	Results from Standard Equipment			
Test No.	Date	Start-time	-time End-time Elapsed Time (in min)		Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m³) y-axis			
1	28/11/2023	8789.68	8792.68	180.00	15789	88	96			
2	28/11/2023	8792.68	8795.68	180.00	15045	84	85			
3	28/11/2023	8795.68	8798.68	180.00	8765	49	49			
4	30/11/2023	8798.68	8801.68	180.00	10612	59	67			
5	30/11/2023	8801.68	8804.68	180.00	24711	137	145			
6	30/11/2023	8804.68	8807.68	180.00	9235	51	56			

Linear Regression of y on x

Γ	Slope, K factor:	<u>1.0468</u>	Intercept:	<u>1.4320</u>	*Correlation Coefficient,R:	<u>0.9959</u>
	Verification Test Result:	Strong Correlation,	Results were accepted.		* If the Correlation Coefficient, R is <0.5. Chec	king and Re-verification are required.



Operated By:

Checked By:

Andy Li Project Technician, Environmental

Date: 30-11-2023

Tandy Tse

Senior Consultant, Environmental

Date:

30-11-2023

Noise Quality Monitoring Equipment



Certificate of Calibration

for

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

Submitted by:

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

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

\checkmark	Within
	Outside

Muni 20000 (20. 10. 10.

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: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by: Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Page 1 of 2

Certificate No.: APJ23-090-CC002

Date of issue: 27 October 2023

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 F-mail:inguiry@aa-lab.com

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:	24.4 °C
Air Pressure:	1013 hPa
Relative Humidity:	65.4 %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	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	94.0

Note:

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



Certificate No.: APJ23-090-CC002

Page 2 of 2

Certificate of Calibration

for

Description:	Sound Level Calibrator
Manufacturer:	RION
Type No.:	NC-75
Serial No.:	35124529

Submitted by:

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

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

\checkmark	Within
	Outside

(A+A)

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: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by:

Calibration Technician

Date of issue: 27 October 2023

Certified by:

Mr. Ng Yan Wa Xaboratory Manager



Page 1 of 2

Certificate No.: APJ23-090-CC003

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

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:	24.4 °C
Air Pressure:	1013 hPa
Relative Humidity:	64. <u>5</u> %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	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	94.0

Note:

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



Page 2 of 2

Certificate No.: APJ23-090-CC003



Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	NTi Audio
Type No.:	XL2 (Serial No.: A2A-09696-E0)
Microphone:	ACO 7052 (Serial No.:73780)
Preamplifier:	NTi Audio MA220 (Serial No.:6282)

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 – 8kHz)
 □ 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: 28 February 2024

Date of calibration: 02 March 2024

Date of NEXT calibration: 01 March 2025

Calibrated by: Calibration Technician

Date of issue: 02 March 2024

Certificate No.: APJ23-146-CC003

Certified by:_

Mr. Ng Yan Wa Laboratory Manager

age 1 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

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:

22.9 °C
1005 hPa
61.2 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	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. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.1	Ref
30-130	dBA	SPL	Fast	104	1000	104.1	±0.3
				114		114.1	±0.3

Time Weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	CDI	Fast	94	1000	94.1	Ref
30-130	uва	SPL	Slow	94	94 1000	94.1	±0.3

Page 2 of 4

(A+A)

Certificate No.: APJ23-146-CC003

Frequency Response

Linear Response

Sett	Setting of Unit-under-test (UUT)			Appl	Applied value		IEC 61672 Class
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.0	±2.0
					63	94.1	±1.5
h 5 - J					125	94.1	±1.5
					250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.1	Ref
					2000	94.4	±1.6
					4000	95.2	±1.6
					8000	94.5	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.6	-39.4 ±2.0
					63	67.9	-26.2±1.5
					125	78.0	-16.1±1.5
				250	85.4	-8.6±1.4	
30-130	dBA	SPL	Fast	94	500	90.9	-3.2±1.4
					1000	94.1	Ref
					2000	95.6	+1.2±1.6
					4000	96.2	+1.0±1.6
					8000	93.4	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			App	ied value	UUT Reading,	IEC 61672 Class	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.0	-3.0 ±2.0
	-				63	93.3	-0.8 ±1.5
					125	93.9	-0.2 ±1.5
	1				250	94.1	-0.0 ±1.4
30-130	dBC	SPL	Fast	94	500	94.2	-0.0±1.4
					1000	94.1	Ref
					2000	94.2	-0.2 ±1.6
					4000	94.4	-0.8 ±1.6
					8000	91.5	-3.0 +2.1: -3.1

Certificate No.: APJ23-146-CC003



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

5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
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.: APJ23-146-CC003



Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	NTi Audio
Type No.:	XL2 (Serial No.: A2A-09696-E0)
Microphone:	ACO 7052 (Serial No.:73780)
Preamplifier:	NTi Audio MA220 (Serial No.:6282)

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 – 8kHz)
 □ 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: 28 February 2024

Date of calibration: 02 March 2024

Date of NEXT calibration: 01 March 2025

Calibrated by: Calibration Technician

Date of issue: 02 March 2024

Certificate No.: APJ23-146-CC003

Certified by:_

Mr. Ng Yan Wa Laboratory Manager

age 1 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

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:

22.9 °C
1005 hPa
61.2 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of Ur	nit-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Setti	Setting of Unit-under-test (UUT)				Applied value		Applied value UUT Reading, IEC 61672		IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB		
				94		94.1	Ref		
30-130	dBA	SPL	Fast	104	1000	104.1	±0.3		
				114		114.1	±0.3		

Time Weighting

Sett	ing of Uı	nit-under-t	est (UUT)	Appl	ied value	UUT Reading,	Г Reading, IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
30-130	dD A	CDI	Fast	04	1000	94.1	Ref	
30-130	0 dBA SPL Slow 94 1000	94.1	±0.3					

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(A+A)

Certificate No.: APJ23-146-CC003

Frequency Response

Linear Response

Sett	Setting of Unit-under-test (UUT)			Appl	Applied value		IEC 61672 Class
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.0	±2.0
					63	94.1	±1.5
h 5 - J					125	94.1	±1.5
					250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.1	Ref
					2000	94.4	±1.6
					4000	95.2	±1.6
					8000	94.5	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.6	-39.4 ±2.0
					63	67.9	-26.2±1.5
					125	78.0	-16.1±1.5
				250	85.4	-8.6±1.4	
30-130	dBA	SPL	Fast	94	500	90.9	-3.2±1.4
					1000	94.1	Ref
					2000	95.6	+1.2±1.6
					4000	96.2	+1.0±1.6
					8000	93.4	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			App	Applied value		IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.0	-3.0 ±2.0
	-				63	93.3	-0.8 ±1.5
					125	93.9	-0.2 ±1.5
	1				250	94.1	-0.0 ±1.4
30-130	dBC	SPL	Fast	94	500	94.2	-0.0±1.4
					1000	94.1	Ref
					2000	94.2	-0.2 ±1.6
					4000	94.4	-0.8 ±1.6
					8000	91.5	-3.0 +2.1: -3.1

Certificate No.: APJ23-146-CC003



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

5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
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.: APJ23-146-CC003



Certificate of Calibration

for

Description:	Sound Level Meter	
Manufacturer:	NTi Audio	
Type No.:	XL2 (Serial No.: A2A-13548-E0)	
Microphone:	ACO 7052 (Serial No.:84474)	
Preamplifier:	NTi Audio MA220 (Serial No.:7989)	

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 − 8kHz)
 □ 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: 28 February 2024

Date of calibration: 02 March 2024

Date of NEXT calibration: 01 March 2025

Calibrated by: Calibration Technician

Date of issue: 02 March 2024

Certificate No.: APJ23-146-CC004

Certified by:

Mr. Ng Yan Wa aboratory Manager Page 1 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

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:	22.4 °C
Air Pressure:	1005 hPa
Relative Humidity:	59.6 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS	

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.1	Ref
30-130	dBA	SPL	Fast	104	1000	104.2	±0.3
				114		114.2	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20.120	dBA	SPL	Fast	94	0.4 1000	94.1	Ref
30-130 c	uва	SPL	Slow		1000	94.2	±0.3

Certificate No.: APJ23-146-CC004

Page 2 of 4



Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			App	Applied value		IEC 61672 Class	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.2	±1.5
34					125	94.2	±1.5
125 = 3					250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.2	±1.4
					1000	94.1	Ref
					2000	94.3	±1.6
					4000	94.8	±1.6
					8000	93.8	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class				
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB			
					31.5	54.7	-39.4 ±2.0			
					63	68.0	-26.2 ±1.5			
					125	78.1	-16.1 ±1.5			
			Fast 94		250	85.5	-8.6±1.4			
30-130	dBA	SPL		94	500	91.0	-3.2 ± 1.4			
								1000	1000	94.1
					2000	95.5	$+1.2\pm1.6$			
			4000	95.8	+1.0±1.6					
					8000	92.7	-1.1+2.1; -3.1			

C-weighting

Setting of Unit-under-test (UUT)			App	Applied value		IEC 61672 Class	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.1	-3.0 ±2.0
					63	93.3	-0.8±1.5
					125	94.0	-0.2 ±1.5
					250	94.1	-0.0 ± 1.4
30-130	dBC	SPL	Fast	Fast 94	500	94.2	-0.0 ±1.4
					1000	94.1	Ref
					2000	94.2	-0.2 ±1.6
			The first second		4000	94.0	-0.8±1.6
					8000	90.8	-3.0 +2.1: -3.1

Certificate No.: APJ23-146-CC004

(A+A)Page 3 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

5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.05
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
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.: APJ23-146-CC004

Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	NTi Audio
Type No.:	XL2 (Serial No.: A2A-13661-E0)
Microphone:	ACO 7052 (Serial No.:84464)
Preamplifier:	NTi Audio MA220 (M2211) (Serial No.:5287)

Submitted by:

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

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

✓ Within (31.5Hz − 8kHz)
□ 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

Certified by:

Date of receipt: 31 August 2023

Date of calibration: 04 September 2023

Date of NEXT calibration: 03 September 2024

Calibrated by: Calibration Technician

Date of issue: 04 September 2023

Certificate No.: APJ23-053-CC002

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

Mr. Ng Yan Wa Laboratory Manager

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:	23.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	62.6 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS	

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

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

Time Weighting

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
30-130 dBA SPL	CDI	Fast	04	- 94	04	1000	94.0	Ref
	uВА	dBA SPL	Slow		1000	94.0	±0.3	

Certificate No.: APJ23-053-CC002

(A+A)

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				Appl	lied value	UUT Reading,	IEC 61672 Class 1			
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB			
					31.5	94.1	±2.0			
	1.9				63	94.1	±1.5			
					125	94.1	±1.5			
			Fast				94	250	94.1	±1.4
30-130	dB	SPL		Fast	Fast	Fast		500	94.1	±1.4
				1000	94.0	Ref				
				2000	93.9	±1.6				
			4000	93.9	±1.6					
			8000	94.7	+2.1; -3.1					

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class										
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB									
					31.5	54.7	-39.4 ±2.0									
					63	68.2	-26.2±1.5									
30-130 dBA SPL														125	78.0	-16.1±1.5
					250	85.5	-8.6±1.4									
	Fast	94	94	94 500 90.8	-3.2 ± 1.4											
									1000	94.0	Ref					
					2000	95.1	$+1.2\pm1.6$									
			4000	94.9	+1.0±1.6											
		8000	93.5	-1.1+2.1; -3.1												

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class									
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB								
		31.5	91.2	-3.0±2.0											
1.5					63	93.5	-0.8 ±1.5								
			125	94.0	-0.2 ±1.5										
														250	94.1
30-130	dBC	SPL	Fast	94	500	94.1	-0.0±1.4								
					1000	94.0	Ref								
													2000	93.7	-0.2 ±1.6
			4000	93.2	-0.8±1.6										
					8000	91.6	-3.0 +2.1: -3.1								



Certificate No.: APJ23-053-CC002

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 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	± 0.10
	250 Hz	± 0.10
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
	8000 Hz	± 0.10
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.: APJ23-053-CC002

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Water Quality Monitoring Equipment



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.	: R-BD030022
Date of Issue	: 05 March 2024
Page No.	:1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS Multi Parameters
Manufacturer :	YSI
Serial Number :	22D100436
Date of Received :	28 February 2024
Date of Calibration :	28 February 2024
Date of Next Calibration :	28 May 2024
Request No. :	D-BD030022

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
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.18	0.18	Satisfactory
7.42	7.35	-0.07	Satisfactory
10.01	9.95	-0.06	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
18.0	17.1	-0.9	Satisfactory
27.5	26.7	-0.8	Satisfactory
35.5	35.6	0.1	Satisfactory

Tolerance of Temperature should be less than \pm 2.0 ($^{\circ}C$)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.34	-6.60	Satisfactory
20	18.93	-5.35	Satisfactory
30	29.35	-2.17	Satisfactory

Tolerance of Salinity should be less than \pm 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.	:R-
Date of Issue	: 05
Page No.	:20

: R-BD030022 : 05 March 2024 : 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.51	7.78	0.27	Satisfactory
3.81	3.42	-0.39	Satisfactory
2.28	1.80	-0.48	Satisfactory
0.61	0.18	-0.43	Satisfactory

Tolerance of Dissolved oxygen should be less than $\pm\,0.5$ (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	1.33		Satisfactory
10	10.04	0.4	Satisfactory
20	19.25	-3.8	Satisfactory
100	105.75	5.8	Satisfactory
800	787.30	-1.6	Satisfactory

Tolerance of Turbidity should be less than \pm 10.0 (%)

Remark(s)

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

The results relate only to the calibrated equipment as received

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

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

•The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

---- END OF REPORT ----



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.
Date of Issue
Page No.

: R-BD040041 : 16 April 2024 : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)
Manufacturer :	YSI (a xylem brand)
Serial Number :	22C106561
Date of Received :	10 April 2024
Date of Calibration :	16 April 2024
Date of Next Calibration :	15 July 2024
Request No. :	D-BD040041

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
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.14	0.14	Satisfactory
7.42	7.56	0.14	Satisfactory
10.01	10.09	0.08	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
11.0	11.1	0.1	Satisfactory
26.0	25.1	-0.9	Satisfactory
40.0	38.7	-1.3	Satisfactory

Tolerance of Temperature should be less than $\pm\,2.0$ (^{o}C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result Satisfactory	
10	9.68	-3.20		
20	19.27	-3.65	Satisfactory	
30	28.85	-3.83	Satisfactory	

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

--- CONTINUED ON NEXT PAGE ---

LEE Chun-ning Assistant Manager

AUTHORIZED SIGNATORY:



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.				
Date of Issue				
Page No.				

: R-BD040041 : 16 April 2024 : 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result Satisfactory	
8.14	8.59	0.45		
5.35	5.12	-0.23	Satisfactory	
2.92	2.72	-0.20	Satisfactory	
0.32	0.26	-0.06	Satisfactory	

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result Satisfactory	
0	0.88			
10	9.62	-3.8	Satisfactory	
20	18.76	-6.2	Satisfactory	
100	98.45	-1.6	Satisfactory	
800	770.86	-3.6	Satisfactory	

Tolerance of Turbidity should be less than \pm 10.0 (%)

Remark(s)

•The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

The results relate only to the calibrated equipment as received

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

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

•The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---

Appendix E Environmental Monitoring Schedule

Environmental Monitoring Schedule (May 2024)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1 WQM Mid Flood (13:08) Mid Ebb (15:30)	2	3 WQM Mid Flood (15:25) Mid Ebb (10:35)	4
5	6 AQM, NM, WQM Mid Flood (18:30) Mid Ebb (12:31)	7	8 WQM Mid Flood (09:55) Mid Ebb (013:30)	9	10 WQM Mid Flood (08:22) Mid Ebb (14:56)	11 AQM
12	13 WQM, EMB (Day) Mid Flood (17:10) Mid Ebb (09:22)	14	15 WQM Mid Flood (13:01) Mid Ebb (15:12)	16	17 WQM, AQM, NM Mid Flood (15:13) Mid Ebb (10:09)	18
19	20 WQM Mid Flood (18:11) Mid Ebb (11:53)	21	22 WQM Mid Flood (17:45) Mid Ebb (12:57)	23 ANRM, AQM, NM	24 WQM Mid Flood (09:05) Mid Ebb (14:13)	25
26	27 WQM Mid Flood (08:46) Mid Ebb (16:18)	28	29 WQM, AQM, NM Mid Flood (10:25) Mid Ebb (17:56)	30	31 WQM Mid Flood (13:26) Mid Ebb (08:44)	

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 2024)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3 WQM Mid Flood (09:15) Mid Ebb (17:00)	4 AQM, NM	5 WQM Mid Flood (09:50)	6	7 WQM Mid Flood (17:15) Mid Ebb (12:30)	8 AQM
9	10 WQM Mid Flood (09:00) Mid Ebb (13:15)	11	12 WQM Mid Flood (09:30) Mid Ebb (15:30)	13 AQM, NM, EMB (Day)	14 WQM Mid Flood (09:43) Mid Ebb (16:50)	15
16	17 WQM Mid Flood (12:40) Mid Ebb (17:55)	18	19 WQM, AQM, NM, ANRM, EMB (Night) Mid Flood (09:20)	20	21 WQM Mid Flood (17:30) Mid Ebb (12:00)	22
23	24 WQM Mid Flood (08:10) Mid Ebb (13:00)	25 AQM, NM	26 WQM Mid Flood (09:00) Mid Ebb (14:10)	27	28 WQM Mid Flood (08:50) Mid Ebb (15:20)	29 AQM
30						

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 2024)

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

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.

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

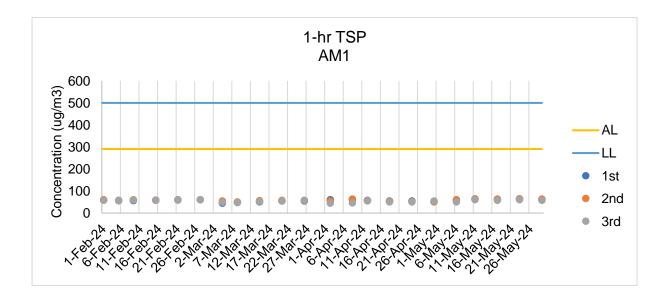
AM1 - Topfine Machinery (China) Co. Ltd.

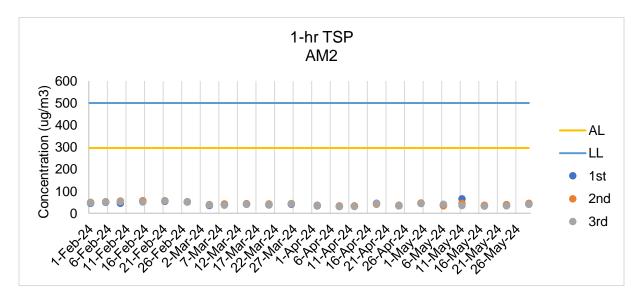
			1.	-hour TSP (µg/m	1 ³)		
Date	Weather	Start	1st	2nd	3rd	Action Level	Limit Level
	Condition	Time	Measurement	Measurement	Measurement	(ug/m ³)	(ug/m ³)
6/05/2024	sunny	8:20	59	60	51		
11/05/2024	sunny	8:03	63	65	60		
17/05/2024	sunny	8:11	62	63	58	291	500
23/05/2024	sunny	8:26	63	65	60		
29/05/2024	sunny	9:00	60	64	58		
		Min		51			
		Max		65			
		Average		61			

AM2 - Squatter house at the west of Yuen Long STW

			1.	-hour TSP (µg/m	1 ³)		
Date	Weather	Start	1st	2nd	3rd	Action Level	Limit Level
	Condition	Time	Measurement	Measurement	Measurement	(ug/m ³)	(ug/m ³)
6/05/2024	sunny	13:09	36	33	40		
11/05/2024	sunny	13:12	65	45	35		
17/05/2024	sunny	13:25	34	36	32	296	500
23/05/2024	sunny	13:44	35	39	33		
29/05/2024	sunny	13:21	41	45	40		
		Min		32			
		Max		65			
		Average		39			

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





Air Quality Monitoring Results

Noise Monitoring Results

Noise Impact Monitoring Result for Contract No. SPW 02/2023

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

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6/05/2024	9:12	60.5	62.6	58.2	0.2	sunny	75
17/05/2024	8:55	60.9	62.9	57.5	0.1	sunny	75
23/05/2024	9:03	61.5	64.2	57.5	0.9	sunny	75
29/05/2024	9:19	62.2	66.2	56.5	0.4	sunny	75
	Max	62.2					
	Min	60.5					

CM1 - Squatter house to the north of YLSTW

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)
6/05/2024	13:09	59.7	63.5	56.5	0.1	sunny	75
17/05/2024	13:25	60.8	64.5	57.8	0.2	sunny	75
23/05/2024	13:44	61.5	66.5	58.2	1.2	sunny	75
29/05/2024	13:21	63.4	67.6	60.4	0.2	sunny	75
	Max	63.4					
	Min	59.7					

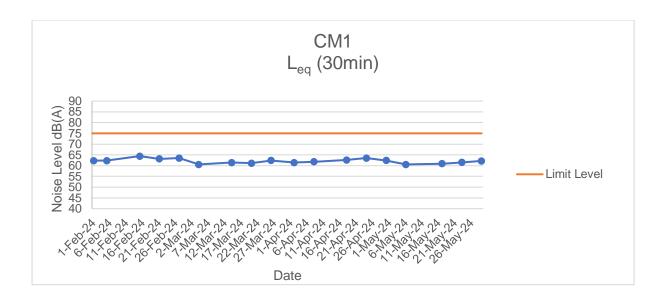
CM3 - Squatter house to the east of YLSTW

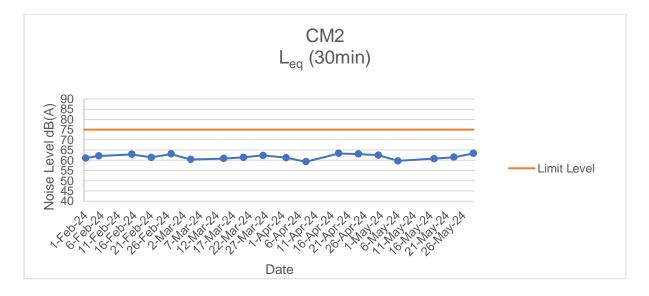
Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6/05/2024	10:31	64.8	68.5	61.2	0.5	sunny	75
17/05/2024	10:17	63.5	67.5	60.2	0.8	sunny	75
23/05/2024	10:40	64.7	68.9	62.5	1.7	sunny	75
29/05/2024	10:54	62.8	66.2	59.5	0.6	sunny	75
	Max	64.8					
	Min	62.8					

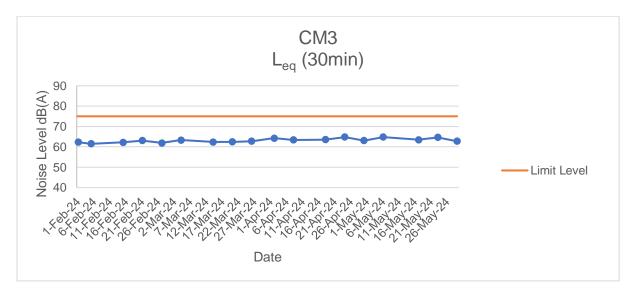
Note:

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

No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.







Noise Monitoring Results

Water Quality Monitoring Results

									e						In-s	itu Measu	rement							Labora Analy	-
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Current Speed (m/s)	Current Direction (°)	р	ł	Salinit	y (ppt)	Tempe (degre		DO Sat (%	turation %)	DO (r	ng/L)	Turbidity	(NTU)	Total Sus Solids (
										()		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	1/05/2024	Mid-Flood	Cloudy	Low	14:59	2.6	М	1.30	1	0.08	177.181	7.16	7.17	3.66	3.68	26.5	26.50	34.6	33.85	2.6	2.55	22.60	22.405	70	65
M1	1/05/2024	Mid-Flood	Cloudy	Low	14:59	2.6	М	1.30	2	0.00	177.101	7.17	7.17	3.7	5.00	26.5	20.50	33.1	00.00	2.49	2.00	22.21	22.400	60	00
M2	1/05/2024	Mid-Flood	Cloudy	Low	15:24	2.2	М	1.10	1	0.091	179.727	7.15	7.15	3.45	3.42	26.5	26.50	35.9	36.11	2.7	2.72	21.30	21.48	71	66
M2	1/05/2024	Mid-Flood	Cloudy	Low	15:24	2.2	М	1.10	2	0.001	110.121	7.15	7.10	3.38	0.42	26.5	20.00	36.3	00.11	2.73	2.12	21.66	21.40	61	00
M3	1/05/2024	Mid-Flood	Cloudy	Low	15:36	2.1	М	1.05	1	0.095	174.485	7.2	7.20	3.89	3.92	26.5	26.55	50.8	49.81	3.82	3.75	36.76	36.845	67	66
M3	1/05/2024	Mid-Flood	Cloudy	Low	15:36	2.1	М	1.05	2	0.035	174.405	7.19	1.20	3.95	0.02	26.6	20.00	48.8	+3.01	3.67	5.75	36.93	50.045	65	00
M1	1/05/2024	Mid-Ebb	Cloudy	Low	13:18	2.5	М	1.25	1	0.077	319.823	7.15	7.16	3.25	3.21	26.3	26.30	34.0	33.25	2.56	2.50	19.90	19.82	58	57
M1	1/05/2024	Mid-Ebb	Cloudy	Low	13:19	2.5	М	1.25	2	0.077	519.025	7.17	7.10	3.17	5.21	26.3	20.50	32.5	55.25	2.44	2.50	19.74	19.02	55	57
M2	1/05/2024	Mid-Ebb	Cloudy	Low	12:48	2	М	1.00	1	0.067	342.664	7.18	7.18	3.34	3.31	26.3	26.35	37.4	37.31	2.81	2.81	18.55	18.54	64	69
M2	1/05/2024	Mid-Ebb	Cloudy	Low	12:49	2	М	1.00	2	0.007	572.004	7.18	7.10	3.28	5.51	26.4	20.00	37.2	57.51	2.8	2.01	18.53	10.04	74	- 03
M3	1/05/2024	Mid-Ebb	Cloudy	Low	13:36	1.7	М	0.85	1	0.062	220.050	7.19	7 10	3.77	2.04	26.3	26.25	50.0	40.61	3.76	2 72	34.43	24.07	60	E 1
M3	1/05/2024	Mid-Ebb	Cloudy	Low	13:37	1.7	М	0.85	2	0.063	338.859	7.19	7.19	3.84	3.81	26.4	26.35	49.2	49.61	3.7	3.73	34.11	34.27	41	51

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

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 Ebb Tide						
Monitoring	D	0	N	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	71.7	77.675

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Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Current Speed (m/s)	Current Direction (°)	pł	ł	Salinit	y (ppt)	Tempe (degr	erature ee C)	DO Sa (%	turation %)	DO (r	ng/L)	Turbidity (NTU)	Total Sus Solids (
										. ,	.,	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	3/05/2024	Mid-Flood	Sunny	Low	10:00	2.4	М	1.20	1	0.08	164.92	7.2	7.21	3.50	3.47	26.1	26.10	33.9	34.05	2.55	2.56	26.44 2	6.325	19	21
M1	3/05/2024	Mid-Flood	Sunny	Low	10:00	2.4	М	1.20	2	0.00	104.52	7.22	1.21	3.44	0.47	26.1	20.10	34.2	04.00	2.57	2.00	26.21	0.020	23	21
M2	3/05/2024	Mid-Flood	Sunny	Low	10:33	1.9	М	0.95	1	0.083	163.909	7.19	7.20	3.67	3.71	26.1	26.10	35.4	34.98	2.66	2.63	27.88 2	8.055	18	18
M2	3/05/2024	Mid-Flood	Sunny	Low	10:34	1.9	М	0.95	2	0.000	100.000	7.21	1.20	3.74	0.71	26.1	20.10	34.6	04.00	2.6	2.00	28.23	0.000	17	10
M3	3/05/2024	Mid-Flood	Sunny	Low	10:48	1.8	М	0.90	1	0.094	186.321	7.14	7.14	4.11	4.15	26.1	26.15	46.3	46.55	3.48	3.50	33.28	3.25	14	16
M3	3/05/2024	Mid-Flood	Sunny	Low	10:48	1.8	М	0.90	2	0.054	100.521	7.13	7.14	4.19	4.10	26.2	20.15	46.8	+0.00	3.52	0.00	33.22	55.25	18	10
M1	3/05/2024	Mid-Ebb	Sunny	Low	15:20	2.3	М	1.15	1	0.071	318.12	7.13	7.14	2.98	2.99	25.9	25.95	35.5	35.64	2.67	2.68	26.51	6.625	19	17
M1	3/05/2024	Mid-Ebb	Sunny	Low	15:22	2.3	М	1.15	2	0.071	510.12	7.15	7.14	3	2.99	26.0	20.90	35.8	55.04	2.69	2.00	26.74	0.025	15	17
M2	3/05/2024	Mid-Ebb	Sunny	Low	14:52	2	М	1.00	1	0.058	329.632	7.18	7.19	3.35	3.36	25.9	25.95	36.8	35.91	2.77	2.70	25.40 2	5.575	18	17
M2	3/05/2024	Mid-Ebb	Sunny	Low	14:53	2	М	1.00	2	0.058	529.052	7.2	7.19	3.37	5.50	26.0	20.90	35.0	55.91	2.63	2.70	25.75	5.575	15	17
M3	3/05/2024	Mid-Ebb	Sunny	Low	15:33	1.8	М	0.90	1	0.075	220 444	7.14	7 4 0	3.88	2.05	25.9	05 00	42.0	44.40	3.16	2.00	32.33	0.40	13	10
M3	3/05/2024	Mid-Ebb	Sunny	Low	15:34	1.8	М	0.90	2	0.075	330.114	7.12	7.13	3.81	3.85	25.9	25.90	40.2	41.10	3.02	3.09	32.51	32.42	11	12

Remark

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2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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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.

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

									te						In-s	itu Measu	irement							Labor Anal	,
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	erature ee C)	DO Sat (%		DO (r	ng/L)	Turbidity	y (NTU)	Total Sus Solids (
										. ,	. ,	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	6/05/2024	Mid-Flood	Cloudy	Low	12:08	2.6	М	1.30	1	0.091	163.226	7.16	7.17	3.68	3.69	27.1	27.10	38.0	37.71	2.86	2.84	16.88	16.83	59	58
M1	6/05/2024	Mid-Flood	Cloudy	Low	12:08	2.6	М	1.30	2	0.001	100.220	7.17	7.17	3.7	0.00	27.1	21.10	37.4	07.71	2.81	2.04	16.78	10.00	56	
M2	6/05/2024	Mid-Flood	Cloudy	Low	12:46	2.1	М	1.05	1	0.08	171.447	7.11	7.12	3.77	3.81	27.1	27.15	36.8	36.44	2.77	2.74	15.80	15.66	51	51
M2	6/05/2024	Mid-Flood	Cloudy	Low	12:47	2.1	М	1.05	2	0.00	17 1.447	7.12	1.12	3.85	0.01	27.2	27.10	36.0	00.11	2.71	2.14	15.52	10.00	51	01
M3	6/05/2024	Mid-Flood	Cloudy	Low	12:55	2	М	1.00	1	0.078	184.706	7.18	7.18	4.12	4.09	27.1	27.15	49.6	49.48	3.73	3.72	30.12	30.12	56	55
M3	6/05/2024	Mid-Flood	Cloudy	Low	12:55	2	М	1.00	2	0.070	104.700	7.17	7.10	4.05	4.03	27.2	27.15	49.3	49.40	3.71	5.72	30.12	50.12	54	- 55
M1	6/05/2024	Mid-Ebb	Cloudy	Low	18:21	2.4	М	1.20	1	0.066	313.355	7.15	7.15	3.33	3.37	26.8	26.80	34.8	34.58	2.62	2.60	16.97	17.095	49	51
M1	6/05/2024	Mid-Ebb	Cloudy	Low	18:21	2.4	Μ	1.20	2	0.000	515.555	7.14	7.15	3.4	5.57	26.8	20.00	34.3	54.50	2.58	2.00	17.22	17.095	52	51
M2	6/05/2024	Mid-Ebb	Cloudy	Low	18:00	1.8	М	0.90	1	0.073	315.548	7.12	7.13	3.65	3.64	26.8	26.80	34.2	33.45	2.57	2.52	17.05	17.055	54	56
M2	6/05/2024	Mid-Ebb	Cloudy	Low	18:00	1.8	М	0.90	2	0.073	515.540	7.14	7.15	3.63	5.04	26.8	20.00	32.7	55.45	2.46	2.02	17.06	17.055	57	50
M3	6/05/2024	Mid-Ebb	Cloudy	Low	18:35	1.8	М	0.90	1	0.070	202 424	7.15	744	4.44	4.40	26.8	00.05	45.1	44.00	3.39	2.20	31.22	24.45	42	20
M3	6/05/2024	Mid-Ebb	Cloudy	Low	18:35	1.8	М	0.90	2	0.078	302.121	7.13	7.14	4.4	4.42	26.9	26.85	44.3	44.69	3.33	3.36	31.08	31.15	30	36

Remark

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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	ſU	SS				
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	ΓU	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)	Replicate	Current Speed (m/s)	Current Direction (°)	pl	4	Salinit	y (ppt)	Tempe (degr	erature ee C)		turation %)	DO (r	ng/L)	Turbidity	/ (NTU)	Total Sus Solids	ispended (mg/L)
											.,	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	8/05/2024	Mid-Flood	Cloudy	Low	13:15	2.8	М	1.40	1	0.074	165.604	7.11	7.11	2.67	2.64	26.5	26.55	33.6	34.25	2.53	2.58	21.54	21.6	27	30
M1	8/05/2024	Mid-Flood	Cloudy	Low	13:15	2.8	М	1.40	2	0.074	105.004	7.1	7.11	2.6	2.04	26.6	20.00	34.8	04.20	2.62	2.50	21.66	21.0	33	50
M2	8/05/2024	Mid-Flood	Cloudy	Low	13:41	2.4	М	1.20	1	0.085	183.543	7.08	7.09	2.81	2.81	26.5	26.55	36.0	36.24	2.71	2.73	20.63	20.63	47	43
M2	8/05/2024	Mid-Flood	Cloudy	Low	13:42	2.4	М	1.20	2	0.000	100.040	7.09	7.00	2.8	2.01	26.6	20.00	36.4	00.24	2.74	2.70	20.63	20.00	38	
M3	8/05/2024	Mid-Flood	Cloudy	Low	13:52	2.2	M	1.10	1	0.081	177.928	7.12	7.11	3.11	3.14	26.5	26.55	47.6	48.28	3.58	3.63	36.66	36.715	38	34
M3	8/05/2024	Mid-Flood	Cloudy	Low	13:53	2.2	М	1.10	2	0.001	111.520	7.1	7.11	3.17	5.14	26.6	20.00	48.9	40.20	3.68	5.05	36.77	50.715	29	54
M1	8/05/2024	Mid-Ebb	Cloudy	Low	18:28	2.6	М	1.30	1	0.079	324.568	7.07	7.08	2.58	2.61	26.0	26.00	33.9	34.58	2.55	2.60	21.88	21.73	32	33
M1	8/05/2024	Mid-Ebb	Cloudy	Low	18:29	2.6	М	1.30	2	0.075	324.300	7.08	7.00	2.64	2.01	26.0	20.00	35.2	54.50	2.65	2.00	21.58	21.75	33	- 55
M2	8/05/2024	Mid-Ebb	Cloudy	Low	18:00	2.1	М	1.05	1	0.075	309.668	7.08	7.09	2.46	2.45	26.0	26.05	35.1	34.25	2.64	2.58	22.74	22.8	29	34
M2	8/05/2024	Mid-Ebb	Cloudy	Low	18:00	2.1	М	1.05	2	0.075	000.000	7.09	1.03	2.44	2.70	26.1	20.00	33.4	57.25	2.51	2.00	22.86	22.0	38	7
M3	8/05/2024	Mid-Ebb	Cloudy	Low	18:37	2	М	1.00	1	0.060	222 765	7.1	7 00	2.96	2.05	26.0	26.00	50.3	EO 01	3.78	2 02	36.62	26.6	39	44
M3	8/05/2024	Mid-Ebb	Cloudy	Low	18:37	2	М	1.00	2	0.069	332.765	7.08	7.09	2.94	2.95	26.0	26.00	51.3	50.81	3.86	3.82	36.58	36.6	48	44

Remark

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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.

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

For	Flood	Tide	

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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 (°)	pł	ł	Salinit	y (ppt)	Tempe (degr			turation %)	DO (r	ng/L)	Turbidity ((NTU)	Total Sus Solids (spended (mg/L)
											.,	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	10/05/2024	Mid-Flood	Cloudy	Low	14:36	2.5	М	1.25	1	0.091	179.774	7.22	7.23	3.65	3.61	26.9	26.95	37.5	36.51	2.82	2.75	26.11 ,	26.015	25	29
M1	10/05/2024	Mid-Flood	Cloudy	Low	14:36	2.5	М	1.25	2	0.001	175.774	7.23	1.20	3.57	0.01	27	20.00	35.5	00.01	2.67	2.70	25.92	_0.010	32	23
M2	10/05/2024	Mid-Flood	Cloudy	Low	14:59	2.2	М	1.10	1	0.089	163.42	7.18	7.19	3.72	3.76	26.9	26.90	33.6	32.92	2.53	2.48	25.48	25.56	30	32
M2	10/05/2024	Mid-Flood	Cloudy	Low	15:00	2.2	М	1.10	2	0.000	100.42	7.19	7.15	3.79	0.70	26.9	20.00	32.2	02.02	2.42	2.40	25.64	20.00	33	
M3	10/05/2024	Mid-Flood	Cloudy	Low	15:11	2.1	М	1.05	1	0.083	175.306	7.19	7.18	3.89	3.94	26.9	26.95	49.1	50.14	3.69	3.77	32.66	32.825	25	27
M3	10/05/2024	Mid-Flood	Cloudy	Low	15:11	2.1	М	1.05	2	0.000	175.500	7.17	7.10	3.98	0.04	27	20.33	51.2	50.14	3.85	5.77	32.99	52.025	28	21
M1	10/05/2024	Mid-Ebb	Cloudy	Low	9:49	2.4	М	1.20	1	0.073	315.965	7.16	7.17	4.01	4.05	27.0 27.0	27.00	35.2	34.25	2.65	2.58	18.90	18.955	36	36
M1	10/05/2024	Mid-Ebb	Cloudy	Low	9:50	2.4	М	1.20	2	0.075	515.905	7.18	1.17	4.09	4.05		27.00	33.3	34.23	2.5	2.50	19.01	10.955	36	30
M2	10/05/2024	Mid-Ebb	Cloudy	Low	9:25	2.1	М	1.05	1	0.071	304.54	7.18	7.18	3.69	3.67	27.0 27.0	27.00	36.7	36.31	2.76	2.73	17.55	17.6	48	47
M2	10/05/2024	Mid-Ebb	Cloudy	Low	9:26	2.1	М	1.05	2	0.071	504.54	7.18	7.10	3.65	5.07	27.0	21.00	35.9	50.51	2.7	2.75	17.65	17.0	46	77
M3	10/05/2024	Mid-Ebb	Cloudy	Low	9:57	2	М	1.00	1	0.000	220 4 5 0	7.19	7.00	4.42	4.40	27.0	07.00	50.1	50.54	3.77	2.00	30.24	0.005	42	45
M3	10/05/2024	Mid-Ebb	Cloudy	Low	9:58	2	М	1.00	2	0.069	326.158	7.2	7.20	4.44	4.43	27.0	27.00	50.9	50.54	3.83	3.80	29.95	30.095	48	40

Remark

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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.

For	Flood	Tide
FUI	FIDUU	nue

Monitoring	D	0	N	ΓU	SS				
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	ΓU	S	S			
Location	AL	LL	AL	LL	AL	LL			
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68			

									е						ln-s	itu Measu	rement							Labor Anal	-
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Current Speed (m/s)	Current Direction (°)	p⊦	1	Salinit	y (ppt)	Tempe (degr			turation %)	DO (r	ng/L)	Turbidity	y (NTU)	Total Sus Solids (spended (mg/L)
											.,	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	13/05/2024	Mid-Flood	Cloudy	Low	16:41	2.4	М	1.20	1	0.084	190.523	7.17	7.18	2.49	2.48	26.6	26.65	34.6	35.25	2.6	2.65	16.52	16.675	55	50
M1	13/05/2024	Mid-Flood	Cloudy	Low	16:41	2.4	М	1.20	2	0.004	100.020	7.18	7.10	2.46	2.40	26.7	20.00	35.9	00.20	2.7	2.00	16.83	10.070	45	00
M2	13/05/2024	Mid-Flood	Cloudy	Low	17:11	2	М	1.00	1	0.078	182.208	7.13	7.12	2.47	2.46	26.6	26.65	33.9	32.98	2.55	2.48	15.60	15.47	47	50
M2	13/05/2024	Mid-Flood	Cloudy	Low	17:12	2	М	1.00	2	0.070	102.200	7.11	7.12	2.45	2.40	26.7	20.00	32.1	52.50	2.41	2.40	15.34	10.47	53	50
M3	13/05/2024	Mid-Flood	Cloudy	Low	17:27	1.9	М	0.95	1	0.081	184.363	7.13	7.13	2.66	2.62	26.6	26.60	45.4	45.15	3.41	3.40	28.44	28.53	77	64
M3	13/05/2024	Mid-Flood	Cloudy	Low	17:28	1.9	М	0.95	2	0.001	104.505	7.12	7.15	2.57	2.02	26.6	20.00	45.0	45.15	3.38	5.40	28.62	20.55	51	04
M1	13/05/2024	Mid-Ebb	Cloudy	Low	9:30	2.5	М	1.25	1	0.071	302.911	7.17	7.17	2.29	2.25	26.3	26.30	36.6	36.31	2.75	2.73	15.53	15.69	55	57
M1	13/05/2024	Mid-Ebb	Cloudy	Low	9:30	2.5	М	1.25	2	0.071	302.911	7.16	1.17	2.21	2.20	26.3	20.30	36.0	30.31	2.71	2.75	15.85	15.09	58	57
M2	13/05/2024	Mid-Ebb	Cloudy	Low	8:52	2	М	1.00	1	0.067	317.467	7.11	7.12	2.32	2.30	26.3	26.30	33.5	34.05	2.52	2.56	14.91	14.865	58	54
M2	13/05/2024	Mid-Ebb	Cloudy	Low	8:53	2	М	1.00	2	0.007	517.407	7.12	1.12	2.27	2.30	26.3	20.30	34.6	54.05	2.6	2.00	14.82	14.005	50	54
M3	13/05/2024	Mid-Ebb	Cloudy	Low	9:41	1.8	М	0.90	1	0.004	000.400	7.2	7.04	2.83	0.04	26.3	00.00	45.1	45.00	3.39	0.45	26.38	00.055	74	
M3	13/05/2024	Mid-Ebb	Cloudy	Low	9:41	1.8	М	0.90	2	0.081	302.168	7.22	7.21	2.78	2.81	26.3	26.30	46.6	45.82	3.5	3.45	26.33	26.355	51	63

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

For	Flood	Tide
FUI	FIDUU	nue

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 Ebb Tide						
Monitoring	D	0	N	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	69.9	75.725

									te						In-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	Η	Salinit	y (ppt)	Tempe (degre			turation %)	DO (r	ng/L)	Turbidity	y (NTU)	Total Sus Solids (
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	15/05/2024	Mid-Flood	Sunny	Low	14:42	2.5	М	1.25	1	0.077	184.68	7.21	7.22	2.96	2.94	27.1	27.15	34.0	33.25	2.56	2.50	22.68	22.705	44	46
M1	15/05/2024	Mid-Flood	Sunny	Low	14:43	2.5	М	1.25	2	0.077	104.00	7.23	1.22	2.92	2.04	27.2	27.10	32.5	00.20	2.44	2.00	22.73	22.700	48	40
M2	15/05/2024	Mid-Flood	Sunny	Low	15:08	2.1	М	1.05	1	0.08	183.594	7.16	7.17	3.05	3.02	27.1	27.15	35.4	34.51	2.66	2.60	23.10	23.275	47	48
M2	15/05/2024	Mid-Flood	Sunny	Low	15:09	2.1	М	1.05	2	0.00	100.004	7.18	1.11	2.99	0.02	27.2	27.10	33.6	54.51	2.53	2.00	23.45	20.210	49	40
M3	15/05/2024	Mid-Flood	Sunny	Low	15:20	2	М	1.00	1	0.074	168.627	7.21	7.22	3.45	3.48	27.1	27.15	46.3	46.68	3.48	3.51	33.36	33.33	64	60
M3	15/05/2024	Mid-Flood	Sunny	Low	15:20	2	М	1.00	2	0.074	100.027	7.23	1.22	3.51	5.40	27.2	27.15	47.1	40.00	3.54	5.51	33.3	55.55	56	00
M1	15/05/2024	Mid-Ebb	Sunny	Low	12:58	2.6	М	1.30	1	0.065	342.767	7.18	7.19	2.88	2.84	26.9	26.90	35.1	34.98	2.64	2.63	21.83	21.86	54	56
M1	15/05/2024	Mid-Ebb	Sunny	Low	12:58	2.6	М	1.30	2	0.005	342.707	7.19	7.19	2.79	2.04	26.9	20.90	34.8	34.90	2.62	2.03	21.89	21.00	58	- 50
M2	15/05/2024	Mid-Ebb	Sunny	Low	12:31	2.1	М	1.05	1	0.059	315.978	7.16	7.17	3.08	3.07	26.9	26.95	36.2	36.11	2.72	2.72	20.61	20.45	48	52
M2	15/05/2024	Mid-Ebb	Sunny	Low	12:31	2.1	М	1.05	2	0.059	515.976	7.18	7.17	3.06	5.07	27.0	20.90	36.0	50.11	2.71	2.12	20.29	20.45	55	52
M3	15/05/2024	Mid-Ebb	Sunny	Low	13:13	2	М	1.00	1	0.074	040 000	7.15	7 4 4	3.66	0.07	26.9	00.00	47.5	47.40	3.57	0.57	30.85	00.075	45	40
M3	15/05/2024	Mid-Ebb	Sunny	Low	13:14	2	М	1.00	2	0.071	316.938	7.13	7.14	3.68	3.67	26.9	26.90	47.5	47.48	3.57	3.57	31.1	30.975	40	43

Remark

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2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

Monitoring	D	0	N	ΓU	SS				
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	ΓU	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	situ Measu	rement							Labora Analy	,
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Current Speed (m/s)	Current Direction (°)	р	H	Salinit	y (ppt)	Tempe (degr	erature ee C)		turation %)	DO (r	ng/L)	Turbidity	(NTU)	Total Sus Solids (•
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	17/05/2024	Mid-Flood	Cloudy	Low	9:41	2.5	М	1.25	1	0.076	176.805	7.15	7.14	3.48	3.51	26.3	26.35	37.2	37.04	2.8	2.79	15.50	15.55	40	39
M1	17/05/2024	Mid-Flood	Cloudy	Low	9:41	2.5	М	1.25	2	0.070	170.000	7.13	7.14	3.53	0.01	26.4	20.00	36.8	07.04	2.77	2.15	15.6	10.00	37	00
M2	17/05/2024	Mid-Flood	Cloudy	Low	10:18	2.1	М	1.05	1	0.091	190.703	7.16	7.15	3.58	3.58	26.3	26.35	37.9	38.37	2.85	2.89	14.74	14.54	43	42
M2	17/05/2024	Mid-Flood	Cloudy	Low	10:18	2.1	М	1.05	2	0.001	100.700	7.14	7.10	3.58	0.00	26.4	20.00	38.8	00.07	2.92	2.00	14.34	14.04	40	72
M3	17/05/2024	Mid-Flood	Cloudy	Low	10:25	2	М	1.00	1	0.094	190.576	7.16	7.17	4.04	4.08	26.3	26.35	48.3	48.81	3.63	3.67	28.11	28.28	36	35
M3	17/05/2024	Mid-Flood	Cloudy	Low	10:25	2	М	1.00	2	0.094	190.570	7.17	7.17	4.11	4.00	26.4	20.33	49.3	40.01	3.71	5.07	28.45	20.20	33	55
M1	17/05/2024	Mid-Ebb	Cloudy	Low	15:09	2.4	М	1.20	1	0.059	312.972	7.14	7.14	3.99	4.03	28.6 28.6	28.60	36.8	37.24	2.77	2.80	16.69	16.67	38	37
M1	17/05/2024	Mid-Ebb	Cloudy	Low	15:10	2.4	М	1.20	2	0.059	512.972	7.14	7.14	4.06	4.05	28.6	20.00	37.6	57.24	2.83	2.00	16.65	10.07	36	51
M2	17/05/2024	Mid-Ebb	Cloudy	Low	14:43	2.2	М	1.10	1	0.073	308.944	7.12	7.12	3.87	3.87	26.1	26.15	34.3	33.72	2.58	2.54	15.71	15.6	44	41
M2	17/05/2024	Mid-Ebb	Cloudy	Low	14:44	2.2	М	1.10	2	0.073	500.944	7.11	1.12	3.87	5.07	26.2	20.15	33.1	33.72	2.49	2.04	15.49	15.0	37	41
M3	17/05/2024	Mid-Ebb	Cloudy	Low	15:28	1.9	М	0.95	1	0.000	220.02	7.2	7.04	4.58	4 50	26.1	00.45	52.4	50.47	3.94	2.05	26.53	00.74	64	<u> </u>
M3	17/05/2024	Mid-Ebb	Cloudy	Low	15:28	1.9	М	0.95	2	0.063	329.93	7.21	7.21	4.54	4.56	26.2	26.15	52.5	52.47	3.95	3.95	26.89	26.71	62	63

Remark

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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.

For	Flood	Tide
1 01	1 1000	nuc

Monitoring	D	0	N	ΓU	SS				
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	ſU	S	S			
Location	AL	LL	AL	LL	AL	LL			
M1(Impact Station)	2.25	1.91	48.4	50.4	62.1	68			

									e						ln-s	itu Measu	rement								ratory Ilysis
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Current Speed (m/s)	Current Direction (°)	рH	I	Salinit	y (ppt)	Tempe (degr	erature ee C)		turation %)	DO (r	ng/L)	Turbidity	y (NTU)	Total Sus Solids	spended (mg/L)
										. ,	.,	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	20/05/2024	Mid-Flood	Sunny	Low	11:23	2.5	М	1.25	1	0.083	190.678	7.18	7.18	2.68	2.66	26.8	26.80	34.0	33.58	2.56	2.53	21.81	21.985	20	22
M1	20/05/2024	Mid-Flood	Sunny	Low	11:23	2.5	М	1.25	2	0.000	100.070	7.17	1.10	2.63	2.00	26.8	20.00	33.1	00.00	2.49	2.00	22.16	21.000	24	
M2	20/05/2024	Mid-Flood	Sunny	Low	11:58	2.1	М	1.05	1	0.082	165.402	7.12	7.13	2.49	2.49	26.8	26.85	35.0	34.85	2.63	2.62	22.78	22.72	22	24
M2	20/05/2024	Mid-Flood	Sunny	Low	11:58	2.1	М	1.05	2	0.002	100.402	7.14	7.10	2.48	2.40	26.9	20.00	34.7	04.00	2.61	2.02	22.66	22.12	25	27
M3	20/05/2024	Mid-Flood	Sunny	Low	12:09	2	М	1.00	1	0.092	172.942	7.11	7.12	2.32	2.28	26.8	26.85	45.1	44.89	3.39	3.38	32.44	32.345	21	22
M3	20/05/2024	Mid-Flood	Sunny	Low	12:09	2	М	1.00	2	0.032	172.342	7.12	1.12	2.24	2.20	26.9	20.00	44.7	44.03	3.36	0.00	32.25	52.545	23	22
M1	20/05/2024	Mid-Ebb	Sunny	Low	18:13	2.5	М	1.25	1	0.071	327.371	7.15	7.14	3.34	3.34	26.3	26.30	36.4	36.84	2.74	2.77	23.80	23.745	28	28
M1	20/05/2024	Mid-Ebb	Sunny	Low	18:13	2.5	М	1.25	2	0.071	527.571	7.13	7.14	3.34	0.04	26.3	20.00	37.2	50.04	2.8	2.11	23.69	20.740	27	20
M2	20/05/2024	Mid-Ebb	Sunny	Low	17:41	2	М	1.00	1	0.077	320.159	7.13	7.14	3.29	3.26	26.3	26.30	34.6	34.05	2.6	2.56	23.90	23.78	23	23
M2	20/05/2024	Mid-Ebb	Sunny	Low	17:41	2	M	1.00	2	0.077	520.155	7.14	1.14	3.23	5.20	26.3	20.30	33.5	54.05	2.52	2.00	23.66	20.70	23	23
M3	20/05/2024	Mid-Ebb	Sunny	Low	18:28	1.8	М	0.90	1	0.074	220 720	7.12	7 1 1	3.37	2.26	26.3	26.25	47.2	47.00	3.55	2 5 4	33.65	22 725	31	20
M3	20/05/2024	Mid-Ebb	Sunny	Low	18:28	1.8	М	0.90	2	0.074	339.739	7.1	7.11	3.34	3.36	26.4	26.35	46.9	47.08	3.53	3.54	33.8	33.725	28	30

Remark

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2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

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

For Flood Tide

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

									te						ln-s	itu Measu	irement							Labor Anal	,
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	ł	Salinit	y (ppt)	Tempe (degr	erature ee C)		turation %)	DO (r	ng/L)	Turbidity ((NTU)	Total Sus Solids (spended (mg/L)
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	22/05/2024	Mid-Flood	Cloudy	Low	12:27	2.6	М	1.30	1	0.084	177.159	7.16	7.17	4.10	4.12	27.1	27.10	32.7	32.25	2.46	2.43	24.42	24.42	7	8
M1	22/05/2024	Mid-Flood	Cloudy	Low	12:27	2.6	М	1.30	2	0.004	177.105	7.18	1.11	4.14	7.12	27.1	27.10	31.8	02.20	2.39	2.40	24.42	27.72	9	Ŭ
M2	22/05/2024	Mid-Flood	Cloudy	Low	12:58	2.3	M	1.15	1	0.074	169.287	7.2	7.20	3.89	3.90	27.1	27.10	34.8	34.58	2.62	2.60	23.55	23.575	10	12
M2	22/05/2024	Mid-Flood	Cloudy	Low	12:58	2.3	М	1.15	2	0.074	103.207	7.2	1.20	3.91	5.30	27.1	27.10	34.3	54.50	2.58	2.00	23.6	-0.070	13	12
M3	22/05/2024	Mid-Flood	Cloudy	Low	13:05	2.1	М	1.05	1	0.091	161.743	7.22	7.22	4.93	4.89	27.1	27.15	48.5	48.21	3.65	3.63	31.80	31.945	7	<u>م</u>
M3	22/05/2024	Mid-Flood	Cloudy	Low	13:05	2.1	М	1.05	2	0.031	101.745	7.22	1.22	4.85	4 .03	27.2	27.10	47.9	4 0.21	3.6	5.05	32.09	51.545	11	3
M1	22/05/2024	Mid-Ebb	Cloudy	Low	17:39	2.4	М	1.20	1	0.081	325.155	7.15	7.16	3.88	3.92	26.6 26.7	26.65	37.4	37.37	2.81	2.81	23.36	23.39	6	8
M1	22/05/2024	Mid-Ebb	Cloudy	Low	17:39	2.4	М	1.20	2	0.001	525.155	7.17	7.10	3.95	5.92	26.7	20.05	37.4	57.57	2.81	2.01	23.42	23.39	10	0
M2	22/05/2024	Mid-Ebb	Cloudy	Low	17:15	2	М	1.00	1	0.059	334.457	7.12	7.12	3.69	3.73	26.6	26.60	36.2	36.18	2.72	2.72	22.69	22.6	9	Q
M2	22/05/2024	Mid-Ebb	Cloudy	Low	17:15	2	M	1.00	2	0.059	554.457	7.12	1.12	3.77	5.75	26.6	20.00	36.2	50.10	2.72	2.12	22.51	22.0	8	J
M3	22/05/2024	Mid-Ebb	Cloudy	Low	17:54	1.8	М	0.90	1	0.075	225 247	7.23	7 00	5.07	F 07	26.6	00.05	48.8	40.4.4	3.67	0.70	32.55	22.20	9	
M3	22/05/2024	Mid-Ebb	Cloudy	Low	17:54	1.8	М	0.90	2	0.075	325.217	7.23	7.23	5.06	5.07	26.7	26.65	49.5	49.14	3.72	3.70	32.17	32.36	6	ð

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

For	Flood	Tide
1 01	1 1000	nuc

Monitoring	D	0	N	ſU	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	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

									e						ln-s	itu Measu	rement							Labora Analy	,
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Current Speed (m/s)	Current Direction (°)	р	H	Salinit	y (ppt)	Tempe (degre			turation %)	DO (r	ng/L)	Turbidity	(NTU)	Total Sus Solids (
											. ,	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	24/05/2024	Mid-Flood	Cloudy	Low	13:43	2.8	М	1.40	1	0.079	166.775	7.18	7.19	3.38	3.43	26.5	26.50	36.4	35.78	2.74	2.69	16.55	16.49	31	32
M1	24/05/2024	Mid-Flood	Cloudy	Low	13:43	2.8	М	1.40	2	0.073	100.775	7.19	7.15	3.47	0.40	26.5	20.50	35.1	55.70	2.64	2.03	16.43	10.45	33	52
M2	24/05/2024	Mid-Flood	Cloudy	Low	14:05	2.2	М	1.10	1	0.095	170.914	7.2	7.20	3.55	3.58	26.5	26.50	37.6	37.24	2.83	2.80	16.84	16.68	37	36
M2	24/05/2024	Mid-Flood	Cloudy	Low	14:05	2.2	М	1.10	2	0.000	170.014	7.2	7.20	3.61	0.00	26.5	20.00	36.8	01.24	2.77	2.00	16.52	10.00	35	
M3	24/05/2024	Mid-Flood	Cloudy	Low	14:18	2.1	М	1.05	1	0.091	186.158	7.16	7.17	3.82	3.86	26.5	26.55	48.8	48.21	3.67	3.63	32.89	32.675	31	37
M3	24/05/2024	Mid-Flood	Cloudy	Low	14:18	2.1	М	1.05	2	0.031	100.100	7.18	7.17	3.89	5.00	26.6	20.00	47.6	40.21	3.58	0.00	32.46	52.075	42	57
M1	24/05/2024	Mid-Ebb	Cloudy	Low	9:01	2.7	М	1.35	1	0.076	300.401	7.19	7.18	3.48	3.48	28.9	28.95	35.4	35.18	2.66	2.65	17.70	17.635	35	37
M1	24/05/2024	Mid-Ebb	Cloudy	Low	9:02	2.7	М	1.35	2	0.070	300.401	7.17	7.10	3.47	5.40	29.0	20.95	35.0	55.10	2.63	2.05	17.57	17.055	39	57
M2	24/05/2024	Mid-Ebb	Cloudy	Low	8:35	2.1	М	1.05	1	0.065	332.756	7.15	7.15	3.40	3.37	26.1	26.10	37.0	37.11	2.78	2.79	18.60	18.53	41	41
M2	24/05/2024	Mid-Ebb	Cloudy	Low	8:36	2.1	М	1.05	2	0.005	552.750	7.15	7.15	3.34	5.57	26.1	20.10	37.2	57.11	2.8	2.13	18.46	10.00	40	41
M3	24/05/2024	Mid-Ebb	Cloudy	Low	9:16	2	М	1.00	1	0.070	245 547	7.23	7.00	4.06	4 00	26.1	00.45	48.1	40.00	3.62	2.00	33.45	22.4	46	45
M3	24/05/2024	Mid-Ebb	Cloudy	Low	9:17	2	М	1.00	2	0.072	315.517	7.23	7.23	3.97	4.02	26.2	26.15	49.2	48.68	3.7	3.66	33.35	33.4	44	45

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

-		T 1
FUI	Flood	nue

Monitoring	D	0	N	ſU	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	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

Monitoring	
Le setiere	

									е						In-s	itu Measu	rement							Labor Anal	-
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Current Speed (m/s)	Current Direction (°)	pł	1	Salinit	y (ppt)	Tempe (degre			turation %)	DO (r	ng/L)	Turbidity	(NTU)	Total Sus Solids (spended (mg/L)
										()		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	27/05/2024	Mid-Flood	Cloudy	Low	15:48	2.8	М	1.40	1	0.092	174.529	7.21	7.22	3.68	3.66	26.1	26.15	38.2	37.57	2.87	2.83	18.11	18.215	17	18
M1	27/05/2024	Mid-Flood	Cloudy	Low	15:48	2.8	М	1.40	2	0.032	174.020	7.22	1.22	3.64	0.00	26.2	20.10	37.0	01.01	2.78	2.00	18.32	10.210	18	10
M2	27/05/2024	Mid-Flood	Cloudy	Low	16:25	2.4	М	1.20	1	0.087	187.7	7.22	7.23	3.79	3.78	26.1	26.15	39.4	39.70	2.96	2.99	18.67	18.685	24	21
M2	27/05/2024	Mid-Flood	Cloudy	Low	16:25	2.4	М	1.20	2	0.007	107.7	7.23	1.25	3.76	5.70	26.2	20.15	40.0	55.70	3.01	2.33	18.7	10.000	18	21
M3	27/05/2024	Mid-Flood	Cloudy	Low	16:39	2.1	М	1.05	1	0.077	162.427	7.24	7.25	4.21	4.22	26.1	26.10	50.1	49.28	3.77	3.71	29.51	29.555	15	16
M3	27/05/2024	Mid-Flood	Cloudy	Low	16:39	2.1	М	1.05	2	0.077	102.427	7.25	1.25	4.23	4.22	26.1	20.10	48.4	43.20	3.64	5.71	29.6	29.000	16	10
M1	27/05/2024	Mid-Ebb	Cloudy	Low	8:51	2.6	М	1.30	1	0.066	334.013	7.21	7.21	3.81	3.80	25.8	25.85	36.0	36.24	2.71	2.73	19.36	19.39	20	22
M1	27/05/2024	Mid-Ebb	Cloudy	Low	8:51	2.6	Μ	1.30	2	0.000	554.015	7.2	1.21	3.79	5.00	25.9	23.05	36.4	50.24	2.74	2.75	19.42	19.59	24	22
M2	27/05/2024	Mid-Ebb	Cloudy	Low	8:18	2.3	М	1.15	1	0.063	331.323	7.19	7.20	3.97	3.93	25.8	25.85	35.5	34.71	2.67	2.61	20.25	20.11	22	19
M2	27/05/2024	Mid-Ebb	Cloudy	Low	8:19	2.3	М	1.15	2	0.003	551.525	7.21	1.20	3.88	5.95	25.9	20.00	33.9	54.71	2.55	2.01	19.97	20.11	15	19
M3	27/05/2024	Mid-Ebb	Cloudy	Low	9:01	2	М	1.00	1	0.070	047 404	7.25	7.05	4.40	4 44	25.8	05 05	51.7	E4 04	3.89	2.00	30.68	20 705	20	- 20
M3	27/05/2024	Mid-Ebb	Cloudy	Low	9:01	2	М	1.00	2	0.072	317.431	7.24	7.25	4.42	4.41	25.9	25.85	50.9	51.34	3.83	3.86	30.73	30.705	20	20 ∣

Remark

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2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

For	Flood	Tide
FUI	FIDUU	nue

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

									te						In-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	ł	Salinit	y (ppt)	Tempe (degro		DO Sat (%	uration %)	DO (r	ng/L)	Turbidity (N	ITU) .	Total Sus Solids (i	
										()		Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value /	ve.	Value	Ave.
M1	29/05/2024	Mid-Flood	Cloudy	Low	17:26	2.7	М	1.35	1	0.084	164.213	7.18	7.17	2.58	2.62	26.1	26.15	38.2	37.44	2.87	2.82	24.70 2	4.49	16	15
M1	29/05/2024	Mid-Flood	Cloudy	Low	17:26	2.7	М	1.35	2	0.004	104.210	7.16	1.11	2.66	2.02	26.2	20.10	36.7	07.77	2.76	2.02	24.28	1.43	14	10
M2	29/05/2024	Mid-Flood	Cloudy	Low	17:55	2.3	М	1.15	1	0.089	168.034	7.2	7.21	2.68	2.65	25.9	25.90	36.8	36.91	2.77	2.78	23.56 2	3.585	15	16
M2	29/05/2024	Mid-Flood	Cloudy	Low	17:55	2.3	М	1.15	2	0.005	100.004	7.22	1.21	2.62	2.00	25.9	20.00	37.0	50.51	2.78	2.70	23.61		16	10
M3	29/05/2024	Mid-Flood	Cloudy	Low	18:02	2.1	М	1.05	1	0.086	170.076	7.24	7.24	2.77	2.76	25.9	25.90	48.4	48.08	3.64	3.62	31.69	1.81	17	16
M3	29/05/2024	Mid-Flood	Cloudy	Low	18:02	2.1	М	1.05	2	0.000	170.070	7.24	1.24	2.74	2.70	25.9	25.90	47.7	40.00	3.59	5.02	31.93	1.01	14	10
M1	29/05/2024	Mid-Ebb	Cloudy	Low	10:26	2.6	М	1.30	1	0.068	309.051	7.19	7.18	2.36	2.36	25.8	25.85	34.4	33.65	2.59	2.53	21.84	.825	16	15
M1	29/05/2024	Mid-Ebb	Cloudy	Low	10:26	2.6	Μ	1.30	2	0.000	309.001	7.17	7.10	2.35	2.50	25.9	25.05	32.9	55.05	2.47	2.55	21.81	.025	14	15
M2	29/05/2024	Mid-Ebb	Cloudy	Low	9:55	2.2	М	1.10	1	0.073	344.242	7.21	7.22	2.29	2.27	25.8	25.80	37.5	37.71	2.82	2.84	23.67	3.45	15	17
M2	29/05/2024	Mid-Ebb	Cloudy	Low	9:55	2.2	М	1.10	2	0.073	544.242	7.23	1.22	2.25	2.21	25.8	25.00	37.9	57.71	2.85	2.04	23.23	5.45	18	17
M3	29/05/2024	Mid-Ebb	Cloudy	Low	10:38	2	М	1.00	1	0.004	245 542	7.26	7.07	2.29	2.25	25.8	05.05	50.9	E4 07	3.83	2.00	30.78		15	45
M3	29/05/2024	Mid-Ebb	Cloudy	Low	10:38	2	М	1.00	2	0.064	315.513	7.27	7.27	2.21	2.25	25.9	25.85	51.6	51.27	3.88	3.86	30.83).805	15	15

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

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

5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

For	Flood	Tide
1 01	1 1000	nuc

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

									te						In-s	itu Measu	irement							Labor Anal	-
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	4	Salinit	y (ppt)	Tempe (degr	erature ee C)		turation %)	DO (r	ng/L)	Turbidity	/ (NTU)	Total Sus Solids (spended (mg/L)
										. ,	.,	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	31/05/2024	Mid-Flood	Cloudy	Low	8:14	2.6	М	1.30	1	0.089	191.112	7.24	7.25	3.80	3.83	25.9	25.90	36.7	37.04	2.76	2.79	16.44	16.595	22	23
M1	31/05/2024	Mid-Flood	Cloudy	Low	8:15	2.6	М	1.30	2	0.005	131.112	7.25	1.25	3.86	0.00	25.9	20.00	37.4	57.04	2.81	2.15	16.75	10.000	24	23
M2	31/05/2024	Mid-Flood	Cloudy	Low	8:49	2.2	М	1.10	1	0.09	162.553	7.21	7.21	3.88	3.87	25.9	25.95	35.5	34.58	2.67	2.60	17.38	17.47	24	29
M2	31/05/2024	Mid-Flood	Cloudy	Low	8:50	2.2	М	1.10	2	0.05	102.000	7.2	1.21	3.85	5.07	26	20.00	33.6	54.50	2.53	2.00	17.56	17.47	33	23
M3	31/05/2024	Mid-Flood	Cloudy	Low	9:01	2	М	1.00	1	0.076	184.054	7.28	7.27	4.21	4.25	25.9	25.95	48.0	48.15	3.61	3.62	29.55	29.38	27	26
M3	31/05/2024	Mid-Flood	Cloudy	Low	9:01	2	М	1.00	2	0.070	104.004	7.26	1.21	4.28	4.20	26	20.00	48.3	+0.15	3.63	5.02	29.21	23.50	24	20
M1	31/05/2024	Mid-Ebb	Cloudy	Low	13:28	2.5	М	1.25	1	0.058	339.068	7.26	7.27	3.35	3.36	26.1	26.15	34.2	33.32	2.57	2.51	16.94	16.815	25	25
M1	31/05/2024	Mid-Ebb	Cloudy	Low	13:28	2.5	М	1.25	2	0.050	339.000	7.28	1.21	3.36	5.50	26.2	20.15	32.5	55.52	2.44	2.51	16.69	10.015	25	23
M2	31/05/2024	Mid-Ebb	Cloudy	Low	12:56	2.1	М	1.05	1	0.08	318.97	7.25	7.26	3.48	3.50	26.1	26.15	35.6	34.65	2.68	2.61	15.87	15.83	29	28
M2	31/05/2024	Mid-Ebb	Cloudy	Low	12:56	2.1	М	1.05	2	0.00	510.97	7.27	1.20	3.51	5.50	26.2	20.15	33.6	54.05	2.53	2.01	15.79	10.00	26	20
M3	31/05/2024	Mid-Ebb	Cloudy	Low	13:41	1.9	М	0.95	1	0.070	245 022	7.29	7.00	4.30	4.05	26.1	00 40	46.3	45.00	3.48	2.44	28.44	20 20	25	
M3	31/05/2024	Mid-Ebb	Cloudy	Low	13:42	1.9	М	0.95	2	0.078	315.032	7.27	7.28	4.39	4.35	26.1	26.10	45.1	45.69	3.39	3.44	28.08	28.26	21	23

Remark

1. Orange and Bold: Action Level Exceedance (For Impact Station Only)

2. Red and Bold: Limit Level Exceedance (For Impact Station Only)

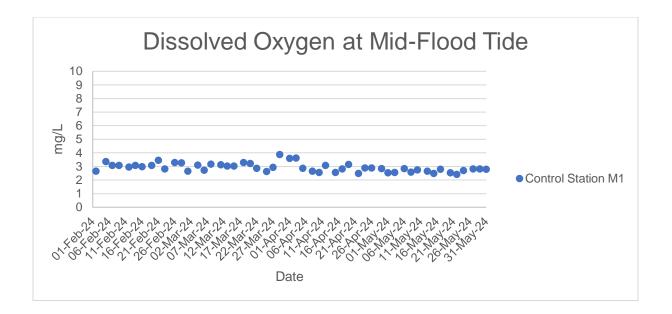
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

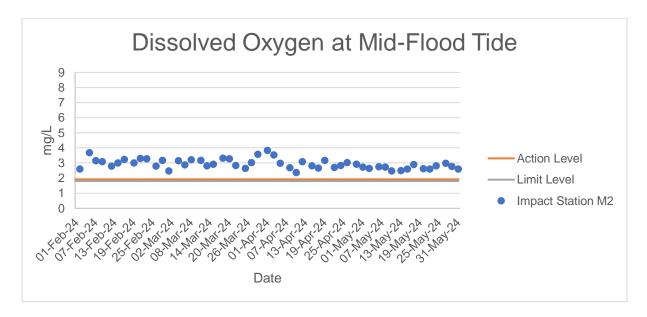
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

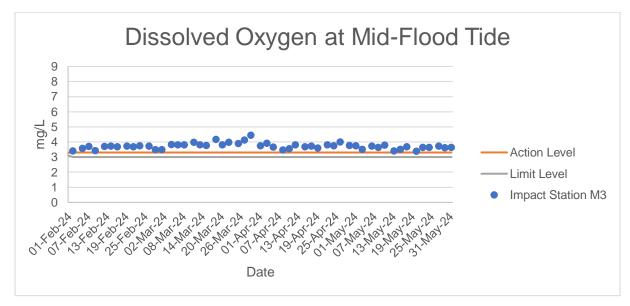
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

For	Flood	Tide
FUI	FIDUU	nue

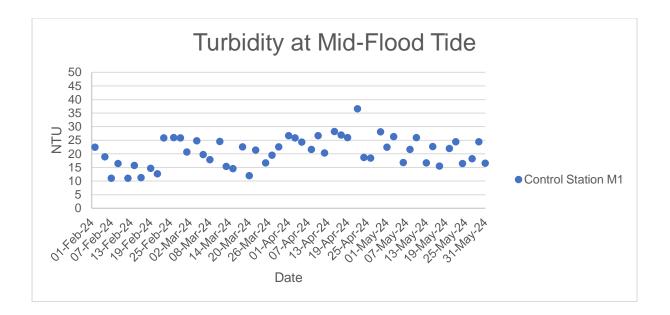
Monitoring	D	0	N	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	D	0	N	ΓU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

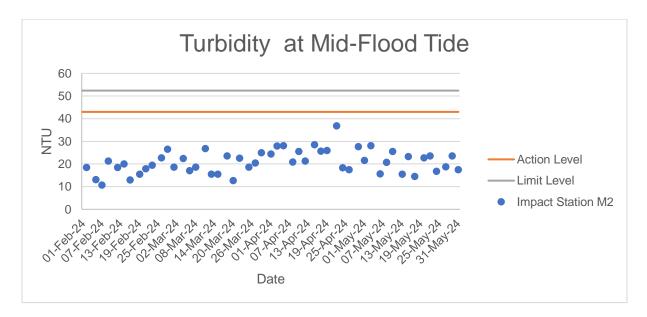


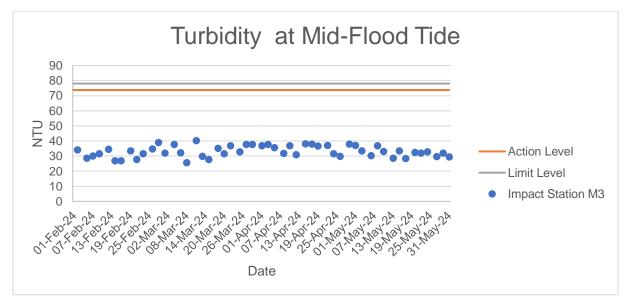




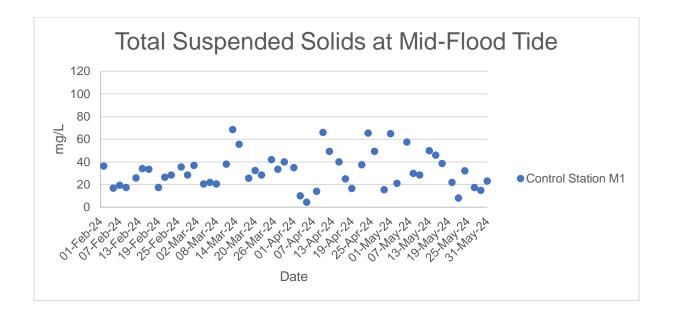
Water Quality Monitoring Results

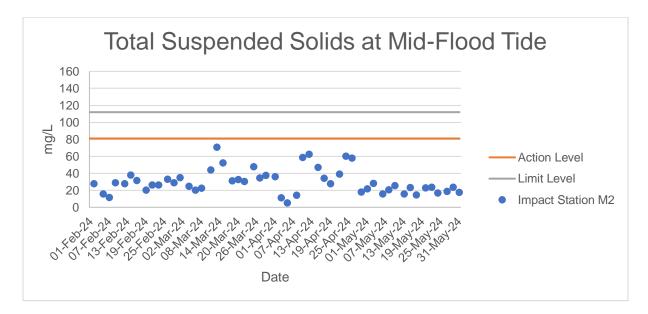


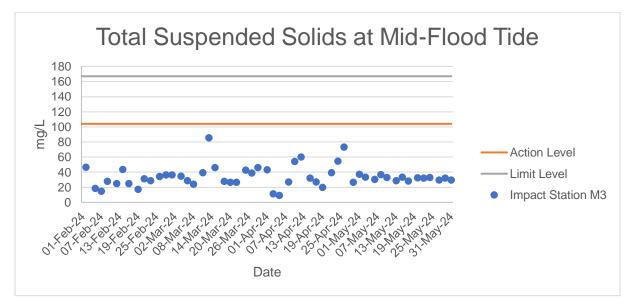




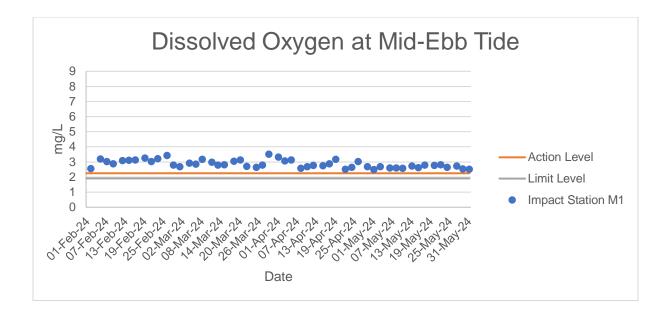
Water Quality Monitoring Results

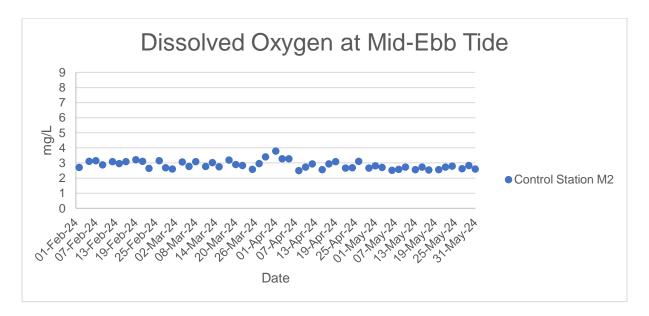


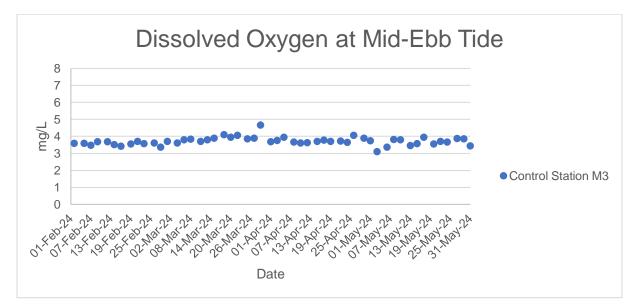




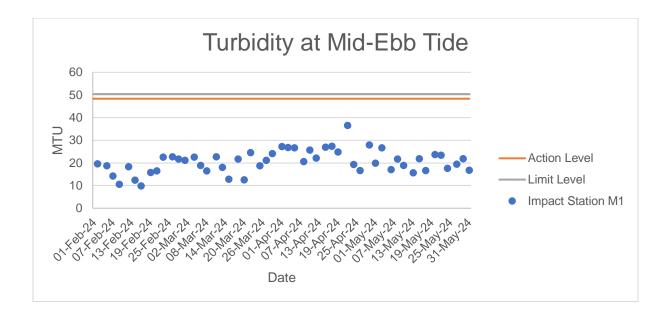
Water Quality Monitoring Results

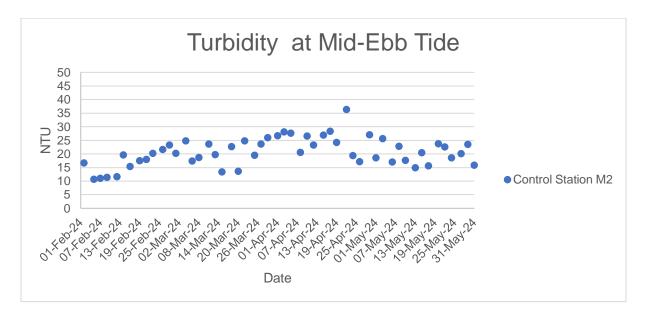


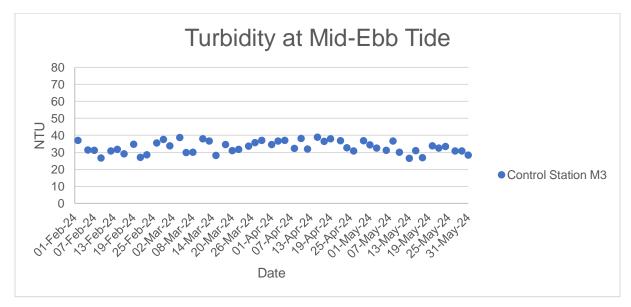




Water Quality Monitoring Results

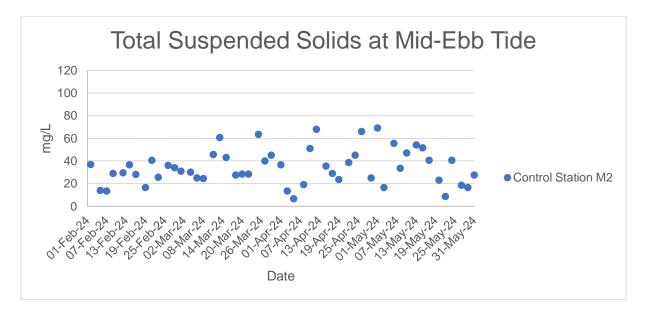


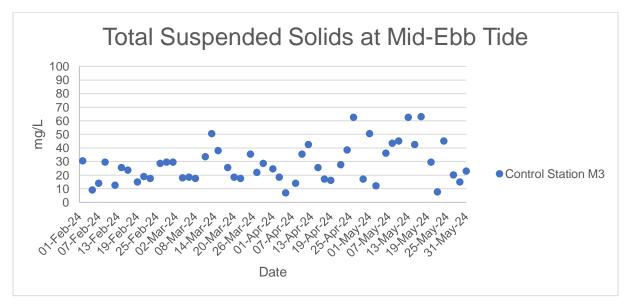




Water Quality Monitoring Results







Water Quality Monitoring Results

Ecology Monitoring Results for Contract No. SPW 02/2023 Environmental Team for Construction of Yuen long Effluent Polishing Plant Stage 1

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
13/05/2024	Daytime	Wet	FLW	Point Count	FLW1	Chinese Pond Heron	Ardeola bacchus	16	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW1	Eurasian Tree Sparrow	Passer montanus	4	Abundant	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW1	Little Grebe	Tachybaptus ruficollis	2	Common	R	LC	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW1	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW1	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW1	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW1	Whiskered Tern	Chlidonias hybrida	1	Uncommon	PM	-	-	-	LC	LC	N	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW2	Barn Swallow	Hirundo rustica	2	Abundant	PM,SV	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW2	Black-collared Starling	Gracupica nigricollis	4	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW2	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW2	Scaly-breasted Munia	Lonchura punctulata	3	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW2	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW2	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW2	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW3	Black-collared Starling	Gracupica nigricollis	2	Common	R	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW3	Collared Crow	Corvus torquatus	1	Uncommon	R	LC	-	-	NT	VU	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW3	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW3	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW3	White-throated Kingfisher	Halcyon smyrnensis	1	Common	R	-	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW3	White-shouldered Starling	Sturnia sinensis	2	Common	M,W,Su	(LC)	-	-	-	LC	Y	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW4	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW4	Red-whiskered Bulbul	Pycnonotus jocosus	2	Abundant	R	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW4	Spotted Dove	Spilopelia chinensis	4	Abundant	R	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW4	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	Ν	Ν

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
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Barn Swallow	Hirundo rustica	4	Abundant	PM,SV	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Chinese Bulbul	Pycnonotus sinensis	4	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Eurasian Collared Dove	Streptopelia decaocto	2	Common	-	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Masked Laughingthrush	Pterorhinus perspicillatus	3	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Red-whiskered Bulbul	Pycnonotus jocosus	3	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Spotted Dove	Spilopelia chinensis	4	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	White-breasted Waterhen	Amaurornis phoenicurus	2	Common	R	-	-	-	LC	LC	N	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Yellow-bellied Prinia	Prinia flaviventris	2	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Indian Cuckoo	Cuculus micropterus	1	Uncommon	SV	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW5	Whiskered Tern	Chlidonias hybrida	3	Uncommon	PM	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	Azure-winged Magpie	Cyanopica cyanus	14	Introduced	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	Chinese Pond Heron	Ardeola bacchus	14	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	Crested Myna	Acridotheres cristatellus	4	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	Masked Laughingthrush	Pterorhinus perspicillatus	6	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	Spotted Dove	Spilopelia chinensis	4	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	White-breasted Waterhen	Amaurornis phoenicurus	2	Common	R	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	Indian Cuckoo	Cuculus micropterus	1	Uncommon	SV	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW6	Whiskered Tern	Chlidonias hybrida	2	Uncommon	PM	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW7	Black-collared Starling	Gracupica nigricollis	2	Common	R	-	-	-	LC	LC	Ν	N

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
13/05/2024	Daytime	Wet	FLW	Point Count	FLW7	Chinese Bulbul	Pycnonotus sinensis	2	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Point Count	FLW7	Chinese Pond Heron	Ardeola bacchus	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW7	Crested Myna	Acridotheres cristatellus	5	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Point Count	FLW7	Great Egret	Ardea alba	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW7	Little Egret	Egretta garzetta	11	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Point Count	FLW7	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Azure-winged Magpie	Cyanopica cyanus	8	Introduced	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Barn Swallow	Hirundo rustica	39	Abundant	PM,SV	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Black Kite	Milvus migrans	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Black-collared Starling	Gracupica nigricollis	14	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Black-faced Bunting	Emberiza spodocephala	1	Common	PM,WV	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Chinese Bulbul	Pycnonotus sinensis	5	Abundant	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Crested Myna	Acridotheres cristatellus	2	Common	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Eurasian Collared Dove	Streptopelia decaocto	5	Common	-	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Eurasian Tree Sparrow	Passer montanus	19	Abundant	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Scaly-breasted Munia	Lonchura punctulata	37	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Spotted Dove	Spilopelia chinensis	11	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Swinhoe's White-eye	Zosterops simplex	4	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	FLW	Transect	FLW	White-breasted Waterhen	Amaurornis phoenicurus	4	Common	R	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Asian Koel	Eudynamys scolopaceus	1	Common	R	-	-	-	LC	LC	Ν	N

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
13/05/2024	Daytime	Wet	FLW	Transect	FLW	Indian Cuckoo	Cuculus micropterus	1	Uncommon	SV	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Barn Swallow	Hirundo rustica	2	Abundant	PM,SV	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Black-collared Starling	Gracupica nigricollis	4	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Crested Myna	Acridotheres cristatellus	2	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Eurasian Tree Sparrow	Passer montanus	7	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Masked Laughingthrush	Pterorhinus perspicillatus	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Red-whiskered Bulbul	Pycnonotus jocosus	4	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Swinhoe's White-eye	Zosterops simplex	8	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	White Wagtail	Motacilla alba	2	Common	PM,WV	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	White-shouldered Starling	Sturnia sinensis	3	Common	M,W,Su	(LC)	-	-	-	LC	Y	N
13/05/2024	Daytime	Wet	NSW	Point Count	NSW1	Indian Cuckoo	Cuculus micropterus	1	Uncommon	SV	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Black-collared Starling	Gracupica nigricollis	3	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Chinese Bulbul	Pycnonotus sinensis	2	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Moorhen	Gallinula chloropus	5	Common	R	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Common Myna	Acridotheres tristis	2	Uncommon	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Crested Myna	Acridotheres cristatellus	4	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y

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
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Masked Laughingthrush	Pterorhinus perspicillatus	3	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW1	Japanese Tit	Parus minor	3	Common	R	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Barn Swallow	Hirundo rustica	3	Abundant	PM,SV	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Black Kite	Milvus migrans	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Chinese Bulbul	Pycnonotus sinensis	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Crested Myna	Acridotheres cristatellus	7	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Great Egret	Ardea alba	2	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Little Egret	Egretta garzetta	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Masked Laughingthrush	Pterorhinus perspicillatus	2	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Spotted Dove	Spilopelia chinensis	1	Abundant	R	-	-	-	LC	LC	Ν	Ν
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	White-breasted Waterhen	Amaurornis phoenicurus	6	Common	R	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW2	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Azure-winged Magpie	Cyanopica cyanus	3	Introduced	R	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Barn Swallow	Hirundo rustica	1	Abundant	PM,SV	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Black-collared Starling	Gracupica nigricollis	6	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Chinese Pond Heron	Ardeola bacchus	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Crested Myna	Acridotheres cristatellus	3	Common	R	-	-	-	LC	LC	N	Ν
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Little Egret	Egretta garzetta	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y

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
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Pied Avocet	Recurvirostra avosetta	4	Abundant	WV	RC	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Red-whiskered Bulbul	Pycnonotus jocosus	4	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Swinhoe's White-eye	Zosterops simplex	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Japanese Tit	Parus minor	2	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Indian Cuckoo	Cuculus micropterus	1	Uncommon	SV	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Whiskered Tern	Chlidonias hybrida	4	Uncommon	РМ	-	-	-	LC	LC	N	Y
13/05/2024	Daytime	Wet	NSW	Point Count	SP/NSW3	Peregrine Falcon	Falco peregrinus	1	Common	R,W	(LC)	Class II	-	NT	LC	Y	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Barn Swallow	Hirundo rustica	6	Abundant	PM,SV	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Black Kite	Milvus migrans	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Chinese Bulbul	Pycnonotus sinensis	3	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Chinese Pond Heron	Ardeola bacchus	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Common Tailorbird	Orthotomus sutorius	2	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Oriental Magpie Robin	Copsychus saularis	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Plain Prinia	Prinia inornata	5	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Red-whiskered Bulbul	Pycnonotus jocosus	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Swinhoe's White-eye	Zosterops simplex	8	Abundant	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	White-breasted Waterhen	Amaurornis phoenicurus	2	Common	R	-	-	-	LC	LC	N	Y
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Yellow-bellied Prinia	Prinia flaviventris	2	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Japanese Tit	Parus minor	4	Common	R	-	-	-	LC	LC	N	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Red-billed Blue Magpie	Urocissa erythroryncha	3	Common	R	-	-	-	-	LC	N	N

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
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Asian Koel	Eudynamys scolopaceus	1	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Large Hawk-Cuckoo	Hierococcyx sparverioides	2	Common	PM,SV	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	NSW	Transect	NSW	Whiskered Tern	Chlidonias hybrida	3	Uncommon	PM	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Barn Swallow	Hirundo rustica	12	Abundant	PM,SV	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Chinese Bulbul	Pycnonotus sinensis	8	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Chinese Pond Heron	Ardeola bacchus	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Common Tailorbird	Orthotomus sutorius	2	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Crested Myna	Acridotheres cristatellus	8	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Great Egret	Ardea alba	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Little Egret	Egretta garzetta	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Masked Laughingthrush	Pterorhinus perspicillatus	5	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Scaly-breasted Munia	Lonchura punctulata	2	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Spotted Dove	Spilopelia chinensis	3	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Swinhoe's White-eye	Zosterops simplex	2	Abundant	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	White-breasted Waterhen	Amaurornis phoenicurus	2	Common	R	-	-	-	LC	LC	Ν	Y
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	White-throated Kingfisher	Halcyon smyrnensis	1	Common	R	-	-	-	LC	LC	Y	Y
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Yellow-bellied Prinia	Prinia flaviventris	3	Common	R	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Large Hawk-Cuckoo	Hierococcyx sparverioides	1	Common	PM,SV	-	-	-	LC	LC	Ν	N
13/05/2024	Daytime	Wet	YLIE-CW	Transect	YLIE-CW	Indian Cuckoo	Cuculus micropterus	1	Uncommon	SV	-	-	-	LC	LC	Ν	N

Notes:

1. All wild birds are protected under Wild Animals Protection Ordinance (Cap. 170).

2. AFCD (2021). Hong Kong Biodiversity Database.

3. Carey et al. (2001): R=resident; WV=winter visitor; SV=summer visitor; PM=passage migrant; Sp=spring; A=autumn;

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

^{4.} Fellowes et al. (2002): LC=Local Concern; RC=Regional Concern; PRC=Potential Regional Concern; PGC: Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in nesting and/or roosting sites rather than in general occurrence.

- 7. IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.
 8. Wetland-dependent species (including wetland-dependent species and waterbirds).
 9. Jiang et al. (2016). Red List of China's Vertebrates

Appendix F.2.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (13 May 2024)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Tachybaptus ruficollis	2	0.0064	-5.0531	-0.0323	0.1632
Ardeola bacchus	43	0.1374	-1.9850	-0.2727	0.5413
Ardea cinerea	1	0.0032	-5.7462	-0.0184	0.1055
Ardea alba	8	0.0256	-3.6668	-0.0937	0.3436
Egretta garzetta	17	0.0543	-2.9130	-0.1582	0.4609
Milvus migrans	1	0.0032	-5.7462	-0.0184	0.1055
Amaurornis phoenicurus	11	0.0351	-3.3483	-0.1177	0.3940
Gallinula chloropus	5	0.0160	-4.1368	-0.0661	0.2734
Recurvirostra avosetta	4	0.0128	-4.3599	-0.0557	0.2429
Actitis hypoleucos	1	0.0032	-5.7462	-0.0184	0.1055
Chlidonias hybrida	10	0.0319	-3.4436	-0.1100	0.3789
Streptopelia decaocto	2	0.0064	-5.0531	-0.0323	0.1632
Spilopelia chinensis	23	0.0735	-2.6107	-0.1918	0.5008
Centropus sinensis	3	0.0096	-4.6476	-0.0445	0.2070
Cuculus micropterus	4	0.0128	-4.3599	-0.0557	0.2429
Halcyon smyrnensis	1	0.0032	-5.7462	-0.0184	0.1055
Falco peregrinus	1	0.0032	-5.7462	-0.0184	0.1055
Cyanopica cyanus	17	0.0543	-2.9130	-0.1582	0.4609
Corvus torquatus	1	0.0032	-5.7462	-0.0184	0.1055
Parus minor	7	0.0224	-3.8003	-0.0850	0.3230
Pycnonotus jocosus	13	0.0415	-3.1813	-0.1321	0.4203
Pycnonotus sinensis	10	0.0319	-3.4436	-0.1100	0.3789
Hirundo rustica	12	0.0383	-3.2613	-0.1250	0.4078
Prinia flaviventris	6	0.0192	-3.9544	-0.0758	0.2998
Prinia inornata	10	0.0319	-3.4436	-0.1100	0.3789
Pterorhinus perspicillatus	16	0.0511	-2.9736	-0.1520	0.4520
Zosterops simplex	10	0.0319	-3.4436	-0.1100	0.3789
Acridotheres cristatellus	25	0.0799	-2.5273	-0.2019	0.5102
Acridotheres tristis	2	0.0064	-5.0531	-0.0323	0.1632
Gracupica nigricollis	21	0.0671	-2.7017	-0.1813	0.4897
Sturnia sinensis	5	0.0160	-4.1368	-0.0661	0.2734
Copsychus saularis	3	0.0096	-4.6476	-0.0445	0.2070
Passer montanus	11	0.0351	-3.3483	-0.1177	0.3940
Lonchura punctulata	3	0.0096	-4.6476	-0.0445	0.2070
Motacilla alba	4	0.0128	-4.3599	-0.0557	0.2429
Total	313	1	-141.8919	-3.1432	10.5328
Richness	35				
SS	10.5328				
SQ	9.8795				
Н	3.1432				
S ² H	0.0023				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (13 May 2024)

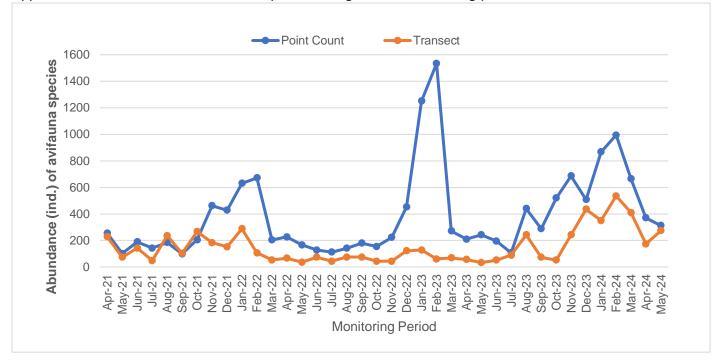
Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Tachybaptus ruficollis	2	0.0230	-3.7728	-0.0867	0.3272
Ardeola bacchus	43	0.4943	-0.7047	-0.3483	0.2455
Ardea cinerea	1	0.0115	-4.4659	-0.0513	0.2292
Ardea alba	8	0.0920	-2.3865	-0.2194	0.5237
Egretta garzetta	17	0.1954	-1.6327	-0.3190	0.5209
Milvus migrans	1	0.0115	-4.4659	-0.0513	0.2292
Recurvirostra avosetta	4	0.0460	-3.0796	-0.1416	0.4360
Centropus sinensis	3	0.0345	-3.3673	-0.1161	0.3910
Halcyon smyrnensis	1	0.0115	-4.4659	-0.0513	0.2292
Falco peregrinus	1	0.0115	-4.4659	-0.0513	0.2292
Corvus torquatus	1	0.0115	-4.4659	-0.0513	0.2292
Sturnia sinensis	5	0.0575	-2.8565	-0.1642	0.4689
Total	87	1	-15.7317	-1.72374	3.280572
Richness	12				0.2000.2
SS	4.0594				
SQ	2.7292			1	
Н	1.6520			1	
S²H	0.0160				

Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (13 May 2024)

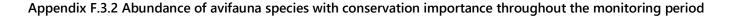
Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Ardeola bacchus	11	0.0401	-3.2152	-0.1291	0.4150
Ardea alba	3	0.0109	-4.5145	-0.0494	0.2231
Egretta garzetta	3	0.0109	-4.5145	-0.0494	0.2231
Milvus migrans	3	0.0109	-4.5145	-0.0494	0.2231
Amaurornis phoenicurus	8	0.0292	-3.5337	-0.1032	0.3646
Chlidonias hybrida	3	0.0109	-4.5145	-0.0494	0.2231
Streptopelia decaocto	5	0.0182	-4.0037	-0.0731	0.2925
Spilopelia chinensis	16	0.0584	-2.8405	-0.1659	0.4712
Centropus sinensis	2	0.0073	-4.9200	-0.0359	0.1767
Eudynamys scolopaceus	2	0.0073	-4.9200	-0.0359	0.1767
Hierococcyx sparverioides	3	0.0109	-4.5145	-0.0494	0.2231
Cuculus micropterus	2	0.0073	-4.9200	-0.0359	0.1767
Halcyon smyrnensis	1	0.0036	-5.6131	-0.0205	0.1150
Cyanopica cyanus	8	0.0292	-3.5337	-0.1032	0.3646
Urocissa erythroryncha	3	0.0109	-4.5145	-0.0494	0.2231
Parus minor	4	0.0146	-4.2268	-0.0617	0.2608
Pycnonotus jocosus	2	0.0073	-4.9200	-0.0359	0.1767
Pycnonotus sinensis	16	0.0584	-2.8405	-0.1659	0.4712
Hirundo rustica	57	0.2080	-1.5701	-0.3266	0.5128
Prinia flaviventris	5	0.0182	-4.0037	-0.0731	0.2925
Prinia inornata	7	0.0255	-3.6672	-0.0937	0.3436
Orthotomus sutorius	5	0.0182	-4.0037	-0.0731	0.2925
Pterorhinus perspicillatus	5	0.0182	-4.0037	-0.0731	0.2925
Zosterops simplex	14	0.0511	-2.9741	-0.1520	0.4519
Acridotheres cristatellus	10	0.0365	-3.3105	-0.1208	0.4000
Gracupica nigricollis	14	0.0511	-2.9741	-0.1520	0.4519
Copsychus saularis	3	0.0109	-4.5145	-0.0494	0.2231
Passer montanus	19	0.0693	-2.6687	-0.1851	0.4939
Lonchura punctulata	39	0.1423	-1.9496	-0.2775	0.5410
Emberiza spodocephala	1	0.0036	-5.6131	-0.0205	0.1150
Total	274	1	-110.2646	-2.5614	8.5553
Richness	30				
SS	8.5553				
SQ	6.5606				
Н	2.5614				
S ² H	0.007473				

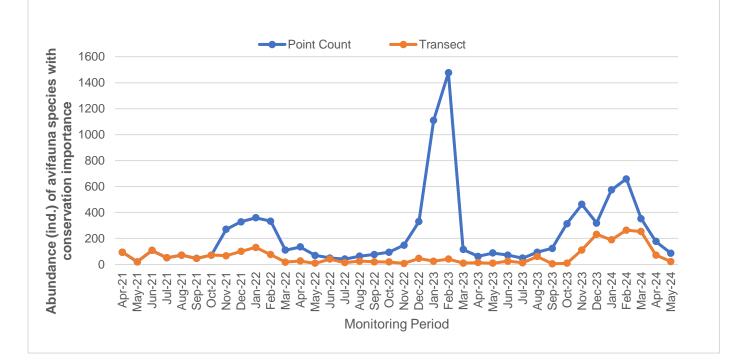
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (13 May 2024)

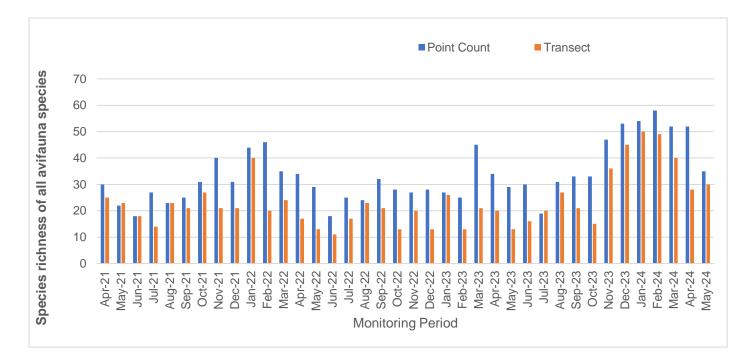
Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) ²
Ardeola bacchus	11	0.4783	-0.7376	-0.3528	0.2602
Ardea alba	3	0.1304	-2.0369	-0.2657	0.5412
Egretta garzetta	3	0.1304	-2.0369	-0.2657	0.5412
Milvus migrans	3	0.1304	-2.0369	-0.2657	0.5412
Centropus sinensis	2	0.0870	-2.4423	-0.2124	0.5187
Halcyon smyrnensis	1	0.0435	-3.1355	-0.1363	0.4274
Total	23	1	-12.4261	-1.4985	2.8298
Richness	6				
SS	2.8298				
SQ	2.2455				
Н	1.4985				
S ² H	0.03013				

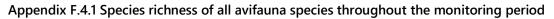


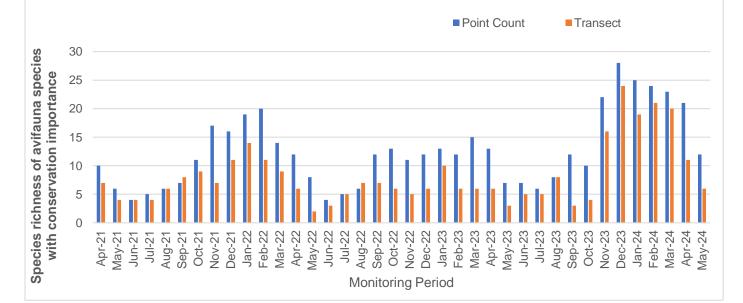
Appendix F.3.1 Abundance of all avifauna species throughout the monitoring period



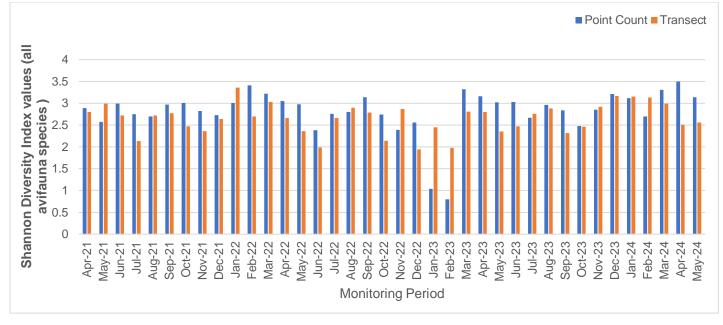






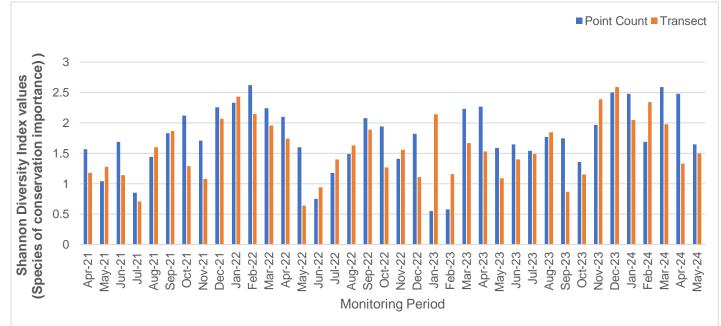


Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period



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	May 2017	May 2024
Total	190	313
Richness	31	35
Н	3.1340	3.1432
S ² H	0.002979	0.002261
t	0.1270	
df	435.5097	
Crit	1.9654	
р	0.8990	
CI	0.1092	0.0951

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

Months	May 2017	May 2024
Total	2	274
Richness	1	30
н	0	2.5614
S ² H	0	0.007473
t	29.6292	
df	274.0000	
Crit	1.9687	
р	1.99E-87	
CI	0.0000	0.1729

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

Months	May 2017	May 2024
Total	71	87
Richness	7	12
Н	1.7237	1.6520
S²H	0.004952	0.016016
t	0.4951	
df	133.4767	
Crit	1.9780	
р	0.6213	
CI	0.1407	0.2531

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

Months	May 2017	May 2024	
Total	2	23	
Richness	1	6	
Н	0	1.4985	
S²H	0	0.03013	
t	8.6330		
df	23.0000		
Crit	2.0687		
р	1.134E-08		
CI	0.0000	0.3472	

Appendix G Wind Data

Date	Wind Speed (m/s)	Wind Direction
01 May 2024 00:00	0.1	SEE
01 May 2024 01:00	0.1	NEE
01 May 2024 02:00	0.3	E
01 May 2024 03:00	1.9	NEE
01 May 2024 04:00	2.0	SES
01 May 2024 05:00	0.5	S
01 May 2024 06:00	0.1	NEE
01 May 2024 07:00	0.1	SES
01 May 2024 08:00	0.1	S
01 May 2024 09:00	0.1	SEE
01 May 2024 10:00	0.1	SWW
01 May 2024 11:00	0.1	S
01 May 2024 12:00	0.1	NEE
01 May 2024 13:00	0.1	NE
01 May 2024 14:00	0.1	SWW
01 May 2024 15:00	0.1	E
01 May 2024 16:00	0.1	SES
01 May 2024 17:00	0.1	S
01 May 2024 18:00	0.1	NE
01 May 2024 19:00	0.1	SWS
01 May 2024 20:00	0.0	SE
01 May 2024 21:00	0.0	SEE
01 May 2024 22:00	0.0	S
01 May 2024 23:00	0.0	NWW
02 May 2024 00:00	0.1	NEE
02 May 2024 01:00	0.1	NE
02 May 2024 02:00	0.1	NEE

Date	Wind Speed (m/s)	Wind Direction
02 May 2024 03:00	0.1	NE
02 May 2024 04:00	0.1	NEE
02 May 2024 05:00	0.2	NEE
02 May 2024 06:00	0.3	E
02 May 2024 07:00	0.3	NE
02 May 2024 08:00	0.4	NEN
02 May 2024 09:00	0.3	NEE
02 May 2024 10:00	0.1	NEE
02 May 2024 11:00	0.4	NE
02 May 2024 12:00	0.6	E
02 May 2024 13:00	0.9	E
02 May 2024 14:00	0.8	NEE
02 May 2024 15:00	0.1	NEE
02 May 2024 16:00	0.3	E
02 May 2024 17:00	0.7	E
02 May 2024 18:00	1.0	E
02 May 2024 19:00	1.2	NEE
02 May 2024 20:00	0.8	E
02 May 2024 21:00	0.4	E
02 May 2024 22:00	0.6	E
02 May 2024 23:00	0.3	E
03 May 2024 00:00	0.2	E
03 May 2024 01:00	0.3	E
03 May 2024 02:00	0.8	SE
03 May 2024 03:00	0.9	NEE
03 May 2024 04:00	1.0	NEE
03 May 2024 05:00	0.9	NE

Date	Wind Speed (m/s)	Wind Direction
03 May 2024 06:00	0.6	NEE
03 May 2024 07:00	0.7	E
03 May 2024 08:00	0.6	NEE
03 May 2024 09:00	0.7	NEE
03 May 2024 10:00	0.7	NEE
03 May 2024 11:00	0.5	E
03 May 2024 12:00	0.5	SWS
03 May 2024 13:00	0.5	NE
03 May 2024 14:00	0.4	NEE
03 May 2024 15:00	0.3	E
03 May 2024 16:00	0.1	NE
03 May 2024 17:00	0.1	NEE
03 May 2024 18:00	0.5	SES
03 May 2024 19:00	0.5	E
03 May 2024 20:00	0.1	E
03 May 2024 21:00	0.2	NEE
03 May 2024 22:00	0.8	NEE
03 May 2024 23:00	0.9	E
04 May 2024 00:00	0.2	NEE
04 May 2024 01:00	0.1	E
04 May 2024 02:00	0.1	SEE
04 May 2024 03:00	0.1	NE
04 May 2024 04:00	0.1	SEE
04 May 2024 05:00	0.2	E
04 May 2024 06:00	0.8	E
04 May 2024 07:00	1.0	NEE
04 May 2024 08:00	0.4	NEE

Date	Wind Speed (m/s)	Wind Direction
04 May 2024 09:00	0.0	SEE
04 May 2024 10:00	0.1	SE
04 May 2024 11:00	0.2	SEE
04 May 2024 12:00	0.3	NE
04 May 2024 13:00	1.4	SES
04 May 2024 14:00	1.4	SE
04 May 2024 15:00	0.1	NE
04 May 2024 16:00	0.1	SES
04 May 2024 17:00	0.1	E
04 May 2024 18:00	0.1	SES
04 May 2024 19:00	0.0	E
04 May 2024 20:00	0.0	SE
04 May 2024 21:00	0.0	SW
04 May 2024 22:00	0.0	E
04 May 2024 23:00	0.0	E
05 May 2024 00:00	0.0	NEE
05 May 2024 01:00	0.1	N
05 May 2024 02:00	0.1	N
05 May 2024 03:00	0.1	N
05 May 2024 04:00	0.1	N
05 May 2024 05:00	0.1	N
05 May 2024 06:00	0.1	N
05 May 2024 07:00	0.1	N
05 May 2024 08:00	0.1	N
05 May 2024 09:00	0.1	N
05 May 2024 10:00	0.1	N
05 May 2024 11:00	0.1	N

Date	Wind Speed (m/s)	Wind Direction
05 May 2024 12:00	0.1	N
05 May 2024 13:00	0.1	N
05 May 2024 14:00	0.1	N
05 May 2024 15:00	0.1	Ν
05 May 2024 16:00	0.1	Ν
05 May 2024 17:00	0.1	Ν
05 May 2024 18:00	0.1	Ν
05 May 2024 19:00	0.1	Ν
05 May 2024 20:00	0.1	N
05 May 2024 21:00	0.1	Ν
05 May 2024 22:00	0.1	Ν
05 May 2024 23:00	0.1	Ν
06 May 2024 00:00	0.1	Ν
06 May 2024 01:00	0.1	Ν
06 May 2024 02:00	0.1	Ν
06 May 2024 03:00	0.1	Ν
06 May 2024 04:00	0.1	Ν
06 May 2024 05:00	0.1	Ν
06 May 2024 06:00	0.1	Ν
06 May 2024 07:00	0.1	Ν
06 May 2024 08:00	0.1	Ν
06 May 2024 09:00	0.1	N
06 May 2024 10:00	0.1	N
06 May 2024 11:00	0.1	N
06 May 2024 12:00	0.1	N
06 May 2024 13:00	0.1	N
06 May 2024 14:00	0.1	Ν

Date	Wind Speed (m/s)	Wind Direction
06 May 2024 15:00	0.1	N
06 May 2024 16:00	0.1	N
06 May 2024 17:00	0.1	N
06 May 2024 18:00	0.1	N
06 May 2024 19:00	0.1	N
06 May 2024 20:00	0.1	N
06 May 2024 21:00	0.1	N
06 May 2024 22:00	0.1	N
06 May 2024 23:00	0.1	N
07 May 2024 00:00	0.1	N
07 May 2024 01:00	0.1	N
07 May 2024 02:00	0.1	N
07 May 2024 03:00	0.1	N
07 May 2024 04:00	0.1	N
07 May 2024 05:00	0.1	N
07 May 2024 06:00	0.1	N
07 May 2024 07:00	0.1	N
07 May 2024 08:00	0.1	N
07 May 2024 09:00	0.1	N
07 May 2024 10:00	0.1	N
07 May 2024 11:00	0.1	N
07 May 2024 12:00	0.1	N
07 May 2024 13:00	0.1	N
07 May 2024 14:00	0.1	N
07 May 2024 15:00	0.1	N
07 May 2024 16:00	0.1	N
07 May 2024 17:00	0.1	N

Date	Wind Speed (m/s)	Wind Direction
07 May 2024 18:00	0.1	N
07 May 2024 19:00	0.1	N
07 May 2024 20:00	0.1	N
07 May 2024 21:00	0.1	N
07 May 2024 22:00	0.1	N
07 May 2024 23:00	0.1	N
08 May 2024 00:00	0.1	N
08 May 2024 01:00	0.1	N
08 May 2024 02:00	0.1	N
08 May 2024 03:00	0.1	Ν
08 May 2024 04:00	0.1	N
08 May 2024 05:00	0.1	N
08 May 2024 06:00	0.1	Ν
08 May 2024 07:00	0.1	Ν
08 May 2024 08:00	0.1	Ν
08 May 2024 09:00	0.1	Ν
08 May 2024 10:00	0.1	Ν
08 May 2024 11:00	0.1	Ν
08 May 2024 12:00	0.1	Ν
08 May 2024 13:00	0.1	Ν
08 May 2024 14:00	0.1	Ν
08 May 2024 15:00	0.1	Ν
08 May 2024 16:00	0.1	Ν
08 May 2024 17:00	0.1	N
08 May 2024 18:00	0.1	N
08 May 2024 19:00	0.1	N
08 May 2024 20:00	0.1	Ν

Date	Wind Speed (m/s)	Wind Direction
08 May 2024 21:00	0.1	N
08 May 2024 22:00	0.1	N
08 May 2024 23:00	0.1	N
09 May 2024 00:00	0.1	N
09 May 2024 01:00	0.1	SEE
09 May 2024 02:00	0.3	S
09 May 2024 03:00	1.0	NE
09 May 2024 04:00	1.0	NEE
09 May 2024 05:00	0.5	NEE
09 May 2024 06:00	1.4	E
09 May 2024 07:00	1.5	NEE
09 May 2024 08:00	0.6	E
09 May 2024 09:00	1.3	E
09 May 2024 10:00	1.7	E
09 May 2024 11:00	1.3	SES
09 May 2024 12:00	0.9	NEE
09 May 2024 13:00	0.4	SE
09 May 2024 14:00	0.9	NEE
09 May 2024 15:00	1.3	NEE
09 May 2024 16:00	0.9	NEE
09 May 2024 17:00	0.3	E
09 May 2024 18:00	0.2	SEE
09 May 2024 19:00	0.1	E
09 May 2024 20:00	0.2	E
09 May 2024 21:00	0.3	E
09 May 2024 22:00	0.3	SEE
09 May 2024 23:00	0.2	NEE

Date	Wind Speed (m/s)	Wind Direction
10 May 2024 00:00	0.1	NEE
10 May 2024 01:00	0.3	E
10 May 2024 02:00	0.3	SEE
10 May 2024 03:00	0.1	E
10 May 2024 04:00	0.6	NEE
10 May 2024 05:00	0.7	E
10 May 2024 06:00	0.5	NEE
10 May 2024 07:00	1.7	NEE
10 May 2024 08:00	2.7	NEE
10 May 2024 09:00	2.1	E
10 May 2024 10:00	0.9	NEE
10 May 2024 11:00	1.1	NEN
10 May 2024 12:00	2.1	NEE
10 May 2024 13:00	1.4	NEE
10 May 2024 14:00	0.6	E
10 May 2024 15:00	0.9	NEE
10 May 2024 16:00	0.7	SEE
10 May 2024 17:00	0.2	E
10 May 2024 18:00	0.1	SEE
10 May 2024 19:00	0.2	SEE
10 May 2024 20:00	0.2	SEE
10 May 2024 21:00	0.2	NE
10 May 2024 22:00	0.6	NEE
10 May 2024 23:00	0.4	NE
11 May 2024 00:00	0.1	E
11 May 2024 01:00	0.2	NEE
11 May 2024 02:00	0.2	NEE

Date	Wind Speed (m/s)	Wind Direction
11 May 2024 03:00	0.1	NEE
11 May 2024 04:00	0.2	NEE
11 May 2024 05:00	0.1	E
11 May 2024 06:00	0.1	NEE
11 May 2024 07:00	0.1	SEE
11 May 2024 08:00	0.0	NEE
11 May 2024 09:00	0.2	S
11 May 2024 10:00	0.4	NEN
11 May 2024 11:00	0.7	SE
11 May 2024 12:00	0.5	S
11 May 2024 13:00	1.1	SWW
11 May 2024 14:00	1.6	S
11 May 2024 15:00	1.2	S
11 May 2024 16:00	0.9	S
11 May 2024 17:00	0.4	S
11 May 2024 18:00	0.2	S
11 May 2024 19:00	0.1	SEE
11 May 2024 20:00	0.1	SEE
11 May 2024 21:00	0.0	E
11 May 2024 22:00	0.0	SES
11 May 2024 23:00	0.1	E
12 May 2024 00:00	0.1	NEE
12 May 2024 01:00	0.1	NE
12 May 2024 02:00	0.1	NEE
12 May 2024 03:00	0.1	E
12 May 2024 04:00	0.1	NEE
12 May 2024 05:00	0.1	E

Date	Wind Speed (m/s)	Wind Direction
12 May 2024 06:00	0.1	SES
12 May 2024 07:00	0.0	SEE
12 May 2024 08:00	0.2	SEE
12 May 2024 09:00	0.3	NEN
12 May 2024 10:00	0.2	NWN
12 May 2024 11:00	0.1	NE
12 May 2024 12:00	0.1	NW
12 May 2024 13:00	0.4	NWW
12 May 2024 14:00	1.3	NW
12 May 2024 15:00	0.9	SWS
12 May 2024 16:00	0.1	NEE
12 May 2024 17:00	0.1	NE
12 May 2024 18:00	0.1	E
12 May 2024 19:00	0.1	SE
12 May 2024 20:00	0.1	S
12 May 2024 21:00	0.1	NWW
12 May 2024 22:00	0.1	SE
12 May 2024 23:00	0.1	NE
13 May 2024 00:00	0.1	NWW
13 May 2024 01:00	0.1	S
13 May 2024 02:00	0.1	Ν
13 May 2024 03:00	0.1	N
13 May 2024 04:00	0.1	N
13 May 2024 05:00	0.1	Ν
13 May 2024 06:00	0.1	N
13 May 2024 07:00	0.1	N
13 May 2024 08:00	0.1	Ν

Date	Wind Speed (m/s)	Wind Direction
13 May 2024 09:00	0.1	N
13 May 2024 10:00	0.1	N
13 May 2024 11:00	0.1	N
13 May 2024 12:00	0.1	N
13 May 2024 13:00	0.1	N
13 May 2024 14:00	0.1	N
13 May 2024 15:00	0.1	N
13 May 2024 16:00	0.1	N
13 May 2024 17:00	0.1	N
13 May 2024 18:00	0.1	N
13 May 2024 19:00	0.1	N
13 May 2024 20:00	0.1	N
13 May 2024 21:00	0.1	N
13 May 2024 22:00	0.1	N
13 May 2024 23:00	0.1	N
14 May 2024 00:00	0.1	N
14 May 2024 01:00	0.1	N
14 May 2024 02:00	0.1	N
14 May 2024 03:00	0.1	N
14 May 2024 04:00	0.1	N
14 May 2024 05:00	0.1	N
14 May 2024 06:00	0.1	N
14 May 2024 07:00	0.1	N
14 May 2024 08:00	0.1	N
14 May 2024 09:00	0.1	N
14 May 2024 10:00	0.1	N
14 May 2024 11:00	0.1	N

Date	Wind Speed (m/s)	Wind Direction
14 May 2024 12:00	0.1	N
14 May 2024 13:00	0.1	N
14 May 2024 14:00	0.1	N
14 May 2024 15:00	0.1	N
14 May 2024 16:00	0.1	N
14 May 2024 17:00	0.1	Ν
14 May 2024 18:00	0.1	N
14 May 2024 19:00	0.1	N
14 May 2024 20:00	0.1	Ν
14 May 2024 21:00	0.1	Ν
14 May 2024 22:00	0.1	Ν
14 May 2024 23:00	0.1	Ν
15 May 2024 00:00	0.1	Ν
15 May 2024 01:00	0.1	Ν
15 May 2024 02:00	0.1	Ν
15 May 2024 03:00	0.1	N
15 May 2024 04:00	0.1	N
15 May 2024 05:00	0.1	N
15 May 2024 06:00	0.1	N
15 May 2024 07:00	0.1	N
15 May 2024 08:00	0.1	N
15 May 2024 09:00	0.1	N
15 May 2024 10:00	0.1	N
15 May 2024 11:00	0.1	N
15 May 2024 12:00	0.1	Ν
15 May 2024 13:00	0.1	N
15 May 2024 14:00	0.1	Ν

Date	Wind Speed (m/s)	Wind Direction
15 May 2024 15:00	0.1	N
15 May 2024 16:00	0.1	N
15 May 2024 17:00	0.1	N
15 May 2024 18:00	0.1	N
15 May 2024 19:00	0.1	N
15 May 2024 20:00	0.1	N
15 May 2024 21:00	0.1	N
15 May 2024 22:00	0.1	N
15 May 2024 23:00	0.1	N
16 May 2024 00:00	0.1	N
16 May 2024 01:00	0.1	N
16 May 2024 02:00	0.1	N
16 May 2024 03:00	0.1	N
16 May 2024 04:00	0.1	N
16 May 2024 05:00	0.1	N
16 May 2024 06:00	0.1	N
16 May 2024 07:00	0.1	N
16 May 2024 08:00	0.1	N
16 May 2024 09:00	0.1	N
16 May 2024 10:00	0.1	N
16 May 2024 11:00	0.1	N
16 May 2024 12:00	0.1	N
16 May 2024 13:00	0.1	N
16 May 2024 14:00	0.1	N
16 May 2024 15:00	0.1	N
16 May 2024 16:00	0.1	N
16 May 2024 17:00	0.1	N

Date	Wind Speed (m/s)	Wind Direction
16 May 2024 18:00	0.1	N
16 May 2024 19:00	0.1	N
16 May 2024 20:00	0.1	N
16 May 2024 21:00	0.1	N
16 May 2024 22:00	0.1	N
16 May 2024 23:00	0.1	N
17 May 2024 00:00	0.1	N
17 May 2024 01:00	0.1	N
17 May 2024 02:00	0.1	SE
17 May 2024 03:00	0.1	SEE
17 May 2024 04:00	0.3	NEE
17 May 2024 05:00	0.6	NE
17 May 2024 06:00	0.8	NEE
17 May 2024 07:00	0.9	NEE
17 May 2024 08:00	0.8	NEE
17 May 2024 09:00	0.7	NEN
17 May 2024 10:00	0.3	SWS
17 May 2024 11:00	0.1	SWS
17 May 2024 12:00	0.1	S
17 May 2024 13:00	0.2	NEE
17 May 2024 14:00	0.3	S
17 May 2024 15:00	0.1	SES
17 May 2024 16:00	0.1	SES
17 May 2024 17:00	0.1	W
17 May 2024 18:00	0.0	SES
17 May 2024 19:00	0.0	SEE
17 May 2024 20:00	0.0	NEE

Date	Wind Speed (m/s)	Wind Direction
17 May 2024 21:00	0.1	NEE
17 May 2024 22:00	0.1	NEE
17 May 2024 23:00	0.0	NE
18 May 2024 00:00	0.0	SE
18 May 2024 01:00	0.1	NEE
18 May 2024 02:00	0.0	E
18 May 2024 03:00	0.0	NEE
18 May 2024 04:00	0.1	NEE
18 May 2024 05:00	0.2	SEE
18 May 2024 06:00	0.1	E
18 May 2024 07:00	0.3	NEE
18 May 2024 08:00	0.7	NEE
18 May 2024 09:00	0.6	NE
18 May 2024 10:00	0.7	NEE
18 May 2024 11:00	0.7	NEE
18 May 2024 12:00	0.7	NEE
18 May 2024 13:00	0.7	NEE
18 May 2024 14:00	0.7	SEE
18 May 2024 15:00	0.7	NEE
18 May 2024 16:00	0.5	NEE
18 May 2024 17:00	0.6	NE
18 May 2024 18:00	0.7	NEE
18 May 2024 19:00	0.7	E
18 May 2024 20:00	0.8	SEE
18 May 2024 21:00	0.4	NEE
18 May 2024 22:00	0.1	E
18 May 2024 23:00	0.1	E

Date	Wind Speed (m/s)	Wind Direction
19 May 2024 00:00	0.4	NEE
19 May 2024 01:00	1.0	NE
19 May 2024 02:00	0.8	NEE
19 May 2024 03:00	0.1	SEE
19 May 2024 04:00	0.3	NEE
19 May 2024 05:00	0.7	NEE
19 May 2024 06:00	0.7	NEE
19 May 2024 07:00	0.5	NEE
19 May 2024 08:00	0.4	E
19 May 2024 09:00	0.5	E
19 May 2024 10:00	1.2	Е
19 May 2024 11:00	1.0	SWS
19 May 2024 12:00	0.4	NEE
19 May 2024 13:00	0.4	SEE
19 May 2024 14:00	0.3	NEE
19 May 2024 15:00	0.6	NEE
19 May 2024 16:00	0.7	NEE
19 May 2024 17:00	0.4	NEE
19 May 2024 18:00	0.3	NEE
19 May 2024 19:00	0.2	Е
19 May 2024 20:00	0.8	NEE
19 May 2024 21:00	1.4	E
19 May 2024 22:00	0.7	NE
19 May 2024 23:00	0.2	NEE
20 May 2024 00:00	0.4	NE
20 May 2024 01:00	0.3	NEE
20 May 2024 02:00	0.1	NEE

Date	Wind Speed (m/s)	Wind Direction
20 May 2024 03:00	0.4	NEE
20 May 2024 04:00	0.6	NEE
20 May 2024 05:00	0.8	E
20 May 2024 06:00	0.9	SEE
20 May 2024 07:00	0.9	NE
20 May 2024 08:00	1.0	NEE
20 May 2024 09:00	0.8	NEE
20 May 2024 10:00	0.7	E
20 May 2024 11:00	1.2	NEE
20 May 2024 12:00	1.3	E
20 May 2024 13:00	0.5	SE
20 May 2024 14:00	0.2	E
20 May 2024 15:00	0.3	NEE
20 May 2024 16:00	0.9	E
20 May 2024 17:00	1.0	E
20 May 2024 18:00	0.4	NEE
20 May 2024 19:00	0.6	NE
20 May 2024 20:00	0.8	NE
20 May 2024 21:00	0.3	SW
20 May 2024 22:00	0.2	NEE
20 May 2024 23:00	0.4	NEE
21 May 2024 00:00	0.5	E
21 May 2024 01:00	0.3	NEE
21 May 2024 02:00	0.6	NEE
21 May 2024 03:00	0.7	NEE
21 May 2024 04:00	0.3	E
21 May 2024 05:00	0.7	E

Date	Wind Speed (m/s)	Wind Direction
21 May 2024 06:00	0.8	E
21 May 2024 07:00	0.2	E
21 May 2024 08:00	0.1	E
21 May 2024 09:00	0.1	NE
21 May 2024 10:00	0.1	NE
21 May 2024 11:00	0.1	NEN
21 May 2024 12:00	0.2	NEE
21 May 2024 13:00	0.1	NEE
21 May 2024 14:00	0.0	E
21 May 2024 15:00	0.1	NEN
21 May 2024 16:00	0.1	NE
21 May 2024 17:00	0.0	NE
21 May 2024 18:00	0.1	NE
21 May 2024 19:00	0.0	Ν
21 May 2024 20:00	0.1	NE
21 May 2024 21:00	0.1	NW
21 May 2024 22:00	0.1	NEE
21 May 2024 23:00	0.0	NEE
22 May 2024 00:00	0.1	NE
22 May 2024 01:00	0.1	NWN
22 May 2024 02:00	0.1	NWN
22 May 2024 03:00	0.0	NE
22 May 2024 04:00	0.0	NEE
22 May 2024 05:00	0.1	NEE
22 May 2024 06:00	0.1	NEE
22 May 2024 07:00	0.1	NE
22 May 2024 08:00	0.1	NEE

Date	Wind Speed (m/s)	Wind Direction
22 May 2024 09:00	0.1	NEN
22 May 2024 10:00	0.1	NEE
22 May 2024 11:00	0.1	NW
22 May 2024 12:00	0.1	SE
22 May 2024 13:00	0.1	NW
22 May 2024 14:00	0.3	E
22 May 2024 15:00	0.2	S
22 May 2024 16:00	0.0	SES
22 May 2024 17:00	0.1	SES
22 May 2024 18:00	0.0	SE
22 May 2024 19:00	0.0	NEE
22 May 2024 20:00	0.0	NEE
22 May 2024 21:00	0.0	E
22 May 2024 22:00	0.0	NE
22 May 2024 23:00	0.0	NE
23 May 2024 00:00	0.0	NEE
23 May 2024 01:00	0.0	SEE
23 May 2024 02:00	0.0	SEE
23 May 2024 03:00	0.0	E
23 May 2024 04:00	0.0	NEE
23 May 2024 05:00	0.0	SEE
23 May 2024 06:00	0.0	SEE
23 May 2024 07:00	0.0	SWS
23 May 2024 08:00	0.3	NE
23 May 2024 09:00	0.3	NEE
23 May 2024 10:00	0.1	NEE
23 May 2024 11:00	0.1	SE

Date	Wind Speed (m/s)	Wind Direction
23 May 2024 12:00	0.0	S
23 May 2024 13:00	0.3	S
23 May 2024 14:00	0.3	SWS
23 May 2024 15:00	0.1	SW
23 May 2024 16:00	0.1	SWS
23 May 2024 17:00	0.3	NE
23 May 2024 18:00	0.3	NEE
23 May 2024 19:00	0.1	NEE
23 May 2024 20:00	0.0	NE
23 May 2024 21:00	0.1	NEE
23 May 2024 22:00	0.1	NEE
23 May 2024 23:00	0.1	E
24 May 2024 00:00	0.0	NEE
24 May 2024 01:00	0.1	NEE
24 May 2024 02:00	0.1	NEE
24 May 2024 03:00	0.0	NE
24 May 2024 04:00	0.0	NEE
24 May 2024 05:00	0.0	NEE
24 May 2024 06:00	0.0	NE
24 May 2024 07:00	0.1	NEE
24 May 2024 08:00	0.1	NEE
24 May 2024 09:00	0.1	NEE
24 May 2024 10:00	0.0	E
24 May 2024 11:00	0.0	E
24 May 2024 12:00	0.1	NEE
24 May 2024 13:00	0.1	S
24 May 2024 14:00	0.0	NWW

Date	Wind Speed (m/s)	Wind Direction
24 May 2024 15:00	0.2	NWN
24 May 2024 16:00	0.2	NEE
24 May 2024 17:00	0.1	NEE
24 May 2024 18:00	0.1	NEE
24 May 2024 19:00	0.0	NEE
24 May 2024 20:00	0.0	NEE
24 May 2024 21:00	0.1	NEE
24 May 2024 22:00	0.1	E
24 May 2024 23:00	0.1	S
25 May 2024 00:00	0.0	SWS
25 May 2024 01:00	0.0	NEN
25 May 2024 02:00	0.0	NEE
25 May 2024 03:00	0.0	NE
25 May 2024 04:00	0.1	N
25 May 2024 05:00	0.1	N
25 May 2024 06:00	0.1	N
25 May 2024 07:00	0.1	N
25 May 2024 08:00	0.1	N
25 May 2024 09:00	0.1	N
25 May 2024 10:00	0.1	N
25 May 2024 11:00	0.1	N
25 May 2024 12:00	0.1	N
25 May 2024 13:00	0.1	N
25 May 2024 14:00	0.1	N
25 May 2024 15:00	0.1	Ν
25 May 2024 16:00	0.1	Ν
25 May 2024 17:00	0.1	N

Date	Wind Speed (m/s)	Wind Direction
25 May 2024 18:00	0.1	N
25 May 2024 19:00	0.1	N
25 May 2024 20:00	0.1	N
25 May 2024 21:00	0.1	N
25 May 2024 22:00	0.1	N
25 May 2024 23:00	0.1	Ν
26 May 2024 00:00	0.1	Ν
26 May 2024 01:00	0.1	Ν
26 May 2024 02:00	0.1	Ν
26 May 2024 03:00	0.1	Ν
26 May 2024 04:00	0.1	Ν
26 May 2024 05:00	0.1	Ν
26 May 2024 06:00	0.1	Ν
26 May 2024 07:00	0.1	Ν
26 May 2024 08:00	0.1	Ν
26 May 2024 09:00	0.1	Ν
26 May 2024 10:00	0.1	Ν
26 May 2024 11:00	0.1	Ν
26 May 2024 12:00	0.1	Ν
26 May 2024 13:00	0.1	Ν
26 May 2024 14:00	0.1	N
26 May 2024 15:00	0.1	N
26 May 2024 16:00	0.1	N
26 May 2024 17:00	0.1	N
26 May 2024 18:00	0.1	N
26 May 2024 19:00	0.1	N
26 May 2024 20:00	0.1	Ν

Date	Wind Speed (m/s)	Wind Direction
26 May 2024 21:00	0.1	N
26 May 2024 22:00	0.1	N
26 May 2024 23:00	0.1	N
27 May 2024 00:00	0.1	N
27 May 2024 01:00	0.1	N
27 May 2024 02:00	0.1	N
27 May 2024 03:00	0.1	N
27 May 2024 04:00	0.1	N
27 May 2024 05:00	0.1	N
27 May 2024 06:00	0.1	N
27 May 2024 07:00	0.1	N
27 May 2024 08:00	0.1	N
27 May 2024 09:00	0.1	N
27 May 2024 10:00	0.1	N
27 May 2024 11:00	0.1	N
27 May 2024 12:00	0.1	N
27 May 2024 13:00	0.1	N
27 May 2024 14:00	0.1	N
27 May 2024 15:00	0.1	N
27 May 2024 16:00	0.1	N
27 May 2024 17:00	0.1	N
27 May 2024 18:00	0.1	N
27 May 2024 19:00	0.1	N
27 May 2024 20:00	0.1	N
27 May 2024 21:00	0.1	N
27 May 2024 22:00	0.1	N
27 May 2024 23:00	0.1	N

Date	Wind Speed (m/s)	Wind Direction
28 May 2024 00:00	0.1	N
28 May 2024 01:00	0.1	N
28 May 2024 02:00	0.1	N
28 May 2024 03:00	0.1	N
28 May 2024 04:00	0.1	N
28 May 2024 05:00	0.1	N
28 May 2024 06:00	0.1	N
28 May 2024 07:00	0.1	N
28 May 2024 08:00	0.1	Ν
28 May 2024 09:00	0.1	N
28 May 2024 10:00	0.1	N
28 May 2024 11:00	0.1	N
28 May 2024 12:00	0.1	Ν
28 May 2024 13:00	0.1	N
28 May 2024 14:00	0.1	Ν
28 May 2024 15:00	0.1	Ν
28 May 2024 16:00	0.1	Ν
28 May 2024 17:00	0.1	N
28 May 2024 18:00	0.1	N
28 May 2024 19:00	0.1	Ν
28 May 2024 20:00	0.1	N
28 May 2024 21:00	0.1	N
28 May 2024 22:00	0.1	N
28 May 2024 23:00	0.1	N
29 May 2024 00:00	0.1	N
29 May 2024 01:00	0.1	Ν
29 May 2024 02:00	0.1	N

Date	Wind Speed (m/s)	Wind Direction
29 May 2024 03:00	0.1	N
29 May 2024 04:00	1.5	E
29 May 2024 05:00	1.2	NEE
29 May 2024 06:00	0.8	SE
29 May 2024 07:00	0.7	SEE
29 May 2024 08:00	1.3	SEE
29 May 2024 09:00	2.4	E
29 May 2024 10:00	2.8	E
29 May 2024 11:00	2.3	SEE
29 May 2024 12:00	1.4	NEE
29 May 2024 13:00	0.8	E
29 May 2024 14:00	0.8	NEE
29 May 2024 15:00	0.4	NEN
29 May 2024 16:00	0.3	E
29 May 2024 17:00	0.4	NEE
29 May 2024 18:00	0.1	NEE
29 May 2024 19:00	0.1	SEE
29 May 2024 20:00	0.2	SES
29 May 2024 21:00	0.2	NEE
29 May 2024 22:00	0.3	E
29 May 2024 23:00	2.3	SEE
30 May 2024 00:00	2.2	NEE
30 May 2024 01:00	0.1	E
30 May 2024 02:00	0.5	SEE
30 May 2024 03:00	0.6	E
30 May 2024 04:00	0.4	E
30 May 2024 05:00	0.7	NEE

Date	Wind Speed (m/s)	Wind Direction
30 May 2024 06:00	0.6	NEE
30 May 2024 07:00	0.5	NEE
30 May 2024 08:00	1.5	NEE
30 May 2024 09:00	1.8	NEE
30 May 2024 10:00	2.1	NEE
30 May 2024 11:00	1.9	NEE
30 May 2024 12:00	1.1	E
30 May 2024 13:00	1.0	NE
30 May 2024 14:00	0.7	SWS
30 May 2024 15:00	0.8	NE
30 May 2024 16:00	0.4	NEE
30 May 2024 17:00	0.2	NEE
30 May 2024 18:00	0.5	NEE
30 May 2024 19:00	0.7	NEE
30 May 2024 20:00	0.3	E
30 May 2024 21:00	0.2	SEE
30 May 2024 22:00	0.3	E
30 May 2024 23:00	0.3	NE
31 May 2024 00:00	0.6	NEE
31 May 2024 01:00	1.1	NEE
31 May 2024 02:00	0.8	NEE
31 May 2024 03:00	0.5	NE
31 May 2024 04:00	0.5	NEE
31 May 2024 05:00	0.2	NEN
31 May 2024 06:00	0.2	NE
31 May 2024 07:00	0.2	SWS
31 May 2024 08:00	0.1	S

Date	Wind Speed (m/s)	Wind Direction
31 May 2024 09:00	0.0	S
31 May 2024 10:00	0.1	SES
31 May 2024 11:00	0.2	NEE
31 May 2024 12:00	0.2	SEE
31 May 2024 13:00	0.1	SE
31 May 2024 14:00	0.1	SWS
31 May 2024 15:00	0.1	SE
31 May 2024 16:00	0.0	SE
31 May 2024 17:00	0.0	SES
31 May 2024 18:00	0.0	E
31 May 2024 19:00	0.0	SES
31 May 2024 20:00	0.3	NEE
31 May 2024 21:00	0.3	NEE
31 May 2024 22:00	0.1	NEE
31 May 2024 23:00	0.1	SWS

Appendix H Event and Action Plan

Event and Action Plan for Air Quality (Construction Dust)

Event	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. 	1. 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						
	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 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 writing; Notify Contractor; Require Contractor to propose remedial measures for the analyzed noise problem; 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. 	 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. 			

Event and Action Plan for Water Quality Monitoring

Front	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. 	1. 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. 	 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. 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. 	 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. 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				
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 Flow	w Table for Year	2024									
		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)
2024 Jan	11180.54	Nil	Nil	Nil	11103.51	Nil	Nil	0.17	Nil	Nil	76.86
2024 Feb	39622.50	Nil	Nil	Nil	39511.96	Nil	10.78	0.01	Nil	Nil	99.74
2024 Mar	28642.82*	Nil	Nil	Nil	28422.00*	Nil	94.04	0.01	Nil	Nil	126.76
2024 Apr	36811.58	Nil	Nil	Nil	36608.65	Nil	75.49	0.10	Nil	Nil	127.33
2024 May	3260.40	Nil	Nil	Nil	3161.67	Nil	Nil	0.15	Nil	Nil	98.58
Total	119517.84	Nil	Nil	Nil	118807.79	Nil	180.31	0.45	Nil	Nil	529.27

Note:

The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
 Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
 Disposal Records to Government facilities is updated till 25th May 2024.
 Updated figures are presented during the reporting month.

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

Appendix J Implementation Status of Environmental Mitigation Measures

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	be carried out to further minimize construction dust impac			
	• 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		
	• 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 run- off and the chance of erosion. Surface run-off from construction sites should be discharged into storm drains via adequately designed sand / silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided as necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	Construction Sites / Construction Phase	Implemented

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

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status			
	Waste Management Implication (Construction Phase)					
	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;		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;	Construction Sites	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;		Implemented
6.6.1.7	Maintain and clean storage areas routinely;	Construction Sites	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 employed for the collection and transportation of waste generated.	nforced to minimise the potential ac	lverse impacts:
	Remove waste in timely manner;		Implemented
	Waste collectors should only collect wastes prescribed by their permits;	Construction Sites	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.	Transportation Route of Waste / Construction Phase	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 lands requirements are listed below:	caping works as far as practicable	. Other mitigation
	A WMP, which becomes part of the EMP, should be prepared in accordance with ETWB TCW No.19/2005;		Implemented
6.6.1.13	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) to stockpiles on-site should be taken in order to minimise the noise, generation of dust and pollution of water. These measures include:	for the sorted materials. Control mea	asures for temporary
	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	Construction Ones	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 action. The RR(s) should be endorsed by EPD prior to the commencement of construction works at the respective identified contaminated areas (if any).	Existing YLSTW /Construction Phase (after decommissioning of the concerned facilities / areas but prior to the construction works at the concerned facilities / areas)	Implemented
	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)		
	Avoidance of Recognised Site of Conservation Importance		
8.10.2.1	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
	Avoidance of Demolition Works Using Breakers Mounted on Excavators and Percussive Piling during Dry Season		
8.10.2.3 – 8.10.2.4	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
	Restriction of Construction Hours		
8.10.2.5	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
	Minimising Construction Noise Disturbance Impacts through Consideration of Alternative Construction Methods		
8.10.3.2 – 8.10.3.3	Demolition using concrete crusher is quieter than demolition using breaker that its construction noise level is comparable to other general construction activities and concrete crusher would be used for demolition works to be undertaken during dry season months. The quieter foundation methods, including bored piling, raft foundation and shallow foundation, would be adopted as far as possible.	Construction sites / Construction Phase	Implemented
8.10.3.4 – 8.10.3.5	 <u>Minimising Construction Noise Disturbance Impacts Through Careful Phasing of Construction Activities</u> Percussive piling works and demolition using breakers mounted on excavators would typically be completed over two wet seasons and not be undertaken in the same construction zone at the same time to localise the construction disturbance and to reduce the duration of high level of disturbances on sensitive wetland habitats and associated waterbirds nearby each construction zone. Facilities in the eastern side of the Project site (i.e. Phase 1A and Phase 1B) are scheduled to be developed first that the new structures could screen the works in the middle and western parts of the site in later stage of the construction phase after the structures in Phase 1A and Phase 1B are completed, hence minimising the construction noise and human disturbance on sensitive wetland habitats adjacent to the Project site in Shan Pui River, including the confluence of Shan Pui River and Kam Tin River and ardeid night roost to the immediate east of the Project site. 	Project site / Construction Phase	Implemented
	Minimising Construction Noise Disturbance Impacts through Use of Noise Barriers		
8.10.3.6 – 8.10.3.8	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	Construction sites / Construction Phase	Implemented
	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.		
	Use of Quality Powered Mechanical Equipment		
8.10.3.9	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
Table 10.11	Transplanting of Affected Trees (CM2) Trees unavoidably affected by the works shall be transplanted as far as possible in accordance with DEVB TCW No. 7/2015 - Tree Preservation and the latest Guidelines on Tree Transplanting issued by GLTM Section of DevB.	Project site / Construction Phase	Implemented
	Compensatory Tree Planting (CM3) Any trees to be felled under the Project shall be compensated in accordance with DEVB TCW No. 7/2015 - Tree Preservation. For trees to be compensated on slopes, the guidelines for tree planting stipulated in GEO Publication No. 1/2011 will be followed.	Project site / Construction Phase	N/A
	Control of Night-time Lighting Glare (CM4) All the night time lighting shall be avoided except for safety purpose. No light glare shall illuminate directly outside the site.	Project site / Construction Phase	Implemented
	Erection of Decorative Screen Hoarding (CM5) Site hoardings, if any, shall be painted in dull green colour	Project site / Construction Phase	Implemented
	Management of Construction Activities and Facilities (CM6) 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)		
	• 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
11.5.6.9- 11.5.6.12	 For those construction works to be carried out in close proximity to the 15m zone from digesters / gas holders in operation, the height of plants for those major construction shall be limited to 15m such that the plants would not damage digesters /gas holders in such incident as plant collapse or overturning; 		N/A
	Whenever practicable, the construction sequence shall be arranged with empty unit(s) for separating the major construction works from these digesters / gas holders in use; and	Phase	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

April 2024 Weather

Station: Wetland Park

	Mean	A	Air Temperatur	e	Mean	Total
Dete	Pressure	Maximum	Mean	Minimum	Relative	Rainfall
Date	(hPa)	(deg. C)	(deg. C)	(deg. C)	Humidity (%)	(mm)
			April 202	4		
1	1009.6	31.1	28.5	26.8	84	0
2	1008.8	31.8	28.3	26.7	82	0
3	1009.7	30.3#	28	25.9#	86	0
4	1010.2	31.8	28.5	26.9	85	0
5	1011.5	30.6	27.8	25.8	78	0
6	1011.5	28.1	25.2	23.9	91	32.5
7	1010.2	29.7	26.4	24.1	92	4
8	1012.2	29.9	25.5	22.1	93	1.5
9	1015.9	26.6	22.9	21.2	84	0
10	1016.8	28.4#	24.4	21.5#	69	0
11	1015.7	31	24.7	21	78	0
12	1013.3	30.9	25.1	20.9	83	0
13	1011.1	31.6	26.1	22	82	0
14	1011.7	31.9	27.1	23.6	81	0
15	1012.6	31.1	27.1	24.3	84	0
16	1010.7	32.6	27.4	23.4	80	0
17	1009.6	32.5	28.2	24.9	80	0
18	1008.7	30.6	25.8	22.7	87	10
19	1007.6	28.4	26.4	23.9	87	1
20	1007.8	29.8	25.9	21.2	86	19
21	1008.7	25.2	22.5	21.3	97	48.5
22	1008.6	26.1	23.7	21.6	96	7.5
23	1007.6	25.6	23.5	22.7	96	59.5
24	1008.6	28.3	24.8	22.4	91	0
25	1006.6	28	24.8	23.3	90	4
26	1004	27.3	25.1	21	93	30
27	1004.6	28.9	27	25.6	89	0
28	1008.1	26.5	24.3	22.3	91	3.5
29	1007.9	29.4	26.1	23	89	0
30	1004.4	29.8	26.7	21.1	85	13

Note (From Hong Kong Observatory):

1. # Data incomplete

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

Source: Hong Kong Observatory

May 2024 Weather

Station: Hong Kong Observatory

			Air Temperature		Mean Relative	Total Dainfall
Date	Mean Pressure (hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	Humidity (%)	Total Rainfall (mm)
		· · · · · · · · · · · · · · · · · · ·	May 2024	·		
1	1008.4	24.5	23.7	22.4	92	52.9
2	1011.7	25.6	24.6	23.7	88	1.1
3	1012.2	24.8	24.3	23.7	87	Trace
4	1009.3	25.4	24	22.4	93	75.1
5	1010	28.3	25.3	22.8	86	5.3
6	1012	31.9	27.7	24.6	82	0
7	1013.4	31	27.2	25.6	80	0
8	1014	30.3	26.7	25.1	76	Trace
9	1015.3	28.5	25.8	25	68	0
10	1015.1	26.9	25.3	24.2	72	Trace
11	1013.7	30	26.7	24.8	81	Trace
12	1011.7	30.7	27.1	25.3	85	3.1
13	1011.6	30.3	26.4	23.7	81	0.7
14	1013.7	29.2	25.5	23.1	64	0
15	1014.6	30.5	26.4	23.6	62	0
16	1014.8	29.2	26.2	24.6	60	0
17	1012.5	28.5	25.9	23.9	71	Trace
18	1009.6	28.6	26.3	25.1	71	Trace
19	1007.4	26.3	25.1	24.1	83	17.5
20	1006.8	25.4	24.5	23.9	92	30.7
21	1008.3	26.2	25.3	24.1	95	45.3
22	1008.9	27	26.1	25.2	91	Trace
23	1009.4	28.2	25.9	25	91	2.5
24	1010	26.4	25.3	24.6	92	17.6
25	1010.1	27.7	26.3	24.8	91	7.8
26	1008.3	30.2	27.4	25.7	87	0.3
27	1003.8	29.9	28.4	27.3	85	6.7
28	1002.9	32	28.1	26	83	8.9
29	1005.8	28.8	25.8	24.6	70	0
30	1005.9	26.2	25.5	24.6	86	3.7
31	1006.5	29.8	27.2	25.8	91	13.4

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

Parameters	Date	Observations and Recommendations	Follow-up		
Air Quality	NA				
Noise	NA				
Water Quality	29 May 2024	Reminder: The contractor is reminded to increase watering for the haul road.	NA		
Chemical and Waste Management	14 May 2024	Reminder: The contractor was reminded to clear the construction waste regularly.	NA		
Land Contamination		NA	·		
Ecological Impact		NA			
Landscape and Visual Impact		NA			
Permit / Licenses	14 May 2024	May 2024 Constructor was reminded to display NRMM label on the PME.			
Others	NA				

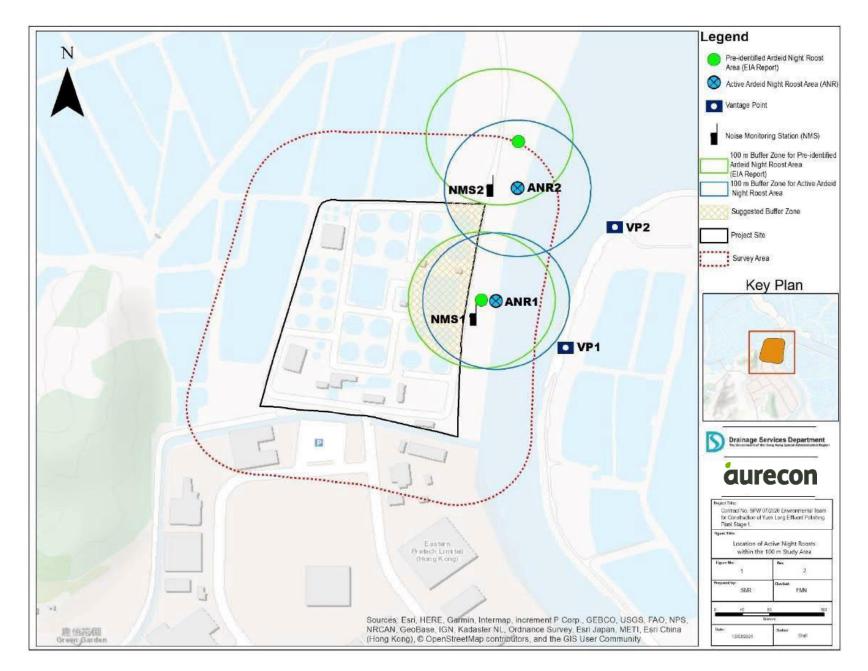
Summary of ET Leader's Site Environmental Audit in the Reporting Month

Appendix N Outstanding Issues and Deficiencies

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	

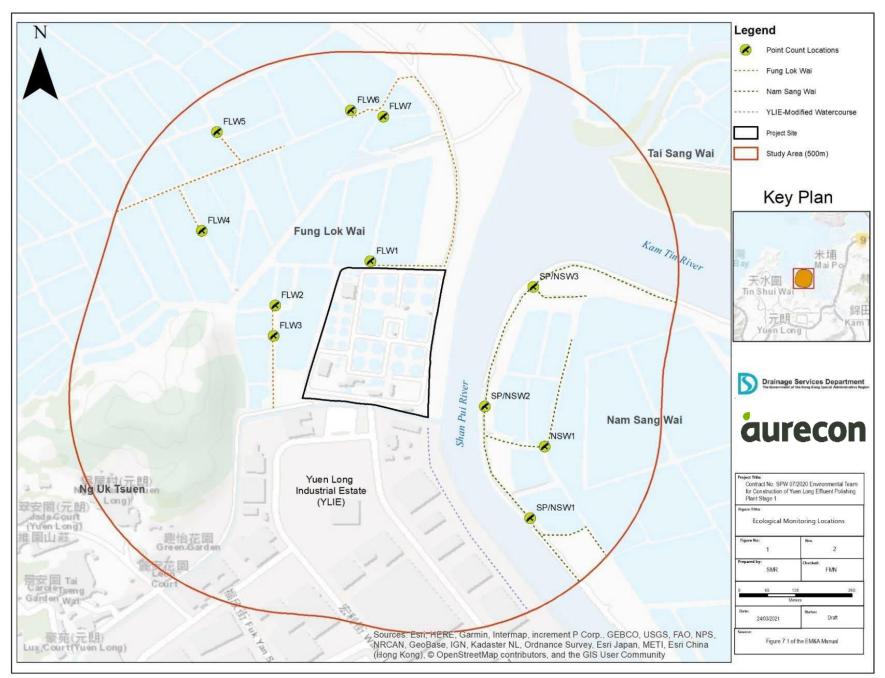
Summary of Outstanding Issues and Deficiencies in the Reporting Month

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



- 0.1 Map of the Monitoring Area, Vantage Points for Observation of Active Night Roosts and Noise Monitoring Stations

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

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