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

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

2024-02-06



Sringing ideas

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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/L052 Independent Environmental Checker for Construction of Yuen Long Effluent Polishing Plant Stage 1 (2023-2024)

Environmental Permit No. EP-565/2019

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8 February 2024 By Hand and By Email

Dear Sir,

I refer to the captioned Monthly EM&A Report for January 2024 (Revision 0) which was received via e-mail and certified by the Environmental Team Leader on 7 February 2024 (ref.: PL-202402010).

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

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c.c. DSD

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Ref: PL-202402010

7 February 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 January 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 January 2024 (Rev.0) 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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Docı	Document control aurecon					aurecon		
Repo	rt title	Monthly EM&A Report (Janu	Monthly EM&A Report (January 2024)					
Docu	ment ID	MR	Project number		P525161			
File p	ath	P525161-0000-PD-MR-0007	P525161-0000-PD-MR-0007[0]					
Clien	t	Drainage Services Department						
Clien	t contact		Client reference					
Rev	Date	Revision details/status	Author	Reviewer	Verifier (if required)	Approver		
0	6 February 2024	Submitted to IEC	Various	JH		VL		
Curre	Current revision 0							

Approval			
Reviewer's signature	J.	Approver's signature	- CAES
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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 34<sup>th</sup> Monthly EM&A Report for the construction phase which summaries findings of the EM&A programme during the reporting period from 1 January 2024 to 31 January 2024. As informed by the Contractor, major activities in the reporting month were:

- Ground investigation at SDB
- ABWF and E&M works at CLP substation
- ABWF and E&M works at PST
- ABWF work and RC structure at IW
- Pumping test at AGS
- ELS work at AGS
- Erection temp. loading platform at AGS
- Installation of observation wells and dewatering well at TTS
- Pumping test at TTS
- Erection temp. loading platform at TTS
- ELS work at TTS
- E&M works at Biogas Holder no. 1
- Installation of observation wells and dewatering well around Sludge digester no. 1-3
- ELS work at STB
- 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:

- Ground investigation at SDB
- Demolition at SDB
- ABWF work, E&M works and fixing GRC panel at CLP Substation
- ABWF and E&M works at PST
- E&M work 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
- Pumping test at Sludge Digester no. 1-3
- E&M work at Biogas Holder no. 1
- Construction of temp. haul road in front of central Control Room

# 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 m<sup>3</sup> per day. Based on the latest planning data, the volume of sewage generation from the YLSTW catchment is estimated to increase to 150,000 m<sup>3</sup> 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 m<sup>3</sup> per day. The proposed works, as Stage 1 of the project, will firstly increase the treatment capacity to 100,000 m<sup>3</sup> 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 34<sup>th</sup> Monthly EM&A report to document the findings of site inspection activities and EM&A programme for this project from 1 January 2024 to 31 January 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:
  - Ground investigation at SDB
  - ABWF and E&M works at CLP substation
  - ABWF and E&M works at PST
  - ABWF work and RC structure at IW
  - Pumping test at AGS
  - ELS work at AGS
  - Erection temp. loading platform at AGS
  - Installation of observation wells and dewatering well at TTS
  - Pumping test at TTS
  - Erection temp. loading platform at TTS
  - ELS work at TTS
  - E&M works at Biogas Holder no. 1
  - Installation of observation wells and dewatering well around Sludge digester no. 1-3
  - ELS work at STB
- 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-RN0818-23	6-Aug-2023	5-Feb-2024
Construction Noise Permit	GW-RN0043-24	17-Jan-2024	16-Apr-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 1-Dec-2022 with immediate effect)	31-Aug-2026
Marine Dumping Permit Type 1 – Open Sea Disposal	EP/MD/24-038	1-Sep-2023	29-Feb-2024
Marine Dumping Permit (Type 1 – Open Sea Disposal (Dedicated Site) and Type 2 – Confined Marine Disposal)	EP/MD/24-065	22-Jan-2023	21-Apr-2024
Disposal of Special waste at Landfills Admission Ticket (Pond Sediment)	Admission Ticket Number: 17684	1-Jan-2024	31-Mar-2024
Revised Sediment Quality Report (SQR)	(7) in EP60/G1/12- 583V	4-Apr-2023	3-Apr-2024

# 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

ltem	Location	Brand	Model	Equipment	Serial No.
1	AM1	Cilcoto		SIBATA LD-5R Digital Dust	2Y6548,
2	AM2	Sibata	Model LD-5R	Indicator	2Y6549

## 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)
AM1	53	50-56	291	500
AM2	56	43-67	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 January 2024 (μg/ m <sup>3</sup> )
		Content	
AM1	ASR A09	205 454	56
AM2	ASR A11	205-451	67

 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**.

ltem	Brand	Model	Equipment	Serial No.
1	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-13548-E0
2	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-17638-E0
3	NTi Audio	XL2	NTi Audio XL2 Digital Sound Level Meter	A2A-13663-F0
4	RION	NC-74	RION NC-74 Acoustic Calibrator	34615222
5	SVANTEK	SV33B	SVANTEK SV33B Acoustic Calibrator	83042
6	RS PRO	RS-90	Anemometer	210722153

 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	60.3 - 63.2	When one	75
on normal weekdays	CM2	61.4 - 63.6	documented	75
	СМЗ	62.1 - 64.2	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 <sub>eq</sub> (30min) dB(A)	Maximum Construction Noise Level in January 2024 L <sub>eq</sub> (30min) dB(A)
CM1	NSR1	72	63.2
CM2	NSR2	74	63.6
CM3	NSR3	75	64.2

 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**.

Table 12	Water	Quality	Monitoring and	Sampling	Equipment
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Parameter	Equipment	Model	Range	Equipment Accuracy	Serial No.
Temperature Dissolved Oxygen Salinity pH Turbidity	YSI Water Quality Multipara meter Sonde	Tem: -5 to 50°C         DO: ±0.           DO: 0-50mg/L         20mg/L;           DO%: 0-500%         Sal: ±10           Sal: 0 to 70ppt         ppt (wh           pH: 0 to 14 pH units         p           Turb: 0- 4000NTU         Turb: ±3		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

## 4.3 Equipment Calibration

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

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

## 4.4 Monitoring Parameters

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

Table 13 Monitoring Parameters and Frequency

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

## 4.5 Monitoring Operation

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

## 4.6 Laboratory Measurement / Analysis

## Background

4.6.1 Acumen Laboratory and Testing Limited (HOKLAS Reg: No.241) has been appointed to conduct the laboratory measurement or analysis of water sample in this project.

Quality Assurance / Quality Control

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

For each batch of 20 samples:

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

## 4.7 Monitoring Locations

- 4.7.1 In accordance with the EM&A Manual, water quality monitoring should be carried out at 3 designated monitoring locations.
- 4.7.2 The coordinates of the monitoring location stated in the EM&A Manual is summarised in **Table 14** and the locations of the water quality monitoring stations shown in **Figure 4**.

Table 14 Coordinates of Water Quality Monitoring Locations

	Sampling Location	Easting	Northing
M1	Serve as the control station at upstream location of construction site (Flood Tide) / Serve as the impact station at downstream location of construction site (Ebb Tide)	821 086	836 656
M2	Serve as the impact station at downstream location of construction site (Flood Tide)/ Serve as the control station at upstream location of construction site (Ebb Tide)	820 996	836 246
М3	Serve as the impact station at downstream location of construction site (Flood Tide) / Serve as the control station at upstream location of construction site (Ebb Tide)	820 645	820 335

## 4.8 Monitoring Results

- 4.8.1 The schedule of water quality monitoring in reporting month is provided in **Appendix E**.
- 4.8.2 Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in **Appendix F**.
- 4.8.3 The weather and meteorological conditions during the monitoring are provided in **Appendix K**.
- 4.8.4 Number of Action/ Limit exceedance recorded in the reporting month at each impact stations is summarized in **Table 15**.

Sampling Location	Exceedance Level	DO		Turbidity		Suspended Solids		Total	
Location	Levei	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
N44	Action	0	0	0	0	0	0	0	0
M1	Limit	0	0	0	0	0	0	0	0
M2	Action	0	0	0	0	0	0	0	0
IVIZ	Limit	0	0	0	0	0	0	0	0
M3	Action	0	0	0	0	0	0	0	0
IVIS	Limit	0	0	0	0	0	0	0	0
<b>T</b> - 4 - 1	Action	0	0	0	0	0	0	(	)
Total	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

Three 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 1 December 2022 with immediate effect).

# 5 ECOLOGY MONITORING

## 5.1 Ardeid Night Roost Monitoring

## 5.1.1 Monitoring Requirement

With reference to the Pre-construction Ardeid Night Roost survey (January 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 7x 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 15 December 2023.

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 18:39, 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 (I	For Active Ard	leid 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 15 January 2024 and started around 16:59 (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, one individuals of Chinese Pond Heron was observed in pre-roost aggregate (PRA) around 17:14 at the mudflat east side ANR1 of the Project boundary while other individuals of Chinese Pond Heron *Ardeola bacchus* (22) and Grey Heron *Ardea cinerea* (1), Great Egret *Ardea alba* (6) and Little Egret *Egretta garzetta* (2) were concurrently noted at the mudflat northeast side ANR2 of the Project boundary (**Table 17**).

For the final night roost at around 17:47, one individual of Chinese Pond Heron *Ardeola bacchus* was observed at the roosting area ANR1 utilizing the understory layer of the roosting substrate *Sonneratia apetala* and *S. caseolaris*; while other individuals of Chinese Pond Heron *Ardeola bacchus* (30) and Grey Heron *Ardea cinerea* (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: 15 January 2024			Sunset Time: 17:59 Tidal Condition: Low Tide			
	Pre-roost Period			Final roost Period		
Time of Return:	<b>Chinese Pond Heron</b> <i>Ardeola bacchus</i> , Grey Heron <i>Ardea cinerea</i> , Great Egret <i>Ardea alba</i> and Little Egret <i>Egretta garzetta</i> (16:59)		Time of Return:	Chinese Pond Heron <i>Ardeola bacchus</i> and Grey Heron <i>Ardea cinerea</i> (17:47)		
Demonstration	Loca	ation	_	Loca	ation	
Parameters	ANR1	ANR2	Parameters	ANR1	ANR2	
Pre-roost Aggregation (Y/N):	Ν	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	1	22	Chinese Pond Heron Ardeola bacchus	1	30	
Grey Heron Ardea cinerea	-	1	Grey Heron Ardea cinerea	-	1	
Great Egret Ardea alba	-	6				
Little Egret Egretta garzetta	-	2				
Dreading Activity (V/All	ANR1		1	N		
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

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#### 5.1.3.2 Noise Monitoring

Noise monitoring activities were conducted on 15 January 2024 in concurrence with the construction phase monthly monitoring of the pre-identified active night roosts. Noise monitoring started at 17:47 and lasted for 30 minutes, until 18:17.

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

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

Frequency and Period	Location	Start Time	LAeq (30 min.)	Action Level	Limit Level
Monthly in concurrence with the construction phase monthly monitoring of the active night roosts	NMS1	17:47	60.2	65.5 dB(A) <sup>1</sup>	72.2 dB(A) <sup>2</sup>
	NMS2	17:47	61.2		

Notes:

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

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

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

<sup>2</sup>= 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 January 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* and Grey Heron *Ardea cinerea*.

#### 5.1.5.2 Noise Monitoring Results

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

## 5.2 Ecological Monitoring of Birds

#### 5.2.1 Monitoring Requirement

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



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 15 January 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 15 January 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 1217 avifauna individuals was recorded in the monitoring area during the January 2024 monitoring period, of which 867 individuals were recorded from the point count method and 350 individuals from the transect walk method. Relative to the January 2017 baseline data (point count method = 708; and transect walk = 347), increase in both point count and transect walk method were observed.

Details of these findings are summarized in Table 20.

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Abundance of all A	vifauna Species			
EIA Report ID	EM&A Manual ID	January-17	January-24	Remarks
Point Count Method	d			
P1	FLW1	9	62	+
P2	FLW2	27	41	+
P3	FLW3	37	41	+
P4	FLW4	0	44	+
P5	FLW5	0	193	+
P6	FLW6	105	33	-
P7	FLW7	45	64	+
P9	SP/NSW3	148	150	+
P10	SP/NSW2	142	21	-
P11	NSW1	117	144	+
P12	SP/NSW1	78	74	-
Т	otal	708	867	+
M	ean	64	79	+
Transect Walk Meth	nod			
Fung Lok Wai	FLW	292	103	-
Nam Sang Wai	NSW	52	51	-
YLIE-CW	YLIE-CW	3	196	+
Т	otal	347	350	+
M	ean	116	117	+

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 1217 avifauna individuals recorded in the monitoring area during the January 2024 monitoring period, 763 individuals (point count method = 574 individuals; transect walk method = 189 individuals) were of conservation importance. With reference to January 2017 data, (point count method = 528; and transect walk = 83), increase in both point count and transect walk method were observed. Details of these findings are summarized in **Table 21**.

EIA Report ID	EM&A Manual ID	January-17	January-24	Remarks
Point Count Method	ł			
P1	FLW1	8	27	+
P2	FLW2	12	9	-
P3	FLW3	34	13	-
P4	FLW4	0	13	+
P5	FLW5	0	167	+
P6	FLW6	66	20	-
P7	FLW7	33	22	-
P9	SP/NSW3	146	137	-
P10	SP/NSW2	76	10	-
P11	NSW1	86	94	+
P12	SP/NSW1	67	62	-
Тс	otal	528	574	+
M	ean	48	52	+
Fransect Walk Meth	od			
Fung Lok Wai	FLW	82	34	-
Nam Sang Wai	NSW	1	19	+
YLIE-CW	YLIE-CW	0	136	+
Т	otal	83	189	+
M	ean	28	63	+

Table 21 Abundance of Species of Conservation Importance

Notes:

+ increased abundance;

- decreased abundance

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

#### 5.2.3.2 Diversity (Species Richness<sup>1</sup> and Shannon Diversity Index<sup>2</sup>)

## 5.2.3.2.1 All Avifauna Species

A total of 62 avifauna species (species richness) were recorded during the January 2024 monitoring period, of which, 54 species were recorded by the point count method while 50 species were noted by the transect walk method. Relative to the baseline data (point count method = 47 species; transect walk method = 50 species), an increase in total species richness for point count method was noted while no change in total species richness was observed for transect walk method. In terms of Shannon diversity index (H') values, current result in point count method showed a significant increase (t-value = 4.47; t-crit = 1.96; p-value = 8.22E-06;  $\alpha$  = 0.05) relative to the baseline reference value. The current results in the transect walk method showed an insignificant decrease (t-value = 1.86; t-crit = 1.96; p-value = 0.064;  $\alpha$  = 0.05) from baseline reference value. Details of these findings are summarized in **Table 22, Appendix F.6.1**, and **Appendix F.6.2**.

<sup>1</sup> actual number of species

<sup>2</sup> 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	January-17	January-24	Remarks		
Point Count Method						
P1	FLW1	1.15	2.18	+		
P2	FLW2	1.48	1.93	+		
P3	FLW3	0.58	2.58	+		
P4	FLW4	**	2.21	+		
P5	FLW5	**	1.42	+		
P6	FLW6	1.13	1.65	+		
P7	FLW7	1.92	1.81	-		
P9	SP/NSW3	2.35	2.42	+		
P10	SP/NSW2	2.68	1.87	-		
P11	NSW1	1.31	1.13	-		
P12	SP/NSW1	2.36	2.40	+		
Over	all H'	2.82	3.12	+		
Species	Richness	47	54	+		
Transect Walk Meth	od					
Fung Lok Wai	FLW	3.2	2.71	-		
Nam Sang Wai	NSW	2.12	2.34	+		
YLIE-CW	YLIE-CW	0.64	2.51	+		
Over	all H'	3.31	3.15	-		
Species	Richness	50	50	=		

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 decline in species diversity of all avifauna species in the point count / transect walk method.

## 5.2.3.2.2 Avifauna Species of Conservation Importance

Of the 62 avifauna species identified during the January 2024 monitoring period, 27 species were of conservation importance (point count method = 25 species; transect walk method = 19 species). Meanwhile, relative to the baseline values in January 2017 (point count method = 22 species; transect walk method = 11 species), an increase in the number of species with conservation importance were recorded from both point count and transect walk method. In terms of Shannon diversity index (H'), a statistically significant increase in point count method (t-value = 3.36; t-crit = 1.96; p-value = 8.13E-14;  $\alpha = 0.05$ ) and an insignificant increase in transect walk method (t-value = 1.92; t-crit = 1.97; p-value = 0.056;  $\alpha = 0.05$ ) were noted 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	January-17	January-24	Remarks	
Point Count Method					
P1	FLW1	0.9	1.78	+	
P2	FLW2	0.98	1.52	+	
P3	FLW3	0.22	1.78	+	
P4	FLW4	**	1.71	+	
P5	FLW5	**	0.85	+	
P6	FLW6	0.35	1.10	+	
P7	FLW7	1.56	1.10	-	
P9	SP/NSW3	2.3	2.21	-	
P10	SP/NSW2	2.24	1.05	-	
P11	NSW1	0.35	0.16	-	
P12	SP/NSW1	2.07	2.02	-	
Over	all H'	2.24	2.48	+	
Species	Richness	22	25	+	
Transect Walk Meth	od				
Fung Lok Wai	FLW	1.74	1.27	+	
Nam Sang Wai	NSW	0	1.28	+	
YLIE-CW	YLIE-CW	**	1.62	+	
Over	all H'	1.79	2.05	+	
Species	Richness	11	19	+	

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 decline in species diversity of avifauna species with conservation importance in the point count / 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 Low to Moderate (L-M) abundance. In terms of species richness, different wetland habitats were generally observed with Very High (VH) number of species (**Table 24**).



#### Table 24 Wetland habitat utilization of all avifauna species

Wetland Habitats	Area Description	Abundance <sup>1</sup>	Species Richness <sup>2</sup>
	Confluence of Shan Pui River and Kam Tin River	L-M	Н
Modified Watercourse	Shan Pui River adjacent to Project site	L	H-VH
	Upper course of Shan Pui River along YLIE	L-M	VH
	Active Ponds adjacent to Project site in Fung Lok Wai	L	H-VH
Danda	Active Ponds North to Nullah 2 in Fung Lok Wai	L-M	VH
Ponds	Inactive Ponds in Fung Lok Wai	М	VH
	Active and Inactive Ponds in Nam Sang Wai	L-M	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 Low to Moderate (L-M) abundance of avifauna species of conservation importance; and were generally utilized by Low to Moderate (L-M) number of species (**Table 25**).

Wetland Habitats	Area Description	Abundance <sup>1</sup>	Species Richness <sup>2</sup>
	Confluence of Shan Pui River and Kam Tin River	L-M	М
Modified Watercourse	Shan Pui River adjacent to Project site	VL-L	L
	Upper course of Shan Pui River along YLIE	L-M	L-M
	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-L	L-M
Ponds	Inactive Ponds in Fung Lok Wai	L-M	L-M
	Active and Inactive Ponds in Nam Sang Wai	L	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 15 January 2024 (daytime) from each of the point count locations during the ecological bird monitoring are shown in **Table 26**.

Frequency and Period	I a satism	Day time (15/01/2024)		
	Location	Start Time	LAeq (30 min) dB(A)	
	FLW1/ P1	10:13	52.6	
	FLW2/P2	10:16	52.9	
	FLW3/ P3	10:57	53.2	
Monthly in	FLW4/P4	08:17	51.9	
concurrence	FLW5/ P5	08:22	54.2	
with the ecological	FLW6/ P6	09:07	52.9	
monitoring of birds	FLW7/ P7	08:58	53.2	
	SP/NSW3/ P9	12:35	53.1	
	SP/NSW2/ P10	12:31	54.3	
	NSW1/ P11	11:53	54.5	
	SP/NSW1/P12	11:49	55.6	

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

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

# 6 LANDSCAPE AND VISUAL

# 6.1 Audit Requirements

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

# 6.2 **Results and Observations**

To monitor and audit the implementation of landscape and visual mitigation measures, five weekly landscape and visual site audits were carried out on 3, 9, 17, 24 and 31 January 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, five site inspections were carried out on 3, 9, 17, 24 and 31 January 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 exceedances was recorded for the ecological monitoring of birds on 15 January 2024 (daytime) and 15 January 2024 (night-time).
- 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**.

Table 28	Status of	submissions	required	under the EP
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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	Certified by ET Leader and verified by IEC on 31 May 2023 and submitted to EPD on 19 Jun 2023, to be finalised and made available for public inspection via the dedicated website.
Condition 2.15	Landscape and Visual Mitigation Plan	Submitted to EPD with ET certification and IEC verification, to be finalised and made available for public inspection via the dedicated website.
Condition 3.3	Baseline Monitoring Report	Submitted to EPD with ET certification and IEC verification, finalised and available for public inspection via the dedicated website.
Condition 3.4	Monthly EM&A Report (from April 2021 to December 2023)	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 December 2023)	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 December 2023	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

- Ground investigation at SDB
- Demolition at SDB
- ABWF work, E&M works and fixing GRC panel at CLP Substation
- ABWF and E&M works at PST
- E&M work 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
- Pumping test at Sludge Digester no. 1-3
- E&M work at Biogas Holder no. 1
- Construction of temp. haul road in front of central Control Room

# **11.2** Key Issues for the Coming Month

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

# **11.3** Monitoring Schedules for the next three months

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

# 12 CONCLUSION AND RECOMMENDATION

# 12.1 Conclusions

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

• No specific observation was identified in the reporting month.

## Construction Noise Impact

• The Contractor is reminded to maintain and reinstate the silentup at northern and western site boundary.

## Water Quality Impact

• No specific observation was identified in the reporting month.



Chemical Waste and Construction Waste Management

No specific observation was identified in the reporting month.

Land Contamination

• No specific observation was identified in the reporting month.

Ecological Impact

• No specific observation was identified in the reporting month.

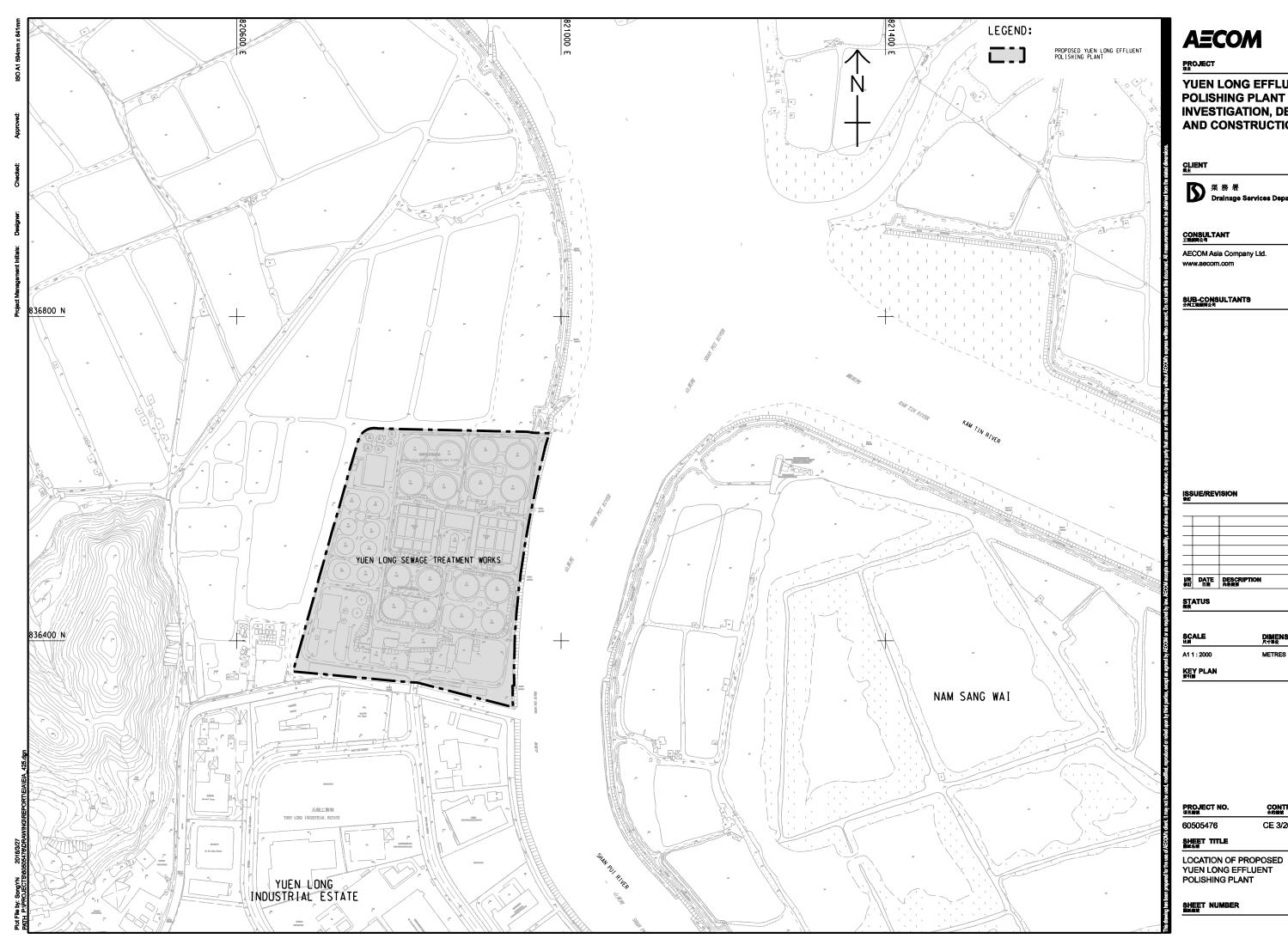
Landscape and Visual Impact

- No specific observation was identified in the reporting month. <u>Hazard to Life</u>
- No specific observation was identified in the reporting month.

Permit/ Licenses

• No specific observation was identified in the reporting month.

# 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 #±



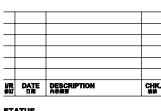
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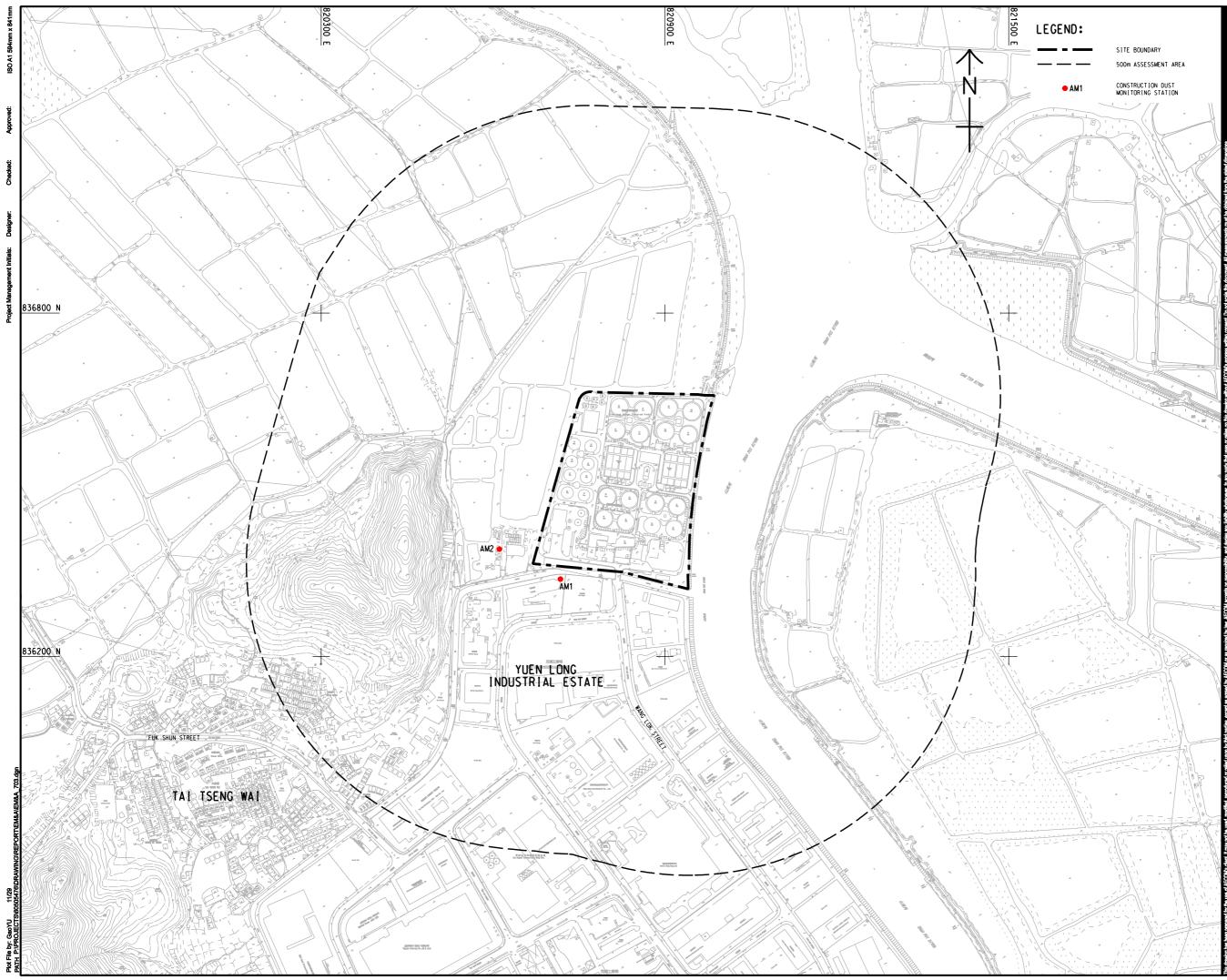
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# Figure 2 Location of Construction Dust Monitoring Stations





# PROJECT

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

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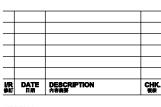
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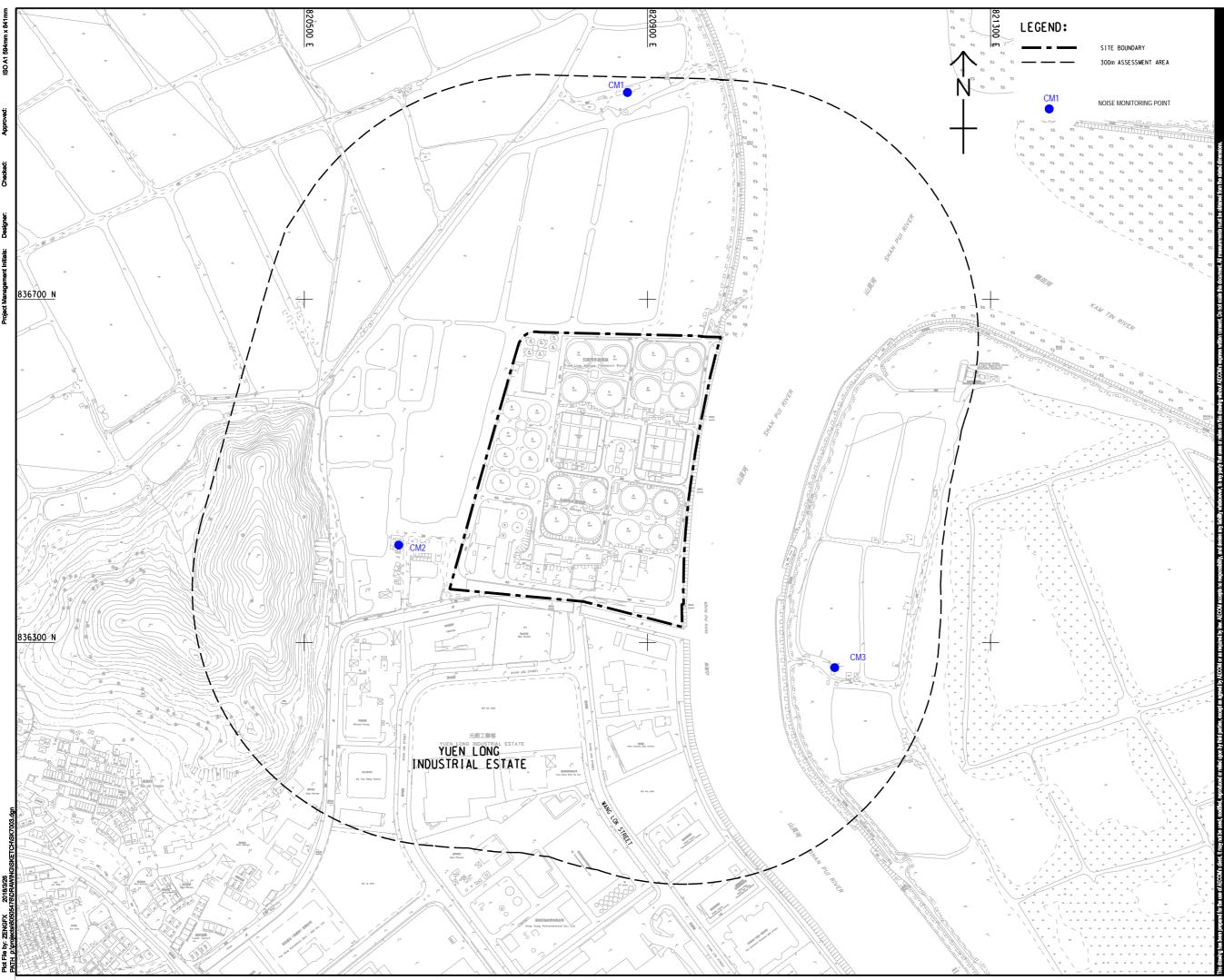
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# Figure 3 Noise Monitoring Locations

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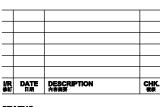
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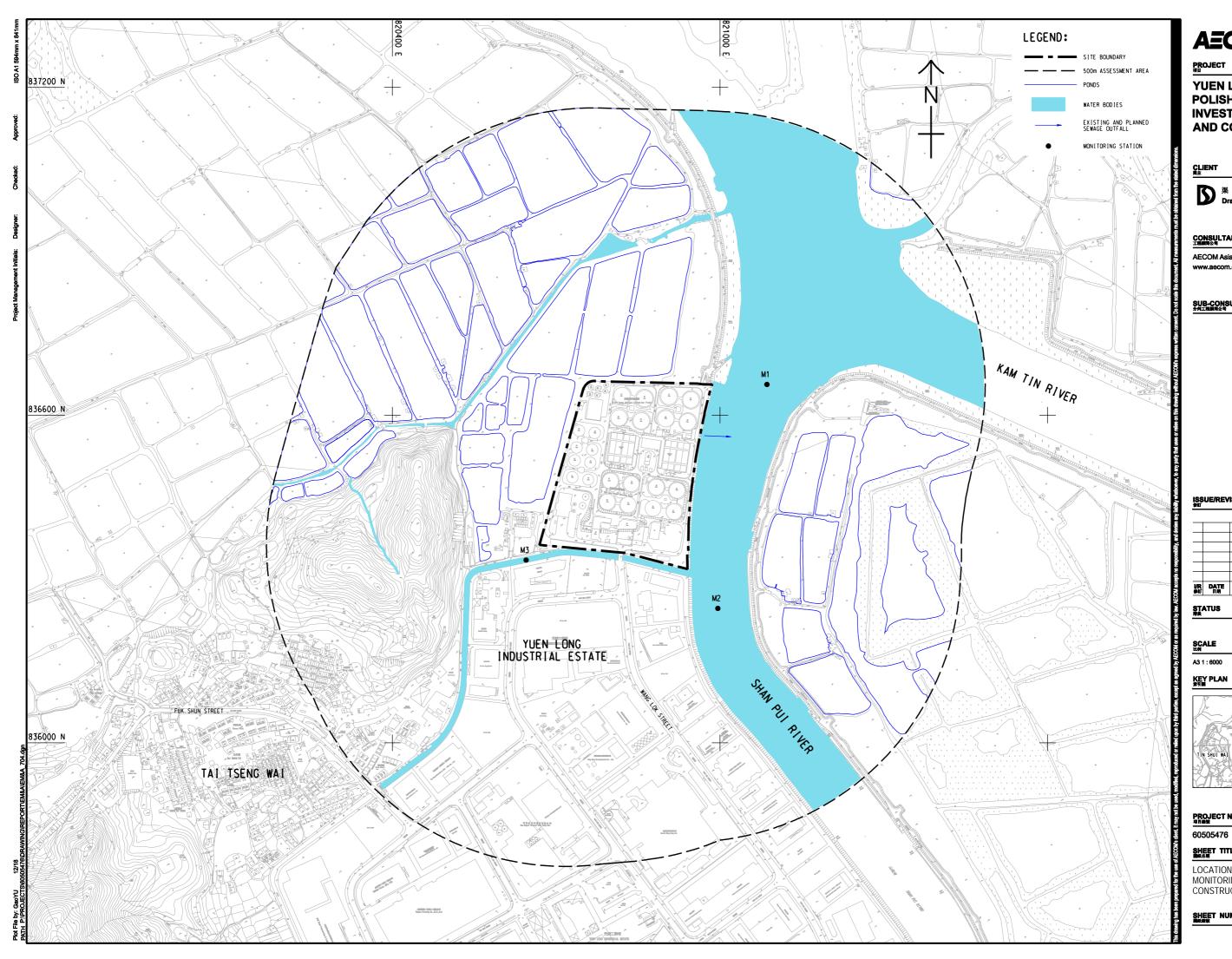
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<b>用</b> 表	
SCALE	DIMENSION U 天寸単位
A1 1 : 2000	METRES

CONTRACT NO. CE 3/2015 (DS)

# Figure 4 Water Quality Monitoring Locations

aurecon





## PROJECT

YUEN LONG EFFLUENT POLISHING PLANT -INVESTIGATION, DESIGN AND CONSTRUCTION

## CLIENT



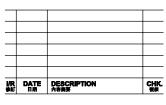
集務署 Drainage Services Dep

## 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



### STATUS

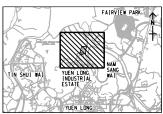
# SCALE 比例

### 

A3 1 : 6000

METRES

KEY PLAN A31:180000



# PROJECT NO.

CONTRACT NO. CE 3/2015 (DS)

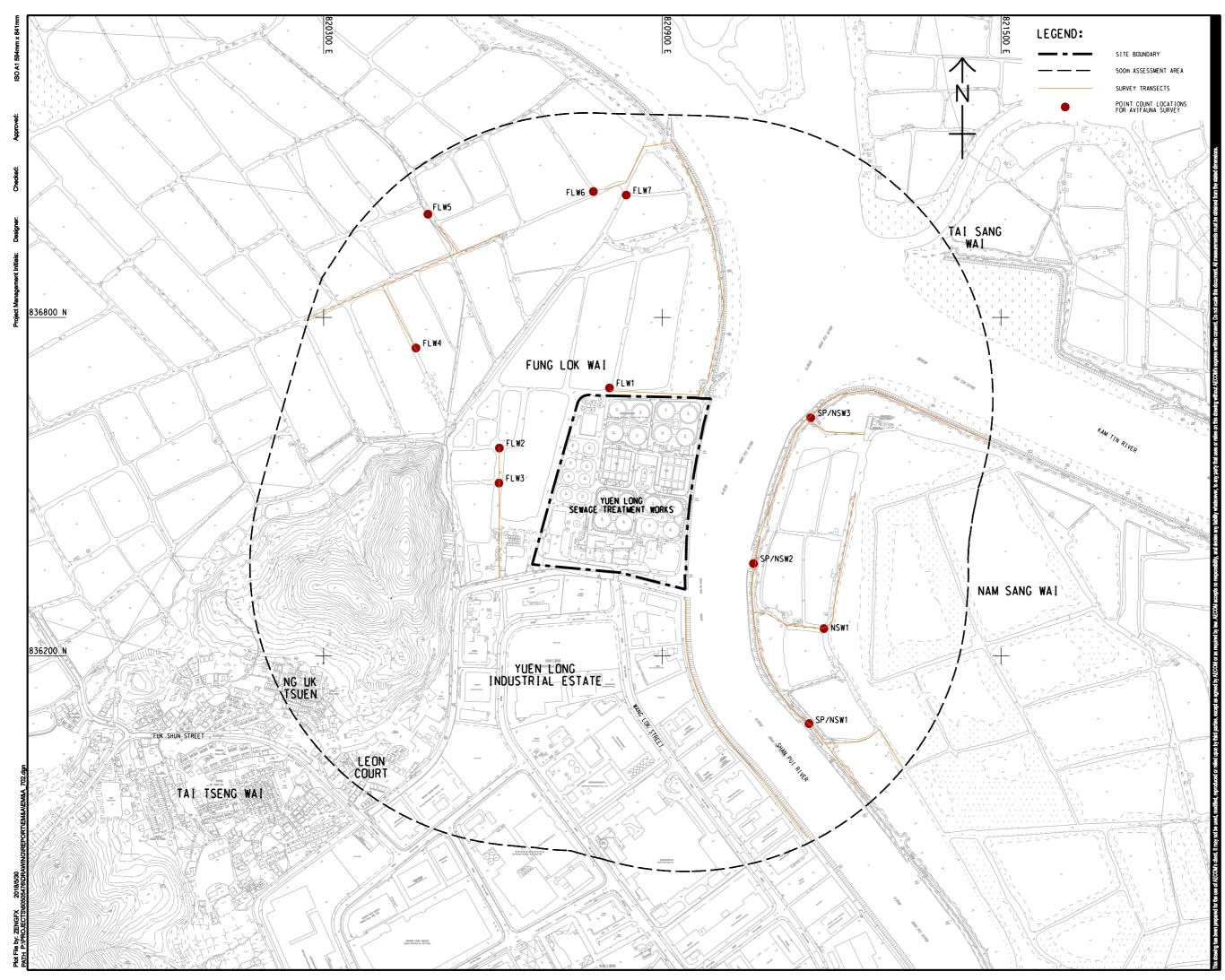
SHEET TITLE

LOCATIONS OF WATER QUALITY MONITORING STATIONS FOR CONSTRUCTION PHASE

SHEET NUMBER

# Figure 5 Ecology Monitoring Locations





# ΑΞϹΟΜ

## PROJECT

YUEN LONG EFFLUENT POLISHING PLANT -INVESTIGATION, DESIGN AND CONSTRUCTION

## CLIENT

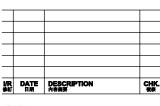


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# ISSUE/REVISION



I/R 創訂	DATE 日期	DESCRIPTION 內非損要	CHK. 複模
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	DATE 日期	DESCRIPTION 內容滅夏	CHK.
御町	日期	內容損要	復获

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/R 単訂	DATE 日期	DESCRIPTION 內容視要	CHK. 被核
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S		

、TE 期	DESCRIPTION 內容機要	(日本) この
8		

SCALE 比例

### **DIMENSION UNIT**

A1 1 : 3000

METRES

KEY PLAN #헤르

## PROJECT NO. CONTRACT NO.

60505476

CE 3/2015 (DS)

SHEET TITLE

ECOLOGICAL MONITORING LOCATIONS

SHEET NUMBER

Appendix A Construction Programme

	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	December           38           03         10         17         24	January           39           31         07         14         21	February           40           28         04         11         18         2	March 41 5 03 10 17 2
Effluent	Polishing Plant - Main Works Stage 1 - Detailed Works Programme Part 1	DPv3	3_240117	' <b>r1</b>					
ess Dates									
VA2 23	WorkArea WA2 (sd) (new site possession) validity for 12 months and subject to renewal Portion 3 (sd+1218d)	757 0	05-Mar-21 A 11-Mar-24*	22-Feb-25*	0				◆ Portion 3 (sd+1218d)
<b>tract Key</b> D10	Dates KD10 - Completion of Civil & Structural works of roof floor of sludge thickening bldg (RevKD10=6Feb24)	0		22-Feb-24*	0			♦ KD10-0	Completion of Civil & Structural works of roof floor
<mark>ironmenta</mark> N-2165	Constraints PS 1.105A Noise Mitg ation Me as ures 20/23-20/24	152	01-Nov-23 A	31-Mar-24	0				
6-2175	Egrets Breeding Season 2024	184	01-Nov-23 A 01-Mar-24*	31-Aug-24	0				
ned Con					_				
21	Implementation of Compensation Event (CE) No 321 - Amber Rains brm Warning and Inclement Weather in July 2023	0		28-Dec-23 A		♦ Im	plementation of Compensation Event (CE) No.321 - An	ber Rainstorm Warning and Inclement Weather in J	uly 2023
minary a etting	nd Preparation Works				_				
-270	Subletting for ELS works for W, PST, SDB, STB, SD, MBB, TTB, underpass and open cutfor admin. bldg	312	12-Oct-21 A	30-Jan-24	-228			Subletting for ELS works for IW, PST, SDB, STB, SE	
-380 -280	Subletting for Sheet piling works for remaining areas Subletting for RC works for IW, PST, SDB, STB, SD, Biogas holder, underpass and admin. bldg	333 256	12-Oct-21 A 29-Nov-21 A	12-Mar-24 12-Feb-24	152 -259			Subletting for RC works for	W, PST, SDB, STB, SD, Biogas holder, underpa
-350 -360	Subletting for Wate proofing membrane and protecton board Subletting for Rebar fixing	300 86	29-Nov-21 A 29-Nov-21 A	04-Feb-24 01-Mar-24	-91 -259			Subletting for Waterproofing membrane a	and protection board Subletting for Rebar fixing
-310	Subletting for Utilities Corridor ELS	60	08-Aug-22 A	09-Feb-24	-98			Subletting for Utilities Corridor El	
-290 -300	Subletting for ABW F works for IW, PST, SDB, STB, MBR, TTB and admin. bldg Subletting for RC works for MBR and TTB	60 60	01-Aug-23 A 07-Mar-24	29-Feb-24 05-May-24	-208 -110				Subletting for ABW F works for IW, PST, SDB
340 <b>an Subm</b> i	Subletting for Drainage, Sewage & waterworks	90	07-Mar-24	04-Jun-24	-110				
porary Wo									
n <mark>stream Bic</mark> /D-250	Reactor System ELS - Obtain Approval	7	23-Aug-23 A	27-Jan-24	96		ELS	Obtain Approval	
lge Thicken									
i <b>e-stage d</b> i ND-210	sign ELS - Obtain Approval	7	10-Dec-22 A	26-Jan-24	-51		ELS	Obtain Approval	
<b>lge Digeste</b> /D-370	1-3 & Utilities Corridor ELS-Obtain Approval	7	21-Dec-22 A	29-Jan-24	-180			ELS-Obtain Approval	
	ing and Underpass ELS - Prepare & Submission for PMs review	45	30-Jan-24	14-Mar-24	94				ELS-Prepare & S
/D-270	ELS - Review by PMs & ICE review (28 d + 7d)	35	15-Mar-24	18-Apr-24	94				
lification of E /D-700	xisting Inspection Chamber & Inlet Effluent Pipes from NSWSPS ELS - Prepare & Submission for PMs review	45	26-Oct-22 A	07-Jan-24	-187		ELS - Prepare & Submission for PM's re	vlew	
/D-710 /D-720	ELS - Review by PMs & ICE review (28 d + 7 d) ELS - Resubmission for PMs & ICE review (7d prep & resub. + 7d ICE)	35 14	08-Jan-24 12-Feb-24	11-Feb-24 25-Feb-24	-187 -187			ELS-Reviewby PMs & ICE	review (28 d + 7 d) S -Resubmission for PM's & ICE review (7 d pre
/D-730	ELS - Obtain Approval	7	26-Feb-24	03-Mar-24	-187				ELS-ObtainApproval
<b>porary pipe</b> /D-750	work between PST Stage 1 and A-Tank Inlet [Temporary pumping system] Hydraulic design - Prep(45d), Sub & Review(30d), Comment& Resub (14d) & A pproval (7d)	96	14-Sep-23 A	14-Jan-24	-144		Hydraulic design - Prep(45	d), Sub.&Review(30d), Comment&Resub (14d) & A	pptoval (7 d)
<b>porary pun</b> /D-780	ping and pipeworks between exsiting Detroitor and PST Stage 1 [Temp. pumping system] Hydraulic design - Prep(45d), Sub.&Review(21d), Comment&Resub (14d) & Approval (7d)	96	01-Aug-23 A	14-Jan-24	-189		Hydraulic design - Prep(45	l), Sub.&Review(21d), Comment&Resub (14d) & A	potoval (7d)
porary Wo	king Platform at ELS		orrag zorr	11001121	100		······································		
mporary W ND-920	orking Platform at AGS ELS Temp. Working Platform - AGS ELS - Obtain Approval	7	08-Dec-23 A	07-Jan-24	-224		Temp. Working Platform - AGS ELS - Ob	tain Approval	
mporary W ND-960	orking Platform at TTS ELS Temp. Working Platform - TTS ELS - Obtain Approval	7	12-Dec-23 A	07-Jan-24	-217		Temp. Working Platform - TTS ELS - Ob	ain Approval	
nporary dive	rsion scheme for Early commissioning of SD, BH1, H2S and STB						, , , , , , , , , , , , , , , , , , ,		
VD-970 VD-1010	Temp. pipe. for BH1 Early CommPrep(90d),Sub.&Review(30d) Comment&Resub(14d)&Approval(7d) Temp. pipe. for SD1-2 Early CommPrep(90d),Sub.&Review(30d) Comment&Resub(14d)&Approval(7d)	141 141	30-Jun-23A 01-Jan-24	05-Mar-24 20-May-24	-74 -60				Temp. pipe. for BH1 Early Comm
tractor 's P	ermanent Works Design (include ATAL)								
ckage 3A - P-520	Plant Service Water E&MAP Report for Plant Service Water - Resubmission for further review	45	20-Dec-21 A	30-Jan-24	-10			E&MAP Report for Plant Service Water - Resubm	ission forfutherreview
P-530	E&MAP Report for Plant Service Water - Obtain Approval	43	31-Jan-24	06-Feb-24	-10			E&MAP Reportfor PlantService Wat	<b>.</b>
<b>ckage 23A</b> P-970	- Security, Public Address and Communication System SPC - Resubmission for further review	45	12-Oct-23 A	07-Feb-24	-102			SPC - Resubmission for further revi	ew
P-980	SPC - Obtain Approval	13	08-Feb-24	20-Feb-24	-102			SPC - Obtai	nApproval
ckage 2 - 1	ertiary Treatment System								
DA-170 DA-150	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-Jan-24 17-Feb-24	-111 -133		Civil Req. f	prTTS (Foundation design) - Prepare(27d), Sub. & F Foundation for T	Review.(45d),Comment & Resub.(14d), GEO(28 FS-Prepare (90d), Sub. & Review.(45d) ,Comm
DA-180 DA-200	Civil Req. for TTS (Superstruct design) - Prepare (147d), Sub & Review(45d), Comment& Resub (14d) & Approval (7 Mechanical for TTS - Prepare (60d), Sub & Review(45d), Comment& Resub (14d) & Approval (7d)	213 213	11-Oct-21 A 31-Dec-21 A	23-Jan-24 24-Jan-24	38 152			or TTS (Superstruct.design) - Prepare (147d), Sub. & all for TTS - Prepare (60d), Sub. & Review(45d), Co	
DA-210	Electrical& Control for TTS - Prepare (60d), Sub. & Review(45d), Comment& Resub.(14d) & Approval (7d)	213	31-Dec-21 A	24-Jan-24	152	· · · · · · · · · · · · · · · · · · ·		& Control for TTS - Prepare (60d), Sub. & Review(45d), Co & Control for TTS - Prepare (60d), Sub. & Review(45	
DA-140 DA-160	Architectural for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d) Civil & Structural for TTS - Prepare (120d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	126 177	17-Nov-22 A 17-Nov-22 A	24-Apr-24 23-Apr-24	-44 -202				
DA-220 ckage 3 - I	Building Services (BS) for TTS - Prepare (60d), Sub. & Review (45d), Comment & Resub. (14d) & Approval (7d) Iainstream Bio-Reactor System	199	30-Oct-23 A	25-May-24	30				
DA-260	Civil Req. for MBS-AGS (Foundation design) - Prepare (60d), Sub. & Review (45d), Comment & Resub (14d) & Approv	126	09-Jun-21 A	23-Jan-24	-41		Civil Req. f	MBS-AGS (Foundation design) - Prepare (60d), S	
DA-280 DA-290	P&ID for MBS (60d), Sub. & Review(45d) ,Comment& Resub. (14d) & Approval (7d) Mechanical for MBS - Prepare (60d), Sub. & Review(45d) Comment& Resub. (14d) & Approval (7d)	126 126	08-Oct-21 A 08-Oct-21 A	11-Feb-24 17-Feb-24	187 187				Review.(45d) ,Comment& Resub.(14d) & Appro BS - Prepare (60d), Sub. & Review.(45d) ,Comn
DA-300 DA-270	Electrical& Control for MBS - Prepare (60d), Sub & Review (45d), Comment&Resub (14d) & Approval (7d) Civil Reg. for MBS-AGS (Superstruct design) - Prepare (60d), Sub & Review (45d), Comment & Resub (14d) & Approv	405 126	08-Oct-21 A 01-Mar-22 A	11-Feb-24 23-Jan-24	193 -41		Civil Rea	Electrical& Control for MBS - MBS-AGS (Superstruct.design) - Prepare (60d), S	Ptepare (60d), Sub. & Review (45d), Comment Sub. & Review (45d), Comment & Resub (14d) &
DA-240	Foundation for MBS - Prepare (97d), Sub. & Review (45d), Comment & Resub. (14d), GEO (28d) & Approval (7d)	230	18-Mar-22 A	09-Apr-24	-110			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
DA-250 DA-1530	Civil & Structural for MBS - Prepare (60d), Sub. & Review (45d) Comment & Resub. (14d) & Approval (7d) VCAB for AGS&TTS - Prepare (30d), Sub. & Review (30d)	170 204	20-Jan-23A 16-Jun-23A	28-Apr-24 22-Apr-24	-41 93				
DA-310 ckage 5A -	Building Services (BS) for MBS - Prepare (60d), Sub. & Review.(45d), Comment & Resub.(14d) & Approval (7d) Master Water Meter Room	142	01-Jan-24	21-May-24	93				
DA-390 DA-400	P&ID for MWMC - MBS (60d), Sub. & Review (45d) , Comment & Resub (14d) & Approval (7d) Mechanical for MWMC - Prepare (60d), Sub. & Review (45d), Comment & Resub (14d) & Approval (7d)	64 220	26-Jun-23 A 30-Oct-23 A	06-Jul-24 06-Jul-24	72 847			······	····
DA-400 DA-410	Electrical& Control for MWMC - Prepare (600), Sub. & Review(453), Comment& Resub (140)& Approval (70) Electrical& Control for MWMC - Prepare (600), Sub. & Review(453), Comment& Resub (140)& Approval (70)	220	30-Oct-23 A	06-Jul-24 06-Jul-24	847			· · · · · · · · · · · · · · · · · · ·	
ckage 5B · DA-1050	Plant Service Water (PSW) Civil Requirement Drawings - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	12-Jun-21 A	17-Mar-24	11				Civil Require
DA-1040	Piping & Instrumentation Diagram (P&ID) - Prep(30d), Sub & Review (28d), Comment & Resub (14d) & Approval (7d)	220	26-Jun-23 A	06-Jul-24	-13				
DA-1060 DA-1070	Electrical & Control for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d) Mechanical for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	188 188	01-Jan-24 01-Jan-24	06-Jul-24 06-Jul-24	-13 -13				
ckage 6 - S	ludge Thickening Chemical and Dosing System								
Pa	Remaining Level of Ef		Cont	ract		2019/10 - YLEPP	Main Worke fo	r Stage 1	Project ID : DWPr33_2301
	Actual Work							•	Layout : DC201910 MPR3
	Remaining Work		Μ	onthl	v Pi	ogress Report N	lo. 38- 3MRP (D	ec 23)	Page 1 of 9
	中國中鐵聯營體 Critical Remaining Work				· · ·				
AUL I.	♦ ♦ Milestone								

	31	42 07   14	21		28 05		43 12	19	26	44
ge	hickening bldg (	RevKD10=6Feb								
				2004						
	PS 1.105A No	ise Mitigation Mea	asures2023-	2024						
ks	or remaining are	eas								
adı	or remaining are nin. bldg									
	TTB and -d-									
۳CH	R,TTB and admi	n. biug			Subl	etting for	RC works	for MBR and	ΠВ	
										Sublet
ion	for PMs review									
			ELS-Revie	wbyPN	's & ICE review	(28 d + 7	d)			
b. +	7d ICE)									
d),	Sub.&Review(30	0d)Comment&R	esub(14d)&A	pproval	(7d)	·····				
								Temp.pipe	e. for SD	1-2 Early Comr
rov	al (7d)									
sui I)	o.(14a)& Appro	val (7d), GEO (28	u)							
			A	rchitect	ural for TTS - Pre	epare (60	d), Sub. &	Review.(45d)	,Comm	ent& Resub.(14
			Civ	/il & Stru	ctural for TTS - F	Prepare (*	120d), Sub	. & Review.(4	5d),Cor	nment & Resub Services (BS) for
								D	anan Iy	
al (	7d)									
	ıb.(14d)& Appro									
b.(1 al (	4d) & Approval 7d)	(7d)								
+		Foundation for	MBS - Prepa	re (97d)	Sub. & Review	(45d),Co	om ment&	Resub.(14d),	GEO (2	3d)& Approval (
			VCA		vil & Structural f S& TTS - Prepa				eview.(4	5d),Commenta
						·····			Service	s (BS) for MBS
rav	ings - Prep(60d	), Sub.&Review(4	5d), Comme	nt&Resi	ab (14d) & Appr	oval (7d)				
			N 4-	nthi	Drogram		nort	31/100		
		D-4		n iu ii)	Progres				Δ	proved
IR	Р	Dat			Revisio	11		ecked	Ap	proved
		31-Dec-2	23	Rev.	U					

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	De cember 38	January 39	Fe	bruary 40	March 41
DDA 4400				00.14 04	070	03 10 17 24	31 07 14	21 28 04 1	1 18 25	03 10 17 24
DDA-1120 DDA-430	P&ID for STCDS - Prepare (60d), Sub. & Review (45 d), Comment & Resub. (14 d) & Approval (7d) Found for STCS, Waste GasBurn er & Guard Hse-Prepare (60 d), Sub & Review (45d), Comment & Resub. (14d), GEO (28	335 96	14-Aug-21 A 09-Nov-21 A	28-Mar-24 29-Apr-24	270 619			·····		
DDA-440	Civil & Struct for STCS, WGB & Guard Hse - Prepare (60d), Sub. & Review (45d) , Comment & Resub (14d) & Approva	250	09-Nov-21 A	29-Apr-24	813					
DDA-440B	Civil Req. for STCDS - Prepare (60d), Sub. & Review (45d), Comment & Resub. (14d) & Approval (7d)	300	15-Nov-21 A	28-Feb-24	299				Civil	Req. for STCDS - Prepare (60d), Sub. & Review.(45d)
DDA-1130	Mechanical for STCDS - Prepare (60d), Sub. & Review(45d), Comment& Resub (14d) & Approval (7d)	340	16-Nov-21 A	29-Apr-24	619					eview.(45d),Comment & Resub.(14d) & Approval (7d
DDA-1140 DDA-1520	Electrical & Control for STCDS - Prepare (60d), Sub. & Review (45d), Comment & Resub.(14d) & Approval (7d) Mechanical Ventla ton and Air conditional System Design for Sludge Thickening Building (STB)	315 320	30-Nov-21 A 16-Jun-22 A	31-Jan-24 29-Apr-24	619 282	<u>.</u>		Electrical & Control for	STCDS - Prepare (600), Sub. & R	eview.(45d),Comment & Resub.(14d)& Approval (70
DDA-1520	Plumbing and Drainage System Design for Sludge Thickening Building (STB)	320	07-Jul-22A	29-Apr-24	282					
DDA-1500	Fire Services Design for Sludge Thickening Building (STB)	320	08-Jul-22A	29-Apr-24	282	1				
DDA-1150	Building Services for STCDS - Prepare (60d), Sub. & Review (45d), Comment & Resub (14d) & Approval (7d)	126	24-Oct-22 A	29-Apr-24	619					
Package 7 - C DDA-480	LP Substation and 11kV Switchgear House UPS System for CLPSub.&11kV Switchgear Hse - Prepare (102d), Sub. & Review (45d), Comment & Resub. (14d)&Ap	168	03-Jun-21A	16-Jan-24	-59			optom for CL PSub 8111// Switchgoor Hoo	Prepare (102d) Sub & Review	45d),Comment& Resub.(14d)&Approval (7d)
Package 9 - In		100	03-Juli-21A	10-Jd11-24	-09		0133	i i i i i i i i i i i i i i i i i i i	in lepale (1020), Sub. & Ineview.	
DDA-1190	Mechanical for InletWork - Prepare (28d), Sub. & Review(28d), Comment& Resub.(14d) & Approval (7d)	120	09-Aug-21 A	30-Jan-24	-109			Mechanical for Inlet Wor	κ - Prepare (28d), Sub. & Review/	28d) ,Comment & Resub.(14d) & Approval (7d)
DDA-1200	Electrical & Control for Inlet Work - Prepare (28d), Sub. & Review.(28d), Comment & Resub.(14d) & Approval (7d)	120	30-Oct-21 A	30-Jan-24	-127					eview.(28d),Comment & Resub.(14d) & Approval (7d
DDA-1210	Building Services for InletWork - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	76	30-Mar-22 A	30-Jan-24	-127			Building Services for Inle	tWork - Prepare (28d), Sub. & Re	view.(28d),Comment&Resub.(14d)&Approval (7d)
Package 10 - I DDA-1250	Primary Sedimentation Tank (PST) Electrical & Control for PST - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	48	31-Aug-21 A	30-Jan-24	-147	<u> </u>		Electrical & Control for P	ST-Prenare (28d) Sub & Revie	v(28d) ,Comment& Resub.(14d) & Approval (7d)
DDA-1260	Building Services for PST - Prepare (28d), Sub. & Review (28d), Comment & Resub (14d) & Approval (7d)	90	01-Oct-21 A	30-Jan-24	-147				<b>-</b>	(28d),Comment& Resub.(14d)& Approval (7d)
	Control and Monitoring System									
DDA-580	Power Quality & Energy Management System (PQEMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) & A	130	02-Oct-21 A	29-Feb-24	27					wer Quality & Energy Management System (PQEMS)
DDA-550	Supervisory Control&Data Application (SCADA) System - Prep (28d), Sub & Review (28d), Commen & Re sub (14d) & A	238	24-Apr-23A	29-Feb-24	27					pervisory Control&DataApplication (SCADA) System
DDA-1270	Gas Detection System - Prep (28d), Sub & Review (28d), Comment& Resub (14d) & Approval (7d)	91	08-May-23 A	29-Feb-24 31-Dec-24	27 27				Ga	s Detection System - Prep(28d), Sub&Review(28d), C
DDA-560 DDA-570	Computerised Mainatenance Mangement System (CMMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) Information and Document mangement System (IDMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) &Ag	366 366	01-Jan-24 01-Jan-24	31-Dec-24 31-Dec-24	27				·····	
DDA-1280	Data Collection, Management, Analysis & Model System - Prep(28d ), Sub & Review (28d), Comment & Resub (14d) & A	366	01-Jan-24	31-Dec-24	27				·	
	Chemical System for STB									
DDA-650	Chemical System for Sludge Thickening Building (STB) - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Ar	150	01-Jan-24	29-May-24	208					· · · · · · · · · · · · · · · · · · ·
	Pipework System									
DDA-660	Pipeworks System for Sludge Thickening Building (STB) - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & A	126	01-Jan-24	05-May-24	265					
DDA-1030	Pipeworks System for Sludge Digesters - Prep(60d),Sub & Review(45d),Comment& Resub (14d) & Approval (7d)	126	01-Jan-24	05-May-24	-26	l				
Package 14 - 3 DDA-1320	Sludge Anaerobic Digestion System (SDT) Electrical & Control for SDT & UC/PP - Prepare (55d), Sub. & Review (45d), Comment & Resub.(14d) & Approval (7d)	460	02-Jul-21A	30-Apr-24	-21					
DDA-1340	Civil Req. Drawing for UC/PP - Prepare (47d), Sub & Review(45d), Comment& Resub.(14d) & Approval (7d)	580	10-Jul-21A	23-Feb-24	-21				Civil Req. Dra	wing for UC/PP - Prepare (47d), Sub. & Review.(45d),
DDA-1330	Building Services for SDT & UC/PP - Prepare (56d), Sub. & Review (45d), Comment & Resub (14d) & Approval (7d)	181	02-May-23 A	30-Apr-24	-21					
	Biogas H2S Removal, Storage and Delivery System									
DDA-1390	Building Services for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Appr	137	31-May-23 A	29-Feb-24	-109					ilding Services for Biogas H2S Removal System - Pre
DDA-1380	Electrical & Control for Biogas H2S Removal System - Prepare (28d), Sub& Review (28d), Comment& Resub (14d) & App	105	25-Sep-23 A	29-Feb-24	-109				Ele	ctrical & Control for Biogas H2S Removal System - Pr
Package 16 - I DDA-1420	Deodorization Unit System Mechanical for DOU No.1 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	78	04-Mar-22 A	24-Jan-24	-50	<u>.</u>		Mechanical for DOU No. 1 - Prepar	e(28d)Sub& Review(28d)Comr	ent&Resub(14d)&Approval (7d)
DDA-1420	Mechanical for DOU No.3 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	300	17-Jul-22A	31-Jan-24	362					(28d),Comment&Resub(14d)&Approval (7d)
DDA-1430	Mechanical for DOU No.2A and 2B-Pre pare(28d)Sub& Review(28d),Commen&Resub(14d)&Approval (7d)	122	13-Oct-23 A	31-Mar-24	302					
Package 17 -	Sludge Dewatering Building (SDB)					}		]]		
DDA-910	Roof Rainwater Collection Systemfor (SDB) - Prep (60d), Sub & Review (45d), Comment& Resub (21d) & Approva (7d)	265	31-Jan-24	21-Oct-24	137					
DDA-920	Fire Services System for SDB - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approval(7d)	302	31-Jan-24	27-Nov-24	137				i	i
DDA-930 DDA-940	Mechanical for Sludge Dewatering Building (SDB) - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approv Plumbing System for Sludge Dewatering Bldg (SDB) - Prep(60d), Sub & Review(45d), Comment& Resub(14d) & App r.	302 302	31-Jan-24 31-Jan-24	27-Nov-24 27-Nov-24	545 545					÷
DDA-950	BS for Sludge Dewatering Building (SDB) - Prep(118d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	302	31-Jan-24	27-Nov-24	137					i
Package 18 - I										
DDA-540	Civil & Structural for Misc, Manholes, DrawPits, FenceWall - Prep (60 d), Sub & Review (45d), Comment& Resub (14d) & Apple (14d)	255	29-Mar-24	08-Dec-24	72					
	Elevated Walkways									
DDA-710	Civil & Structural for Elevated Wa kways - Prep(60d), Sub & Re view (45d), Comment & Resub (14d) & Approval (7d), GEC	101	29-Mar-24	07-Jul-24	694					
Package 20 - DDA-720	f rell is Civil & Structural for Trellis - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	207	01-Jan-24	25-Jul-24	588					
	Steel Working Platform	201	01-0411-24	23-341-24	500	<u> </u>				
DDA-730	Civil & Structural for Steel Working Platform - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	102	01-Jan-24	11-Apr-24	693				·····	
Package 22 -	Sampling System of YLEPP									
DDA-740	Sampling System for IW&PST - Prep(60d), Sub.&Review(45d), Comment&Resub (14d)&Approval(7d)	62	07-Jul-23A	02-Mar-24	-121					Sampling System for W&PST - Prep(60d), Sub.&Rev
DDA-1630	Sampling System for STB - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approva (7d)	128	03-Mar-24	08-Jul-24	-113					<u></u>
DDA-1610 DDA-1620	Sampling System for AGS&TTB -Prep(60 d), Sub.&Revie w(45 d), Comment&Resub (14 d) & Approval(7 d) Sampling System for SDT - Prep(60 d), Sub.&Review(45 d), Comment&Resub (14 d) & Approval(7 d)	127 127	27-Mar-24 27-Mar-24	31-Jul-24 31-Jul-24	-113					
	Security, Public Address and Communication System	121	21-1001-24	01-00-24	-110					
DDA-750	SPC sitewide ACS-Prep(60d), Sub.&Review(45d), Commen &Resub (14d) &Approval(7d)	98	21-Jun-23A	07-Mar-24	-126					SPC sitewide ACS - Prep(60d), Sub & Review
	Administration Building (ADB)					ļļ				
DDA-0960	Architectural for Administration Building (ADB) - Prep (60 d), Sub.&R evie w(45d), Comment& Resub (14d) & Approval (70	126	01-Jan-24*	05-May-24	-47	l				
Design out of DDA-1540	ATAL's Scope Drainage systems at base slab / foundation levels - Prep(60d), Sub & Review(45d), Comment& Resub (14d) & Approva	126	24-Aug-22 A	05-Apr-24	319					
DDA-1540 DDA-1560	Drainage systems at base siab /roundation ievels - Prep(600), Sub & Review(450), Comment& Resub (140) & Approva Street fire hydrantsystem - Prep(600), Sub & Review(450), Comment& Resub (140) & Approva (70)	126	24-Aug-22 A 01-Jan-24	05-Apr-24 05-May-24	254	1				
Technical Submi		.20	2. 001727		204	1				
	tance Test Plans					]				
SUBM-1110	Submit/review/approval Factory Acceptance Test Plans - Disc filter system	120	01-Dec-23 A	29-Apr-24	145					
SUBM-1130	Submit/review/approval Factory Acceptance Test Plans - SCADA system	120	01-Dec-23 A	29-Apr-24	-36					
	d Maintenance (O&M) Manuals and Installation Manuals (PS 34.20(11)(12)(13)) d Primary Sedimentation Tank									
	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	05-Jan-23 A	31-Jan-24	-178			Submit/review/approva	al Operation and Maintenance (O	kM) Manuals and Installation Manuals - 1stdraft
SUBM-1200		60	01-Feb-24	31-Mar-24	-149				V.	
AGS and TTS										
SUBM-1220		60	01-Feb-24	31-Mar-24	100					
SUBM-1250	ning System Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	01-Feb-24	31-Mar-24	538	li				
SUBINF1250 Sludge Disges		00	017 60-24	5 FividI-24	550	<u> </u>				×
	Submittreview/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	01-Feb-24	31-Mar-24	-178					
	emovalSystem									
SUBM-1280		60	01-Feb-24	31-Mar-24	-178					
	ng Plan and Procedures (PS34.20(10))		00 14-1-00 4	10 5-1 01	407				Employmentation	AS laboratory for commissions to -t
SUBM-1080 SUBM-1000	Employment of HOKLAS laboratory for commissiong test Submit/review/approval Commissioning Plan and Procedures - Early commissioning of M&PST (KD3)	60 120	23-May-22 A 20-Feb-24	19-Feb-24 18-Jun-24	-137 -137				Employmentor HOK	LAS laboratory for commissiong test
SUBM-1000 SUBM-1020	Submitteviewapproval Commissioning Plan and Procedures - Early commissioning of IwwaPS1 (KDS) Submitteviewapproval Commissioning Plan and Procedures -AGS	120	20-Feb-24 20-Feb-24	18-Jun-24	-137	<u> </u>				
SUBM-1030	Submittreview/approval Commissioning Plan and Procedures - TTS	120	20-Feb-24	18-Jun-24	474					
SUBM-1040	Submittreview/approval Commissioning Plan and Procedures - STB	120	20-Feb-24	18-Jun-24	519	[]				
SUBM-1050	Submittreview/approval Commissioning Plan and Procedures - SDT	120	20-Feb-24	18-Jun-24	133					
SUBM-1060	Submit/review/approval Commissioning Plan and Procedures - Biogas system	120	20-Feb-24	18-Jun-24	-97	Li				



 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. 38- 3MRP (Dec 23)

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	April 42		Ma 43	у		June 44
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			Civil & Struct for STCS, WGB			
,Comment&	Resub.(14d) & Approval (7d)					
ł)			Mechanical for STCDS - Pre	oare (60d), Sub. & F	eview(4	45d),Comment
-)			Mechanical Ven tilation and A	ir conditional Syster	n Desig	n for Sludge Thi
			Plumbing and Drainage Sys			
			Fire Services Design for Slud			
			Building Services for STCDS	- Prepare (60d), Su	b.ℜ	view.(45d) (Com
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	sub (14d) & Approval (7d)					
					C	hemical System
				for Sludge Thicker		
			Pipeworks System	n for Sludge Digeste	ers - Pre	p(ö∪d),Sub.ℜ
			Electrical & Control for SDT	& UC/PP-Prepare	(55 d), S	ub.&Review.(4
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			Building Services for SDT &	UC/PP-Prepare (	56d), Su	b. & Re view.(45
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viechanicanio	1 DOU NO. 2A and 2B-Piepa	ie(200),3	uba Review(2 du),Commen	artesub(140)oApp	iovar (/	u)
	Civil & Structural for Stee	el Workin	g Platform - Prep(60d), Sub.8	Review(45d), Com	ment&F	Resub (14d) & Ap
view(45d), Co	mment&Resub (14d) & Appro	val(7d)				
w (45 d), Comr	nen 1& Resub (14d) & Approva	l(7d)				
			Architectural for Ac	lministration Buildin	g (ADB	) - Prep (60 d), Su
Droin	age systems at base slab / fou	Indation	levels-Pren(60d) Sub & Pov	iew(45d) Common	t&Res	b(14d)&Annro
	<u></u>			system - Prep(60d),		
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Activity ID Activity Name			Early Start	Early Finish	Total Float	De cember 38	January February	March	April 42	Ma y June 43 44
Material Submission Procurem	ent, Manufacturing and Delivery	Dur					31 07 14 21 28 04 11 18	25 03 10 17 24	31 07 14 21 3	
Inlet Works										
	anufacture/Deliver New Inlet Works Equip GritTrap and classifier anufacture/Deliver New Inlet Works Equip Converyeor and compactor		18-Feb-22 A 12-Apr-22 A	27-Jul-24 30-Apr-24	-238 -139				· -	Submit/Procure/Manufacture/Deliver New Inlet Works Equip Conver
PRE-330 Submit/Procure/Ma	anufacture/Deliver New InletWorks Equip DOU-01	330	26-May-22 A	04-Jan-24	-49	· · · · · · · · · · · · · · · · · · ·	SubmitProcure/Manufacture/Deliver New Inlet Works Equip DOU-01			
	anufacture/Deliver New Inlet Works Equip LALG anufacture/Deliver New Inlet Works Equip Penstocks and stoplogs		28-Jul-22A 13-Sep-22A	30-Apr-24 29-Feb-24	-193 -139	÷		Submit/Procure/Manufacture/Deliver New Inlet Works	s Equip - Penstocks and stoplogs	Submit/Procure/Manufacture/Deliver New Inlet Works Equip LALG
	anufacture/Deliver New Inlet Works Equip MVAC-Ventilation Fan		10-Jan-23A	12-Jun-24	-230					· · · · · · · · · · · · · · · · · · ·
Primary Sedimentation Tanks PRE-390 Submit/Procure/Ma	anufacture/Deliver New Primary Sedimentation Tank Equip Penstocks and stoplogs	270	13-Aug-22 A	03-Jan-24	-70		Submit/Procure/Manufacture/Deliver New Primarly Sedimentation Tank Equip Penstocks a	ind stoplods		
	anufacture/Deliver New Primary Sedimentation Tank Equip Bottom scrapper		08-Sep-22 A	16-Jan-24	-176		Submit/Procure/Manufacture/Deliver New Primary Sedimentation Ta	ank Equip Bottom scrapper	-	
	anufacture/Deliver New Primary Sedimentation Tank Equip IPS air scouring blower anufacture/Deliver New Primary Sedimentation Tank Equip Scum pump and skimmer		27-Sep-22 A 29-Sep-22 A	16-Jan-24 02-Feb-24	-182 -14	1	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Ta	ank Equip IPS air scouring blower New Primary Sedimentation Tank Equip Scum pump and skim	mer	
PRE-370 Submit/Procure/Ma	anufacture/Deliver New Primary Sedimentation Tank Equip Primary sludge pump and grinder		29-Sep-22 A	02-Feb-24	-14		Submit/Procure/Manufacture/Deliver	New Primary Sedimentation Tank Equip Primary sludge pump		
PRE-400 Submit/Procure/Ma	anufacture/Deliver New Primary Sedimentation Tank Equip Pipeworks and valves	194	15-Oct-22 A	02-Feb-24	-208		Submit/Procure/Manufacture/Deliver	New Primary Sedimentation Tank Equip Pipeworks and valves		
PRE-410 Submit/Procure/Ma	anufacture/Deliver Waster Gas Burner	300	19-Aug-21 A	03-Oct-26	-109					<u>.</u>
	anufacture/Deliver H2S Removal System	510	25-Feb-22 A	30-Sep-25	-41					
Sludge Digestor Tank PRE-750 Submit/Procure/Ma	anufacture/Deliver Sludge Digester Tank - Flame Arresters	100	31-Oct-22 A	04-Oct-24	-178					
	anufacture/Deliver Sludge Digester Tank - Mixing System and Heat Exchanger for Sludge Anaerobic		22-Dec-22 A	01-Mar-24	39	i			ter Tank - Mixing System and Heat Exchanger for Sludge	
	anufacture/Deliver Sludge Digester Tank - Inspection Windowsfor Sludge Anaerobic System anufacture/Deliver Sludge Digester Tank - Gas Take Off Dome for Sludge Anaerobic Digestion Syste		18-Jan-23A 18-Jan-23A	29-Feb-24 04-Oct-24	40 -178				Hank-Inspector Windowstor Sludge Anaerobic Syste	
	anufacture/Deliver Sludge Digester Tank - Pressure and Vacuum Relief Valves		01-Mar-23A	01-Feb-24	-178		Submit/Procure/Manufacture/DeliverS	ludge Digester Tank - Pressu re and Vacuum Relief Valves		
	anufacture/Deliver Sludge Digester Tank - Telescopic Valve for Sludge Anaero bic Dige stion System anufacture/Deliver Sludge Digester Tank - Ferric Chloride Dosing Pump		10-Jul-23A 29-Aug-23 A	01-Aug-24 25-Jan-25	-178 -178	1			- <del>1</del>	· ·
PRE-770 Submit/Procure/Ma	anufacture/Deliver Sludge Digester Tank - Ferric Chloride Trasnfer Pump		29-Aug-23 A	04-Oct-24	-178	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
Sludge Thickening Building PRE-250 Submit/Procure/Ma	anufacture/Deliver Sludge Thickening System - Thickening Centrifuges	360	12-Nov-21 A	30-Apr-24	270					Submit/Procure/Manufacture/DeliverSludge Thickenirig System - Thic
PRE-500 Submit/Procure/Ma	anufacture/Deliver Sludge Thickening System - Pump and jet mixer	300	07-Jan-22 A	10-Jul-24	40					· · · · · · · · · · · · · · · · · · ·
	anufacture/Deliver Sludge Thickening System - LALG anufacture/Deliver Sludge Thickening System - Polymer preparation system		28-Mar-23A 12-Apr-23A	29-Jun-24 29-Jun-24	140 177	· · · · · · · · · · · · · · · · · · ·				<u>.</u>
PRE-490 Submit/Procure/Ma	anufacture/Deliver Sludge Thickening System - DOU-03	264	07-Jul-23A	07-Sep-24	140				······	· · · · · · · · · · · · · · · · · · ·
PRE-520 Submit/Procure/Ma Mainstream Bio-Reactor	anufacture/Deliver Sludge Thickening System - MVAC	271	01-Jan-24	27-Sep-24	120					
	anufacture/Deliver Main Stream Bio-Reactor E&MEquip AGS system		09-Sep-22 A	20-Mar-25	-211				· • · · · · · · · · · · · · · · · · · ·	÷÷÷÷÷
	anufacture/Deliver Main Stream Bio-Reactor E&M Equip Penstocks and stoplogs anufacture/Deliver Main Stream Bio-Reactor E&M Equip Sludge pre-thickening system		31-Oct-22 A 31-Oct-22 A	24-Jun-25 08-Jan-25	-180 -72	÷				
	anufacture/Deliver Main Stream Bio-Reactor E&MEquipChemical storage and dosing system		18-Nov-22 A	08-Jan-25	-140					· · · · · · · · · · · · · · · · · · ·
	anufacture/Deliver Main Stream Bio-Reactor E&M Equip Instrumentation anufacture/Deliver Main Stream Bio-Reactor E&M Equip MVAC		01-Jan-24 01-Jan-24	19-Jun-25 27-Sep-24	-195 -37					
	anufacture/Deliver Main Stream Bio-Reactor E&M Equip - INVAC		03-Feb-24*	20-Mar-25	-211			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Tertiary Treatment System PRE-610 Submit/Procure/Ma	anufacture/Deliver TTS Equip Pumping system	495	19-Jul-22A	08-Jan-25	-63					
	anufacture/Deliver TTS EquipPuriping system anufacture/Deliver TTS EquipUV disinfection system		08-Sep-22 A	08-Jan-25	-63					
	anufacture/Deliver TTS Equip Disc Filter		27-Sep-22 A	15-Jun-24	145				-	·
	anufacture/Deliver TTS Equip Chemical cleaning system anufacture/Deliver TTS Equip Penstocks and stoplogs		18-Nov-22 A 30-Nov-22 A	08-Jan-25 08-Jan-25	-63 -63					· · · · · · · · · · · · · · · · · · ·
	anufacture/Deliver TTS EquipLALG		27-Mar-23A	08-Jan-25	-63 -140					
PRE-690 Submit/Procure/Ma Electrical and Control System	anufacture/Deliver TTS Equip DOU-02	506	07-Sep-23 A	26-Mar-25	-140					L
Liectrical and Control System		420	30-Apr-22A	19-Mar-24	-36			Submit/Procure/M	anufacture/Deliver Electrial and Control System - SCADA	Aandinstrumentation
PRE-680 Submit/Procure/Ma	anufacture/Deliver Electrial and Control System - SCADA and instrumentation		04 D. 00 A	00 5 1 04				FL 11 1 10 1 10 1 10 17		
PRE-680 Submit/Procure/Ma PRE-640 Submit/Procure/Ma	anufacture/Deliver/Electrial and Control System - SCADA and instrumentation anufacture/Deliver Electrial and Control System - HVSB and Tx anufacture/Deliver Electrial and Control System - LVSB	283	21-Dec-22 A 21-Dec-22 A	02-Feb-24 18-Jan-24	-63 -127		SubmitProcure/Manufacture/Deliver	Electrial and Control System - HVSB and Tx m - LVSB		
PRE-680 Submit/Procure/Ma PRE-640 Submit/Procure/Ma PRE-650 Submit/Procure/Ma PRE-660 Submit/Procure/Ma	anufacture/Deliver Electrial and Control System - HVSB and Tx anufacture/Deliver Electrial and Control System - LVSB anufacture/Deliver Electrial and Control System - UPS	283 2 300 2 300 2	21-Dec-22 A 21-Dec-22 A	18-Jan-24 31-Jan-24	-127 -90			m - LVSB ctrial and Control System - UPS		
PRE-680 SubmitProcureMa PRE-640 SubmitProcureMa PRE-650 SubmitProcureMa PRE-660 SubmitProcureMa	anufacture/Deliver Electrial and Control System - HVSB and Tx anufacture/Deliver Electrial and Control System - LVSB anufacture/Deliver Electrial and Control System - UPS anufacture/Deliver Electrial and Control System - Am oured Cable	283 2 300 2 300 2	21-Dec-22 A	18-Jan-24 31-Jan-24	-127		SubmitProcure/Manufacture/Deliver Electrial and Control System	m-LVSB		
PRE-680 SubmitProcureMa PRE-640 SubmitProcureMa PRE-650 SubmitProcureMa PRE-660 SubmitProcureMa PRE-670 SubmitProcureMa Statutory Submission & Approv FSI, FSD and OP Requirements	anufacture/Deliver Electrial and Control System - HVSB and Tx anufacture/Deliver Electrial and Control System - LVSB anufacture/Deliver Electrial and Control System - UPS anufacture/Deliver Electrial and Control System - Am oured Cable	283 2 300 2 300 2	21-Dec-22 A 21-Dec-22 A	18-Jan-24 31-Jan-24	-127 -90		SubmitProcure/Manufacture/Deliver Electrial and Control System	m - LVSB ctrial and Control System - UPS		
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PRE-680         SubmitProcureMa           PRE-640         SubmitProcureMa           PRE-650         SubmitProcureMa           PRE-650         SubmitProcureMa           PRE-660         SubmitProcureMa           PRE-670         SubmitProcureMa           Statutory Submission & Approver         FSI-51200           FSI-520         SubmitSionReview           WSD Submission & Approval         FSD-1210           WSD-1010         WSD -Form WWC           WSD-1010         WSD -Form WWC           WSD-1020         WSD -Submission & Approval           WSD-1030         WSD -Form WWC           EMSD Submission & Approval         Biogas System (ATAL)           Phase 1         ATAL-FS-0020         Form 105 for Bioge           EPD Submission & Approval         Biogas System (ATAL)           Phase 1         ATAL-FS-0020         Form 105 for Bioge           EPD-1000         EPD - VEP Review         EPD-1010         EPD - VEP Review           EPD-1010         EPD - VEP Review         EPD-1020         EPD - VEP Review           EPD-1020         EPD - VEP Review         EPD-1030         EPD - VEP Review           EPD-1030         EPD - VEP Review         EPD-1030         EPD - VEP Review           EPD-10	anufacture/Deliver Electrial and Control System - HVSB and Tx anufacture/Deliver Electrial and Control System - LVSB anufacture/Deliver Electrial and Control System - Am oured Cable ral anufacture/Deliver Electrial and Control System - Am oured Cable ran and system and approval between and system and approval as Holder Tank 1(Submission and Approval Period) (FEP my prepare and submitb PM PM and approval tation with HKBW sission to DSD and EPD DSD and EPD e <b>fot Plant</b> ag <b>fot Plant</b> ag <b>fot Plant</b> ag <b>fot Plant</b> ag <b>crinspection and installation</b> oi 1 & 2 - Defect works (Remainder) oi 1 & 2 - Defect works (Remainder) oi 1 & 2 - CLP final Iaspe dion and h andover oi 1 - CLP ins I alon oi 1 - Energization	283       2         300       2         300       2         203       2         120       2         120       2         90       0         90       0         90       0         90       0         90       28         7       28         28       7         28       28         7       28         90       1         128       2         90       1         60       1         60       1         0       0         90       1         60       1         0       0	21-Dec-22 A 21-Dec-22 A 21-Dec-22 A 12-Jan-24 12-Jan-24 10-Mar-22A 17-Mar-24 08-Nov-22 A 23-Jan-24 24-Jan-24 24	18-Jan-24 31-Jan-24 05-Mar-24 16-Mar-24 16-Mar-24 16-Mar-24 16-Mar-24 14-Jun-24 22-Jan-24 22-Jan-24 23-Jan-24 23-Jan-24 23-Jan-24 23-Jan-24 23-Jan-24 23-Jan-24 29-Jan-24 29-Jan-24 29-Jan-24 29-Jan-24	-127 -90 -82 -197 -197 -208 -208 -208 -208 -208 -208 -208 -208		SubmitProcureManufacture/Deliver Electial and Control System SubmitProcureManufacture/Deliver Electial Submission/ Submission/ EPD-VEP Relyiew, prepare and submitto PM EPD-VEP Relyiew, prepare and submitto PM EPD-VEP RC to PM and approval EPD-VEP RC to PM approval EPD-VEP RC to PM approval EPD-VEP RC to PM approval EPD-VEP RC to PM ap	n - LVSB citial and Control System - UPS SubmitProcureMenufacture/Deliver Electri ReviewApproval by PM and FSD - Full GBP+GBP for TOP1 with I WSD - Form WW0542 WSD - SubmitForm W WSD - SubmitForm W Form 105 for Biogas Holder Tank 1(Submis Form 105 for Biogas Holder Tank 1(Submis EPD - VEP Submission to DSD and EPD EPD - VEP RtC to DSD and EPD EPD - VEP RtC to DSD and EPD	Amoured Cable	Submission/Review/Approval by PM and FSD - Full
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PRE-680         SubmitProcureMa           PRE-640         SubmitProcureMa           PRE-650         SubmitProcureMa           PRE-650         SubmitProcureMa           PRE-660         SubmitProcureMa           PRE-670         SubmitProcureMa           Statutory Submission & Approver         FSI-51200           FSI-520         SubmitSionReview           WSD Submission & Approval         FSD-1210           WSD-1010         WSD -Form WWC           WSD-1010         WSD -Form WWC           WSD-1020         WSD -Submission & Approval           WSD-1030         WSD -Form WWC           EMSD Submission & Approval         Biogas System (ATAL)           Phase 1         ATAL-FS-0020         Form 105 for Bioge           EPD Submission & Approval         Biogas System (ATAL)           Phase 1         ATAL-FS-0020         Form 105 for Bioge           EPD-1000         EPD - VEP Review         EPD-1010         EPD - VEP Review           EPD-1010         EPD - VEP Review         EPD-1020         EPD - VEP Review           EPD-1020         EPD - VEP Review         EPD-1030         EPD - VEP Review           EPD-1030         EPD - VEP Review         EPD-1030         EPD - VEP Review           EPD-10	anufactureDelver Electial and Control System - HVSB and Tx anufactureDelver Electial and Control System - LVSB anufactureDelver Electial and Control System - Am oured Cable ral wWApproval by PM and FSD - Ful GBP+GBP for TOP1 with DG - RtC & 3rd submission wWApproval by PM and FSD - Ful GBP+GBP for TOP1 with DG - RtC & 4th submission WApproval by PM and FSD - Ful GBP+GBP for TOP1 with DG - RtC & 4th submission WApproval by PM and FSD - Ful GBP+GBP for TOP1 with DG - RtC & 4th submission WApproval by PM and FSD - Ful GBP+GBP for TOP1 with DG - RtC & 4th submission WApproval by PM and FSD - Ful GBP+GBP for TOP1 with DG - RtC & 4th submission WApproval by PM and FSD - Ful GBP+GBP for TOP1 with DG - RtC & 4th submission mWO4P fart1 and 2 M6 Part1 and	283       2         300       2         300       2         203       2         120       2         120       2         90       0         90       0         90       0         90       0         90       28         7       28         28       7         28       28         7       28         90       1         128       2         90       1         60       1         60       1         0       0         90       1         60       1         0       0	21-Dec-22 A 21-Dec-22 A 21-Dec-22 A 12-Jan-24 12-Jan-24 10-Mar-22A 17-Mar-24 17-Mar-24 23-Jan-24 24-Jan-24 24-Jan-24 25-Jan-24 26-Jan-26-Jan-26 26-Jan-2	18-Jan-24 31-Jan-24 05-Mar-24 10-May-24 16-Mar-24 16-Mar-24 16-Mar-24 14-Jun-24 05-Mar-24 22-Jan-24 22-Jan-24 23-Jan-24 23-Jan-24 23-Jan-24 23-Jan-24 29-Jan-24 29-Jan-24 29-Jan-24 29-Jan-24 29-Jan-24 29-Jan-24	-127 -90 -82 -197 -197 -208 -208 -208 -208 -208 -208 -208 -208	2019/10 - YLEPP	SubmitProcureManufacture/Deliver Electial and Control System SubmitProcureManufacture/Deliver Electial Submission/ Submission/ EPD-VEP Relyiew, prepare and submitto PM EPD-VEP Relyiew, prepare and submitto PM EPD-VEP RC to PM and approval EPD-VEP RC to PM approval EPD-VEP RC to PM approval EPD-VEP RC to PM approval EPD-VEP RC to PM ap	n-LVSB citial and Control System - UPS SubmitProcureMenufacture/Deliver Electri ReviewApproval by PM and FSD - Full CBP+GBP for TOP1 with 1 WSD - Form WW0542 ↓ WSD - SubmitForm W WSD - SubmitForm W EPD - VEP Submission to DSD and EPD EPD - VEP Submission to DSD and EPD EPD - VEP Submission to DSD and EPD EPD - VEP RC to DSD and EPD EPD - VEP RC to DSD and EPD Project ID : DWPr33_230117r1 Layout : DC201910 MPR38-3M	Amoured Cable	Submission/Review/Approval by PM and FSD - Full
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	SD11KV Switchgear - internal ABWF Works	36	25-Feb-23 A	15-Jan-24	-47		DSD11KV Switchgear - int	ternal ABWF Works	
	SD11KV Switchgear - E&Mand BS Installation SD11KV Switchgear - Energization	51 8	18-Jul-23A 20-Jan-24	19-Jan-24 29-Jan-24	-47 -47			ear - E&Mand BS Installation DSD11KV Switchgear - Energization	
	1 & 2 & DSD 11kV Switchgear - GRC Cladding								
	LP Substation No.1 & 2 & DSD11KV Switchgear - GRC dadding - mock-up inspection and approval	1 60	14-Sep-23 A	02-Jan-24	576 576		CLP Substation No.1 & 2 & DSD11KV Switchgea	GRC cladding - mock-up inspection and approval	CLP Substation No.1 & 2 &
	LP Substation No.1 & 2 & DSD11KV Switchgear - GRC dadding - fabrication LP Substation No.1 & 2 & DSD11KV Switchgear - GRC dadding - installation	75	03-Jan-24 15-Jan-24	15-Mar-24 18-Apr-24	576				
odification of Exis	sting Emergency Bypass Chamber								
· · · · ·	Chamber - Foundation and ELS V - Modification of Existing Emergency Bypass Chamber - Site clearance and mobilization of sheetpile	3	19-Feb-24*	21-Feb-24	-199			W-Modific	ation of Existing Emergency Bypass Chamber - Site clea
	V-Modification of Existing Emergency Bypass Chamber - Sheet Piles Installation (1,283m2,60m2/day/rig, 1rig)	21	22-Feb-24	16-Mar-24	-199				W - Modification of Existi
	V-Modification of Existing Emergency Bypass Chamber - Pumping test	5	17-Mar-24	21-Mar-24	-242				W-Modification
IW-1270 IW let Works (IW)	V - Modification of Existing Emergency Bypass Chamber - Excavation: 1st layer +4.5 to +3.5mPD (253m3)	6	22-Mar-24	28-Mar-24	-199				
W Foundation & EL	_S Works								
WBasement									
IW Excavation Wor W Zone A/D- ELS	rks & ELS								
Modification of Zone									
Z1-W-6410 W WBase Slab	V-Strutting: Remove backprop at PST	7	21-Nov-23 A	25-Nov-23 A		utting: Remove backprop at PST			
Z1-IW-6090 IW	V-ZoneA - Pile Cap @4.95mPD (1stpour)	12	14-Dec-23 A	09-Jan-24	-213		W-Zone A - Pile Cap @-4.95mPD (1		
	V-Zone A - Pile Cap @-5.90/4.95/3.95/0.55mPD (2nd pour) V-Zone D - Strutting: Remove knee srutof S3 strut(MS2-3)	12	05-Jan-24 06-Jan-24*	18-Jan-24 09-Jan-24	-213 -127		W-Zone A - Pile Cap W-Zone D - Strutting: Remove knee	@-5.90/4.95/3.95/0.55mPD (2nd pour)	
	V-Zone D - Break mass concrete and blinding for Pile Cap @-1.65 (GL4-5 upper portion)	6	10-Jan-24	16-Jan-24	-127			sconcrete and blinding for Pile Cap @-1.65 (GL4-5 u	pperportion)
	V-Zone D - Pile Cap @-1.65 (GL4-5 upper portion)*OT	8	17-Jan-24	25-Jan-24	-127			e D - Pile Cap @-1.65 (GL4-5 upper portion) *OT e A - Remove strut S4 and remaining S3	
	V-Zone A - Remove strut S4 and remaining S3 V-Zone A - Pile Cap @-4.90/-1.60/-0.55mpD (3rd pour)	6 8	19-Jan-24 26-Jan-24	25-Jan-24 03-Feb-24	-213 -213		W-201	W-Zone A - Pile Cap @-4.90/-1.60/-0.55mpl	D (3rd pour)
	V-Zone A - Pile Cap @-1.60/-0.05mpD (4th pour)	10	05-Feb-24	19-Feb-24	-213			W-Zone A - Pil	e Cap @-1.60/-0.05mpD (4th pour)
Z1-IW-6820 IW IW Basement RC V	V-Zone A - Pile Cap @-0.55mpD (5th pour)	10	20-Feb-24	01-Mar-24	-213				W-Zone A - Pile Cap @-0.55mpD (5th pour)
W Zone C									
	V(C)-Zone C1&2 - Waterproof, remove strutand concrete backfill	15	13-Nov-23 A	05-Jan-24	-96		W(C) - Zone C1&2 - Waterproof, remove stru		1 4 8 1402 0)-+01 4
	V(C) - Zone C3 - Strutting: Remove S1 & S2 strut(MS3-1 & MS3-2) at GL4 V(C) - Zone C3 - Wa1 & Column, G/F Slab of Falseworks, Form works and R C Works (+6.00 mPD)	3	26-Jan-24 30-Jan-24	29-Jan-24 08-Feb-24	-67 -67			W(C) - Zone C3 - Strutting: Remove S1 & S2 strut (MS W(C) - Zone C3 - Wal & Column, G	F Slab of False works, Form works and R C Works (+6.00
	PST early commissioning*		1						
Z1-IW-6450 IW W Zone A/D	V(D) - Wall Erection of Formworks and RC Works (-1.6 to +4.95mPD) *OT	4	26-Jan-24	30-Jan-24	-127			W(D) - Wall Erection of Formworks and RC Works (	1.6 to +4.95mPD) "OI
Z1-IW-6240 IW	V(A/D) - Remove S1 (after road lowering to +4mPD)	4	02-Jan-24	05-Jan-24	-160		IW(A/D) - Remove S1 (after road lowering to	+4mPD)	
	V(A/D) - Wal Erecton of Form works and RC Works (-0.55 to +3.5 mPD) with S2 cast-in V(A/D) - G/F Slab of Falseworks, Formworks and RC Works (+3.95/+4.95 mPD)	8 12	02-Mar-24 12-Mar-24	11-Mar-24 25-Mar-24	-213 -213				W(A/D) - Wal Erection of Form wo
	V(D)-G/F Slab of Falseworks, Formworks and RC Works (+3.95/+4.95 mPD) after S1 remove	12	12-Mar-24	25-Mar-24	-213				IW(D)-0
	V(A/D) - Remove formwork, concrete defect works	8	26-Mar-24	08-Apr-24	-186				
	est for IW Basement VB - Concrete develop strength (IW Zone A +4.95 slab)	7	26-Mar-24	06-Apr-24	-210				
IW Civil and Structur	Iral Works				1				
IW Superstructure RC Works									
Zone C									
Zone C1 Z1-W-4220 W	VS (C) - Zone C1 - Column Erection of Formworks and RC Works (+18.2mPD)	8	30-Nov-23 A	30-Dec-23 A			WS (C) - Zone C1 - Column Erection of Formworks an	d RC Works (+18 2mPD)	
	VS (C) - Zone C1 - Wall (+11.8 to +18.2) & Roof Slab of Falseworks, Formworks and RC Works (+18.2m PD)	10	30-Nov-23 A	30-Dec-23 A			WS (C)-Zone C1 - Wall (+11.8 to +18.2) & Roof Slab o	. <u>.</u>	)
Zone C2		14	07 Nov 02 A	23-Nov-23 A		Zone C2 - Column and Wall Erection of Formworks and	EC Wardro (111 9mpD)		
	VS (C)-Zone C2-Column and WallErecton of Form works and RC Works (+11.8mPD) VS (C)-Zone C1-Cable Trench RC Works (+12.8mPD)	6	07-Nov-23 A 15-Nov-23 A	23-Nov-23 A 29-Nov-23 A		IWS (C) - Zone C1 - Cable Trench RC Works (+12.8mf			
	VS (C) - Zone C2 - Wall (+11.8 to +18.2) & Roof Slab of Falseworks, Formworks and RC Works (+18.2m PD)	15	24-Nov-23 A	23-Dec-23 A		WS(C)-Z	one C2 - Wall (+11.8 to +18.2) & Roof Slab of Falseworks		
Z1-W-6690 W Zone C3	VS (C) - Zone C2 - Remove external falsework (+6 to +182mPD) at Zone C2	3	25-Dec-23 A	04-Jan-24	-104		WS (C) - Zone C2 - Remove external falsewor	r (+6 10 + 18 2 mPD) al 20ne C2	
Z1-W-6740 W	VS (C) - Zone C3 - Wall & Column (+6 b +11.8) & 1/F Slab of Falseworks, Formworks and RC Works (+11.8mPD)	8	09-Feb-24	21-Feb-24	-67			WS (C) - Zo	me C3 - Wall & Column (+6 to +11.8) & 1/F Slab of Falsev
Z1-W-6750 W Zone D	VS (C) - Zone C3 - Wall & Column (+11.8 to +18.2) & Roof Slab of Falseworks, Formworks and RC Works (+18.2mPD	8	22-Feb-24	01-Mar-24	-67				IWS (C)-Zone C3 - Wall & Column (+11.8 to +18.2)
	VS (D) - Wal Erecton of Form works and RC Works (+7.84/+8.2mPD)*OT	4	31-Jan-24	03-Feb-24	-127			WS (D) - Wall Erection of Formworks and RC	Works (+7.84/+8.2mPD) *OT
	VS (D) - Intermediate Slab of Falseworks, Formworks and RC Works(+7.84/+82mPD) VS (D) - Wal Erecton of Form works and RC Works (+11.8mPD) *OT	8	05-Feb-24 17-Feb-24	16-Feb-24 21-Feb-24	-127 -127				e Slab of Falseworks, Formworks and RC Works(+7.84/+ all Erection of Formworks and RC Works (+11.8mPD) *0
	VS (D) - Wal Erector of Form works and RC Works (+182mPD) *OT	4	22-Feb-24	26-Feb-24	-127				\$ (D) - Wall Erection of Form works and RC Works (+18.2
1	VS (D) - Roof Slab of Falseworks, Formworks and RC Works (+182mPD)	8	27-Feb-24	06-Mar-24	-127				WS (D) - Roof Slab of Falseworks, Formwo
Zone A Z1-W-4145 W	VS (A)-Wall Erection of Formworks and RC Works (+7.84/+8.2mPD)	8	26-Mar-24	08-Apr-24	-213				
IW ABWF Works									
	fix for E&M handover								
	Zone A/D								
IW ABWF Works 15th Below +11.8mPD	Zone A/D			05.4 04	150				
IW ABWF Works - Below +11 & mPD Dry Area		C	00 May 04		-159		<b>.</b>		
IW ABWF Works - Below +11 & mPD Dry Area	letWork - Concrete gain strength (4.9/+0.0mPD)	6	26-Mar-24	05-Apr-24					
IW ABWF Works - 2 Below +11 8 mP D Dry Area IW-3300 Ink IW ABWF Works - 2 W-3460 Ink	letWork-Concrete gain strength (4.9/+0.0mPD) Zone C letWork-Concrete gain strength (Zone C, +6.0/+18.3mPD)	6 5	02-Jan-24	06-Jan-24	-104		Inlet Work - Concrete gain strength (Zone C		
IW ABWF Works - J           Below +11 8mPD           Dry Area           W-3300           IW ABWF Works - J           W-3460           IN-3450	letWork - Concrete gain strength (4.9/+0.0mPD) Zone C letWork - Concrete gain strength (Zone C, +6.0/+18.3mPD) letWork - Remove formwork and falsework (Zone C, +6.0/+18.3mPD)	6 5 4 7	02-Jan-24 08-Jan-24	06-Jan-24 11-Jan-24	-104		Inlet Work - Remove formwork an	d falsework (Zone C, +6.0/+18.3mPD)	
IW ABWF Works - J           Below +11 8 mPD           Dry Area           IW-3300           IW-3460           IW-3460           IW-3450           IW-3210	letWork-Concrete gain strength (4.9/+0.0mPD) Zone C letWork-Concrete gain strength (Zone C, +6.0/+18.3mPD)	6 5 4 7 7	02-Jan-24	06-Jan-24			Inlet Work - Remove formwork an		
IW ABWF Works - i           Below +11 8 mPD           Dry Area           W.3300           IW ABWF Works - i           W-3460           IW-3450           IW-3210           IW-3220           IW Transformer House	letWork - Concrete gain strength (4.9/+0.0mPD) Zone C letWork - Concrete gain strength (Zone C, +6.0/+18.3mPD) letWork - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) letWork - ABWF Works 1stfx/for DOU installation (+6.0/+18.3mPD) letWork - ABWF Works 1stfx/for LVSB installation (+12.8/+18.3mPD) use No. 1	7	02-Jan-24 08-Jan-24 12-Jan-24	06-Jan-24 11-Jan-24 19-Jan-24	-104 -70		Inlet Work - Remove formwork an	d falsework (Zone C, +6.0/+18.3mPD) Works 1st fix for DOU installation (+6.0/+18.3mPD)	
IW ABWF Works - J           Below +11 &mPD           Dry Area           MV-3300           IW ABWF Works - J           W-3460           IW-3450           IW-3210           IW-3220           IW Transformer Hous           WTx1 Civit & Structur	letWork - Concrete gain strength (4.9/+0.0mPD) Zone C letWork - Concrete gain strength (Zone C, +6.0/+18.3mPD) letWork - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) letWork - ABWF Works 1stfx/for DOU installation (+6.0/+18.3mPD) letWork - ABWF Works 1stfx/for LVSB installation (+12.8/+18.3mPD) use No. 1	7	02-Jan-24 08-Jan-24 12-Jan-24	06-Jan-24 11-Jan-24 19-Jan-24	-104 -70 -104	T	Inlet Work - Remove formwork an	d falsework (Zone C, +6.0/+18.3mPD) Works 1st fix for DOU installation (+6.0/+18.3mPD)	
IW ABWF Works - J         J           Below +11 8mPD         Dry Area           W 3300         Inki           IW ABWF Works - J         W-3460           W-3460         Inki           W-3210         Inki           W-3220         Inki           W-3220         Inki           W-3220         Inki           W-Transformer Hour         WTransformer Hour           W-2930         TX           W-3430         TX	Iet Work - Concrete gain strength (4.9/+0.0mPD) Zone C Iet Work - Concrete gain strength (Zone C, +6.0/+18.3mPD) Iet Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) Iet Work - ABWF Works 1stfix for DOU installation (+6.0/+18.3mPD) Iet Work - ABWF Works 1stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+	7 7 4 1	02-Jan-24 08-Jan-24 12-Jan-24 12-Jan-24 18-Dec-23 A 29-Dec-23 A	06-Jan-24 11-Jan-24 19-Jan-24 19-Jan-24 28-Dec-23A 10-Jan-24	-104 -70 -104		hiet Work - Remove formwork an hiet Work - ABWF hiet Work - ABWF X House No. 1 - ELS Works - Sheeipile TX House No. 1 - ELS Works - Exc	d falsework (Zone C, +6.0/+18.3mPD) Works 1stfixfor DOU installation (+6.0/+18.3mPD) Works 1stfixfor LVSB installation (+12.8/+18.3mPD)	
IW ABWF Works - i           Below +11 8mPD           Dry Area           W.3300           IW ABWF Works - i           W-3460           IW-3450           IW-3320           IW-3320           IW-3320           IW-3320           IW-3320           IW-7320           IW Transformer Hour           W-2930           TX-3330           IW-3440	let Work - Concrete gain strength (4.9/+0.0mPD) Zone C let Work - Concrete gain strength (Zone C, +6.0/+18.3mPD) let Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) let Work - ABWF Works 1stfx/for DOU installation (+6.0/+18.3mPD) let Work - ABWF Works 1stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Works - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Work - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Work - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Work - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Work - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Work - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Work - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF Work - Stfx/for LVSB installation (+12.8/+18.3mPD) let Work - ABWF	7 7 4	02-Jan-24 08-Jan-24 12-Jan-24 12-Jan-24 18-Dec-23 A 29-Dec-23 A 11-Jan-24	06-Jan-24 11-Jan-24 19-Jan-24 19-Jan-24 28-Dec-23 A 10-Jan-24 15-Jan-24	-104 -70 -104 -104 -104	Г. Т	hietWork - Remove formwork an hietWork - ABWF hietWork - ABWF hietWork - ABWF X House No. 1 - ELS Works - Exc TX House No. 1 - ELS Works - Exc TX House No. 1 - ELS Works - Exc	d falsework (Zone C, +6.0/+18.3mPD) Works 1stfixfor DOU installation (+6.0/+18.3mPD) Works 1stfixfor LVSB installation (+12.8/+18.3mPD) valion avalion	
IW ABWF Works - J           Below +11 &mP D           Dry Area           W-3300           IN/ ABWF Works - J           W-3460           W-3450           IN/-3450           W-32020           IN/W X220           IN/W Transformer Hour           WTx1 Cwil & Structur           W-2930         TX           W-3430         TX           W-3430         TX           W-32790         TX	Iet Work - Concrete gain strength (4.9/+0.0mPD) Zone C Iet Work - Concrete gain strength (Zone C, +6.0/+18.3mPD) Iet Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) Iet Work - ABWF Works 1stfix for DOU installation (+6.0/+18.3mPD) Iet Work - ABWF Works 1stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Work 2 Stfix for LVSB installation (+12.8/+	7 7 4 1 4	02-Jan-24 08-Jan-24 12-Jan-24 12-Jan-24 18-Dec-23 A 29-Dec-23 A	06-Jan-24 11-Jan-24 19-Jan-24 19-Jan-24 28-Dec-23A 10-Jan-24	-104 -70 -104 -104 -104 -104 -104	T	hletWork - Remove formwork an InletWork - ABWF InletWork - ABWF X House No. 1 - ELS Works - Exec TX House No. 1 - ELS Works - Exec	d falsework (Zone C, +6.0/+18.3mPD) Works 1stfixfor DOU installation (+6.0/+18.3mPD) Works 1stfixfor LVSB installation (+12.8/+18.3mPD) at capping plate, blinding 21 - Structure Base slab at +3.8 mPD to +4.8 mPD to vision of the structure cable trench from +4.8 mPD to +4.8 mPD	+β.0 mPD *OT
IW ABWF Works - J           Below +11 8mPD           Dry Area           MV.3300           IW ABWF Works - J           MV.3460           IW ABWF Works - J           MV.3460           IW A200           IW A210           IW A220           INI           W-3420           IW Transformer Hour           IW-2300           IW-3430           TX           W-3440           IW-2900           IW-2820	let Work - Concrete gain strength (4.9/+0.0mPD) Zone C let Work - Concrete gain strength (Zone C, +6.0/+18.3mPD) let Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) let Work - ABWF Works 1stfxfor DOU installation (+6.0/+18.3mPD) let Work - ABWF Works 1stfxfor LVSB installation (+6.0/+18.3mPD) let Work - ABWF Works 1stfxfor LVSB installation (+12.8/+18.3mPD) lise No. 1 Howse No. 1 - ELS Works - Sheetpile X House No. 1 - ELS Works - Sheetpile X House No. 1 - Earth mat, capping plate, blinding X House No. 1 - Structure claibt tench from +4.8 mPD to +6.0 mPD *0T X House No. 1 - Structure claibt tench from +4.8 mPD to +6.0 mPD *0T X House No. 1 - Structure Claibt tench from +4.8 mPD to +5.0 mPD *0T X House No. 1 - Structure Claibt tench from +4.8 mPD to +5.0 mPD *0T	7 7 7 4 1 4 6	02-Jan-24 08-Jan-24 12-Jan-24 12-Jan-24 18-Dec-23 A 29-Dec-23 A 11-Jan-24 23-Jan-24 23-Jan-24	06-Jan-24 11-Jan-24 19-Jan-24 19-Jan-24 28-Dec-23 A 10-Jan-24 15-Jan-24 22-Jan-24 26-Jan-24 05-Feb-24	-104 -70 -104 -104 -104 -104 -104 -104 -104	Т	hletWork - Remove formwork an InletWork - ABWF InletWork - ABWF X House No. 1 - ELS Works - Exec TX House No. 1 - ELS Works - Exec	d falsework (Zone C, +6.0/+18.3mPD) Works 1stfixfor DOU installation (+6.0/+18.3mPD) Works 1stfixfor LVSB installation (+12.8/+18.3mPD) varian a capping plate, blinding 2:1 - Structure Base slab at +3.8 mPD to +4.8 mPD to use No. 1 - Structure Cafe trench from +4.8 mPD to +4.	+6.0 mPD *OT om +6.0 mPD to +11.6 mPD *OT
IW ABWF Works - J           Below +11 8 mP D           Dry Area           Mv.3300           IW ABWF Works - J           Mv.3460           Mv.3200           IW ABWF Works - J           Mv.3450           Mv.3220           IW Transformer Hour           Mv.33430           Mv.3430           TX           Mv.3440           TX           Mv-2800           TX           Mv-28020           Mv-28020           Mv-3400           TX           W-3400	Iet Work - Concrete gain strength (4.9/+0.0mPD) Zone C Iet Work - Concrete gain strength (Zone C, +6.0/+18.3mPD) Iet Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) Iet Work - ABWF Works 1stfixfor DOU installation (+6.0/+18.3mPD) Iet Work - ABWF Works 1stfixfor LVSB installation (+6.0/+18.3mPD) Iet Work - ABWF Works 1stfixfor LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfixfor LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfixfor LVSB installation (+12.8/+18.3mPD) Iet Works - NBWF Works - Sheetpile X House No. 1 - ELS Works - Sheetpile X House No. 1 - Structure Base slab at +3.8 mPD to +4.8 mPD *0T X House No. 1 - Structure cable trench from +4.8 mPD to +6.0 mPD *0T	7 7 7 4 1 4 6 4	02-Jan-24 08-Jan-24 12-Jan-24 12-Jan-24 12-Jan-24 18-Dec-23 A 29-Dec-23 A 11-Jan-24 16-Jan-24 23-Jan-24	06-Jan-24 11-Jan-24 19-Jan-24 19-Jan-24 28-Dec-23 A 10-Jan-24 15-Jan-24 22-Jan-24 26-Jan-24	-104 -70 -104 -104 -104 -104 -104	т Т	hletWork - Remove formwork an InletWork - ABWF InletWork - ABWF X House No. 1 - ELS Works - Exec TX House No. 1 - ELS Works - Exec	d falsework (Zone C, +6.0+18.3mPD) Works 1stfixfor DOU installation (+6.0+18.3mPD) Works 1stfixfor LVSB installation (+12.8+18.3mPD) valon a capping plate, blinding 21 - Structure Base slab at +3.8 mPD to +4.8 mPD to vige No. 1 - Structure cable trench from +4.8 mPD to TX House No. 1 - Structure G/F to Roof fr TX House No. 1 - Concrete gair TX House No. 1 - Concrete gair	+6.0 mPD *OT om +6.0 mPD to +11.6 mPD *OT
IW ABWF Works - J           Below +11 8 mPD           Dry Area           MV3300           IW ABWF Works - J           MV3460           IW ABWF Works - J           MV3420           IW ABWF Works - J           MV3420           IW ABWF Works - J           MV3420           IW Transformer House           MV-3930           IW Transformer House           MV-3930           TX           MV-3430           TX           MV-3430           TX           MV-2800           TX           MV-2800           TX           MV-3400           TX           MV-3420           MV-3410	Iet Work - Concrete gain strength (4.9/+00mPD) Zone C Iet Work - Concrete gain strength (Zone C, +6.0/+18.3mPD) Iet Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) Iet Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) Iet Work - ABWF Works 1stfixfor DOU installation (+6.0/+18.3mPD) Iet Work - ABWF Works 1stfixfor LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfixfor LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works - Istfixfor LVSB installation (+12.8/+18.3mPD) Iet Works - NBWF Works - Sheetpile X House No. 1 - ELS Works - Sheetpile X House No. 1 - ELS Works - Excavation X House No. 1 - Structure Base slab at +3.8 mPD to +4.8 mPD *0T X House No. 1 - Structure Gafe to Roof from +6.0 mPD to +10.6 mPD oT X House No. 1 - Structure Gain strength roof slab (+116mPD) X House No. 1 - Structure Garanget wall +11.6 mPD to +12.7mPD X House No. 1 - Structure anaget wall +11.6 mPD to +12.7mPD X House No. 1 - Structure anaget wall +11.6 mPD to +12.7mPD	7 7 7 4 1 4 6 6 4 8 5 6 3	02-Jan-24 08-Jan-24 12-Jan-24 12-Jan-24 18-Dec-23 A 29-Dec-23 A 11-Jan-24 23-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 14-Feb-24	06-Jan-24 11-Jan-24 19-Jan-24 19-Jan-24 28-Dec-23 A 10-Jan-24 22-Jan-24 22-Jan-24 22-Jan-24 26-Jan-24 05-Feb-24 10-Feb-24 16-Feb-24	-104 -70 -104 -104 -104 -104 -104 -104 -104 -129 787 -106	т Т	hletWork - Remove formwork an InletWork - ABWF InletWork - ABWF X House No. 1 - ELS Works - Exec TX House No. 1 - ELS Works - Exec	d falsework (Zone C, +6.0/+18.3mPD) Works 1stfixfor DOU installation (+6.0/+18.3mPD) Works 1stfixfor LVSB installation (+12.8/+18.3mPD) skation at capping plate, blinding 1 - Structure Base slab at +3.8 mPD to +4.8 mPD to TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure S	60 mPD "OT om +60 mPD b +116 mPD "OT strength roof slab (+116 mPD) Aure parapet weil +116 mPD to +127 mPD Ne formwork and falsework
IW ABWF Works - J           Below +11 8 mPD           Dry Area           MV3300           IW ABWF Works - J           MV3460           IW ABWF Works - J           MV3420           IW ABWF Works - J           MV3420           IW ABWF Works - J           MV3420           IW Transformer House           MV-3930           IW Transformer House           MV-3930           TX           MV-3430           TX           MV-3430           TX           MV-2800           TX           MV-2800           TX           MV-3400           TX           MV-3420           MV-3410	let Work - Concrete gain strength (4.9/+0.0mPD) Zone C let Work - Concrete gain strength (Zone C, +6.0/+18.3mPD) let Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) let Work - ABWF Works 1 stffxfor DOU installation (+6.0/+18.3mPD) let Work - ABWF Works 1 stffxfor LVSB installation (+6.0/+18.3mPD) let Work - ABWF Works 1 stffxfor LVSB installation (+12.8/+18.3mPD) ise No. 1 irral Works X House No. 1 - ELS Works - Sheetpile X House No. 1 - ELS Works - Excavation X House No. 1 - Structure Base slab at +3.8 mPD to +4.8 mPD *0T X House No. 1 - Structure cable trench from +4.8 mPD to +6.0 mPD *0T X House No. 1 - Structure cable trench from +6.0 mPD to -11.6 mPD *0T X House No. 1 - Structure parapet wall +11.6 mPD to +12.7mPD	7 7 7 4 1 4 6 4 8 5 6	02,Jan-24 08,Jan-24 12,Jan-24 12,Jan-24 18-Dec-23 A 29-Dec-23 A 11,Jan-24 16,Jan-24 23,Jan-24 27,Jan-24 06,Feb-24	06-Jan-24 11-Jan-24 19-Jan-24 28-Dec-23A 10-Jan-24 22-Jan-24 26-Jan-24 26-Jan-24 10-Feb-24 15-Feb-24	-104 -70 -104 -104 -104 -104 -104 -104 -129 787	т Т	hletWork - Remove formwork an InletWork - ABWF InletWork - ABWF X House No. 1 - ELS Works - Exec TX House No. 1 - ELS Works - Exec	d falsework (Zone C, +6.0/+18.3mPD) Works 1stfixfor DOU installation (+6.0/+18.3mPD) Works 1stfixfor LVSB installation (+12.8/+18.3mPD) skation at capping plate, blinding 1 - Structure Base slab at +3.8 mPD to +4.8 mPD to TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure S	\$0 mPD *OT om +6.0 mPD to +11.6 mPD *OT Istrength roof slab (+11.6 mPD) spre parapet wall +11.6 mPD to +12.7 mPD
IW ABWF Works - i           Below +11 8mPD           Dry Area           W:3300           IW ABWF Works - i           W:3460           IW:3450           IW:3220           IW:3220           IW:3320           IW:3220           IW:3230           W:3450           IW:3450           W:71 CNI& Structure           W:2930           W:2930           W:2930           W:2930           W:2920           W:2820           W:2820           W:2820           W:3400           W:3400           W:3410           W:3420           W:3420           W:3430           W:3420           W:3420           W:3430           W:3420           W:3430           W:3430	Iet Work - Concrete gain strength (4.9/+00mPD) Zone C Iet Work - Concrete gain strength (Zone C, +6.0/+18.3mPD) Iet Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) Iet Work - Remove formwork and falsework (Zone C, +6.0/+18.3mPD) Iet Work - ABWF Works 1stfixfor DOU installation (+6.0/+18.3mPD) Iet Work - ABWF Works 1stfixfor LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works 1stfixfor LVSB installation (+12.8/+18.3mPD) Iet Work - ABWF Works - Istfixfor LVSB installation (+12.8/+18.3mPD) Iet Works - NBWF Works - Sheetpile X House No. 1 - ELS Works - Sheetpile X House No. 1 - ELS Works - Excavation X House No. 1 - Structure Base slab at +3.8 mPD to +4.8 mPD *0T X House No. 1 - Structure Gafe to Roof from +6.0 mPD to +10.6 mPD oT X House No. 1 - Structure Gain strength roof slab (+116mPD) X House No. 1 - Structure Garanget wall +11.6 mPD to +12.7mPD X House No. 1 - Structure anaget wall +11.6 mPD to +12.7mPD X House No. 1 - Structure anaget wall +11.6 mPD to +12.7mPD	7 7 7 4 1 4 6 6 4 8 5 6 3	02_Jan-24 08_Jan-24 12_Jan-24 12_Jan-24 18-Dec-23 A 29-Dec-23 A 11_Jan-24 23_Jan-24 23_Jan-24 27_Jan-24 06-Feb-24 06-Feb-24 14-Feb-24 17-Feb-24	06-Jan-24 11-Jan-24 19-Jan-24 19-Jan-24 28-Dec-23 A 10-Jan-24 22-Jan-24 22-Jan-24 22-Jan-24 26-Jan-24 05-Feb-24 10-Feb-24 16-Feb-24	-104 -70 -104 -104 -104 -104 -104 -104 -104 -129 787 -106		hletWork - Remove formwork an InletWork - ABWF InletWork - ABWF X House No. 1 - ELS Works - Exec TX House No. 1 - ELS Works - Exec	d falsework (Zone C, +6.0/+18.3mPD) Works 1stfixfor DOU installation (+6.0/+18.3mPD) Works 1stfixfor LVSB installation (+12.8/+18.3mPD) skation at capping plate, blinding 1 - Structure Base slab at +3.8 mPD to +4.8 mPD to TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure G/F to Roof fin TX House No. 1 - Structure Sol - 1. Structure S	60 mPD "OT om +60 mPD b +116 mPD "OT strength roof slab (+116 mPD) Aure parapet weil +116 mPD to +127 mPD Ne formwork and falsework

PaulY 保華-中國中鐵聯營體 PAULY-CREC JOINT VENTURE

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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. 38- 3MRP (Dec 23)

Project ID : DWPr33\_230117r1 Layout : DC201910 MPR38-3MRP Page 4 of 9

42 31 07 14 21 2	43 28 05 12 19 26	44 02 9
SD11KV Switchgear - GRC cladding - fabrication		
CLP Substation No.	1 & 2 & DSD11KV Switchgear - GRC cladding - installation	on 
nce and mobilization of sheetpile	pp /1 283m2 60m2/Hav/iig 1 iig)	
Emergency Bypass Chamber - Sheet Piles Installati f Existing Emergency Bypass Chamber - Pumping te Iodification of Existing Emergency Bypass Chamber	ist	
Aodification of Existing Emergency Bypass Chamber	Excavation: 1stlayer +4.5 to +3.5mPD (253m3)	
PD)		
s and RC Works (-0.55 to +3.5 mPD) with S2 cast-in		
a and RC Works (-0.55 to +3.5 mPD) with S2 cashin of Slab of Falseworks, Formworks and RC Works (+3.5 Slab of Falseworks, Formworks and RC Works (+3.9 W(AD) - Remove formwork, concrete	5,95/+4.95 mPD) 5/+4.95 mPD)after S1 remove	
IW(A/D) - Remove formwork, concrete	defectworks	
WB - Concrete develop strength (IW Zone	A +4.95 slab)	
rks, Formworks and RC Works (+11.8mPD) Roof Slab of Falseworks, Formworks and RC Works (	+ 18.2mPD)	
2mPD)		
PD)*OT s and RC Works (+18.2mPD)		
IWS (A) - Wall Erection of Formworks a	nd RC Works (+7.84/+8.2mPD)	
Inlet Work - Concrete gain strength (-4.9/+0.0	)mPD)	
TX House No. 1 - BS & Tr		
	/ Progress Report - 3MRP	
Date		proved
31-Dec-23 Rev.	0	

Image: Constraint of the system           881         TX House No. 1 - E&M Handover           884         Works           -1750         IM - E&M Handover @ below +18.3mPD (Zone C)           -1760         IM - E&M Handover @ below +11.8mPD (Zone C)					38	39	40	41	42		43
-1750 W - E&M Handover @ below +18.3mPD (Zone C)	0	24-Feb-24		-106	03 10 17 24	<mark>31 07 14 21 28</mark>	8 04 11 18 25 ♦ TX Hou	03 10 17 24 use No.1 - E&MHandover	<u>31 07 14 21</u>	28 05	12 19 26
		in the second	1								
-1760 W - E&M Handover @ below +11.8mPD (Zone C)	0		19-Jan-24				@ below+18.3mPD (Zone C)				
	0		19-Jan-24 06-Mar-24	-65 -71		♦ W-E&MHandover	t@below+11.8mPD (Zone C)	♦ W-E&MHandover@below+18.3mPD (Z	one D) for interim scheme		
-1780 W - E&M Handover @ below +18.3mPD (Zone D) for interim scheme -01 System - 01 *	0		00-Mai-24	-/ 1							
-1170 LALG Instalation	45	20-Jan-24	15-Mar-24	-65				LALG Instalation			
-1250 DOU Equipment Installation	55	31-Jan-24	11-Apr-24	-65					DOU EquipmentInsta	allation	
ritch Room (W + PST)*											
-1270 LVSB Installation	36		05-Mar-24	-104			PLC Panel	LVSB Installation			
-1300 PLC Panel Installation -1310 Station Installation	25	20-Jan-24 29-Jan-24	21-Feb-24 12-Mar-24	-70			PLC Parlei	Station Installation			
-1320 UPS System	25	02-Feb-24	05-Mar-24	-75				UPS System			
1280 Incoming Cable Containment&Cabling Works from TX No.1 b LVSB	18		12-Mar-24	-104					Cabling Works from TX No. 1 to LVSB		
1290 Termination Works (TX to LVSB)	6	13-Mar-24	19-Mar-24	-87				Termination Works (	(TX to LVSB)	1	
Sedimentation Tank (PST)											
perstructure											
							ļ				
orks											
Stage 1 - GL H-I (Pump room and inlet channel)*           PST-RC WorksfortWall & Column (GL H-I, +2.95 to +7.835mPD)	8	27-Nov-23 A	31-Dec-23 A			PST-RC Worksfor Wall & Column (GLH-I, +2.95 to +7	835mPD)				
ST4642 PST-RC WorksforIntermediate Slab (GL H-I, +7.835mPD)	11					PST-RC Worksfor Intermediate Slab (GL H-I, +7.835n					
ST4652 PST - RC Worksforwall and 1/F slab (GL H-I, +7.835 to +11.75mPD)	11		13-Jan-24	-53			F slab (GL H-I, +7.835 to +11.75mPD)				
ST4662 PST-RC Worksforcolumn (GL H-I, +11.75 to +18.15mPD)	8		23-Jan-24	-43		PST-RCW	orksforcolumn (GLH-I, +11.75 to +18.15mPD)		<u>.</u>		
ST4672 PST - RC Worksforwall & roof slab (GL H-I, +11.75 to +18.15mPD)	12	18-Jan-24	31-Jan-24	-43			PST-RC Worksforwall & roof slab (GL H-I, +11.75	to +18.15mPD)			
Tightness Test for PST			10 T						¦		
T48 12 PST - Water Tightness Test4 (outlet)(water height=5.5m,bulkhead=3d,fill=2d,absoption=7d,test=		20-Nov-23 A		F0	PST - Water Tightness 1	Test 4 (outlet)(water height=5.5m,bulkhead=3d,fill=2d,absop		vaterheight=1m,bulkhead=2d;fill=1d,absoption=7d,test≕	7dramova=1d)⊛ +7.º	·····	
F4040 PST - Water Tightness Test5 (Inlet channel)(water height=1m,bulkhead=2d fill=1d,absoption=7d	l,test=7d,remove=1d) ( 18	15-Jan-24	03-Feb-24	-53	<u> </u>		PSI-vvater ligniness lest5 (inletchannel)(v	vater neignt= rm,puiknead=2d;fill=1d,absoption=/d,test=	(u)enove=10)@+1.8		
VF, E&M & T&C Pipeworks for Temp Pumping System								+			
rary Pumping Facilities for Conveying Sewage to New PST - Structure								1	<u>+</u>		
per A											
Temp. Pumping System - ChamberA - Structure (RC footing and steel tank wall)	30	04-Dec-23 A	20-Jan-24	-156		Temp. Pumping S	ystem - ChamberA - Structure (RC footing and steel	tank wall)	<u> </u>		
370 Temp. Pumping System - ChamberA - E&MInstallation and T&C	31		29-Feb-24	-156			1	Temp. Pumping System - ChamberA - E&MInstallation	nandT&C		
d Chamber of Zone 2A diversion	1										
470 Temp. Pumping System - Modified Chamber of Zone 2A diversion - ELS	12		03-Feb-24	-155			Temp. Pumping System - Modified Chamber		Adiumian Structure		
460 Temp. Pumping System - Modified Chamber of Zone 2Adiversion - Structure	18	05-Feb-24	28-Feb-24	-155				Temp. Pumping System - Modified Chamber of Zone 24	Auversion - Structure		
rary Pumping Facilities for Conveying Sewage to New PST - Pipeworks           380         Temp. Pumping System - Pipeworks (Stage 1)(DN800 inflow)	30	01-Nov-23 A	31-Jan-24	-134			Temp. Pumping System - Pipeworks (Stage 1)(DN	800 inflow)			
120 Temp. Pumping System - Pipeworks (Stage 1) (DN800 inflow+DN200x2 sludge&scum)	30		31-Jan-24 31-Jan-24	-134			Temp. Pumping System - Pipeworks (Stage 1)(DN Temp. Pumping System - Pipeworks (Stage 2)(DN				
<ul> <li>remp. Pumping System - Pipeworks (Stage 2)(DN800 inflow+DN200/2 studge&amp;scum)</li> <li>Temp. Pumping System - Pipeworks (Stage 4)(DN1000 outflow+DN200/2 studge&amp;scum) after</li> </ul>			29-Feb-24	-134				Temp. Pumping System - Pipeworks (Stage 4)(DN100	00 outflow+DN200x2 sludge&scum) after ma	ad div.atAGS	
130 Temp. Pumping System - Pipeworks (Stage 3) (DN800 outflow to modified chamber+DN200x2			08-Feb-24	-141				s (Stage 3)(DN800 outflow to modified chamber+DN200			
150 Temp. Pumping System - Pipeworks (Stage 1a)(DN1200 sewage pipe from Zone 1 Diversion to			31-Jan-24	-134	·			N1200 sewage pipe from Zone 1 Diversion to Chamber			
140 Temp. Pumping System - Pipeworks (Stage 6)(DN200x2 sludge&scum)	19	05-Feb-24	29-Feb-24	-156				Temp. Pumping System - Pipeworks (Stage 6)(DN200			
340 Temp. Pumping System - Pipeworks (Stage 5)(DN800 overflow)	10	19-Feb-24	29-Feb-24	-156				Temp. Pumping System - Pipeworks (Stage 5)(DN800	overflow)		
ge 1 - Early T&C											
Pumping System T&C *											
PST-6900 PST Stage 1 - Temp T&C for Decommision of Existing PST 1 Relia bility&Performance Test (Sew	ige) 14	17-Mar-24	30-Mar-24	-208					PST Stage 1 - Temp T&C for Decommision	of Existing PST T Relia billiy&Perior	rmance lest(Sewage)
ige1 itage1 - ABWF Works					+		·	+	<u>+</u>		
3, Outlet channel											
					1		j	1	<u></u>		
3365 PST Stage 1 - PST1 - Site clearance for handover	5	31-Oct-23 A	14-Nov-23 A		clearance for handover						
3125 PST Stage 1 - Screeding at PST 2		08-Nov-23 A			1-Screeding at PST 2			ļ	<u>.</u>		
3105 PST Stage 1 - Lining at PST 2	5	30-Nov-23 A	05-Dec-23 A	1	PSTStage 1-Lining at PST2						
3315 PST Stage 1 - Lining at PST 3		18-Nov-23 A	29-Nov 23 A		PST Stage 1 - Lining at PST 3						
t	5	10110V-23 A	20-110V-23 A					<u> </u>			
3345 PST Stage 1 - Lining at outlet channel (surface prep=1d,install=2d,testing=1d,clearance=1d)	5	18-Dec-23 A	03-Jan-24	-123		PST Stage 1 - Lining at outlet channel (surface pr	; ep=1d,install=2d,testing=1d,clearance=1d)				
above +11.8mPD									·····		
135 PST Stage 1 - ABWF Works (wall render:spray=1d,let-dry=5d) at +11.8/+18.15mPD	6	02-Jan-24	08-Jan-24	84		PST Stage 1 - ABWF Works (wall render					
165 PST Stage 1-ABWF Works (wall plaster:3coats) at +11.8/+18.15mPD	2		10-Jan-24	84		PST Stage 1 - ABWF Works (wall pla	Jíí				
175 PST Stage 1 - ABWF Works (floor screeding) at +11.8/+18.15mPD	3		13-Jan-24	84		PST Stage 1 - ABWF Works (flo					
185 PST Stage 1-ABWF Works (floor coating 3coats) at +11.8/+18.15mPD	3	15-Jan-24	17-Jan-24	84		PST Stage 1 - ABWF W	prks (floor coating:3coats) at +11.8/+18.15mPD	·····			
annel* 145 PST Stage 1_L ining a tiglet channel (surface pren=1d install=2d testing=1d clearance=2d)*	6	05-Feb-24	14-Feb-24	-52		-	DST Stage 1 Lining attr	etchannel (surface prep=1d,install=2d,testing=1d,cleara	ance=2d)*		
145 PST Stage 1 - Lining at inlet channel (surface prep=1d,install=2d,testing=1d,clearance=2d)* room*	6	00-rep-24	14-FeD-24	-52			For Stage I - Lining at Ir	יוסריה המווופו (סטוומטים אופא− וט,ווזסומו=2ט,ופsוווע= וט,Clear	unoc-2u)		
oom ^ 205 PST Stage 1 - Concrete gain strength (+7.835 slab)	7	02-Jan-24	09-Jan-24	-39		PST Stage 1 - Concrete gain strength	; (+7.835 slab)		·		
375         PST Stage 1 - Strike formwork and falswork, erectbackprop	8		18-Jan-24	-39			ormwork and falswork, erectbackprop				
385 PST Stage 1 - Site clearance for handover		05-Feb-24	06-Feb-24	-53	l		PST Stage 1 - Site clearance for hando	ver			
age 1 - E&M Installation Works											
1 (GLA-H, PST 1-3, Outlet Channel)		15.11							ļ		
PST-000 PST Stage 1 - E&M Handover @ below +11.8mPD (PST1)		15-Nov-23 A			lover@below+11.8mPD (PST1)						
PST-654 PST Stage 1 - E&M Handover @ below +11 8mPD (PST2)	0				<ul> <li>PST Stage 1 - E&amp;M Handover @ below +1</li> <li>PST Stage 1 - E&amp;M Handover @ below +1</li> </ul>			<u> </u>			
PST-687         PST Stage 1 - E&M Handover@ below +11.8mPD (PST3)           PST-676         PST Stage 1 - E&M Handover@ below +11.8mPD (outlet)		06-Dec-23 A 04-Jan-24		-123		<ul> <li>PST3)</li> <li>PSTStage 1 - E&amp;MHandover@below+11.8ml</li> </ul>	; PD (outlet)				
tage 1 - E&MInstallation Works at Setting Zone (PST 1-3)	U	5 <del>1</del> -Jan-24		-120	+		·····	+	<u> </u>		
							1		+		
1 - Inclined Plate Settling System									••••••••••••••••••••••••••••••••••••••		
ALPST-E PST Stage 1 - PST1 - Installation of Lamella support beam pre-assembled module(16nos.), Flun	ne(96nos.),plate(1152r 44	16-Nov-23 A	31-Jan-24	-173				ntbeam.pre-assembled module(16nos.),Flume(96nos.),	plate(1152nos.)		
T-3325 PST Stage 1 - PST1 - Installation of removable walkway at +9.2mPD	7	01-Feb-24	08-Feb-24	-173			PST Stage 1 - PST1 - Installation of				
ALPST-E PST Stage 1 - PST1 - Air Scouring Pipe and Nozzle Installation c/w pressure test& inspection	18		04-Mar-24	-167				PST Stage 1 - PST1 - Air Scouring Pipe and No			
ALPST-E PST Stage 1 - PST1 - Water Spray Pipe and Nozzle Installation of w pressure test & inspection	19	09-Feb-24	05-Mar-24	-167				PST Stage 1 - PST1 - Water Spray Pipe and I	NVOZZIE II ISIAIIAUUTI CIW pressure test & Inspec		
1 - Bottom Scraper System ALPST-{ Stage 1 - PST1 - Installation of bottom scraper frame, link arm and drive unit, leveling and ins	spection *OT works 17	19-Feb-24*	08-Mar-24	-170				PST Stage 1 - PST1 - Installation of both	om scraper frame, link arm and drive unit, lev	eling and inspection *OT worke	
ALPS1 < PS1 Stage 1 - PS11 - installation of boliom scraper frame, link arm and drive unit, leveling and inst ALPST < PST Stage 1 - PST1 - Wet Test (Fresh water) (7d) using temporary power	specion OTworks 17		16-Mar-24	-170					et Test (Fresh water) (7d) using temporary pov		
									(		
1 - Scum Collection System	ction platform level *O1 22	09-Feb-24	08-Mar-24	-170				PST Stage 1 - PST1 - Scum Scraper,Sci	um Collection Pipe & All other process pipev	work at inspection platform level *O*	т
1 - Scum Collection System ALPST-{ PST Stage 1 - PST1 - Scum Scraper,Scum Collection Pipe & All other process pipework at inspe		in the second second						······································	·····		
	Water Pipes, Air Pipe 32	19-Feb-24	26-Mar-24	-22				PSTS	tage 1 - PST1 - All other process pipes above	a 11.8 mPD/ including DO Pipes, Pla	ant Service Water Pipes, Air Pipe
1 - Compressors , Air blowers c/w associated fittings					I		]	]		· · · · · · · · · · · · · · · · · · ·	
1 - Compressors, Air blowers c lw associated fittings ALPST+ PST lage 1 - PST1 - All other process pipes above 11.8 mPD including DO Rpes, PlantService						T					
1 - Compressors, Air blowers c lw associated fittings  ALPST& PST Stage 1 - PST1 - All other process pipes above 11.8 mPD including DO Pipes, PlantService 2											
I 1 - Compressors , Air blowers c.lw associated fittings     ALPST { PST Stage 1 - PST1 - All other process pipes above 11.8 mPD including DO Pipes, PlantService     2     12 - LALG							, 1	,	- I		
1 - Compressors, Air blowers c.lw associated fittings     ALPST& PST Stage 1 - PST1 - All other process pipes above 11.8 mPD including DO Pipes, PlantService 2		Cant	ve ct					Project ID : DWPr33 230117r1	· N	Monthly Progress Re	eport - 3MRP
T1 - Compressors, Ar blowers c.W ass ociated fittings  TALPST { PST Stage 1 - PST1 - All other process pipes above 11.8mPD including DO Pipes, PlantService  T2 - LALG  Pauly Remaining Level		Cont	ract	DC/2	2019/10 - YLEPP	· · - Main Works for		Project ID : DWPr33_230117r1	<u>_</u>	Ionthly Progress Re	
TALPST { PST Stage 1 - PST1 - All other process pipes above 11.8mPD including DO Pipes, PlantService 2 T2 - LALG	of Ef					· · Main Works for lo. 38- 3MRP (De	r Stage T	Project ID : DWPr33_230117r1 Layout : DC201910 MPR38-3MR Page 5 of 9	<u>_</u>		eport - 3MRP Checked A

Activity ID Activity Name	Orig	Early Start	Early Finish	Total Float	December	January	February March	
nvenginz – Poletay nulliv	Dur	Luny otart	Luny i mon	1 otal 1 iout		39 31 07 14 21 2	40 41 18 04 11 18 25 03 10 17 24	±,
ATALPST: PST Stage 1-LALG-PST2	23	27-Nov-23 A	05-Jan-24	-58		PST Stage 1 - LALG-PST2		<u> </u>
PST 2 - Inclined Plate Settling System								
ATALPST-{ PST Stage 1 - PST2 - Installation of Lamella support beam pre-assembled module(16nos.) Flume(96nos.) plate(1152r	45 7	06-Jan-24	01-Mar-24	-55			PST Stage 1 - PST2 - Installation of Lamella support	
PST3355 PST Stage 1 - PST2 Installation of removable walkway at +92mPD ATALPST4 PST Stage 1 - PST2 - Air Scouring Pipe and Nozzle Installation c/w pressure test& inspection	18	02-Mar-24 11-Mar-24	09-Mar-24 03-Apr-24	-55 -26				mova
ATALPST-{ PST Stage 1 - PST2 - Water Spray Pipe and Nozzle Installation c/w pressure test & inspection	18	11-Mar-24	03-Apr-24	-26				
PST2-Bottom Scraper System								
ATALPST-{ PST Stage 1 - PST2 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection	45	11-Mar-24	07-May-24	-53				
PST2-Scum Collection System ATALPST4 PST Stage 1 - PST2 - Scum Scraper, Scum Collection Pipe & All other process pipework at inspection platform level	26	11-Mar-24	12 Apr 24	-34				<u></u>
PST 2 - Compressors. Ar blowers c wassociated fittings	20	11-IVid1-24	13-Apr-24	-34				
ATALPST- F PST Stage 1 - PST2 - All other process pipes above 11.8 mPD including DO Pipes, Plant Service Water Pipes, Air Pipe	26	02-Mar-24	05-Apr-24	-27				÷
PST3								
PST 3 - LALG								
ATALPST-{ PST Stage 1-LALG-PST3 PST 3 Inclined Plate Softing Sustam	23	16-Nov-23 A	18-Dec-23 A		PST Stage 1 - LALG	2513		
ATALPST-{ PST Stage 1 - PST3 - Installation of Lamella support beam pre-assembled module(16nos.)Flume(96nos.)plate(1152r	45	19-Dec-23 A	31-Jan-24	-39			PST Stage 1 - PST3 - Installation of Lamella support beam.pre-assembled module(16nos.),Flume(96nos.	.),plate
PST3335 PST Stage 1 - PST3 Installation of removable walkway at +92mPD	7	01-Feb-24	08-Feb-24	-39			PST Stage 1 - PST3 Installation of removable walkway at +9.2mPD	
ATALPST- PST Stage 1 - PST3 - Air Scouring Pipe and Nozzle Installation c/w pressure test& inspection	15	09-Feb-24	29-Feb-24	-8			PST Stage 1 - PST3 - Air Scouring Pipe and Nozzle I	
ATALPST- F PST Stage 1 - PST3 - Water Spray Pipe and Nozzle Installation of w pressure test & inspection	15	09-Feb-24	29-Feb-24	-8			PST Stage 1 - PST3 - Water Spray Pipe and Nozzle	Install
PST3 - Bottom Scraper System ATALPST4   PST Stage 1 - PST3 - Installation of bottom scraper frame, link arm and drive unit, leveling and inspection	45	09-Feb-24	09-Apr-24	-38				
PST 3 - Scum Collection System	40	00-1 00-24	001101-24	-00				
ATALPST-{ PST Stage 1 - PST3 - Sourn Scraper, Sourn Collection Pipe & All other process pipework at inspection platform level	27	09-Feb-24	14-Mar-24	-20			PST Stage 1 - PST3 - Scurr	n Scra
PST 3 - Compressors , Air blowers c /w associated fittings								
ATALPST + PST Stage 1 - PST3 - All other process pipes above 11.8 mPD including DO Pipes, Plant Service Water Pipes, Air Pipe	27	01-Feb-24	06-Mar-24	-5			PST Stage 1 - PST3 - All other process pip	esab
PSTStage 1 - Outlet Channel ATALPST-55: PST Stage 1 - Unloading of Stoplogs&Penstocks x23 Nos	9	04-Jan-24	13-Jan-24	-123		PST Stage 1 - Unloading of S	holoas&Penslocks x23 Nos	<b>.</b>
ATALPS1-55: PS1 Stage 1 - Unloading of Stoplogs&Pensiocks x23 Nos ATALPST-68I PST Stage 1 - Installation of Stoplogs x2 Nos. & Penstocks x2 Nos. for Early PST1T&C (5d/no.gang, 2gang)	9 13	04-Jan-24 04-Jan-24	13-Jan-24 18-Jan-24	-123			ation of Stoplogs x 2 Nos. & Penstocks x 2 Nos. for Early PST1 T&C (5d/no./gang, 2gang)	
ATALPST-55i PST Stage 1 - Installation of Penstocks x 1 Nos (5d/no.)	5	19-Jan-24	24-Jan-24	19			el 1 - Installation of Penstocks x 1 Nos (5d/no.)	
ATALPST-55/ PST Stage 1 - Installation of Stoplogs x 18 Nos. (5d/no./gang, 2gang)	45	19-Jan-24	14-Mar-24	-26			PST Stage 1 - Installation of	f Stop
ATALPST-55 PST Stage 1 - Inspection & Grouting of Penslocks x1 Nos	2	25-Jan-24	26-Jan-24	19		PSTS	tage 1 - Inspection & Grouting of Penstocks x1 Nos	ļ
ATALPST-561 PST Stage 1 - Leakage test - Combining Stoplogs/Pensbocks ATALPST-551 PST Stage 1 - Inspection & Grouting of Stoplogs x18 Nos.	51 20	29-Jan-24 29-Feb-24	03-Apr-24 22-Mar-24	-26 -26			PST State 1	- Insr
Phase 2 (GL H-I, (Inlet Channel, Pump Room) Handover for PST early commissioning*	20	201 00-24	22-1001-24	-20				
ATALPST-667 PST Stage 1 - E&M Handover +11.75mPD & above (GLH-I Inletchannel)	0	01-Feb-24		-9			PST Stage 1 - E&MHandover +11.75mPD & above (GLH-l Inletchannel)	1
ATALPST-655 PST Stage 1 - E&MHandover below +7.835mPD (GLH-I, pump room)	0	07-Feb-24		-53			PST Stage 1 - E&M Handover below +7.835mPD (GLH-I, pump room)	
ATALPST-656 PST Stage 1 - E&MHandover +7.835mPD (GLH-I, Inletchannel)	0	15-Feb-24		-52			PST Stage 1 - E&M Handover +7.835mPD (GLH-I, Inletchannel)	
PSTStage 1 - Inlet Channel * ATALPST-54i PST Stage 1 - Unloading of Stoplogs & Penstocks x14 Nos.	6	15-Feb-24	21-Feb-24	-52			PST Stage 1:-Unloading of Stoplogs & Penstocks x14 Nos.	
ATALPST-54! PST Stage 1 - Installation of Penstocks x5 Nos(5d/no./gang, 1gang)	25	15-Feb-24	14-Mar-24	-55			PST Stage 1 - Installation of	fPen
ATALPST-55 PST Stage 1 - Installation of Stoplogs x 9 Nos.(5d/no./gang,2gang)	26	15-Feb-24	15-Mar-24	-22			PST Stage 1 - Installation	
ATALPST-55- PST Stage 1 - Channel Aeration System installation	34	15-Feb-24	25-Mar-24	-28			PST St	
ATALPST-55: PST Stage 1 - Inspection & Grouting of Stoplogs x9 Nos. ATALPST-55: PST Stage 1 - Inspection & Grouting of Penstocks x5 Nos	18 15	27-Feb-24 06-Mar-24	18-Mar-24 22-Mar-24	-22 -26			PST Stage 1 - Inspe	
ATALPST-55: PST Stage 1 - Leakage test - Combining Stoplogs/Penstocks	12	18-Mar-24	03-Apr-24	-26				- 110
PSTStage 1 - Pump Room*								
ATALPST-56 PST Stage 1 - LALG Works	14	07-Feb-24	26-Feb-24	-50			PST Stage 1 - LALG Works	
ATALPST-56. PST Stage 1 - PST Drain age Pipe	24	27-Feb-24	25-Mar-24	-53			PSTSt	age 1
ATALPST-56: PST Stage 1 - Studge Pumps & Grinder x 10 Sets ATALPST-56: PST Stage 1 - Scum Pumps & Drainage Pumps x9 Sets	24 24	26-Mar-24 26-Mar-24	26-Apr-24 26-Apr-24	-52 -52				
PSTStage 1 - Compressors , Air blowers clwas sociate dfittings	24	2011/01-24	20%01-24	-02				
ATALPST-67 PST Stage 1 - GLH-I-All other process pipes above 11.8 mPD including DO Pipes, Plant Service Water Pipes, Air Pipe	31	01-Feb-24	11-Mar-24	-9			PST Stage 1 - GLH-I-All other pi	roces
PSTStage 1 - Electrical Works (PST1-3, Inlet/Outlet Channel&Pump Room)								
ATALPST-56 PST Stage 1 - Cable Containment Installation - LVSB@W to Equipment	26 26	07-Mar-24	10-Apr-24	-70				
ATALPST-56 PST Stage 1 - Local Control Panel Installation ATALPST-56 PST Stage 1 - Cabling Works	26	14-Mar-24 14-Mar-24	17-Apr-24 17-Apr-24	-04				
ATALPST-56: PST Stage 1 - Termination Works	26	21-Mar-24	24-Apr-24	-70				
PST Stage 1 - Instrumentation & SCADAWorks (PST 1-3, Inlet/Outlet Channel & Pump Room)								
ATALPST-57: PST Stage 1 - Cable Containment Installation - LVSB@IW to Equipment	38	15-Feb-24	02-Apr-24	-52				<u> </u>
ATALPST-57: PST Stage 1 - Cabling Works ATALPST-57: PST Stage 1 - Termination Works	38 40	15-Feb-24 05-Mar-24	02-Apr-24 24-Apr-24	-52				
ATALISTS PST Stage 1 - Instrument Installation & Inspection	38	26-Mar-24	14-May-24	-70				
PST Stage 1 - T&C Works								1
PST Stage 1 - T&C Works (PST 1-3, hiet / Outlet Channel & Pump Room)								
Phase 1 - PST 1-3 Sub-System Physical Dry Check	40	02 14-01	02.14-1.04	70				
ATALPST-58: PST Stage 1 - SCADA- VO Point Test (notrequired for interim scheme T&C) ATALPST-58 PST Stage 1 - Electrical - Megger Test	48 29	02-Mar-24 18-Mar-24	02-May-24 24-Apr-24	-70 -70				
External Works - Inlet Work and Primary Sedimentation Tank Perimeter	20		,					
WPST External Works - Zone A (Transformer House No.1)							1	-+
Stage 1 (KD3)								
EW-1610 MV/PST Perimeter - Zone A&B - Haul road formation at +4mPD	16	08-Dec-23 A		25	W/PST Per	meter - Zone A&B - Haul road formation at +4mPD	Pl V duction	
EW-1570 W/PSTPerimeter - Zone A&B - HV/LV/ELV ducting EW-1710 W/PSTPerimeter - Cabling works from DSD11kV to Tx1	6	25-Dec-23 A 13-Jan-24	08-Jan-24 19-Jan-24	-35 -39		W/PST Perimeter - Zone A&B - HV/LV/	ELV ducting Cabling works from DSD11kV to Tx1	
Sludge Dewatering Building (SDB)							· · · · ·	+
SDB Foundation & ELS - Stage 1								
SDB Preliminaries for Foundation Works								
Demolition of Existing PST1, 2, 3, 4								
SDB-1880 SDB - Trial pittrench and UU Diversion for sheetpile and driven h-pile works Demolitien of Existing PST4	96	04-Dec-23 A	28-Mar-24	14			S	DB-
Demolition of Existing PST4           SDB-2020         SDB - Pipe pile strengthening works for steel deck for road diversion at AGS Zon e C	8	12-Jan-24*	20-Jan-24	-156		SDR - Pine nile d	i trengthening works for steel deck for road diversion at AGSZon eC	
SDB-2020         SDB - Fripe pile stering mening works to seen deck to inded diversion at AGS zone C           SDB-2000         SDB - Erection of steel deck for road diversion at AGS zone C	12	22-Jan-24	03-Feb-24	-156			SDB - Erection of steel deck for road diversion at AGS Zone C	
SDB-1320 SDB - Pipe plug at Existing PST 4	6	29-Jan-24*	03-Feb-24	147			SDB - Pipe plug at Existing PST4	
SDB-2010 SDB - Road diversion at AGS Zone C	2	09-Feb-24	14-Feb-24	141			SDB - Road diversion at AGS Zone C	
SDB-1100         SDB - Demolition of Existing PST 4 "overtime works           SDB-1800         SDB - Backfilling of Existing PST 4	25 6	15-Feb-24	14-Mar-24 21-Mar-24	141			SDB - Demolition of Existing SDB - Backfilli	
SDB-1800 SDB - Backfilling of Existing PST4 SDB GI-Pre-drilling Works	U	15-Mar-24	∠ 1-1Vid1-24	141	1		SDB-BACKIIII	90
SDBAt PST4 and Existing Road							1	
SDB-1360 SDB-PD5 w/ obstruction (PST4) relocated	12	31-Oct-23 A	15-Nov-23 A		(PST4) relocated			
SDB-1290 SDB-PD7 relocated	12	16-Nov-23 A	02-Dec-23 A	40	SDB-PD7 relocated		minorated	
SDB-1030 SDB-PD22 relocated SDBAtPST1,23 Footprint	12	10-Jan-24	23-Jan-24	43		SDB-PD22	ipinualipu	
SDB-1090 SDB-PD24 w/obstruction (PST1) relocated	12	16-Nov-23 A	08-Dec-23 A		SDB-PD24 w/obstruction (PST1) reloc	ted	1	
						<b>E</b>	· · · · · · · · · · · · · · · · · · ·	
Remaining Level of Ef							Project ID : DWPr33 230117r1	



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. 38- 3MRP (Dec 23) Project ID : DWPr33\_230117r1 Layout : DC201910 MPR38-3MRP Page 6 of 9

	April 42				Ma 43			June 44
31 0	42 07   14	21	2	28 05	43	19	26	02 9
			]					
am,pre-assem	nbled module(16nos.	),Flume(9	6nos.).r	late(1152nos.)				
vable walkway								
PST Stag	ge 1 - PST2 - Air Scou	ring Pipe	and No	zzle Installation c/	w pressure	est& inspecti	on	
PST Stag	ge 1 - PST2 - Water Sp	oray Pipe	and No	zzle Installation c/	wpressure	test& inspecti	on	
				PS	T Stage 1 -	PST2 - Installa	ation of botton	n scraper frame,
	PST Stage 1	- PST2 -	Scum S	Scraper,Scum Col	lection Pipe	& All other pr	ocess pipewo	rk at inspection p
DST	Stage 1 - PST2 - All ot		cc ninor	above 11 8mPD	including		ntSonvico Wh	tor Dinoc Air Din
1010	Sidge 1 - 1 5 12 - Airoi		ss pipes	above monific				ilerripes, Airrip
ate(1152nos.)								
	ssure test & inspection							
allation c/w pres	ssure test & inspection	1						
	PST Stage 1 - PST3	R - Installat	tion of h	ottom scraper fra	ne link arm	and drive un	it leveling and	inspection
	1010Ege 141010							
raper,Scum Co	ollection Pipe & All oth	er proces	s pipew	ork at inspection p	olatform lev	el		
above 11.8 mP	D including DO Pipes	s, Plant Se	ervice W	ater Pipes, Air Pip	e 			
plogs x18 Nos	s. (5d/no./gang, 2gang	<u>a)</u>						
PST Stan	ge 1 - Leakage test - C	ombining	Stoplo	gs/Penstocks				
	uting of Stoplogs x18							
	s(5d/no./gang, 1gang							
	eration System install							
	f Stoplogs x9 Nos.							
	uting of Penstocks x5							
PST Stag	ge 1 - Leakage test - C	ombining	j Stoplo	gs/Penstocks				
1-PSTDraina	age Pipe							
				Stage 1 - Sludge F				
			PST	Stage 1 - Scum Pu	Imps & Dra	inage Pumps	x9 Sets	
ess pipes above	e 11.8 mPD including	DO Pipe	s, Plant	Service Water Pip	es,Air Pipe			
		··		·····				
	PST Stage 1 - Cal					uipment		
		Stage 1 -		ontrol Panel Insta	llation			
	101		9	e 1 - Termination	Works			
	1 - Cable Containme 1 - Cabling Works	ntInstalla	ition - LV	SB@W to Equip	ment			
FSTSlaye		P	STStad	e 1 - Termination	 Works			
						ST Stage 1 - Ir	nstrument Inst	allation & Inspec
				PST Stage 1	-SCADA-	VO Point Test	(notreguired	for interim schen
		P	ST Stag	e 1 - Electrical - M	eggerTest			
- Trial pit/trench	and UU Diversion for	rsheetpile	e and dr	iven h-pile works				
ST4 *overtime								
of Existing PST	4							
		Мо	nthly	Progress	Repo	ort - 3M	RP	
, I	Date	1		Revision		Check		oproved
-						CICCA		-pi oveu
	31-Dec-23		Rev.	U				

Activity ID	Activity Name	Orig	Early Start	Early Finish	Total Float	De cember	January	February	March 41	April	May Ju
		Dur						28 04 11 18 2	5 03 10 17 24 31	07 14 21	43 44 28 05 12 19 26 0
SDB-1140	SDB-PD16 w/ obstruction (PST1) relocated	_	04-Dec-23 A				struction (PST1) relocated				
SDB-1120 SDB-1110	SDB-PD13 w/obstruction (PST3) relocated SDB-PD11 w/obstruction (PST1) relocated	12 12	09-Dec-23 A 21-Dec-23 A	25-Dec-23 A 09-Jan-24	43	SDB-P	SDB-PD11 w/obstruction (PST1) relocated	ocated			
SDB-1070	SDB-PD15 w/obstruction (PST1) relocated	12	26-Dec-23 A	15-Jan-24	50		SDB-PD15 w/obstruction				
SDB-1370	SDB-PD2 w/obstruction (PST2) relocated	12	16-Jan-24	29-Jan-24	50			SDB-PD2 w/obstruction (PST2) relocated			
SDB-1160	SDB-PD18 w/obstruction (PST3) relocated	12	24-Jan-24	06-Feb-24	43			SDB-PD18 w/obstruction (PST3) relo	<b>.</b>		
SDB-1130	SDB-PD14 w/obstruction (PST3) relocated	12	30-Jan-24	15-Feb-24	50	<u> </u>		SDB-PD14 w/obstru			
SDB-1150	SDB-PD17 w/obstruction (PST3) relocated	12	07-Feb-24	23-Feb-24	43			SDB-F	1217 w/obstruction (PST3) relocated		
	-PST14 Footprint Ion - Driven H-Pile										
SDB-1930	SDB - H-piles Testing (Early piling along acess road in 2023 piling season)	10	01-Nov-23 A	18-Nov-23 A		ty (Early piling along acess road in 2023 piling season)		-			
SDB-1920	SDB - Driven H-piles mobilization	_	22-Mar-24	28-Mar-24	141				SDB - Driven H-	piles mobilization	
External Works											1
	s Tai Tseng Wai Nullah										
CLP-1410	Wa kwa y - Site clearance	20	01-Nov-23 A	23-Dec-23 A		Wakway-S	e clearance				
CLP-1700	Wakway-Predril (2nos. MA-PD2 and MA-PD3)		21-Nov-23 A	23-Dec-23 A		Wakway-f	redrill (2n os. MA-PD2 and MA-PD3)				
CLP-1570	Wakway-Predril (1nos. MA-PD1)	12	02-Jan-24	15-Jan-24	671	<u>.</u>	Wakway-Predril (1 nos.)	/APD1)			
Zone 2 Const	ruction										
Demolition Wo	rks										
	Pumping Stations										
Auxilliary Pumpir			045104	00.14	170						
	Demolition of AuxiliaryPumping Station (19) below ground silentmethod	60	24-Feb-24	09-May-24	-176						Demolition of Auxiliary Pumping Station (19)be
	p-Reactor & Auxillary Facility (MBR and AF)										
MBR and AF Str	vation & Demoition stage 2										-++
	MBR -Pumping test(Stage 1) dewater to FEL (-9mPD)	7	15-Jan-24	22-Jan-24	-188		MBR - Pump	bing test (Stage 1) dewater to FEL (-9m PD)			+
	MBR - Preloading Strut S2 (5 cycles, 5 struts/cycle/day)	5	19-Feb-24	23-Feb-24	-188				Preloading Strut S2 (5 cycles, 5 struts/cycle/day)		
	MBR - Preloading Strut S3 (5 cycles, 5 struts/cycle/day)	5	19-Mar-24	23-Mar-24	-188				MBR - Preloading Strut S	3 (5 cycles, 5 struts/cycle/day)	
MBR - ELS Z											
Excavation an											
	MBR - Zone A- Monitoring and pumping installation (after backfill) (20nos, 1.5nos/d/rig, 2rigs)	7		13-Jan-24	-188	for El Sworks	MBR - Zone A- Monitoring an	od pumping installation (after backfill) (20nos., 1.5no	suqung, zngs)		-+
	MBR - Zone A-Site mobilization for ELS works MBR - Zone A-StrutInstallation S1 (+525mPD)(1 crane, 8welders, 24ton/d)	12 24	01-Nov-23 A 08-Nov-23 A	11-Nov-23 A 13-Jan-24	-188	for ELS works	MBR - Zone A - Strittestalati	on S1 (+5.25mPD)(1 crane, 8welders, 24ton/d)			+
	MBR - Zone A- Installation of steel deck	14	15-Jan-24	30-Jan-24	-188			MBR - Zone A-Installation of steel deck			
	MBR - Zone A- ELS Excavate (+4.2 to +1.75mPD)(6370m3)(3-4 excavators, 500m3/d)	13	24-Jan-24	07-Feb-24	-188				to:+1.75mPD)(6370m3)(3-4 excavators, 500m3/d)		
	MBR - Zone A- StrutInstallation S2 (+2.3mPD)(1 crane, 8welders, 24ton/d)	10	03-Feb-24	17-Feb-24	-188	¦		MBR - Zone A- S	trut Installation S2 (+2.3mPD)(1 crane, 8welders, 24ton/d)		
MBRAF-3280	MBR -Zone A-ELS Excavate (+1.75 to to -1.25mPD)(7800m3) (3-4 excavators, 500m3/d)	16	24-Feb-24	13-Mar-24	-188				MBR -Zone A-ELS Excavate (+1.75 to to -		
	MBR - Zone A- StrutInstallation S3 (-0.7mPD)(1 crane, 8welders, 24ton/d)	10	07-Mar-24	18-Mar-24	-188				MBR - Zone A - Strut Installation S3		
	MBR - Zone A-ELS Excavation (-1.25 to -4.15mPD) (7540m3) (3-4 excavators, 500m3/d) *MD	15	25-Mar-24	15-Apr-24	-186					MBR - Zone A - ELS Exc	cavation (-1 25 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) */
MBR - ELS Z	one B										
Excavation	MRP Zone R. Monitoring and numbing installation (offer backfill) (10nos, 15nos (dia, 1ria)	7	13-Nov-23 A	13-Jan-24	-188		MBR - Zone B - Monitoring an	nd pumping installation (after backfill) (10nos., 1.5nos	(dria 1ria)		
	MBR - Zone B - Monitoring and pumping installation (after backfill) (10nos., 15nos./d/rig, 1rig) MBR - Zone B - ELS Excavation (+5.8 to +4.7mPD) (2080m3) (3.4 excavators, 500m3/d) remaining unexcavated area	5	07-Dec-23 A	02-Jan-24	-100			)(2080m3)(3-4 excavators, 500m3/d) remaining une			
	MBR - Zone B - Strut Installation S1 (+5.25mPD)(1 crane, 8welders, 24ton/d)		22-Dec-23 A	02-Jan-24	-188		MBR - Zone B - Strut Installation S1 (				+
	MBR - Zone B - Installation of steel deck	12	10-Jan-24	23-Jan-24	-188			e B - Installation of steel deck			
MBRAF-3540	MBR - Zone B - ELS Excavate (+4.2 to +1.75mPD)(6370m3)(3-4 excavators, 500m3/d)	13	24-Jan-24	07-Feb-24	-188			MBR - Zone B - ELS Excavate (+4.2	to +1.75mPD)(6370m3)(3-4 excavators, 500m3/d)		
	MBR - Zone B - Strut Installation S2 (+2.3mPD)(1 crane, 8welders, 24ton/d)	10	03-Feb-24	17-Feb-24	-188			MBR - Zone B - S	trut Installation S2 (+2.3mPD)(1 crane, 8welders, 24ton/d)		
	MBR -Zone B - ELS Excavation (+1.75 to -1.25mPD)(7800m3)(3-4 excavators, 500m3/d)	16	24-Feb-24	13-Mar-24	-188				MBR - Zone B - ELS Excavation (+1.75 to -1		
	MBR - Zone B - Strut Installation S3 (-0.7mPD)(1 crane, 8welders, 24ton/d)	10	07-Mar-24	18-Mar-24	-188				MBR - Zone B - Strut Installation S3	3 (-0.7mPD)(1 crane, 8welders, 24ton/d)	^
MBRAF-3290 MBR - ELS Z	MBR - Zone B - ELS Excavation (-125 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *MD	15	25-Mar-24	15-Apr-24	-188					MBR -Zone B - ELS Ext	xcavation (-1.25 to -4.15mPD)(7540m3)(3-4 excavators, 500m3/d) *1
Excavation						÷					
	MBR - Zone C - ELS Excavation (+5.8 to +4.7mPD) (3840m3) (3-4 excavators, 500m3/d)	8	06-Nov-23 A	09-Dec-23 A		MBR - Zone C - ELS Excavation (+5.	8 to +4.7mPD) (3840m3) (3-4 excavators, 500m3/d)				·†····
MBRAF-3140	MBR -Zone C - Strut Installation S1 (+5.25mPD)(1 crane, 10welders, 24ton/d)	12	17-Nov-23 A	14-Dec-23 A		MBR - Zone C - Strut Install	aion S1 (+5.25mPD)(1 crane, 10welders, 24ton/d)				
MBRAF-2500	MBR - Zone C - Installation of steel deck	14	02-Jan-24	17-Jan-24	-184		MBR - Zone C - Installa				
	MBR - Zone C - ELS Excavation (+4.7 to +1.75mPD) (5880m3) (3-4 excavators, 500m3/d)	12	23-Jan-24	05-Feb-24	-188				o +1.75mPD) (5880m3) (3-4 excavators, 500m3/d)		
	MBR - Zone C - Strut Installation S2 (+2.3mPD)(1 crane, 10welders, 24ton/d)	12	01-Feb-24	17-Feb-24	-188			MBR - Zone C - S	trut Installation S2 (+2.3mPD)(1 crane, 10welders, 24ton/d)		
	MBR - Zone C - ELS Excavation (+1.75 to -1.25mPD) (7200m3)(3-4 excavators, 500m3/d) MBR - Zone C - Strut Installation S3 (-0.7mPD)(1 crane, 10welders, 24ton/d)	15 12	24-Feb-24 05-Mar-24	12-Mar-24 18-Mar-24	-188 -188				MBR -Zone C - ELS Excavation (+1.75 to -1.2	25mPD) (7200m3)(3-4 excavators, 500m 3 (-0.7mPD)(1 crane, 10welders, 24ton/d)	
	MBR - Zone C - ELS Excavation (-1.25 to -4.15mPD) (6960m3)(3-4 excavators, 500m3/d) *MD	12	25-Mar-24	09-Apr-24	-186						-1.25 to -4.15mPD) (6960m3)(3-4 excavators, 500m3/d) *MD
	nent System (TTS)		-								
TTS Foundation											
Kingpost and Wo	rking Platform										1
TTS-2170	TTS - Kingpostproof drill (IKP13)	12	01-Dec-23 A	14-Dec-23 A		TTS - Kingpostproof drill (IK		]			
TTS-2160	TTS - Kingpostdemobilization	2	15-Dec-23 A	18-Dec-23 A		TTS - Kingpostdem					
TTS-1880	TTS - Installation of steel deck (Eastportion)	12	11-Jan-24	24-Jan-24	-187	l	TTS-Inst	allation of steel deck (Eastportion)	5/h)		·
TTS-2150 Monitoring and P	TTS - Installation of steel deck (Westportion)	10	25-Jan-24	05-Feb-24	-187	l	·	TTS - Installation of steel deck (Westpor	uuni)		
TTS-2110	umping TTS - Monitoring and pumping installation (Repair works) (DWx20, OWx19, 1.5no./d/rig, 2rig)	20	27-Nov-23 A	27-Jan-24	-187	·····	TTS	Monitoring and pumping installation (Repair works	) (DWx20, OWx19, 1.5no /d/rig, 2rig)		
TTS-1850	TTS-Pumping test	7	29-Jan-24	05-Feb-24	-187			TTS-Pumping test			
TTS Foundation a						<u> </u>					
TTS ELS											
TTS-2030	TTS - ELS Excavation (+5.0 to +3.1mPD) (2548m3)(3-4 excavators/WF,1 WF,400m3/d/WF) (Zone 3 SE)	_	06-Nov-23 A	18-Nov-23 A		on (+5.0 to +3.1mPD) (2548m3)(3-4 excavators/WF,1 W					
TTS-1030	TTS - Strut Installation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30bn/d) (Zone 1 NE)	18	11-Nov-23 A	22-Dec-23 A			allation S1 (+3.65mPD)(2 cranes, 8 welders per WF, 2 W				-+
TTS-2120 TTS-2100	TTS - StrutInstallation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30bn/d) (Zone 3 SE) TTS - ELS Excavation (+5.0 to +3.1mPD) (1274m3)(3-4 excavators/WF,1 WF,400m3/d/WF) (Zone 2 NW)	18 7	20-Nov-23 A 29-Nov-23 A	22-Dec-23 A 06-Dec-23 A	-		allation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 W 1274m3)(3-4 excavators/WF,1 WF,400m3/d/WF) (Zone 2				
TTS-2100	TTS - ELS Excavation (+5.0 to +3.1 mPD) (12/4m3)(3-4 excavators/wF,1 WF,400m3/d/WF) (20ne 2 NW) TTS - StrutInstallation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30 to //d) (Zone 2 NW)	18	29-Nov-23 A 04-Dec-23 A	22-Dec-23 A			allation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 W				
TTS-2040	TTS - Stutinisaliaion S1 (+3.05 mPD) (2548m3)(34 excavators/WF,1 WF,400m3/d/WF) (Zone 4 SW)	10	14-Dec-23 A	22-Dec-23 A 23-Dec-23 A			cavation (+5.0 to +3.1mPD) (2548m3)(3-4 excavators/				
TTS-2140	TTS - Strut Installation S1 (+3.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30bn/d) (Zone 4 SW)	18	22-Dec-23 A	15-Jan-24	-179			+3.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30tc	n/ġ) (Zone 4 SW)		
TTS-1040	TTS - ELS Excavation (+3.1 to +1.15mPD) (14,158m3) (3-4 excavators/WF, 2 WFs, 600m3/d/WF)	12	06-Feb-24	22-Feb-24	-187			1	S Excavation (+3.1 to +1.15mPD) (14,158m3) (3-4 excavators WF, 2 WF		
TTS-1050	TTS - Strut Installation S2 (+1.65mPD)(2 cranes, 8welders per WF, 2 WFs, 30ton/d)	15	14-Feb-24	01-Mar-24	-187	li			TTS - Strut Installation S2 (+1.65mPD)(2 cranes, 8welders per WF,		
TTS-2050	TTS - Preloading StrutS2 (+1.65mPD)(4 cycles, 4 struts/cycle/day, 16 struts)	4	02-Mar-24	06-Mar-24	-187	l			TTS - Preloading Strut S2 (+1.65mPD)(4 cycles, 4 struts/c		
TTS-1060	TTS - ELS Excavation (+1.15 to -1.35mPD) (14,158m3)(3-4 excavatorsWF,2 WFs,600m3/dWF) *MD/PD	12	07-Mar-24	20-Mar-24	-187		·····			-1.35mPD) (14,158m3)(3-4 excavators/	
TTS-1270	TTS - Strut Installation S3 (-0.85mPD)(2 cranes, 8 welders per WF, 2 WFs, 30 ton/d)	15	12-Mar-24	28-Mar-24	-187		•		iis-strutinstall	lation S3 (-0.85mPD)(2 cranes, 8welders	. μοι ττι , 2 ττις, 30001/0)
Zone 3 Const											
Zone 3 North P						·····					
	ckening Building (STB)										
STB : Foundation											
Z3S3-3800	le and Preboring STB - Sheetpile Installation (remaining after demolition of AFTpump pit) (604m2,90m2td/rig, 1rig)	26	01-Nov-23 A	16-Dec-23 A		STB - Sheetpile Installat	on (remaining after demolition of AFTpump pit) (604m2,	90m2/d/rig, 1rig)			
Z3S3-3800 Z3S3-6130	STB - Sneetpile Installation (remaining after demolition of AFT pump pit) (604m2, 90m2/drig, 1ng) STB - Sheetpile Installation (remaining after demolition of AFT underground structure)	26	01-NOV-23 A 11-Jan-24	16-Dec-23 A 15-Jan-24	-54	GID - Oneetpine il Istellat		v (remaining after demolition of AFT underground st	udture)		+++++++
Z3S3-5860	STB-Sheepile Installation (remaining after road diversion at UC5)		24-Jan-24	02-Feb-24	-79	1		STB - Sheetpile Installation (remaining after r			
				,	, -	Li.			· · ·		
Det	Remaining Level of Ef		<b>^</b> 1						Project ID : DWPr33_230117r1	Month	ly Progress Report - 3MRP
Pau			Cont	ract	DC/	2019/10 - YLEPP	- main works to	r Stade 1	_	Date	Revision Checked Approv
	Actual Work							•	Layout : DC201910 MPR38-3MRP		
	Remaining Work		NA.	onthl	V Dr	ogress Report N	U 38 3WDD /U	ac 23)	Page 7 of 9	31-Dec-23 Rev	V. U
保茜-	th left rth Alk Thá ASL Am		IVI	UIUI	יא דו	ogiess repuit n	0.30 JUT JUNCE (D				
	た 図 中 蹴 柳 省 11 団 Critical Remaining Work CREC JOINT VENTURE				-		•	-			
TAUL I	♦ ♦ Milestone										

STB : Monitori	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	De cember 38	January February 40	March 41
	ing and Pumping					03 10 17 24	<u>31 07 14 21 28 04 11 18 25</u>	03 10 17 24
Z3S3-5080	STB - Pumping test (Stage 1)	14	08-Dec-23 A	23-Dec-23 A		STB-Pump	ng test(Stage 1)	
STB : Tower Cr Z3S3-5870	STB - Constructfooting of tower crane	6	14-Nov-23 A	02-Dec-23 A		STB - Construct footing of tower crane		
Z3S3-5880	STB - Install base plate of tower crane	6	04-Dec-23 A	09-Dec-23 A		STB - Install base plate of tower crane STB - Erection of tower crane		
Z3S3-5890 STB : Excavati	STB - Erection of lower crane ion and Lateral Support	3	09-Dec-23 A	12-Dec-23 A				
STB : ELS Stag								
Z3S3-6120 Z3S3-2250	STB - ELS (Stage 1), Open cut excavate and demolish AFT underground structure STB - ELS (Stage 1), Excavation (+6.0 to +3.5mPD, 1,173m3 @ 500m3/d)	10	18-Dec-23 A 27-Dec-23 A	10-Jan-24 20-Jan-24	-64 -64	·····	STB - ELS (Stage 1), Open cut excavate and demolish AFT underground structure STB - ELS (Stage 1), Excavation (+6.0 to +3.5mPD, 1,173m3 @ 500m	13/d)
Z3S3-2290	STB - ELS (Stage 1), Strut Installation S1 (@ +4.0mPD)	12	13-Jan-24	26-Jan-24	-64		STB - ELS (Stage 1), Strut Installation S1 (@ +4.0mPD)	
Z3S3-5110 Z3S3-5120	STB - ELS (Stage 1), Excavation (+6.0 to +3.5mPD) remaining portion after road diversion at UC5 STB - ELS (Stage 1), StrutInstallation S1 (@ +4.0mPD) remaining portion after road diversion at UC5	3	03-Feb-24 07-Feb-24	06-Feb-24 16-Feb-24	-79 -79			b; +3.5mPD) remaining portion after road diversion at strut Installation S1 (@ +4.0mPD) remaining portion at strut Installation S1 (@ +4.0mPD) remaining portion at the structure of the struc
Z3S3-5120	STB - ELS (Stage 1), Strut Installation S1 (@ +4.011PD) remaining portion and road diversion at 0CS STB - ELS (Stage 1), Strut Installation S1 preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut)	4	17-Feb-24	21-Feb-24	-79			(Stage 1), Strut Installation S1 preload (5 cycles, 3-4 str
Z3S3-2360	STB - ELS (Stage 1), Excavation (+3.5 to -0.5mPD, 2501m3 @ 500m3/d) *MD/PD	5	22-Feb-24	27-Feb-24	-79			STB - ELS (Stage 1), Excavation (+3.5 to -0.5mPD, 25
Z3S3-2420 Z3S3-5230	STB - ELS (Stage 1), Strut Installation S2 (@ 0mPD) STB - ELS (Stage 1), Strut Installation S2 preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut)	6	28-Feb-24 06-Mar-24	05-Mar-24 09-Mar-24	-79 -79			STB - ELS (Stage 1), Strut Installation S2 STB - ELS (Stage 1), Strut Installation
Z3S3-2450	STB - ELS (Stage 1), Excavation (-0.5 to -3.75mPD, 2,001m3 @ 500m3/d) *MD/PD	4	11-Mar-24	14-Mar-24	-79			STB - ELS (Stage 1), Exc
Z3S3-5910	y <mark>e 2 (Remaining)</mark> STB - ELS (Slage 2), Excavation (+6.0 to +3.5mPD, 586m3 @ 200m3/d)	3	22-Jan-24	24-Jan-24	21		STB - ELS (Stage 2), Excavation (+6.0 to +3.5mPD, 586m3 @	200m3/d)
Z3S3-5920	STB-ELS (Stage 2), Stut Installation S1 (@ +4.0mPD)	8	25-Jan-24	02-Feb-24	21		STB - ELS (Stage 2), Strut Installation S1 (@+	
Z3S3-5930	STB - ELS (Stage 2), Strut Installation S1 preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut)	2	03-Feb-24	05-Feb-24	21			preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut)
Z3S3-5940 Z3S3-5790	STB - ELS (Stage 2), Excavation (+3.5 to -0.5mPD, 1250m3 @ 200m3/d) *MD/PD STB - ELS (Stage 2), Demolish remaining existing AFT (8) to -0.5 mPD silent method	7	06-Feb-24 17-Feb-24	16-Feb-24 01-Mar-24	21		STB - ELS (Stage 2)	, Excavation (+3.5 to -0.5mPD, 1250m3 @ 200m3/d) STB - ELS (Stage 2), Demolish remaining existir
Z3S3-5950	STB - ELS (Stage 2), Strut Installation S2 (@ 0mPD)	8	02-Mar-24	11-Mar-24	21			STB - ELS (Stage 2), Strut Inst
Z3S3-5960	STB - ELS (Stage 2), Strut Installation S2 preload (5 cycles, 3-4 struct/cycle/day, 19 nos. strut)	2	12-Mar-24	13-Mar-24	21			STB - ELS (Stage 2), Strut
Z3S3-5970 Z3S3-5800	STB - ELS (Stage 2), Excavation (-0.5 to -1.7 mPD, 500m3 @ 200m3/d) *MD/PD STB - ELS (Stage 2), Demolish remaining existing AFT (8) to -1.7 mPD silent method	2 12	14-Mar-24 16-Mar-24	15-Mar-24 02-Apr-24	21 21	<u> </u>		STB - ELS (Stage 2), E
STB : Civil and Str	ructuralWorks							
STB : Structure								
STB : Structure STB : Subrstru								
	STB - Pile Cap Construction (-3.55 to -0.5mPD, 2.055m) Base Slab and Wal (incl.earth mat installation)	16	15-Mar-24	06-Apr-24	-79			
	UC5) (Connect to STB)							
UC5 : Civil and Str Z3S2-3680	UC5 - Roof slab concrete gain strength	6	10-Nov-23 A	16-Nov-23 A		ete gain strength		
Z3S2-3700	UC5 - External - Strike external formwork and defect works	14	10-Nov-23 A	15-Dec-23 A			nal formwork and defect works	
Z3S2-3690 Z3S2-3710	UC5 - Internal - Strike internal formwork and falsework and defect works UC5 - External - Wate proofing Stage 1	8	17-Nov-23 A 04-Dec-23 A	19-Dec-23 A 07-Dec-23 A		UC5 - Internal - Strik	e internal formwork and falsework and defect works	
Z3S2-3710	UC5-External-Concrete backfill & remove strut S2	5	20-Dec-23 A	06-Jan-24	-79		UC5 - External - Concrete backfill & remove strut S2	
Z3S2-3670	UC5 - Internal - Install backprop for STB ELS and vertical prop for decking	21	20-Dec-23 A	19-Jan-24	-79		UC5 - Internal - Install backprop for STB ELS and vertical prop for deckir	ng
Z3S2-3720 Z3S2-3530	UC5 - External - Waterproofing Stage 2 UC5 - External - Concrete backfill & remove strut S1	3	08-Jan-24 11-Jan-24	10-Jan-24 16-Jan-24	-79 -79		UC5 - External - Wate proofing Stage 2 UC5 - External - Concrete backfill & remove strut S1	
Z3S2-3750	UC5 - External - Waterproofing Roof Slab	3	17-Jan-24	19-Jan-24	-79		UC5 - External - Waterproofing Roof Slab	-
Z3S2-3610	UC5 -Place concrete block and Backfill to ground level	2	20-Jan-24	22-Jan-24	-79		UC5 - Place concrete block and Backfill to ground level	vermont)
Z3S2-3480 Z3S2-3660	UC5 - Road Diversion Stage 1 on Completed UC5 (concrete pavement) UC5 - Install beam and sheetpile for Deck over UC5 ELS for road diversion	4	23-Jan-24 23-Jan-24	23-Jan-24 26-Jan-24	-79 -74		UC5 - Road Diversion Stage 1 on Completed UC5 (concrete pa UC5 - Install beam and sheetpile for Deck over UC5 ELS f	- *
Z3S2-3740	UC5 - Road Diversion Stage 2 on deck (concrete pavement)	1	27-Jan-24	27-Jan-24	-74		UC5 Road Diversion Stage 2 on deck (concrete pavern	
UC5 : E&M Installa		50	02 1 04	00 Mar 04	602			UC5-BSWorks
Z3S2-3220 Z3S2-3230	UC5-BS Works UC5-E&MHandover	50 0	02-Jan-24 02-Jan-24	02-Mar-24	683 683	li	♦ UC5 - E&M Handover	
Z3S2-3240	UC5 - E&MInstallation and Pipeworks	50	02-Jan-24	02-Mar-24	683			UC5-E&MInstallation and Pipeworks
Z3S2-3250	UC5 - Installation and Set-Up for SCADASystem	14	16-Feb-24	02-Mar-24	683			UC5 - Installation and Set-Up for SCADASys
Sludge Digestor								
SD1-3 : Foundatio	on and ELS							
004.0.01	olling, Kingpost, Monitoring and pumping Sludge Digester No. 1-3 - Site dearance for kingpost							
	Sludge Digester No. 1-5 - Site dealance for kingpost	4	01 Nov 22 A	04 Nov 22 A				
SD1-3 : Sheetp Z3S3-5900 Z3S3-5830	Sludge Digester No. 1-3 - Plant mobilization	4	01-Nov-23 A 06-Nov-23 A	04-Nov-23 A 14-Nov-23 A		kingpost Plantmobilization		
Z3S3-5900 Z3S3-5830 Z3S3-5840	Sludge Digester No. 1-3 - Plantmobilization Sludge Digester No. 1-3 - Add to hal grou ing forsheetpie	8 17			-168	1 01	Sludge Digester No. 1-3 - Additional grouting forsheetpile	
Z3S3-5900 Z3S3-5830 Z3S3-5840 Z3S3-4810	Sludge Digester No. 1-3 - Add tib nal grou fng forsheetpile Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3d/pile/rig, 2rigs)	8 17 27	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A	14-Nov-23 A 15-Jan-24 05-Jan-24	-168	1 01	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3d/pile/rig, 2rigs)	
Z3S3-5900 Z3S3-5830 Z3S3-5840	Sludge Digester No. 1-3 - Add tional grouting for sheetpile	8 17	06-Nov-23 A 11-Nov-23 A	14-Nov-23 A 15-Jan-24		1 01		drig.2ngs)
Z3S3-5900 Z3S3-5830 Z3S3-5840 Z3S3-4810 Z3S3-3350 Z3S3-5850 Z3S3-5850 Z3S3-5100	Sludge Digester No. 1-3 - Additb nal grouting forsheetpile Sludge Digester No. 1-3 - Kingpost by preboring (1 3nos. @ 3d/pile/ng, 2rigs) Sludge Digester No. 1-3 - Monibring and pumping installation (42nos, 1 5nos /d/rig, 2rigs) Sludge Digester No. 1-3 - Remedial works for sheetpile closing (6nos.) Sludge Digester No. 1-3 - Pumping test	8 17 27 16	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A	14-Nov-23 A 15-Jan-24 05-Jan-24 15-Jan-24	-168 -168	1 01	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3dipliekig, 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 15nos/	drig, 2ngs)
Z3S3-5900 Z3S3-5830 Z3S3-5840 Z3S3-4810 Z3S3-3850 Z3S3-5850 Z3S3-5100 <b>SD1-3 : Excava</b>	Sludge Digester No. 1-3 - Add tib nal grou fng forsheetpile Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3d/pile/rig, 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 1.5nos /d/rig, 2rigs) Sludge Digester No. 1-3 - Remedial works for sheetpile closing (6nos.)	8 17 27 16 7	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24	14-Nov-23 A 15-Jan-24 05-Jan-24 15-Jan-24 15-Jan-24	-168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3dipile/ig, 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 1.5nos/ Sludge Digester No. 1-3 - Remedial works for sheetpile closing (6nos.)	drig, 2rigs)
Z3S3-5900 Z3S3-5830 Z3S3-5840 Z3S3-4810 Z3S3-3350 Z3S3-5850 Z3S3-5850 Z3S3-5100	Sludge Digester No. 1-3 - Additb nal grouting forsheetpile Sludge Digester No. 1-3 - Kingpost by preboring (1 3nos. @ 3d/pile/ng, 2rigs) Sludge Digester No. 1-3 - Monibring and pumping installation (42nos, 1 5nos /d/rig, 2rigs) Sludge Digester No. 1-3 - Remedial works for sheetpile closing (6nos.) Sludge Digester No. 1-3 - Pumping test	8 17 27 16 7	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24	14-Nov-23 A 15-Jan-24 05-Jan-24 15-Jan-24 15-Jan-24	-168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3dipile/ig, 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 1.5nos/ Sludge Digester No. 1-3 - Remedial works for sheetpile closing (6nos.)	
Z3S3-5900 Z3S3-5830 Z3S3-5840 Z3S3-5840 Z3S3-4810 Z3S3-3350 Z3S3-5850 Z3S3-5100 SD1-3 : Excava SD1-3 : ELS Z3S3-2110 Z3S3-2140	Sludge Digester No. 1.3 - Kddtb nal grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pile/ng, 2rigs)         Sludge Digester No. 1.3 - Monibring and pumping installation (42nos, 1.5nos/kl/ng, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Pumping test         ation and Strut Installation         Sludge Digester No. 1.3 - ELS Excavaton (+5.0 to +4.3mPD, 4168m3 @ 1000m3kd)         Sludge Digester No. 1.3 - Stut hstallation S1 (+4.8mPD)	8 17 27 16 7 7 5 7	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 30-Jan-24	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 29-Jan-24 06-Feb-24	-168 -168 -168 -168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3d/pile/kig.2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos. 15nos.) Sludge Digester No. 1-3 - Remedial works for sheetpile closing (6nos.) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4.	3mPD, 4168m3 @ 1000m3(d) on S1 (+4.8mPD)
Z3S3.5900 Z3S3.5830 Z3S3.5840 Z3S3.35840 Z3S3.350 Z3S3.5850 Z3S3.5100 <b>SD1.3 : Excava</b> <b>SD1.3 : Excava</b> <b>SD1.3 : Excava</b> <b>SD1.3 : Excava</b> <b>SD1.3 : Excava</b> <b>SD1.3 : Excava</b> <b>SD1.3 : Excava</b>	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingposito preboring (13nos. @ 3d/pile/rig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Pumping test         ation and Strut Installation         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3kl)         Sludge Digester No. 1.3 - Strut hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Strut hstallation S1 (+4.8mPD)	8 17 27 16 7 7 5	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 30-Jan-24 07-Feb-24	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 29-Jan-24 06-Feb-24 16-Feb-24	-168 -168 -168 -168 -168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplieitig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos. 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheetpile dosing (6nos.) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - PLM State Stat	3mPD, 4168m3 @ 1000m3(d) on S1 (+4.8mPD)
Z3S3-5900 Z3S3-5830 Z3S3-5840 Z3S3-5840 Z3S3-4810 Z3S3-3850 Z3S3-5850 Z3S3-5850 Z3S3-5100 SD1-3 : Excava SD1-3 : ELS Z3S3-2110 Z3S3-2110	Sludge Digester No. 1.3 - Kddtb nal grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pile/ng, 2rigs)         Sludge Digester No. 1.3 - Monibring and pumping installation (42nos, 1.5nos/kl/ng, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Pumping test         ation and Strut Installation         Sludge Digester No. 1.3 - ELS Excavaton (+5.0 to +4.3mPD, 4168m3 @ 1000m3kd)         Sludge Digester No. 1.3 - Stut hstallation S1 (+4.8mPD)	8 17 27 16 7 7 5 7 6	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 30-Jan-24	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 29-Jan-24 06-Feb-24	-168 -168 -168 -168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplie/ig.2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 15nos/ Sludge Digester No. 1-3 - Remedial works for sheeplie dosing (6nos) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digeste	3mPD, 4168m3 @ 1000m3d) orp S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ ester No. 1.3 - Shuth hstallation 52 (+2.3mPD) udge Digester No. 1.3 - Preloading Strut S2 (+2.3mPD)
Z3S3.5900 Z3S3.5830 Z3S3.5840 Z3S3.4810 Z3S3.4810 Z3S3.350 Z3S3.5850 Z3S3.5100 SD1.3 : Excava SD1.3 : Excava SD1.3 : Excava Z3S3.2110 Z3S3.2110 Z3S3.2120 Z3S3.2190 Z3S3.2190 Z3S3.2730 Z3S3.2200	Sludge Digester No. 1.3 - Kddtb nal grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monibring and pumping installation (42nos, 1.5nos/kl/ig,2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Pumping test         ation and Strut Installation         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD,4168m3 @ 1000m3kd)         Sludge Digester No. 1.3 - Sturt Installation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Sturt Installation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Sturt Installation S1 (+4.2mPD)         Sludge Digester No. 1.3 - Sturt Installation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt Installation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt Installation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt Installation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt Installation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt Installation S2 (+2.3mPD)         Sludge Digester No. 1.3 - ELS Excavation (+1.8 to -0.7mPD,6130m3 @ 1000m3kd) MD	8           17           27           16           7           5           7           6           7           4           6	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 30-Jan-24 07-Feb-24 24-Feb-24 22-Feb-24	14-Nov-23 A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 16-Feb-24 26-Feb-24 04-Mar-24	-168 -168 -168 -168 -168 -168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplie/ig.2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 15nos/ Sludge Digester No. 1-3 - Remedial works for sheeplie dosing (6nos) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digeste	3mPD, 4168m3 @ 1000m3/d) on S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ ester No. 1.3 - Struit histaliation S2 (+2.3mPD) Udge Digester No. 1.3 - Prei Gading Strut S2 (+2.3mP Studge Digester No. 1.3 - FLS Excavation
Z3S3.6900 Z3S3.6800 Z3S3.6840 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.6850 SD1-3 : Excava SD1-3 : Excava SD1-3 : Excava SD1-3 : Excava Z3S3.2110 Z3S3.2140 Z3S3.2140 Z3S3.2140 Z3S3.2190 Z3S3.2190 Z3S3.2200 Z3S3.2210	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pile/fig.2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Pumping test         ation and Strut Installation         Sludge Digester No. 1.3 - REX Excavation (+5.0 to +4.3mPD,4168m3 @ 1000m3kl)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD,4168m3 @ 1000m3kl)         Sludge Digester No. 1.3 - Strut hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Strut hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (+2.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (+2.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (+0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (+0.2mPD)	8 17 27 16 7 7 5 5 7 6 7 4	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 07-Feb-24 24-Feb-24	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 06-Feb-24 26-Feb-24 26-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24	-168 -168 -168 -168 -168 -168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplie/ig.2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 15nos/ Sludge Digester No. 1-3 - Remedial works for sheeplie dosing (6nos) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digeste	3mPD, 4168m3 @ 1000m3kl) on S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 ( eşter No. 1.3 - Stut Installation S2 (+2.3mPD) udge Digester No. 1.3 - Preloading Strut S2 (+2.3m Studge Digester No. 1.3 - ELS Excavatio Studge Digester No. 1.3 - Stut Inst
Z3S3.5900 Z3S3.5830 Z3S3.5840 Z3S3.4810 Z3S3.4810 Z3S3.350 Z3S3.5850 Z3S3.5100 SD1.3 : Excava SD1.3 : Excava SD1.3 : Excava Z3S3.2110 Z3S3.2110 Z3S3.2120 Z3S3.2190 Z3S3.2190 Z3S3.2730 Z3S3.2200	Sludge Digester No. 1.3 - Kddtb nal grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monibring and pumping installation (42nos, 1.5nos/kl/ig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Pumping test         ation and Strut Installation         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3/d)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3/d)         Sludge Digester No. 1.3 - Strut hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Strut hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - ELS Excavation (+1.8 to -0.7mPD, 6130m3 @ 1000m3/d) 'MD	8           17           27           16           7           5           7           6           7           6           7	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 07-Feb-24 14-Feb-24 27-Feb-24 01-Mar-24	14-Nov-23 A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 16-Feb-24 26-Feb-24 04-Mar-24	-168 -168 -168 -168 -168 -168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplie/ig.2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 15nos/ Sludge Digester No. 1-3 - Remedial works for sheeplie dosing (6nos) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digeste	3mPD, 4168m3 @ 1000m3/d) on S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ ester No. 1-3 - Strut Installation S2 (+2.3mPD) udge Digester No. 1-3 - ELS Excavatio Sludge Digester No. 1-3 - Strut Ins Sludge Digester No. 1-3 - Strut Ins Sludge Digester No. 1-3 - Strut Ins
Z3S3.5900 Z3S3.5830 Z3S3.5840 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.5850 Z3S3.5850 Z3S3.5100 <b>SD1.3 : Excava</b> <b>SD1.3 : Excava</b> <b>SD1.5 : Excava</b> <b></b>	Sludge Digester No. 1.3 - Kddtb nal grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monibring and pumping installation (42nos, 1.5nos./dt/ig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavaton (+5.0 to +4.3mPD, 4168m3 @ 1000m3dt)         Sludge Digester No. 1.3 - ELS Excavaton (+5.0 to +4.3mPD, 4168m3 @ 1000m3dt) after BH1 footing backfilled         Sludge Digester No. 1.3 - Sturt hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (0.2mPD)         Sludge Digester No. 1.3	8           17           27           16           7           5           7           6           7           4           6           7           4           6           7	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 30-Jan-24 07-Feb-24 14-Feb-24 22-Feb-24 01-Mar-24 09-Mar-24 18-Mar-24 18-Mar-24	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 06-Feb-24 16-Feb-24 21-Feb-24 26-Feb-24 08-Mar-24 08-Mar-24 20-Mar-24 20-Mar-24	-168 -168 -168 -168 -168 -168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplie/ig.2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 15nos/ Sludge Digester No. 1-3 - Remedial works for sheeplie dosing (6nos) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digeste	SmPD, 4168m3 @ 1000m3d) cry S1 (+4.8mPD) 1.3 - ELS Exervation (+4.3 to +1.8mPD, 6130m3 ( ester No. 1-3 - Strut Installation 52 (+2.3mPD) udge Digester No. 1-3 - ELS Excavation Studge Digester No. 1-3 - Struths Studge Digester No. 1-3 - Struths
Z3S3.6900 Z3S3.6800 Z3S3.6840 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4500 <b>SD1-3 : Excava</b> <b>SD1-3 : Excava</b> <b>SD1-3 : Excava</b> <b>SD1-3 : Excava</b> Z3S3.2110 Z3S3.2140 Z3S3.2150 Z3S3.2150 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.2220	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pile/fig.,2rigs)         Sludge Digester No. 1.3 - Monitoring and pumping installation (42nos., 15nos/kl/fig.2rigs)         Sludge Digester No. 1.3 - Nemendial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Pumping test         ation and Strut Installation         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD,4168m3 @ 1000m3kl)         Sludge Digester No. 1.3 - Strut hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Strut hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Teloading Strut S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (-0.2mPD)         Sludge Digester No. 1.3 - Reloading Strut S2 (+2.3mPD)(4 cycle, 5 struts/cyde/day, 16 struts)         Sludge Digester No. 1.3 - Reloading Strut S3 (-0.2mPD)         Sludge Digester No. 1.3 - Reloading Strut S3 (-0.2mPD)         Sludge Digester No. 1.3 - Reloading Strut S3 (-0.2mPD)         Sludge Digester No. 1.3 - ELS Excavation (-7.7 b-3.2mPD,6130m3 @ 1000m3/d) *MD         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge D	8           17           27           16           7           5           7           6           7           4           6           7           4           6	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 07-Feb-24 07-Feb-24 22-Feb-24 22-Feb-24 27-Feb-24 09-Mar-24 14-Mar-24	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 29-Jan-24 06-Feb-24 16-Feb-24 26-Feb-24 21-Feb-24 24-Feb-24 08-Mar-24 13-Mar-24 20-Mar-24	-168 -168 -168 -168 -168 -168 -168 -168	1 01	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplie/ig.2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 15nos/ Sludge Digester No. 1-3 - Remedial works for sheeplie dosing (6nos) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digeste	SmPD, 4168m3 @ 1000m3d) cry S1 (+4.8mPD) 1.3 - ELS Exervation (+4.3 to +1.8mPD, 6130m3 ( ester No. 1-3 - Strut Installation S2 (+2.3mPD) udge Digester No. 1-3 - ELS Excervatio Studge Digester No. 1-3 - Strutts Studge Digester No. 1-3 - Strutts
Z3S3.5900 Z3S3.5830 Z3S3.5830 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4510 <b>SD13: ELS</b> Z3S3.5100 <b>SD13: Excava</b> <b>SD13: Excava</b> <b>SD13: Excava</b> Z3S3.2110 Z3S3.2110 Z3S3.2100 Z3S3.2100 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2230 Z3S3.2230 Z3S3.2230 Z3S3.2230 Z3S3.2230 Z3S3.2230 Z3S3.2550 <b>Biogas Holder N</b>	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monitoring and pumping installation (42nos, 1 5nos /drig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d)         Sludge Digester No. 1.3 - Stuth stallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Stuth stallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Stuth stallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Els Excavation (+1.8 to -0.7mPD, 6130m3 @ 1000m3d) after BH1 footing backfilled         Sludge Digester No. 1.3 - Encloading Stut S2 (+2.3mPD)         Sludge Digester No. 1.3 - Encloading Stut S2 (+2.3mPD)         Sludge Digester No. 1.3 - Encloading Stut S2 (+2.3mPD)         Sludge Digester No. 1.3 - Stuth stallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Stuth stallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Stuth stallation S4 (0.2mPD)         Sludge Digester No. 1.3 - Stuth stallation S4 (2.7mPD)         Sludge Digester No. 1.3 - Stuth stallation S4 (2.7mPD)         Sludge Digester No. 1.3 - Pr	8 117 277 116 7 7 7 5 7 6 7 7 4 6 7 4 6 7 4 6 7 4 4 6 7 4 4	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 03-Jan-24 07-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 14-Mar-24 18-Mar-24 18-Mar-24 26-Mar-24	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 29-Jan-24 06-Feb-24 06-Feb-24 16-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 08-Mar-24 20-Mar-24 20-Mar-24 25-Mar-24 02-Apr-24	-168 -168 -168 -168 -168 -168 -168 -168	Pantmobilization	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3diplie/ig.2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 15nos/ Sludge Digester No. 1-3 - Remedial works for sheeplie dosing (6nos) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digester	SmPD, 4168m3 @ 1000m3(d) cm S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 ( ester No. 1.3 - Shut hstallation S2 (+2.3mPD) udge Digester No. 1.3 - ELS Excavation Studge Digester No. 1.3 - Studter Studge Digester No. 1.3 - Studter
Z3S3.5900 Z3S3.5830 Z3S3.5840 Z3S3.4810 Z3S3.4810 Z3S3.4510 Z3S3.45100 SD1.3 : Excava SD1.3 : Excava SD1.3 : Excava SD1.3 : Excava Z3S3.2110 Z3S3.2140 Z3S3.2140 Z3S3.2190 Z3S3.2190 Z3S3.2190 Z3S3.210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.2220 Z3S3.25760 Biogas Holder Nr	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monitoring and pumping installation (42nos, 1.5nos/d/ig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d) after BH1 footing backfilled         Sludge Digester No. 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3d) after BH1 footing backfilled         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S2 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (0.2mPD)(4 cycle, 5 struts/cycle/day, 16 struts)         Sludge Digester No. 1.3 - Sturt hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (-2.7mPD)(4 cycle, 5 struts/cycle/day, 16 struts) <t< td=""><td>8           117           27           16           7           5           7           6           7           4           6           7           4           6           7           4           6           7           4</td><td>06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 30-Jan-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 24-Jan-24 26-Mar-24 24-Jan-24 24-Jan-24 26-Mar-24 24-Jan-24-Jan-24 24-Jan-</td><td>14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 06-Feb-24 06-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 20-Mar-24 20-Mar-24 02-Apr-24 08-Dec-23A</td><td>-168 -168 -168 -168 -168 -168 -168 -168</td><td>Biogas Holder No. 1 - Retaining wall str</td><td>Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - BLS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digester No. 1-3 - Stutt Installat Sludge Digester No. 1-3 - Sludge Digester No. Sludge Digester No. Sludg</td><td>SmPD, 4168m3 @ 1000m3kl) cm S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 ( ester No. 1.3 - Strut hstallation S2 (+2.3mPD) udge Digester No. 1.3 - ELS Excavatio Studge Digester No. 1.3 - Struth Studge Digester No. 1.3 - Struth Studge Digester No. 1.3 - Struth Studge Digester No. 1.3 - Studge Digester No. 1.3</td></t<>	8           117           27           16           7           5           7           6           7           4           6           7           4           6           7           4           6           7           4	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 30-Jan-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 24-Jan-24 26-Mar-24 24-Jan-24 24-Jan-24 26-Mar-24 24-Jan-24-Jan-24 24-Jan-	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 06-Feb-24 06-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 20-Mar-24 20-Mar-24 02-Apr-24 08-Dec-23A	-168 -168 -168 -168 -168 -168 -168 -168	Biogas Holder No. 1 - Retaining wall str	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - BLS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digester No. 1-3 - Stutt Installat Sludge Digester No. 1-3 - Sludge Digester No. Sludge Digester No. Sludg	SmPD, 4168m3 @ 1000m3kl) cm S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 ( ester No. 1.3 - Strut hstallation S2 (+2.3mPD) udge Digester No. 1.3 - ELS Excavatio Studge Digester No. 1.3 - Struth Studge Digester No. 1.3 - Struth Studge Digester No. 1.3 - Struth Studge Digester No. 1.3 - Studge Digester No. 1.3
Z3S3.6900 Z3S3.6800 Z3S3.6840 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.45100 <b>SD13: ELS</b> Z3S3.45100 <b>SD13: ELS</b> Z3S3.2110 Z3S3.2140 Z3S3.2190 Z3S3.2190 Z3S3.2190 Z3S3.2210	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monitoring and pumping installation (42nos, 1 5nos /drig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d)         Sludge Digester No. 1.3 - Stuth stallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Stuth stallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Stuth stallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Els Excavation (+1.8 to -0.7mPD, 6130m3 @ 1000m3d) after BH1 footing backfilled         Sludge Digester No. 1.3 - Encloading Stut S2 (+2.3mPD)         Sludge Digester No. 1.3 - Encloading Stut S2 (+2.3mPD)         Sludge Digester No. 1.3 - Encloading Stut S2 (+2.3mPD)         Sludge Digester No. 1.3 - Stuth stallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Stuth stallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Stuth stallation S4 (0.2mPD)         Sludge Digester No. 1.3 - Stuth stallation S4 (2.7mPD)         Sludge Digester No. 1.3 - Stuth stallation S4 (2.7mPD)         Sludge Digester No. 1.3 - Pr	8 117 277 116 7 7 7 5 7 6 7 7 4 6 7 4 6 7 4 6 7 4 4 6 7 4 4	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 03-Jan-24 07-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 14-Mar-24 18-Mar-24 18-Mar-24 26-Mar-24	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 29-Jan-24 06-Feb-24 06-Feb-24 16-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 08-Mar-24 20-Mar-24 20-Mar-24 25-Mar-24 02-Apr-24	-168 -168 -168 -168 -168 -168 -168 -168	Pantmobilization	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - Studge Digester No. 1-3 - Studge Digester No. Sludge Digester No. 1-3 - Sludge Digester No. Sludge Digester	SmPD, 4168m3 @ 1000m3d) cry S1 (+4.8mPD) 1.3 - ELS Exervation (+4.3 to +1.8mPD, 6130m3 ( ester No. 1-3 - Strut Installation 52 (+2.3mPD) udge Digester No. 1-3 - ELS Excavation Studge Digester No. 1-3 - Struths Studge Digester No. 1-3 - Struths
Z3S3.6900 Z3S3.6800 Z3S3.6840 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4500 <b>SD13 : Excava</b> <b>SD13 : </b>	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monitoring and pumping installation (42nos, 1.5nos/kl/ig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d/)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d/) after BH1 footing backfilled         Sludge Digester No. 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3d/) after BH1 footing backfilled         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Encloading StrutS2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)	8           117           27           16           7           5           7           6           7           4           6           7           4           6           7           4           6           5           5	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 25-Feb-24 27-Feb-24 27-Feb-24 09-Mar-24 18-Mar-24 18-Mar-24 18-Mar-24 26-Mar-24 27-Feb-23 27-Feb-23 27-Feb-24 26-Mar-24 26-Mar-24 26-Mar-24 27-Feb-23 27-Feb-23 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 26-Mar-24 27-Feb-24 27-	14-Nov-23A 15-Jan-24 15-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 06-Feb-24 16-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 20-Mar-24 20-Mar-24 02-Apr-24 08-Dec-23A 07-Nov-23A	-168 -168 -168 -168 -168 -168 -168 -168	Biogas Holder No. 1 - Retaining wall str	Sludge Digester No. 1-3 - Kingpostby preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - BLS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digester No. 1-3 - Stut Installat Sludge Digester No. 1-3 - Sludge Digester No. Sludge Digester	SmPD, 4168m3 @ 1000m3d) cry S1 (+4.8mPD) 1.3 - ELS Exervation (+4.3 to +1.8mPD, 6130m3 ( ester No. 1-3 - Strut Installation 52 (+2.3mPD) udge Digester No. 1-3 - ELS Excavation Studge Digester No. 1-3 - Struths Studge Digester No. 1-3 - Struths
Z3S3.5900 Z3S3.5830 Z3S3.5830 Z3S3.6840 Z3S3.4810 Z3S3.4810 Z3S3.4500 SD1-3 : Excava SD1-3 : Excava SD1-3 : Excava SD1-3 : Excava Z3S3.2110 Z3S3.2140 Z3S3.2140 Z3S3.2140 Z3S3.2140 Z3S3.2140 Z3S3.2140 Z3S3.2140 Z3S3.2140 Z3S3.210 Z3S3.210 Z3S3.210 Z3S3.2200 Z3S3.2210 Z3S3.2200 Z3S3.2210 Z3S3.2200 Z3S3.2200 Z3S3.5750 BIGgas Holder M BH1 : E6M Instalk ATALZ3BH-0900	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monitoring and pumping installation (42nos, 1.5nos./dt/ig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3dt)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 6130m3 @ 1000m3dt) after BH1 footing backfilled         Sludge Digester No. 1.3 - Sturt hstallation S1 (+4.8mPD)         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Preloading SturtS4 (-2.7mPD)(4 cycle, 5 struts/cycle/day, 16 struts)         Sludge Digester No. 1.3 - Preloading SturtS4 (-2.7mPD)(4 cycle, 5 st	8           117           27           16           7           5           7           6           7           4           6           7           4           6           7           4           0	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-24 26-Mar-24 24-Jan-23 A 02-Nov-23 A 09-Dec-23 A 08-Nov-23 A	14-Nov-23A 15-Jan-24 05-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 06-Feb-24 06-Feb-24 21-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 20-Mar-24 20-Mar-24 02-Apr-24 08-Dec-23A 07-Nov-23A 13-Jan-24	-168 -168 -168 -168 -168 -168 -168 -168	Plantmobilization	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Nonitoring and pumping installation (42nos, 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheetpile dosing (6nos.) Sludge Digester No. 1-3 - Pumping lest Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Strut Installat Sludge Digester No. Sludge Digester No.	SmPD, 4168m3 @ 1000m3d) cry S1 (+4.8mPD) 1.3 - ELS Exervation (+4.3 to +1.8mPD, 6130m3 ( ester No. 1-3 - Strut Installation 52 (+2.3mPD) udge Digester No. 1-3 - ELS Excavation Studge Digester No. 1-3 - Struths Studge Digester No. 1-3 - Struths
Z3S3.6900 Z3S3.6800 Z3S3.6840 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4500 <b>SD1-3 : Excava</b> <b>SD1-3 : Excava</b> <b>SD1 </b>	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monitoring and pumping installation (42nos, 1.5nos/kl/ig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d/)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d/) after BH1 footing backfilled         Sludge Digester No. 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3d/) after BH1 footing backfilled         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Encloading StrutS2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (+2.7mPD)	8           117           27           16           7           5           7           6           7           4           6           7           4           5           17	06-Nov-23 A 11-Nov-23 A 15-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 25-Feb-24 27-Feb-24 27-Feb-24 09-Mar-24 18-Mar-24 18-Mar-24 18-Mar-24 26-Mar-24 27-Feb-23 27-Feb-23 27-Feb-24 26-Mar-24 26-Mar-24 26-Mar-24 27-Feb-23 27-Feb-23 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 26-Mar-24 27-Feb-24 27-	14-Nov-23A 15-Jan-24 15-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 06-Feb-24 16-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 20-Mar-24 20-Mar-24 02-Apr-24 08-Dec-23A 07-Nov-23A	-168 -168 -168 -168 -168 -168 -168 -168	Biogas Holder No. 1 - Retaining wall str	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Nonitoring and pumping installation (42nos, 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheetpile dosing (6nos.) Sludge Digester No. 1-3 - Pumping lest Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Strut Installat Sludge Digester No. Sludge Digester No.	SmPD, 4168m3 @ 1000m3d) cry S1 (+4.8mPD) 1.3 - ELS Exervation (+4.3 to +1.8mPD, 6130m3 @ ester No. 1-3 - Strut Installation 52 (+2.3mPD) udge Digester No. 1-3 - ELS Exervation Studge Digester No. 1-3 - Struths Studge Digester No. 1-3 - Struths
Z3S3.5900 Z3S3.5830 Z3S3.5840 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4500 SD13: Excava SD13: Excava SD13: Excava SD13: Excava SD13: Excava Z3S3.2100 Z3S3.2100 Z3S3.2100 Z3S3.2100 Z3S3.2210 Z3S3.2210 Z3S3.2200 Z	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Nemedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d/)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 6130m3 @ 1000m3d/) after BH1 footing backfilled         Sludge Digester No. 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3d/) after BH1 footing backfilled         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Preloading Strut S4 (-2.7mPD)         Sludge Digester No. 1.3 - Preloading Strut S4 (-2.7mPD)	8           117           27           16           7           5           7           6           7           4           6           7           4           6           7           12           0           6           12           19           23	06-Nov-23 A 11-Nov-23 A 11-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 14-Har-24 18-Mar-24 18-Mar-24 26-Mar-24 09-Nov-23 A 09-Dec-23 A 09-Nov-23 A 09-Nov-23 A 15-Nov-23 A 09-Nov-23 A 15-Nov-23 A 23-Dec-23 A	14-Nov-23A 15-Jan-24 15-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 16-Feb-24 26-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 20-Mar-24 25-Mar-24 02-Apr-24 08-Dec-23A 07-Nov-23A 13-Jan-24 2-Mar-24 23-Jan-24	-168 -168 -168 -168 -168 -168 -168 -168	Plantmobilization	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos, 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - Pumping test Sludge Digester No. 1-3 - BLS Excavation (+5.0 to +4. Sludge Digester No. 1-3 - Sludge Digester No. 1-3 - Sludge Digester No. Sludge Digester No. 1-3 - Sludge Digester No. Sludge Di	SmPD, 4168m3 @ 1000m3kl) cm S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ ester No. 1-3 - Struth Installation S2 (+2.3mPD) udge Digester No. 1-3 - ELS Excavation Studge Digester No. 1-3 - Struths Studge Digester No. 1-3 - Struths
Z3S3.6900 Z3S3.6810 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4510 SD1-3 : Excava SD1-3 : Excava SD1-3 : Excava Z3S3.2110 Z3S3.2110 Z3S3.2110 Z3S3.2110 Z3S3.2110 Z3S3.210 Z3S3.2210 Z3	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Monitoring and pumping installation (42nos, 1.5nos./dt/ig, 2rigs)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3dt)         Sludge Digester No. 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3dt) after BH1 footing backfilled         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (0.2 mPD)(6130m3 @ 1000m3dt) 'MD         Sludge Digester No. 1.3 - Sturt hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Sturt hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Preloading SturtS4 (-2.7mPD)(4 cycle, 5 struts/cycle/day, 16 struts)         Sludge Digester No. 1.4 - Retaining wall stike ext formwork (3d), surface prep (1d) and waterproofing (2d)	8           117           27           16           7           5           7           6           7           4           6           7           4           6           7           4           6           5           7           4           6           5           12           0           6           23           32	06-Nov-23 A 11-Nov-23 A 11-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 27-Feb-24 14-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 09-Mar-24 14-Mar-24 18-Mar-24 26-Mar-24 02-Nov-23 A 02-Nov-23 A 09-Dec-23 A 09-Nov-23 A 15-Nov-23 A 23-Dec-23 A 24-Jan-24	14-Nov-23A 15-Jan-24 15-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 06-Feb-24 16-Feb-24 21-Feb-24 24-Feb-24 04-Mar-24 08-Mar-24 25-Mar-24 02-Apr-24 08-Dec-23A 07-Nov-23A 13-Jan-24 09-Jan-24 09-Jan-24 04-Mar-24	-168 -168 -168 -168 -168 -168 -168 -168	Plantmobilization	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos. 1.5nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (6nos.) Sludge Digester No. 1-3 - Remedial works for sheepile dosing (75.0 to +4. Sludge Digester No. 1-3 - Sludge Digester No. Sludge	SmPD, 4168m3 @ 1000m3d) cry S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ ester No. 1-3 - Struth stallation 52 (+2.3mPD) udge Digester No. 1-3 - ELS Excavation Studge Digester No. 1-3 - Struths Studge Digester No. 1-3 - Studge Digester No. 1-3 Studge Digester No. 1-3 - Studge Digester No. 1
Z3S3.6900 Z3S3.6800 Z3S3.6840 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.4810 Z3S3.410 Z3S3.2100 Z3S3.2100 Z3S3.2100 Z3S3.2100 Z3S3.2100 Z3S3.2100 Z3S3.2100 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.2210 Z3S3.5730 BIGgas Holder No BH1: Foundation Z3BH-1350 Z3BH-1350 Z3BH-1350 Z3BH-1370 Z3BH-1370 Z3BH-1370 Z3BH-1370 Z3BH-1370 Z3BH-1370 Z3BH-1370 Z3BH-1370 Z3BH-1370 Z3BH-1380 Z3BH-1370 Z3BH-1380 Z3BH	Sludge Digester No. 1.3 - Additional grouting forsheetpile         Sludge Digester No. 1.3 - Kingpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Kongpostby preboring (13nos. @ 3d/pileińg, 2rigs)         Sludge Digester No. 1.3 - Nemedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - Remedial works for sheetpile closing (6nos.)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 1000m3d/)         Sludge Digester No. 1.3 - ELS Excavation (+5.0 to +4.3mPD, 6130m3 @ 1000m3d/) after BH1 footing backfilled         Sludge Digester No. 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ 1000m3d/) after BH1 footing backfilled         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S2 (+2.3mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S3 (0.2mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Strut hstallation S4 (-2.7mPD)         Sludge Digester No. 1.3 - Preloading StrutS4 (-2.7mPD)         Sludge Digester No. 1.3 - Preloading StrutS4 (-2.7mPD) <t< td=""><td>8           117           27           16           7           5           7           6           7           4           6           7           4           6           7           12           0           6           12           19           23</td><td>06-Nov-23 A 11-Nov-23 A 11-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 14-Har-24 18-Mar-24 18-Mar-24 26-Mar-24 09-Nov-23 A 09-Dec-23 A 09-Nov-23 A 09-Nov-23 A 15-Nov-23 A 09-Nov-23 A 15-Nov-23 A 23-Dec-23 A</td><td>14-Nov-23A 15-Jan-24 15-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 16-Feb-24 26-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 20-Mar-24 25-Mar-24 02-Apr-24 08-Dec-23A 07-Nov-23A 13-Jan-24 2-Mar-24 23-Jan-24</td><td>-168 -168 -168 -168 -168 -168 -168 -168</td><td>Plantmobilization</td><td>Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos. 1.5nos.) 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Sludge Digester No. 1-3 - Sludge Digester No. Sludge</td><td>SmPD, 4168m3 @ 1000m3d) cry S1 (+4.8mPD) 1.3 - ELS Excavation (+4.3 to +1.8mPD, 6130m3 @ ester No. 1-3 - Struth stallation 52 (+2.3mPD) udge Digester No. 1-3 - ELS Excavation Studge Digester No. 1-3 - Struths Studge Digester No. 1-3 - Studge Digester No. 1-3 Studge Digester No. 1-3 - Studge Digester No. 1</td></t<>	8           117           27           16           7           5           7           6           7           4           6           7           4           6           7           12           0           6           12           19           23	06-Nov-23 A 11-Nov-23 A 11-Nov-23 A 20-Nov-23 A 08-Jan-24 16-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 24-Jan-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 27-Feb-24 14-Har-24 18-Mar-24 18-Mar-24 26-Mar-24 09-Nov-23 A 09-Dec-23 A 09-Nov-23 A 09-Nov-23 A 15-Nov-23 A 09-Nov-23 A 15-Nov-23 A 23-Dec-23 A	14-Nov-23A 15-Jan-24 15-Jan-24 15-Jan-24 23-Jan-24 23-Jan-24 06-Feb-24 16-Feb-24 26-Feb-24 26-Feb-24 04-Mar-24 08-Mar-24 20-Mar-24 25-Mar-24 02-Apr-24 08-Dec-23A 07-Nov-23A 13-Jan-24 2-Mar-24 23-Jan-24	-168 -168 -168 -168 -168 -168 -168 -168	Plantmobilization	Sludge Digester No. 1-3 - Kingpost by preboring (13nos. @ 3diplielig. 2rigs) Sludge Digester No. 1-3 - Monitoring and pumping installation (42nos. 1.5nos.) 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 Remaining Level of Ef... Actual Work Remaining Work Critical Remaining Work Milestone

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ad diversion a le/day, 19 nos.	tUC5 .strut)						
le/day, 19 nos. @ 500m3/d)*1	MD/PD						
preload (5 cyc	les, 3-4 struct/cycle/da mPD, 2,001m3 @ 50	ay, 19 nos. strut)					
n (-0.5 to -3.75)	mPD, 2,001m3 @ 50	00m3/d)*MD/PD					
D							
(8) to -0.5 mPE S2 (@ 0mPD	) silentmethod						
tion S2 preloa	, d (5 cycles, 3-4 struct	cycle/day, 19 nos	strut)				
ion (-0.5 to -1.7 STB - ELS	, d (5 cycles, 3-4 struct mPD, 500m3 @ 200 (Stage 2), Demolish	)m3/d)*MD/PD remaining existind	AFT (8) to -1.7 mPF	) silentmet	hod		
STE	3 - Pile Cap Construc	tion (-3.55 to -0.5n	nPD,2.055m)Base	Slab and V	Nall (incl.earth mat	in stalla	ton)
13/d) after BH1	footing backfilled						
	le/day, 16 struts) 30m3 @ 1000m3/d)	*MD					
S3 (-0.2mPD)							
	0.2mPD)(4 cycle, 5 s avation (-0.7 to -3.2m						
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<ul> <li>Sinade Dig</li> </ul>	jester No. 1-3 - Prelo	auny strut 54 (-2.	பாப)(4 cyCle, 5 st	ub/Cycle/da	ay, io situis)		
struction	BHNo	1 - Tank wall (2nd	to 3rd Ring) and tan	kmounting	ring construction a	ind wel	ding
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- 1	Z3S5UC1-2200	UC/PP - Predrill UC&PP-PD6	6	09-Jan-24	15-Jan-24	-23	1							UC/PP	- Predrill UC	&PP-PD6									



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

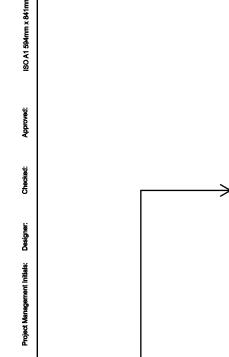
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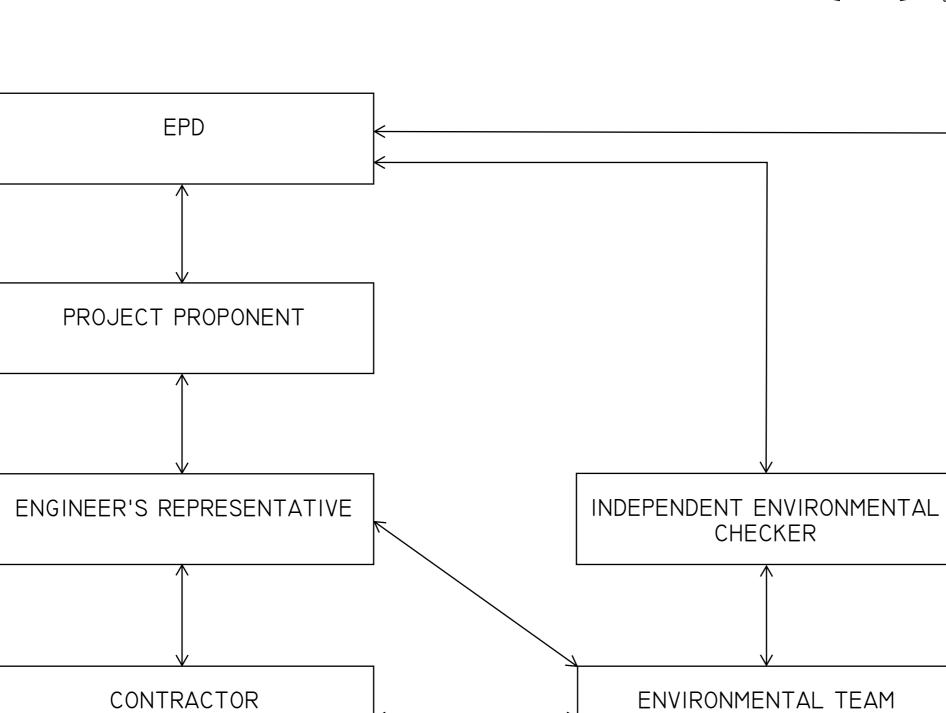
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Appendix B Project Organization Chart





### LINE OF COMMUNICATION

LEGEND:



# PROJECT <sup>東目</sup>

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

# CLIENT



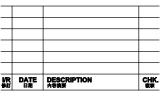
築務署 Drainage Services Departm

### CONSULTANT 工程網開公司

AECOM Asia Company Ltd. www.aecom.com

## SUB-CONSULTANTS 分判工程期間公司

# ISSUE/REVISION



/R 師	DATE 日期	DESCRIPTION 內容摘要
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KEY PLAN ★헤르

PROJECT NO. CE 3/2015 (DS)

CONTRACT NO.

60505476

SHEET TITLE

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	<sup>1</sup> For baseline level $\leq$ 384 µg/m <sup>3</sup> , Action level = (baseline level * 1.3 + Limit level)/2; For baseline level > 384 µg/m <sup>3</sup> , Action level = Limit level	500 µg/m <sup>3</sup>

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/m<sup>3</sup>.

### Action and Limit Levels for Construction Noise

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

Notes:

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

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

### Action and Limit Levels for Water Quality

Parameters	Action Levels	Limit Levels			
Construction Phase Water Quality Monitoring					
DO in mg/L (Surface, Middle & Bottom) <sup>2</sup>	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 <sup>1</sup> ) <sup>3</sup>	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 <sup>1</sup> ) <sup>3</sup>	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:	uay	-			

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) <sup>1</sup>	72.2 dB(A) <sup>2</sup>
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 <sup>3</sup>	Limit Level <sup>3</sup>
Transect	Abundance of all avifauna species (including but not only limited to overwintering waterbirds) in the community		Significant decline in any of these parameters for three consecutive months.
	Species diversity of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Abundance of species with conservation importance only	Significant decline <sup>1,2</sup> in any of these parameters during the current monitoring	
	Species diversity of species with conservation importance only		
Point Count	Abundance of all avifauna species (including but not only limited to overwintering waterbirds) in the community	month relative to the corresponding month during the baseline survey.	
	Species diversity of all avifauna species (including but not only limited to overwintering waterbirds) in the community		
	Abundance of species with conservation importance only		
	Species diversity of species with conservation importance only		

Notes:

1. Significant decline in abundance will be determined using two-tailed t-test,  $\alpha = 0.05$ .

2. Significant decline in species diversity will be determined using the Hutcheson t-test, two tailed.

3. Response will be triggered if any of the above level is reached for each parameter

## Appendix D Calibration Certificates/ Reports of Monitoring Equipment

Air Quality Monitoring Equipment



SIBATA SCIENTIFIC TECHNOLOGY LTD. 1-1-62, Nakane, Soka, Saitama, 340-0005 Japan TEL. +81-48-933-1582 FAX. +81-48-933-1591

Date: January 23th, 2023

## CALIBRATION CERTIFICATE

Equipment Name Code No. Quantity Serial No. Sensitivity Sensitivity Adjustment Scale Setting

- : Digital Dust Indicator, Model LD-5R
- : 080000-73
- : 1 unit
- : 2Y6548
- : 0.001 mg/m3
- : 545 CPM
- : November 15th, 2022.

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

10ng Zhang (Signature) Tong Zhang Overseas & New Business Group VHO

**Overseas Sales Department** 





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

Information of Calibrated Equipement							
Verification Test Date:	8-Apr-23	to	9-Apr-23		Next Verification Test Date:	8-Apr-24	
– Unit-under-Test- Model No.:		Sibata LD-5R		_			
– Unit-under-Test Serial No.:		2Y6548		_			
Our Report Refrence No.:	RP <sup>-</sup>	T-23-HVS-004	45				
– Calibration Location:			E	Emax			

## **Standard Equipment Information**

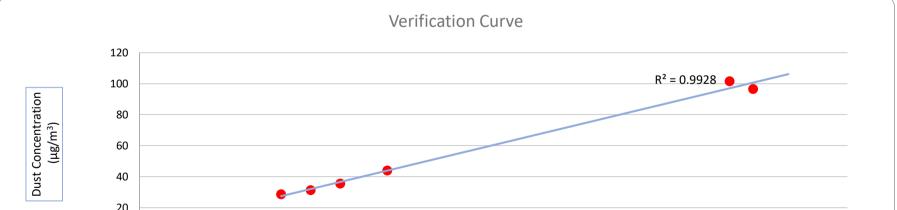
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1049	3702
Last Calibration Date:	8-Apr-23	31-Mar-23
Next Calibration Date:	7-Jun-23	30-Mar-24

### **Equipement Vertification Result**

Verification	Duration			Results from	Calibrated Equipement	Results from Standard Equipment	
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m <sup>3</sup> ) y-axis
1	8/4/2023	7339.85	7342.85	180.00	2520	14	44
2	8/4/2023	7342.85	7345.85	180.00	2040	11	36
3	8/4/2023	7345.85	7348.85	180.00	6240	35	97
4	9/4/2023	7349.74	7352.74	180.00	1440	8	29
5	9/4/2023	7352.76	7355.76	180.00	1740	10	31
6	9/4/2023	7355.77	7358.77	180.00	6000	33	102

## Linear Regression of y on x

Slope, K factor: <b>2.7466</b>	Intercept:	5.4440	*Correlation Coefficient,R:	<u>0.9964</u>
Verification Test Result: Strong Con	relation, Results were accepted.	*	If the Correlation Coefficient, R is <0.5. Check	ing and Re-verification are required.



20 0 0 10 15 5 20 25 30 35 40 Count/Minute Operated By: Andy Li 10-04-2023 Date: Project Technician, Environmental Checked By: 10-04-2023 Date: Tandy Tse Senior Consultant, Environmental



SIBATA SCIENTIFIC TECHNOLOGY LTD. 1-1-62, Nakane, Soka, Saitama, 340-0005 Japan TEL. +81-48-933-1582 FAX. +81-48-933-1591

Date: January 23th, 2023

## CALIBRATION CERTIFICATE

Equipment Name Code No. Quantity Serial No. Sensitivity Sensitivity Adjustment Scale Setting

: Digital Dust Indicator, Model LD-5R

: 080000-73

: 1 unit

: 2Y6549

: 0.001 mg/m3

: 549 CPM

: November 15th, 2022.

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

' Zhang (Signature) Tong Zhang Overseas & New Business Group **Overseas Sales Department** 





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

Information of Calibrated Equipement						
Verification Test Date:	8-Apr-23	to	9-Apr-23	Next Verification Test Date:	8-Apr-24	
Unit-under-Test- Model No.:		Sibata LD-5R				
– Unit-under-Test Serial No.:		2Y6549				
– Our Report Refrence No.:	R	RPT-23-HVS-0046	6			
– Calibration Location:			Er	ax		

## **Standard Equipment Information**

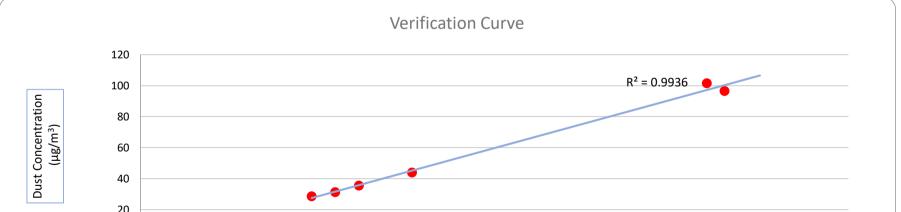
Verifica	ition Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard E	equipment Model No.:	TE-5170X	TE-5028A
	Equipment serial no.:	1049	3702
	Last Calibration Date:	8-Apr-23	31-Mar-23
	Next Calibration Date:	7-Jun-23	30-Mar-24

## **Equipement Vertification Result**

Verification		Duration			<b>Results from</b>	Calibrated Equipement	Results from Standard Equipment
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m <sup>3</sup> ) y-axis
1	8/4/2023	7339.85	7342.85	180.00	2760	15	44
2	8/4/2023	7342.85	7345.85	180.00	2220	12	36
3	8/4/2023	7345.85	7348.85	180.00	5940	33	97
4	9/4/2023	7349.74	7352.74	180.00	1740	10	29
5	9/4/2023	7352.76	7355.76	180.00	1980	11	31
6	9/4/2023	7355.77	7358.77	180.00	5760	32	102

## Linear Regression of y on x

Slope, K factor: <u>3</u> .	.1227 Intercept:	<u>-2.7291</u>	*Correlation Coefficient,R:	<u>0.9968</u>
Verification Test Result: Stron	Verification Test Result: Strong Correlation, Results were accepted.		If the Correlation Coefficient, R is <0.5. Check	ing and Re-verification are required.



20 0 0 10 15 5 20 25 30 35 40 Count/Minute Operated By: Andy Li 10-04-2023 Date: Project Technician, Environmental Checked By: 10-04-2023 Date: Tandy Tse Senior Consultant, Environmental

Noise Quality Monitoring Equipment



# Certificate of Calibration

for

Sound Level Calibrator
RION
NC-74
34615222

## 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

Calibrated by:

#### 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: 16 March 2023

Date of calibration: 21 March 2023

Date of NEXT calibration: 20 March 2024

Calibration Technician

Date of issue: 21 March 2023

Certificate No.: APJ22-157-CC004

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Page 1 of 2

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

## (A+A)\*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

## 1. Calibration Precautions:

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

## 2. Calibration Specifications:

Calibration check

## 3. Calibration Conditions:

Air Temperature:	22.1 °C
Air Pressure:	1006 <b>hPa</b>
<b>Relative Humidity:</b>	61.7 %

## 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 dB	Accept upper level	Measured value
dB		dB	dB
94.0	93.6	94.4	93.9

Note:

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



Certificate No.: APJ22-157-CC004

Page 2 of 2



## Cal Lab Limited 校正實驗室有限公司

Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong +852 25680106 Tel: Email: info@callab.com.hk Fax: +852 30116194 Website: www.callab.com.hk



N/A

#### Calibration Certificate No.: CC0292304

#### **Customer Information**

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

#### **Equipment Identification**

<b>Equipment Description</b>	Manufacturer	Model No.	Serial No.	Assigned equipment No.
Air Velocity Monitor	RS PRO	RS-90	210722153	ASCL-EQ-110
Certificate Information				
Date of Receipt:	24 April 2023		Calibration Condition:	23.3°C, 57%RH, 1002hPa
Date of Calibration:	5 May 2023		Adjustment:	N/A
Due Date of Calibration:	N/A		Appearance:	Good
Calibration Procedure:	SOP-112		Remark:	N/A

Remark:

#### **Reference Equipment Identification**

Equipment Description	Model	Serial No.	Expiration Date	
Hot Wire Anemometer	9535	T95351316004	11 August 2024	-

#### **Result of Calibration**

#### Air flow rate

Reference reading (m/s)	Measured reading (m/s)	Error (%)	Uncertainty (%FS)	Technical Requirement (m/s)	Technical Reference Doc.
1.02	1.03	1.0	3.6	± 0.33	Mfr's Spec.
2.99	2.97	-0.7	3.6	± 0.39	Mfr's Spec.
5.03	4.92	-2.2	3.6	± 0.45	Mfr's Spec.
6.98	6.86	-1.7	3.6	± 0.51	Mfr's Spec.
9.97	9.76	-2.1	3.6	± 0.60	Mfr's Spec.

CT-AFR-01

The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a level Note1: of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Note2: The standard (s) and instrument used in the calibration are traceable to national or international recognized standard and are calibrated on a schedule to maintain the accuracy and good condition.

The result reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the Note3: instrument.

Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received

Checked and Approved By:

Calibrated By:

Wing Cheng

Warren Yeung

Company Chop:



Certificate Issue Date: 5 May 2023

\*\*\* End of Certificate \*\*\*

CT-BEG-03

1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration

2. The certificate is issued subject to the latest Terms and Conditions, available at our web site

CC0292304 Page 1 of 1



# Certificate of Calibration

### for

Description:	Sound Level Calibrator
Manufacturer:	SVANTEK
Type No.:	SV33B
Serial No.:	83042

## 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

#### 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: 2 May 2023

Date of calibration: 9 May 2023

Date of NEXT calibration: 8 May 2024

Calibrated by: Calibration Technician

Certified by:\_\_\_\_\_\_

Mr. Ng Yan Wa

**Laboratory** Manager Page 1 of 2

Date of issue: 9 May 2023

Certificate No.: APJ22-157-CC005

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

# (A+A)\*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

## 1. Calibration Precautions:

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

## 2. Calibration Specifications:

Calibration check

## 3. Calibration Conditions:

Air Temperature:	22.4 °C
Air Pressure:	1006 <b>hPa</b>
<b>Relative Humidity:</b>	60.9 <b>%</b>

## 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
114.0	113.6	114.4	114.2

Note:

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



Certificate No.: APJ22-157-CC005

## **Certificate of Calibration**

### for

Description:	Sound Level Meter
Manufacturer:	NTi Audio
Type No.:	XL2 (Serial No.: A2A-13548-E0)
Microphone:	ACO 7052 (Serial No.:73912)
Preamplifier:	NTi Audio M2211 MA220 (Serial No.:5735)

## 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

Date of receipt: 2 February 2023

Date of calibration: 6 February 2023

Date of NEXT calibration: 5 February 2024

Calibrated by:

**Calibration** Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Page 1 of 4

Certificate No.: APJ22-124-CC001

Date of issue: 6 February 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 E-mail : inquiry@aa-lab.com

## (A+A)\*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

## 1. Calibration Precaution:

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

## 2. Calibration Conditions:

Air Temperature:	23.9°C
Air Pressure:	1006 hPa
<b>Relative Humidity:</b>	47.9 %

## 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	Weighting	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. W	Veighting	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

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	SDI Fast	1000	94.1	Ref	
50-150 UBA	. SFL	SPL Slow	94		94.1	±0.3	

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Certificate No.: APJ22-124-CC001

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com



#### Frequency Response

#### Linear Response

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.2	±1.4
					1000	94.1	Ref
					2000	94.5	±1.6
					4000	95.2	±1.6
					8000	94.9	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 ±2.0
					63	68.0	-26.2±1.5
			125	78.0	-16.1±1.5		
				250	85.5	-8.6±1.4	
30-130	dBA	SPL	Fast	94	500	91.0	$-3.2 \pm 1.4$
					1000	94.1	Ref
					2000	95.7	$+1.2 \pm 1.6$
			4000	96.2	$+1.0 \pm 1.6$		
					8000	93.9	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)		Appl	Applied value		IEC 61672 Class		
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.0±2.0
					63	93.4	$-0.8 \pm 1.5$
			125	94.0	$-0.2 \pm 1.5$		
					250	94.1	$-0.0 \pm 1.4$
30-130	dBC	SPL	Fast	94	500	94.2	$-0.0 \pm 1.4$
					1000	94.1	Ref
			2000	94.3	-0.2 ±1.6		
					4000	94.4	$-0.8 \pm 1.6$
					8000	92.0	-3.0 +2.1: -3.1

Certificate No.: APJ22-124-CC001



Page 3 of 4

## (A+A)\*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

## 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:

	1	
94 dB	31.5 Hz	$\pm$ 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.10
	1000 Hz	$\pm$ 0.05
	2000 Hz	$\pm$ 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.: APJ22-124-CC001



## **Manufacturer Calibration Certificate**

The following instrument has been tested and calibrated to the manufacturer specifications. The calibration is traceable in accordance with ISO/IEC 17025 covering all instrument functions.

- Device Type: XL2 Audio and Acoustic Analyzer
- Serial Number: A2A-13663-F0

- Certificate Issued: 15 February 2023
- Certificate Number: 44972-A2A-13663-F0
- Results:

**PASSED** (for detailed report see next page)

Tested by:

Signature:

Stamp:

M. Frick Audio AG NI Im alten Rist 102 LI - 9494 Schaan www.nti-audio.com

Calibration of:	XL2 Audio and Acoustic Analyzer
Serial Number:	A2A-13663-F0
Date:	15 February 2023

· Detailed Calibration Test Results:

RMS Level @ 1kHz, XLR I	reference nput 0.1 1 10	actual 0.100 0.999 9.982	unit V V V	actual error ≤0.1% -0.1% -0.2%	XL2 tolerance ±0.5% ±0.5% ±0.5%	calibration uncertainty <sup>2</sup> $\pm 0.10\%$ $\pm 0.09\%$ $\pm 0.09\%$
riddrood, rizi i input	20 Hz 1 20 kHz 1	0.995 1.003	V V	-0.5% 0.3%	±1.1% ±1.1%	±0.09% ±0.09%
Frequency	1000	1000.00	Hz	≤0.003%	±0.003%	±0.01%
Residual Noise	XLR	< 2 uV			<2 uV	±0.50%
THD+N @ 0 dBu, 1 kHz, X	(LR Input	-100.5	dB		typ100 dB	±0.50%

- 24.9 °C Temperature: Test Conditions: 19.8 % **Relative Humidity:**
- · Calibration Equipment Used:
- Agilent Multimeter, Typ 34401A, Serial No. MY 5300 4607 Last calibration: 15.09.2022, Next calibration: 15.09.2023 Calibrated by ELCAL to the national standards maintained at Swiss Federal Office of Metrology. SCS 0002

- FX100 Audio Analyzer, Serial No. 10408 Last Calibration: 11.10.2022, Next Calibration: 11.10.2023 Manufacturer calibration based on Agilent 34410, Serial No. MY47014254, Last Calibration: 26.05.2022, Next Calibration: 26.05.2023 which is calibrated by ELCAL to national standards maintained at Swiss Federal Office of Metrology. SCS 002

<sup>1</sup> The specified tolerance +/-0.1 dB @ 1V = +/-1.1%

<sup>2</sup> The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with the regulations of the GUM.

# Certificate of Calibration

### for

Description:	Sound Level Meter
Manufacturer:	NTi Audio
Type No.:	XL2 (Serial No.: A2A-17638-E0)
Microphone:	ACO 7052 (Serial No.:84413)
Preamplifier:	NTi Audio M2211 MA220 (Serial No.:7014)
	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

Date of receipt: 30 March 2023

Date of calibration: 04 April 2023

Date of NEXT calibration: 03 April 2024

Calibrated by:

Calibration Technician

Date of issue: 04 April 2023

Certificate No.: APJ22-164-CC001

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Page 1 of 4

## (A+A)\*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

## 1. Calibration Precaution:

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

## 2. Calibration Conditions:

Air Temperature:	21.6 °C
Air Pressure:	1005 hPa
<b>Relative Humidity:</b>	71.6 %

## 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

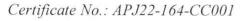
Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

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

Time Weighting

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	Ref
30-130	uDA	UDA SPL	Slow	94	1000	94.1	±0.3





Page 2 of 4



Frequency Response

#### Linear Response

Setting of Unit-under-test (UUT)		Appl	Applied value		IEC 61672 Class 1		
Range, dB	Freq. W	/eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.1	±1.5
					125	94.1	±1.5
					250	94.0	±1.4
30-130	dB	dB SPL	Fast	94	500	94.1	±1.4
					1000	94.1	Ref
				2000	94.3	±1.6	
					4000	94.9	±1.6
					8000	93.9	+2.1: -3.1

A-weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Range, dB Freq. Weighting Time Weighting		req. Weighting Time Weighting Level, dB Frequency, Hz		dB	Specification, dB	
					31.5	54.7	-39.4 ±2.0
				63	67.9	-26.2±1.5	
			125	78.0	-16.1±1.5		
		dBA SPL	Fast	94	250	85.4	-8.6±1.4
30-130	dBA				500	90.9	$-3.2 \pm 1.4$
					1000	94.1	Ref
					2000	95.5	$+1.2 \pm 1.6$
				4000	95.9	$+1.0 \pm 1.6$	
					8000	92.8	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	B Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.0	-3.0±2.0
					63	93.3	$-0.8 \pm 1.5$
				125	93.9	$-0.2 \pm 1.5$	
					250	94.1	$-0.0 \pm 1.4$
30-130	dBC	dBC SPL	Fast	94	500	94.2	$-0.0 \pm 1.4$
					1000	94.1	Ref
					2000	94.2	$-0.2 \pm 1.6$
					4000	94.1	$-0.8 \pm 1.6$
					8000	90.9	-3.0 +2.1: -3.1

Certificate No.: APJ22-164-CC001



Page 3 of 4

## (A+A)\*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

## 5. Calibration Results Applied

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

Uncertainties of Applied Value:

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



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Certificate No.: APJ22-164-CC001

Water Quality Monitoring Equipment



Test Report No.:Date of Issue:Page No.:

: R-BC120002 : 05 December 2023 : 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-Param				
Manufacturer :	YSI (a xylem brand)			
Serial Number :	22D100436			
Date of Received :	01 December 2023			
Date of Calibration :	04 December 2023			
Date of Next Calibration :	03 March 2024			
Request No. :	D-BC120002			

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

e Method
e 4500-H+ B
of international Accreditation New Zealand Technical Guide no. 3 Second edition March
rking Thermometer Calibration Procedure
e 2520 B
e 4500-O G (Membrane Electrode Method)
e 2130 B (Nephelometric Method)

#### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.13	0.13	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.02	0.01	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
36	35.5	-0.5	Satisfactory
25	24.8	-0.2	Satisfactory
15	15.1	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	9.57	-4.30	Satisfactory
20	19.14	-4.30	Satisfactory
30	29.99	-0.03	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager



Test Report No.	: R-BC120002
Date of Issue	: 05 December 2023
Page No.	: 2 of 2

#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.99	8.35	0.36	Satisfactory
5.00	5.10	0.10	Satisfactory
2.58	2.40	-0.18	Satisfactory
0.10	0.20	0.10	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	0.50		Satisfactory
10	9.88	-1.2	Satisfactory
20	18.35	-8.2	Satisfactory
100	95.10	-4.9	Satisfactory
800	736.55	-7.9	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 ---



Test Report No.	:
Date of Issue	:
Page No.	:

: R-BC100051 : 24 October 2023 : 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 :	19 October 2023
Date of Calibration :	24 October 2023
Date of Next Calibration :	23 January 2024
Request No. :	D-BC100051

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Test Parameter</u>	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> 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	4.09	0.09	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.08	0.07	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
16	15.6	-0.4	Satisfactory
23	22.1	-0.9	Satisfactory
38	36.9	-1.1	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	10.01	0.10	Satisfactory
20	20.63	3.15	Satisfactory
30	31.63	5.43	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun ning Assistant Manager



Test Report No.	: R-BC100051
Date of Issue	: 24 October 2023
Page No.	: 2 of 2

#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.17	8.55	0.38	Satisfactory
5.47	5.83	0.36	Satisfactory
1.43	1.21	-0.22	Satisfactory
0.05	0.27	0.22	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	0.79		Satisfactory
10	9.66	-3.4	Satisfactory
20	18.21	-9.0	Satisfactory
100	97.55	-2.5	Satisfactory
800	753.80	-5.8	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 ---



Test Report No. Date of Issue Page No.

: R-BD010030 : 25 January 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-Para	
Manufacturer :	YSI (a xylem brand)
Serial Number :	22C106561
Date of Received :	22 January 2024
Date of Calibration :	24 January 2024
Date of Next Calibration :	24 April 2024
Request No. :	D-BD010030

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Test Parameter</u>	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> 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	4.02	0.02	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.05	0.04	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
33	34.1	1.1	Satisfactory
19	18.7	-0.3	Satisfactory
11	11.5	0.5	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	10.19	1.90	Satisfactory
20	21.27	6.35	Satisfactory
30	30.21	0.70	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager



Test Report No.	:R-BD010030
Date of Issue	: 25 January 2024
Page No.	: 2 of 2

#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result	
8.60	8.89	0.29	Satisfactory	
5.33	5.70	0.37	Satisfactory	
3.40	3.50	0.10	Satisfactory	
0.34	0.26	-0.08	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	0.50		Satisfactory
10	9.88	-1.2	Satisfactory
20	18.35	-8.2	Satisfactory
100	95.10	-4.9	Satisfactory
800	736.55	-7.9	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 (January 2024)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1 WQM Mid Flood (11:30) Mid Ebb (17:00)	2	3 <b>WQM</b> Mid Flood (12:30) Mid Ebb (18:00)	4 AQM, NM	5 <b>WQM</b> Mid Flood (15:00) Mid Ebb (08:30)	6
7	8 <b>WQM</b> Mid Flood (16:30) Mid Ebb (11:30)	9	10 <b>WQM, AQM, NM</b> Mid Flood (08:30) Mid Ebb (13:30)	11	12 <b>WQM</b> Mid Flood (10:00) Mid Ebb (14:30)	13
14	15 WQM, EMB (Day), ANRM Mid Flood (11:40) Mid Ebb (17:00)	16 AQM, NM	17 <b>WQM</b> Mid Flood (12:30) Mid Ebb (18:03)	18	19 <b>WQM</b> Mid Flood (14:00) Mid Ebb (07:30)	20
21	22 <b>WQM, AQM, NM</b> Mid Flood (16:00) Mid Ebb (11:50)	23	24 <b>WQM</b> Mid Flood (08:30) Mid Ebb (13:03)	25	26 <b>WQM, AQM</b> Mid Flood (09:00) Mid Ebb (14:00)	27
28	29 <b>WQM</b> Mid Flood (10:50) Mid Ebb (15:03)	30	31 <b>WQM</b> Mid Flood (11:00) Mid Ebb (17:00)			

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 (February 2024)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1 AQM, NM	2 <b>WQM</b> Mid Flood (11:21) Mid Ebb (17:51)	3
4	5 <b>AQM, NM, EMB (Day),</b> <b>WQM</b> Mid Flood (09:51) Mid Ebb (18:13)	6	7 <b>WQM</b> Mid Flood (16:00) Mid Ebb (12:24)	8	9 <b>AQM, WQM</b> Mid Flood (08:16) Mid Ebb (13:45)	10
11	12 WQM Mid Flood (10:08) Mid Ebb (15:56)	13	14 <b>WQM</b> Mid Flood (10:40) Mid Ebb (16:50)	15 AQM, NM	16 <b>WQM</b> Mid Flood (11:23) Mid Ebb (17:11)	17
18	19 <b>WQM</b> Mid Flood (11:30) Mid Ebb (18:36)	20	21 <b>AQM, NM, WQM</b> Mid Flood (17:13) Mid Ebb (12:30)	22	23 WQM Mid Flood (17:32) Mid Ebb (14:13)	24
25	26 <b>WQM</b> Mid Flood (10:10) Mid Ebb (15:27)	27 AQM, NM	28 WQM, EMB (Night), ANRM Mid Flood (09:56) Mid Ebb (15:37)	29		

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
- Noise Monitoring Location: CM1, CM2 and CM3
   Water Quality Monitoring Location: M1, M2, M3

Environmental Monitoring Schedule (March 2024)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1 <b>WQM</b> Mid Flood (10:40) Mid Ebb (15:20)	2
3	4 <b>WQM, AQM, NM</b> Mid Flood (13:15) Mid Ebb (09:00)	5 ANRM , EMB (Day)	6 <b>WQM</b> Mid Flood (14:50) Mid Ebb (10:25)	7	8 <b>WQM, AQM</b> Mid Flood (15:15) Mid Ebb (09:30)	9
10	11 <b>WQM</b> Mid Flood (09:00) Mid Ebb (12:15)	12	13 <b>WQM</b> Mid Flood (13:30) Mid Ebb (08:30)	14 AQM, NM	15 <b>WQM</b> Mid Flood (10:00) Mid Ebb (14:50)	16
17	18 <b>WQM</b> Mid Flood (12:40) Mid Ebb (17:55)	19	20 <b>WQM, AQM, NM</b> Mid Flood (14:20) Mid Ebb (09:40)	21	22 <b>WQM</b> Mid Flood (15:30) Mid Ebb (09:00)	23
24	25 WQM Mid Flood (09:10) Mid Ebb (12:00)	26 AQM, NM	27 <b>WQM</b> Mid Flood (08:30) Mid Ebb (13:10)	28	29 WQM Mid Flood (09:50) Mid Ebb (14:20)	30
31						

Remarks:

1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

- 2. Air Quality Monitoring (**AQM**): 3 x 1-hour TSP Monitoring per 6 days.
- 3. Noise Monitoring (NM): Leq (30 min) during between 0700 1900.
- 4. Water Quality Monitoring (WQM): Once per day for 3 days per week.

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

## Appendix F Environmental Monitoring Results

Air Quality Monitoring Results

### 1-hour TSP Monitoring Result for Contract No. SPW 02/2023 Environmental Team for Construction of Yuen Long Effluent Polishing Plant Stage 1

			1-hour TSP (µg/m³)				
Date	Weather	Start	1st	2nd	3rd	Action Level	Limit Level
	Condition	Time	Measurement	Measurement	Measurement	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
4/01/2024	fine	8:09	55	53	50		
10/01/2024	fine	8:10	54	52	51		
16/01/2024	fine	8:12	53	54	52	291	500
22/01/2024	fine	9:00	52	53	50		
28/01/2024	fine	9:03	51	56	52		
		Min	50				
		Max		56			
		Average		53			

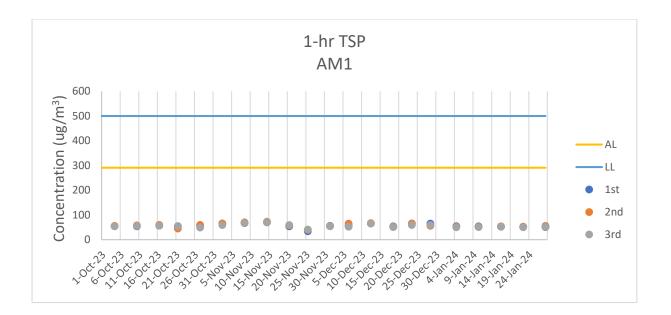
#### AM1 - Topfine Machinery (China) Co. Ltd.

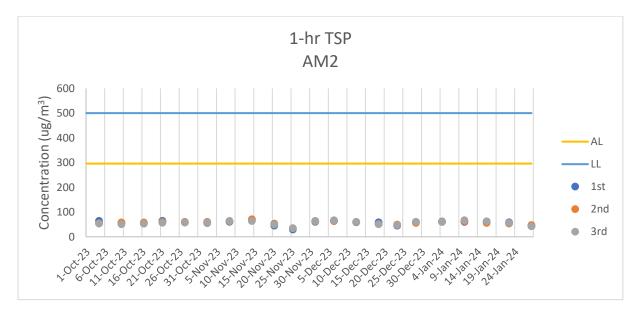
#### AM2 - Squatter house at the west of Yuen Long STW

			1-hour TSP (μg/m³)				
Date	Weather	Start	1st	2nd	3rd	Action Level	Limit Level
	Condition	Time	Measurement	Measurement	Measurement	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
4/01/2024	fine	13:03	62	60	61		
10/01/2024	fine	13:10	60	62	67		
16/01/2024	fine	13:43	62	56	63	296	500
22/01/2024	fine	13:00	59	54	56		
28/01/2024	fine	13:23	44	48	43		
		Min	43				
Max			67				
		Average	56				

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 <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
4/01/2024	08:33	61.2	62.4	56.2	0.3	sunny	75
10/01/2024	08:41	60.4	61.4	56.4	1.8	sunny	75
16/01/2024	09:02	63.2	64.5	55.4	3.4	sunny	75
22/01/2024	08:36	60.3	62.2	54.5	3.1	sunny	75
26/01/2024	08:43	61.1	63.4	53.5	2.5	sunny	75
	Max	63.2					
	Min	60.3					

### CM1 - Squatter house to the north of YLSTW

### CM2 - Squatter house to the west of YLSTW

			L <sub>10</sub>	L <sub>90</sub>	Wind Speed		Limit Level
Date	Start Time	L <sub>eq</sub> 30min dB(A)	dB(A)	dB(A)	(m/s)	Weather	dB(A)
4/01/2024	09:54	61.4	63.2	59.9	2.2	sunny	75
10/01/2024	10:21	62.4	62.9	59.3	1.9	sunny	75
16/01/2024	10:42	63.6	64.5	60.3	2	sunny	75
22/01/2024	09:48	62	63.4	57.5	4	sunny	75
26/01/2024	09:51	62.1	64.5	60.5	2.1	sunny	75
	Max	63.6					
	Min	61.4					

### CM3 - Squatter house to the east of YLSTW

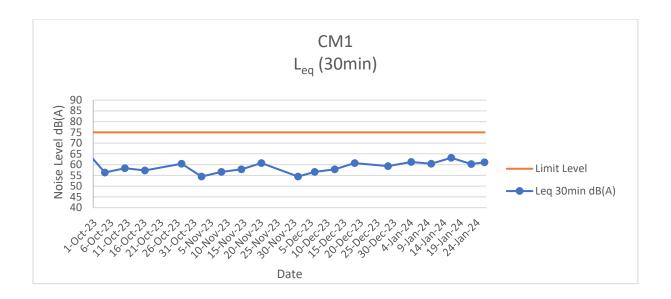
Date	Start Time	L <sub>ea</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
4/01/2024	11:12	62.3	64.4	60.5	3.4	sunny	75
10/01/2024	11:43	63.5	65.5	60.3	1.8	sunny	75
16/01/2024	11:56	64.2	66.5	61.5	2.4	sunny	75
22/01/2024	11:04	62.4	63.5	60.2	3.7	sunny	75
26/01/2024	11:22	62.1	63.9	59.4	3.6	sunny	75
	Max	64.2					
	N41	00.4					

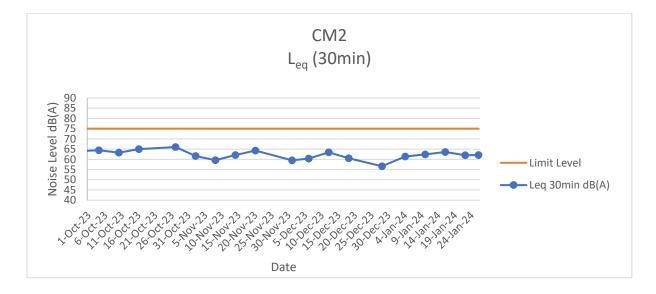
Min 62.1

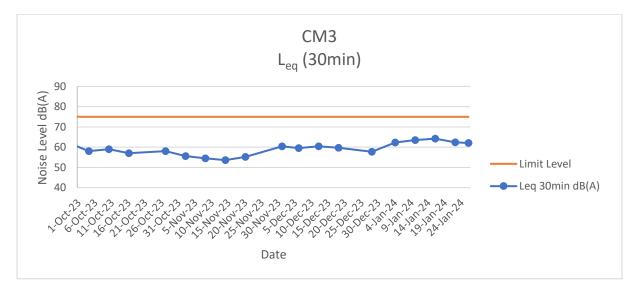
Note:

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

In-situ Measurement A										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	H	Salinit	y (ppt)	Tempe (degr		DO Sa (%	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	1/01/2024	Mid-Flood	Cloudy	Low	16:23	2.6	М	1.30	1	0.091	170.931	7.26	7.26	7.21	7.22	20.9	20.95	37.2	37.84	2.8	2.85	16.22	16.22	28	37
M1	1/01/2024	Mid-Flood	Cloudy	Low	16:23	2.6	M	1.30	2	0.001	170.001	7.26	1.20	7.23	1.22	21	20.33	38.4	57.04	2.89	2.05	16.21	10.22	46	57
M2	1/01/2024	Mid-Flood	Cloudy	Low	16:47	2.4	М	1.20	1	0.095	181.344	7.26	7.26	7.19	7.17	20.9	20.90	34.0	34.65	2.56	2.61	15.64	15.72	46	41
M2	1/01/2024	Mid-Flood	Cloudy	Low	16:47	2.4	М	1.20	2	0.035	101.544	7.25	1.20	7.14	7.17	20.9	20.30	35.2	54.05	2.65	2.01	15.8	15.72	35	41
M3	1/01/2024	Mid-Flood	Cloudy	Low	16:41	2.6	M	1.30	1	0.074	181.549	7.24	7.24	7.13	7.16	20.9	20.95	33.4	34.05	3.51	3.56	18.31	18.28	37	12
M3	1/01/2024	Mid-Flood	Cloudy	Low	16:41	2.6	M	1.30	2	0.074	101.543	7.24	1.24	7.19	7.10	21	20.35	34.7	54.05	3.61	5.50	18.24	10.20	47	72
M1	1/01/2024	Mid-Ebb	Cloudy	Low	11:55	2.5	М	1.25	1	0.07	340.881	7.21	7.20	7.52	7.51	21.1	21.10	37.1	36.97	2.79	2.78	16.43	16.52	29	28
M1	1/01/2024	Mid-Ebb	Cloudy	Low	11:55	2.5	M	1.25	2	0.07	340.001	7.19	1.20	7.5	7.51	21.1	21.10	36.8	50.57	2.77	2.70	16.61	10.52	27	20
M2	1/01/2024	Mid-Ebb	Cloudy	Low	11:30	2.2	М	1.10	1	0.072	314.742	7.21	7.21	7.46	7.49	21.1	21.15	35.9	36.58	2.7	2.75	17.70	17.67	18	19
M2	1/01/2024	Mid-Ebb	Cloudy	Low	11:30	2.2	М	1.10	2	0.072	514.742	7.21	1.21	7.52	1.45	21.2	21.15	37.2	50.50	2.8	2.75	17.63	17.07	20	13
M3	1/01/2024	Mid-Ebb	Cloudy	Low	11:50	2.4	М	1.20	1	0.077	336.462	7.2	7.20	7.37	7.37	21.1	21.10	38.6	38.57	2.9	2.90	19.88	19.88	20	18
M3	1/01/2024	Mid-Ebb	Cloudy	Low	11:50	2.4	М	1.20	2	0.077	330.402	7.2	7.20	7.37	1.31	21.1	21.10	38.6	50.57	2.9	2.90	19.88	19.00	16	10

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.

FUI FIOOU TILE								
Monitoring	D	0	N	TU	S	S		
Location	AL	LL	AL	LL	AL	LL		
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112		
M3(Impact Station)	3.28	3.14	74	78	104	167		
For Ebb Tide								

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

								In-situ Measurement									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	Ŧ	Salinity	/ (ppt)	Tempe (degro		DO Sat (%		DO (n	ng/L)	Turbidity	y (NTU)	Total Sus Solids (	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	3/01/2024	Mid-Flood	Sunny	Low	12:36	2.5	M	1.25	1	0.087	185.861	7.14	7.14	6.61	6.66	21.8 21.8	21.80	38.4	38.70	2.89	2.91	26.11	26.09	43	39
M1	3/01/2024	Mid-Flood	Sunny	Low	12:36	2.5	М	1.25	2	0.001	100.001	7.13	7.14	6.7	0.00		21.00	39.0	00.70	2.93	2.01	26.07	20.00	35	00
M2	3/01/2024	Mid-Flood	Sunny	Low	12:57	2.1	М	1.05	1	0.075	167.236	7.19	7.19	6.59	6.55	21.8	21.80	37.4	37.04	2.81	2.79	25.42	25.265	42	42
M2	3/01/2024	Mid-Flood	Sunny	Low	12:57	2.1	М	1.05	2	0.070	107.200	7.19	7.10	6.5	0.00	21.8	21.00	36.7	67.04	2.76	2.75	25.11	20.200	42	72
M3	3/01/2024	Mid-Flood	Sunny	Low	12:54	2	М	1.00	1	0.083	185.545	7.12	7.12	6.62	6.62	21.8	21.80	38.4	38.44	3.89	3.89	29.66	29.62	42	39
M3	3/01/2024	Mid-Flood	Sunny	Low	12:55	2	М	1.00	2	0.003	105.545	7.11	7.12	6.62	0.02	21.8	21.00	38.4	30.44	3.89	3.09	29.58	29.02	36	39
M1	3/01/2024	Mid-Ebb	Sunny	Low	18:39	2.4	М	1.20	1	0.07	317.78	7.14	7.15	6.60	6.60	21.9	21.90	37.0	36.97	2.78	2.78	18.43	18.515	44	40
M1	3/01/2024	Mid-Ebb	Sunny	Low	18:40	2.4	М	1.20	2	0.07	317.70	7.16	7.15	6.6	0.00	21.9	21.90	37.0	30.97	2.78	2.70	18.6	10.010	35	40
M2	3/01/2024	Mid-Ebb	Sunny	Low	18:14	2.1	М	1.05	1	0.079	339.186	7.2	7.20	6.63	6.63	21.7	21.70	38.0	38.04	2.86	2.86	19.11	19.07	39	36
M2	3/01/2024	Mid-Ebb	Sunny	Low	18:14	2.1	М	1.05	2	0.079	559.100	7.19	1.20	6.63	0.03	21.7	21.70	38.0	30.04	2.86	2.00	19.03	19.07	33	30
M3	3/01/2024	Mid-Ebb	Sunny	Low	18:36	2.2	М	1.10	1	0.066	331.317	7.18	7.18	6.63	6.63	21.7	21.70	38.3	38.30	2.88	2.88	28.43	28.43	37	34
M3	3/01/2024	Mid-Ebb	Sunny	Low	18:36	2.2	М	1.10	2	0.000	331.317	7.18	1.10	6.63	0.03	21.7	21.70	38.3	30.30	2.88	2.00	28.43	20.43	30	34
Remark												For Flo	od Tide												

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

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

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

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

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

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

Monitoring	D	0	ſ
Location	AL	LL	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.	τU	S	S

NTU

SS

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

									Ð						In-s	itu Measu	rement							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	Ŧ	Salinit	y (ppt)	Tempe (degr		DO Sa (%		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	5/01/2024	Mid-Flood	Cloudy	Low	9:40	2.8	М	1.40	1	0.095	177.269	7.3	7.30	7.03	7.02	19.6	19.65	40.3	40.17	3.03	3.02	19.32	19.18	24	21
M1	5/01/2024	Mid-Flood	Cloudy	Low	9:41	2.8	М	1.40	2	0.035	111.203	7.3	7.30	7	1.02	19.7	19.05	40.0	40.17	3.01	3.02	19.03	19.10	18	21
M2	5/01/2024	Mid-Flood	Cloudy	Low	10:08	2.6	M	1.30	1	0.079	168.339	7.28	7.28	7.08	7.07	19.6	19.60	39.5	38.70	2.97	2.91	20.55	20.38	29	30
M2	5/01/2024	Mid-Flood	Cloudy	Low	10:08	2.6	M	1.30	2	0.073	100.555	7.28	1.20	7.05	1.01	19.6	13.00	37.9	50.70	2.85	2.31	20.21	20.50	30	50
M3	5/01/2024	Mid-Flood	Cloudy	Low	10:23	2.6	М	1.30	1	0.084	173.052	7.29	7.30	7.09	7.09	19.6	19.65	39.4	39.24	3.96	3.95	32.60	32.75	16	18
M3	5/01/2024	Mid-Flood	Cloudy	Low	10:23	2.6	M	1.30	2	0.004	175.052	7.31	7.50	7.08	1.03	19.7	13.05	39.1	33.24	3.94	5.55	32.89	52.75	20	10
M1	5/01/2024	Mid-Ebb	Cloudy	Low	14:11	2.5	M	1.25	1	0.058	320.829	7.25	7.25	7.25	7.26	19.7	19.75	37.8	37.04	2.84	2.79	17.83	17.775	28	26
M1	5/01/2024	Mid-Ebb	Cloudy	Low	14:11	2.5	М	1.25	2	0.058	320.029	7.24	1.25	7.27	7.20	19.8	19.75	36.3	57.04	2.73	2.19	17.72	17.775	23	20
M2	5/01/2024	Mid-Ebb	Cloudy	Low	13:44	2.4	М	1.20	1	0.06	338.905	7.24	7.25	7.26	7.30	19.7	19.75	37.9	37.44	2.85	2.82	18.62	18.76	25	23
M2	5/01/2024	Mid-Ebb	Cloudy	Low	13:44	2.4	М	1.20	2	0.00	556.905	7.26	1.20	7.34	1.30	19.8	13.75	37.0	57.44	2.78	2.02	18.90	10.70	20	20
M3	5/01/2024	Mid-Ebb	Cloudy	Low	14:05	2.4	М	1.20	1	0.079	344.001	7.25	7.24	7.36	7.32	19.7	19.70	36.6	36.11	2.75	2.72	34.81	34.85	23	22
M3	5/01/2024	Mid-Ebb	Cloudy	Low	14:05	2.4	М	1.20	2	0.079	344.001	7.23	1.24	7.28	1.32	19.7	19.70	35.6	30.11	2.68	2.12	34.89	34.05	20	22

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 OF T IOOU TIGE							
Monitoring	D	0	N	TU	S	S	
Location	AL	LL	AL	LL	AL	LL	
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112	
M3(Impact Station)	3.28	3.14	74	78	104	167	
For Ebb Tide							
Monitoring	D	0	N	TU	cc		

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

									e						In-s	itu Measu	rement							Labor 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 (°)	pł	Ŧ	Salinit	y (ppt)	Tempe (degr		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	8/01/2024	Mid-Flood	Cloudy	Low	11:15	2.4	М	1.20	1	0.082	187.734	7.16	7.16	10.05	10.03	20.5	20.55	37.4	38.04	2.81	2.86	11.72	11.64	19	19
M1	8/01/2024	Mid-Flood	Cloudy	Low	11:15	2.4	М	1.20	2	0.002	107.734	7.16	7.10	10.01	10.03	20.6	20.55	38.7	30.04	2.91	2.00	11.55	11.04	18	19
M2	8/01/2024	Mid-Flood	Cloudy	Low	11:43	2.1	М	1.05	1	0.079	173.219	7.11	7.12	9.85	9.88	20.5 20.6	20.55	37.4	37.71	2.81	2.84	11.84	11.92	22	25
M2	8/01/2024	Mid-Flood	Cloudy	Low	11:44	2.1	М	1.05	2	0.073	175.215	7.13	1.12	9.91	3.00	20.6	20.55	38.0	57.71	2.86	2.04	12	11.52	27	25
M3	8/01/2024	Mid-Flood	Cloudy	Low	11:38	2	М	1.00	1	0.09	170.305	7.19	7.19	9.90	9.89	20.5	20.50	33.9	33.72	3.55	3.54	28.99	28.87	21	21
M3	8/01/2024	Mid-Flood	Cloudy	Low	11:38	2	М	1.00	2	0.05	170.303	7.18	7.13	9.87	3.03	20.5	20.50	33.5	33.72	3.52	5.54	28.74	20.07	21	21
M1	8/01/2024	Mid-Ebb	Cloudy	Low	16:21	2.4	М	1.20	1	0.068	324.231	7.11	7.12	10.00	9.98	20.6	20.65	36.3	35.44	2.73	2.67	11.84	11.635	19	22
M1	8/01/2024	Mid-Ebb	Cloudy	Low	16:22	2.4	М	1.20	2	0.008	324.231	7.13	1.12	9.96	9.90	20.7	20.05	34.6	55.44	2.6	2.07	11.43	11.055	25	22
M2	8/01/2024	Mid-Ebb	Cloudy	Low	15:58	2.2	М	1.10	1	0.066	326.319	7.12	7.12	9.88	9.90	20.6	20.65	36.3	36.38	2.73	2.74	8.82	8.93	24	23
M2	8/01/2024	Mid-Ebb	Cloudy	Low	15:58	2.2	М	1.10	2	0.000	520.319	7.12	1.12	9.92	3.90	20.7	20.00	36.4	50.50	2.74	2.74	9.04	0.85	21	20
M3	8/01/2024	Mid-Ebb	Cloudy	Low	16:18	2	М	1.00	1	0.063	318.212	7.14	7.13	9.89	9.85	20.6	20.65	38.4	38.70	2.89	2.91	26.43	26.585	36	40
M3	8/01/2024	Mid-Ebb	Cloudy	Low	16:18	2	М	1.00	2	0.003	510.212	7.12	1.13	9.81	9.00	20.7	20.00	39.0	30.70	2.93	2.31	26.74	20.303	43	40

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.

	FUI FIUUU IIUE						
	Monitoring	D	0	N.	TU	S	S
	Location	AL	LL	AL	LL	AL	LL
	M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
	M3(Impact Station)	3.28	3.14	74	78	104	167
1	For Ebb Tide						
	Maaibaaiaa	D	0	N	TU	6	c

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						In-s	itu Measu	rement							Labor Anal	ratory Ilysis
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	Ŧ	Salinit	/ (ppt)	Tempe (degro		DO Sat (%		DO (r	ng/L)	Turbidit	y (NTU)	Total Sus Solids	spended (mg/L)
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	10/01/2024	Mid-Flood	Sunny	Low	12:48	2.6	М	1.30	1	0.088	177.813	7.18	7.17	9.34	9.38	20.6	20.60	36.4	36.31	2.74	2.73	11.73	11.87	34	33
M1	10/01/2024	Mid-Flood	Sunny	Low	12:49	2.6	M	1.30	2	0.000	111.010	7.16	7.17	9.41	3.30	20.6	20.00	36.2	50.51	2.72	2.75	12	11.07	32	- 55
M2	10/01/2024	Mid-Flood	Sunny	Low	13:11	2.3	M	1.15	1	0.077	176.505	7.11	7.10	9.33	9.38	20.6	20.65	35.8	35.11	2.69	2.64	11.80	11.955	35	34
M2	10/01/2024	Mid-Flood	Sunny	Low	13:11	2.3	M	1.15	2	0.011	170.000	7.09	7.10	9.42	0.00	20.7	20.00	34.4	00.11	2.59	2.04	12.11	11.000	33	04
M3	10/01/2024	Mid-Flood	Sunny	Low	13:05	2.6	M	1.30	1	0.085	180.198	7.18	7.19	9.45	9.47	20.6	20.65	37.4	36.97	3.81	3.78	30.48	30.49	40	36
M3	10/01/2024	Mid-Flood	Sunny	Low	13:05	2.6	M	1.30	2	0.005	100.130	7.19	7.13	9.48	3.47	20.7	20.05	36.6	30.37	3.75	5.70	30.50	30.43	31	- 50
M1	10/01/2024	Mid-Ebb	Sunny	Low	10:39	2.5	М	1.25	1	0.058	306.169	7.14	7.15	9.32	9.29	20.8	20.85	37.2	37.17	2.8	2.80	11.60	11.435	33	35
M1	10/01/2024	Mid-Ebb	Sunny	Low	10:40	2.5	M	1.25	2	0.050	300.103	7.16	7.15	9.26	3.23	20.9	20.00	37.1	57.17	2.79	2.00	11.27	11.433	36	- 55
M2	10/01/2024	Mid-Ebb	Sunny	Low	10:06	2.4	М	1.20	1	0.079	329.564	7.18	7.17	9.41	9.42	20.8	20.85	36.4	35.58	2.74	2.68	11.95	11.97	33	32
M2	10/01/2024	Mid-Ebb	Sunny	Low	10:07	2.4	М	1.20	2	0.073	323.304	7.16	7.17	9.43	3.42	20.9	20.00	34.7	55.50	2.61	2.00	11.98	11.37	30	52
M3	10/01/2024	Mid-Ebb	Sunny	Low	10:36	2.1	М	1.05	1	0.063	304.842	7.24	7.25	9.36	9.34	20.8	20.85	35.8	35.44	2.69	2.67	31.84	31.665	41	34
M3	10/01/2024	Mid-Ebb	Sunny	Low	10:36	2.1	М	1.05	2	0.003	504.042	7.25	1.20	9.31	3.34	20.9	20.00	35.1	55.44	2.64	2.07	31.49	51.005	27	J#

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.

FUI FIDDU TILE						
Monitoring	D	0	N	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	D	0	N	TU	c	°C

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

									Ð						In-s	itu Measu	rement							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	Ŧ	Salinit	/ (ppt)	Tempe (degr		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	12/01/2024	Mid-Flood	Cloudy	Low	14:03	2.6	М	1.30	1	0.075	189.843	7.15	7.14	9.96	9.96	20.6	20.60	38.6	38.37	2.9	2.89	11.70	11.59	49	47
M1	12/01/2024	Mid-Flood	Cloudy	Low	14:03	2.6	М	1.30	2	0.075	103.045	7.13	7.14	9.96	9.90	20.6	20.00	38.2	30.37	2.87	2.09	11.48	11.58	45	47
M2	12/01/2024	Mid-Flood	Cloudy	Low	14:32	2.4	M	1.20	1	0.08	178.615	7.16	7.16	10.09	10.09	20.6	20.60	37.6	36.91	2.83	2.78	11.89	11.905	54	49
M2	12/01/2024	Mid-Flood	Cloudy	Low	14:32	2.4	M	1.20	2	0.00	170.015	7.15	7.10	10.08	10.03	20.6	20.00	36.2	50.51	2.72	2.70	11.92	11.305	44	40
M3	12/01/2024	Mid-Flood	Cloudy	Low	14:25	2.2	М	1.10	1	0.093	182.188	7.13	7.14	9.44	9.45	20.6	20.60	37.0	37.64	3.78	3.83	26.77	26.95	56	60
M3	12/01/2024	Mid-Flood	Cloudy	Low	14:25	2.2	М	1.10	2	0.095	102.100	7.14	7.14	9.46	9.45	20.6	20.00	38.3	37.04	3.88	3.03	27.12	20.95	64	00
M1	12/01/2024	Mid-Ebb	Cloudy	Low	9:57	2.5	M	1.25	1	0.063	342.966	7.18	7.17	9.83	9.79	20.4	20.40	34.7	34.51	2.61	2.60	12.35	12.215	46	47
M1	12/01/2024	Mid-Ebb	Cloudy	Low	9:57	2.5	М	1.25	2	0.003	342.900	7.16	7.17	9.75	9.19	20.4	20.40	34.3	54.51	2.58	2.00	12.08	12.215	47	47
M2	12/01/2024	Mid-Ebb	Cloudy	Low	9:20	2.4	М	1.20	1	0.059	332.336	7.19	7.20	9.91	9.88	20.4	20.40	36.8	37.17	2.77	2.80	12.68	12.47	43	12
M2	12/01/2024	Mid-Ebb	Cloudy	Low	9:20	2.4	М	1.20	2	0.009	552.550	7.21	1.20	9.85	3.00	20.4	20.40	37.5	57.17	2.82	2.00	12.26	12.47	40	72
M3	12/01/2024	Mid-Ebb	Cloudy	Low	9:44	2.4	М	1.20	1	0.076	313.696	7.13	7.14	10.07	10.04	20.4	20.40	35.5	35.98	2.67	2.71	29.31	29.36	22	22
M3	12/01/2024	Mid-Ebb	Cloudy	Low	9:45	2.4	М	1.20	2	0.070	313.090	7.15	7.14	10.00	10.04	20.4	20.40	36.4	33.90	2.74	2.71	29.41	29.30	22	22

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						
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	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

|            |  |   |   |   |  |   |   
   
   
  | e  |   |   |   |   |   
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--|--|---|
| Date       | Tide Mode  | Weather   | Sea<br>Condition  | Time  | Water<br>Depth<br>(m)  | Monitoring<br>Level   | Monitoring<br>Level (m)   
   
   
  | Replicat   | Current<br>Speed<br>(m/s)   | Current<br>Direction<br>(°)   | p   | 4   | Salinit   
   | y (ppt)   |   |  |  
   |   | DO (n   | ng/L)   
   | Turbidity  | y (NTU)  | Total Sus<br>Solids (  | spended<br>(mg/L)   |
|            |  |   |   |   |  |   |   
   
   
  |  |   |   | Value   | Ave.  | Value   
   | Ave.  | Value   | Ave.   | Value  
   | Ave.  | Value   | Ave.  
   | Value  | Ave.   | Value  | Ave.  |
| 15/01/2024 | Mid-Flood  | Sunny   | Low   | 16:39   | 2.5  | М   | 1.25  
   
   
  | 1  | 0.094   | 174 248   | 7.2   | 7 20  | 8.71  
   | 8.67  | 21.3  | 21.35  | 37.5   
   | 37 01   | 2.82  | 2.85  
   | 15.40  | 15 36  | 58   | 65  |
| 15/01/2024 | Mid-Flood  | Sunny   | Low   | 16:39   | 2.5  | М   | 1.25  
   
   
  | 2  | 0.034   | 174.240   | 7.2   | 1.20  | 8.62  
   | 0.07  | 21.4  | 21.55  | 38.3   
   | 57.91   | 2.88  | 2.05  
   | 15.32  | 15.50  | 71   | 05  |
| 15/01/2024 | Mid-Flood  | Sunny   | Low   | 17:03   | 2.3  | М   | 1.15  
   
   
  | 1  | 0.078   | 183 / 38  | 7.24  | 7 25  | 8.33  
   | 8 35  | 21.3  | 21.30  | 39.8   
   | 40.17   | 2.99  | 3.02  
   | 15.80  | 15 6/5   | 61   | 56  |
| 15/01/2024 | Mid-Flood  | Sunny   | Low   | 17:03   | 2.3  | М   | 1.15  
   
   
  | 2  | 0.070   | 103.430   | 7.25  | 1.25  | 8.36  
   | 0.55  | 21.3  | 21.50  | 40.6   
   | 40.17   | 3.05  | 5.02  
   | 15.49  | 15.045   | 51   | 50  |
| 15/01/2024 | Mid-Flood  | Sunny   | Low   | 16:55   | 2.1  | М   | 1.05  
   
   
  | 1  | 0.095   | 190 042   | 7.28  | 7 27  | 8.48  
   | 9 40  | 21.3  | 21.25  | 37.0   
   | 27 71   | 3.78  | 2.04  
   | 31.43  | 21.22  | 75   | 78  |
| 15/01/2024 | Mid-Flood  | Sunny   | Low   | 16:56   | 2.1  | М   | 1.05  
   
   
  | 2  | 0.085   | 100.943   | 7.26  | 1.21  | 8.49  
   | 0.49  | 21.4  | 21.55  | 38.4   
   | 37.71   | 3.89  | 3.04  
   | 31.03  | 31.23  | 81   | 70  |
| 15/01/2024 | Mid-Ebb  | Sunny   | Low   | 11:46   | 2.4  | М   | 1.20  
   
   
  | 1  | 0.061   | 216 629   | 7.18  | 7 1 7   | 8.55  
   | 9 5 2   | 21.5  | 21.55  | 35.8   
   | 25.29   | 2.69  | 2.66  
   | 16.35  | 16 265   | 56   | 57  |
| 15/01/2024 | Mid-Ebb  | Sunny   | Low   | 11:46   | 2.4  | М   | 1.20  
   
   
  | 2  | 0.001   | 310.020   | 7.16  | 1.11  | 8.51  
   | 0.55  | 21.6  | 21.55  | 35.0   
   | 33.30   | 2.63  | 2.00  
   | 16.18  | 10.205   | 57   | 57  |
| 15/01/2024 | Mid-Ebb  | Sunny   | Low   | 11:11   | 2.1  | М   | 1.05  
   
   
  | 1  | 0.079   | 323 106   | 7.2   | 7 21  | 8.68  
   | 8 68  | 21.5  | 21 50  | 37.5   
   | 37 77   | 2.82  | 2.84  
   | 16.48  | 16 /1  | 55   | 10  |
| 15/01/2024 | Mid-Ebb  | Sunny   | Low   | 11:11   | 2.1  | М   | 1.05  
   
   
  | 2  | 0.079   | 525.100   | 7.22  | 1.21  | 8.67  
   | 0.00  | 21.5  | 21.50  | 38.0   
   | 51.11   | 2.86  | 2.04  
   | 16.33  | 10.41  | 43   | -3  |
| 15/01/2024 | Mid-Ebb  | Sunny   | Low   | 11:40   | 1.8  | М   | 0.90  
   
   
  | 1  | 0.064   | 202.969   | 7.21  | 7 22  | 8.90  
   | 0.00  | 21.5  | 21 50  | 37.6   
   | 29.10   | 2.83  | 2.97  
   | 33.45  | 22.20  | 32   | 29  |
| 15/01/2024 | Mid-Ebb  | Sunny   | Low   | 11:41   | 1.8  | М   | 0.90  
   
   
  | 2  | 0.004   | 303.000   | 7.23  | 1.22  | 8.89  
   | 0.90  | 21.5  | 21.50  | 38.6   
   | 30.10   | 2.9   | 2.07  
   | 33.13  | 33.29  | 26   | 29  |
|            | 15/01/2024<br>15/01/2024<br>15/01/2024<br>15/01/2024<br>15/01/2024<br>15/01/2024<br>15/01/2024<br>15/01/2024<br>15/01/2024<br>15/01/2024 | 15/01/2024         Mid-Flood           15/01/2024         Mid-Ebb           15/01/2024         Mid-Ebb           15/01/2024         Mid-Ebb           15/01/2024         Mid-Ebb           15/01/2024         Mid-Ebb           15/01/2024         Mid-Ebb | 15/01/2024         Mid-Flood         Sunny           15/01/2024         Mid-Ebb         Sunny | Date         Tide Mode         Weather         Condition           15/01/2024         Mid-Flood         Sunny         Low           15/01/2024         Mid-Ebb         Sunny         Low | Date         Tide Mode         Weather         Condition         Time           15/01/2024         Mid-Flood         Sunny         Low         16:39           15/01/2024         Mid-Flood         Sunny         Low         16:39           15/01/2024         Mid-Flood         Sunny         Low         17:03           15/01/2024         Mid-Flood         Sunny         Low         17:03           15/01/2024         Mid-Flood         Sunny         Low         16:55           15/01/2024         Mid-Flood         Sunny         Low         16:55           15/01/2024         Mid-Flood         Sunny         Low         16:55           15/01/2024         Mid-Ebb         Sunny         Low         11:46           15/01/2024         Mid-Ebb         Sunny         Low         11:46           15/01/2024         Mid-Ebb         Sunny         Low         11:11           15/01/2024         Mid-Ebb         Sunny         Low         11:11           15/01/2024         Mid-Ebb         Sunny         Low         11:11           15/01/2024         Mid-Ebb         Sunny         Low         11:11 | Date         Tide Mode         Weather         Condition         Time         Depth<br>(m)           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3           15/01/2024         Mid-Flood         Sunny         Low         16:55         2.1           15/01/2024         Mid-Flood         Sunny         Low         16:56         2.1           15/01/2024         Mid-Flood         Sunny         Low         11:46         2.4           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4           15/01/2024         Mid-Ebb         Sunny         Low         11:11         2.1           15/01/2024         Mid-Ebb         Sunny         Low         11:11         2.1           15/01/2024         Mid-Ebb         Sunny         Low< | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M           15/01/2024         Mid-Flood         Sunny         Low         16:55         2.1         M           15/01/2024         Mid-Flood         Sunny         Low         16:56         2.1         M           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4         M           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4         M           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4         M           15/01/2024         Mid-Ebb         Sunny         Low         11:11         2.1         M           15/01/2024 <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monito Level         Monititititititititititititititititit</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Monitoring         Sea<br/>Calification           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         2           15/01/2024         Mid-Flood         Sunny         Low         16:55         2.1         M         1.05         1           15/01/2024         Mid-Flood         Sunny         Low         11:46         2.4         M         1.20         1           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4         M         1.20         1           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4         M         &lt;</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Difference<br/>Dependence         Monitoring<br/>Level         Moniosi         Monitoring<br/>Level</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Weather<br/>(m)         Weather<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         §<br/>Monitoring<br/>Level         §<br/>Moni</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Figure<br/>Value           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1         0.094         174.248         7.2           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.15         1         0.094         174.248         7.2           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         183.438         7.25           15/01/2024         Mid-Flood         Sunny         Low         16:55         2.1         M         1.05         1         0.078         183.438         7.25           15/01/2024         Mid-Flood         Sunny         Low         11:46         2.4         M         1.05         1         0.085         180.943         7.28           15/01/2024         Mid-Ebb         Sunny         Low         11:46</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Uppt<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Diverse<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Saint:<br/>Sea<br/>Level         Current<br/>(m)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m)         Low         Ave.         Value         Ave.         Value           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1         0.094         174.248         7.2         7.20         8.71           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         183.438         7.24         7.25         8.33           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         180.943         7.25         8.36           15/01/2024         Mid-Flood         Sunny         Low         16:55         2.1         M         1.05         1         0.085         180.943         7.26         7.26         8.36           15/01/2024         Mid-Flood         Sunny         Low         11:46         2.4         M         1.20</td> <td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>£         Monitoring<br/>£         Monitoring<br/>£         Monitoring<br/>£         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m)         pH         Salinity (ppt)         Temper<br/>(degree<br/>(degree)           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1         0.094         174.248         7.2         7.20         8.71         8.67         21.3           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         183.438         7.24         7.20         8.83         8.36         21.3           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         183.438         7.25         7.24         8.33         8.36         21.3           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.05         1         0.078         183.438         7.25         7.26         8.38         8.39         21.3</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Sea<br/>Um         Time         Monitoring<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>me         Monitoring<br/>Level         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(n)         PI         SalinI/ (pt)         Temp=rum<br/>(degree C)           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1         0.094         174.248         7.2         7.20         8.67         21.3<!--</td--><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Multicity<br/>P         Monitoring<br/>P         Monitoring<br/>P         Multicity<br/>P         M</td><td>Date         Tide Mode         Weather         Sea Condition         Time         Water Depth (m)         Monitoring (m)         Monitoring Level (m)         <math>\frac{9}{2}</math>         Current Direction (m/s)         <math>\frac{1}{2}</math>         Salinity (pt)         <math>\frac{1}{2}</math> <math>\frac{1}{2}</math></td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>level (m)         Monitoring<br/>few         Monitoring<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>few         Monitoring<br/>(m)         Monitoring<br/>few         Monitoring<br/>(m)         Monitoring<br/>few         Monitoring<br/>(m)         Monitoring<br/>few         Monitoring<br/>(m)         Multiplication<br/>(m)         Multiplicat</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>(m)</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>(m)         Monitoring</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Dept         Monitoring<br/>Level         <math>\frac{9}{2}</math>         Current<br/>Speed<br/>(ms)         <math>\frac{1}{2}</math> <math>\frac{1}{2}</math>         Salin/rept         <math>\frac{1}{2}</math> <math>\frac{1}{2}</math></td><td>Date         Weather         Sea<br/>Condition         Time         Wather<br/>Depth<br/>(m)         Monitoring<br/>(m)         M</td></td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monito Level         Monititititititititititititititititit | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Monitoring         Sea<br>Calification           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         2           15/01/2024         Mid-Flood         Sunny         Low         16:55         2.1         M         1.05         1           15/01/2024         Mid-Flood         Sunny         Low         11:46         2.4         M         1.20         1           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4         M         1.20         1           15/01/2024         Mid-Ebb         Sunny         Low         11:46         2.4         M         < | Date         Tide Mode         Weather         Sea<br>Condition         Time         Difference<br>Dependence         Monitoring<br>Level         Moniosi         Monitoring<br>Level | Date         Tide Mode         Weather         Sea<br>Condition         Time         Weather<br>(m)         Weather<br>(m)         Monitoring<br>Level         Monitoring<br>Level         §<br>Monitoring<br>Level         §<br>Moni | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         Current<br>Speed<br>(m/s)         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(m/s)         Figure<br>Value           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1         0.094         174.248         7.2           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.15         1         0.094         174.248         7.2           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         183.438         7.25           15/01/2024         Mid-Flood         Sunny         Low         16:55         2.1         M         1.05         1         0.078         183.438         7.25           15/01/2024         Mid-Flood         Sunny         Low         11:46         2.4         M         1.05         1         0.085         180.943         7.28           15/01/2024         Mid-Ebb         Sunny         Low         11:46 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>Uppt<br>(m)         Monitoring<br>Level         Monitoring<br>Level | Date         Tide Mode         Weather         Sea<br>Condition         Time         Diverse<br>(m)         Monitoring<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Saint:<br>Sea<br>Level         Current<br>(m)         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(m)         Low         Ave.         Value         Ave.         Value           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1         0.094         174.248         7.2         7.20         8.71           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         183.438         7.24         7.25         8.33           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         180.943         7.25         8.36           15/01/2024         Mid-Flood         Sunny         Low         16:55         2.1         M         1.05         1         0.085         180.943         7.26         7.26         8.36           15/01/2024         Mid-Flood         Sunny         Low         11:46         2.4         M         1.20 | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Monitoring<br>(m)         Monitoring<br>Level (m)         Monitoring<br>£         Monitoring<br>£         Monitoring<br>£         Monitoring<br>£         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(m)         pH         Salinity (ppt)         Temper<br>(degree<br>(degree)           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1         0.094         174.248         7.2         7.20         8.71         8.67         21.3           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         183.438         7.24         7.20         8.83         8.36         21.3           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.15         1         0.078         183.438         7.25         7.24         8.33         8.36         21.3           15/01/2024         Mid-Flood         Sunny         Low         17:03         2.3         M         1.05         1         0.078         183.438         7.25         7.26         8.38         8.39         21.3 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Sea<br>Um         Time         Monitoring<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>me         Monitoring<br>Level         Current<br>Speed<br>(m/s)         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(n)         PI         SalinI/ (pt)         Temp=rum<br>(degree C)           15/01/2024         Mid-Flood         Sunny         Low         16:39         2.5         M         1.25         1         0.094         174.248         7.2         7.20         8.67         21.3 </td <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Multicity<br/>P         Monitoring<br/>P         Monitoring<br/>P         Multicity<br/>P         M</td> <td>Date         Tide Mode         Weather         Sea Condition         Time         Water Depth (m)         Monitoring (m)         Monitoring Level (m)         <math>\frac{9}{2}</math>         Current Direction (m/s)         <math>\frac{1}{2}</math>         Salinity (pt)         <math>\frac{1}{2}</math> <math>\frac{1}{2}</math></td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>level (m)         Monitoring<br/>few         Monitoring<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>few         Monitoring<br/>(m)         Monitoring<br/>few         Monitoring<br/>(m)         Monitoring<br/>few         Monitoring<br/>(m)         Monitoring<br/>few         Monitoring<br/>(m)         Multiplication<br/>(m)         Multiplicat</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>(m)</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>(m)         Monitoring</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Dept         Monitoring<br/>Level         <math>\frac{9}{2}</math>         Current<br/>Speed<br/>(ms)         <math>\frac{1}{2}</math> <math>\frac{1}{2}</math>         Salin/rept         <math>\frac{1}{2}</math> <math>\frac{1}{2}</math></td> <td>Date         Weather         Sea<br/>Condition         Time         Wather<br/>Depth<br/>(m)         Monitoring<br/>(m)         M</td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>P         Multicity<br>P         Monitoring<br>P         Monitoring<br>P         Multicity<br>P         M | Date         Tide Mode         Weather         Sea Condition         Time         Water Depth (m)         Monitoring (m)         Monitoring Level (m) $\frac{9}{2}$ Current Direction (m/s) $\frac{1}{2}$ Salinity (pt) $\frac{1}{2}$ | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Monitoring<br>(m)         Monitoring<br>level (m)         Monitoring<br>few         Monitoring<br>(m)         Monitoring<br>(m)         Monitoring<br>(m)         Monitoring<br>few         Monitoring<br>(m)         Monitoring<br>few         Monitoring<br>(m)         Monitoring<br>few         Monitoring<br>(m)         Monitoring<br>few         Monitoring<br>(m)         Multiplication<br>(m)         Multiplicat | Date         Tide Mode         Weather         Sea<br>Condition         Time         Wate<br>(m)         Monitoring<br>(m)         Monitoring<br>(m) | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>(m)         Monitoring | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>Dept         Monitoring<br>Level $\frac{9}{2}$ Current<br>Speed<br>(ms) $\frac{1}{2}$ $\frac{1}{2}$ Salin/rept $\frac{1}{2}$ | Date         Weather         Sea<br>Condition         Time         Wather<br>Depth<br>(m)         Monitoring<br>(m)         M |

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.

FUI FIOOU TILE						
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	ГП	c	c

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

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Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicat	Current Speed (m/s)	Current Direction (°)	pl	H	Salinit	y (ppt)	Tempe (degr		DO Sa (%	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	17/01/2024	Mid-Flood	Sunny	Low	16:41	2.6	М	1.30	1	0.083	184.284	7.24	7.24	4.56	4.56	21.8	21.80	36.4	36.51	2.74	2.75	21.81	21.70	39	39
M1	17/01/2024	Mid-Flood	Sunny	Low	16:41	2.6	M	1.30	2	0.000	104.204	7.23	1.24	4.56	4.50	21.8	21.00	36.6	50.51	2.75	2.75	21.58	21.70	39	55
M2	17/01/2024	Mid-Flood	Sunny	Low	17:09	2.4	M	1.20	1	0.075	161.268	7.27	7.28	4.33	4.37	21.8	21.80	36.4	36.71	2.74	2.76	20.73	20,775	43	/1
M2	17/01/2024	Mid-Flood	Sunny	Low	17:10	2.4	M	1.20	2	0.075	101.200	7.29	1.20	4.41	4.57	21.8	21.00	37.0	50.71	2.78	2.70	20.82	20.115	38	
M3	17/01/2024	Mid-Flood	Sunny	Low	16:48	2.3	M	1.15	1	0.086	167.199	7.22	7.23	4.45	4.41	21.8	21.85	34.6	34.58	3.6	3.60	36.56	36.72	37	39
M3	17/01/2024	Mid-Flood	Sunny	Low	16:48	2.3	М	1.15	2	0.000	107.199	7.23	1.23	4.37	4.41	21.9	21.00	34.6	34.30	3.6	3.00	36.87	30.72	41	39
M1	17/01/2024	Mid-Ebb	Sunny	Low	13:07	2.3	M	1.15	1	0.066	328.104	7.19	7.18	4.82	4.86	22.0	22.00	38.6	39.30	2.9	2.96	17.85	17.725	32	34
M1	17/01/2024	Mid-Ebb	Sunny	Low	13:08	2.3	M	1.15	2	0.000	320.104	7.17	7.10	4.89	4.00	22.0	22.00	40.0	39.30	3.01	2.90	17.60	17.725	35	34
M2	17/01/2024	Mid-Ebb	Sunny	Low	12:31	2.1	М	1.05	1	0.077	315.791	7.16	7.16	4.55	4.57	22.0	22.05	37.2	36.97	2.8	2.78	18.70	18.79	38	35
M2	17/01/2024	Mid-Ebb	Sunny	Low	12:31	2.1	М	1.05	2	0.077	515.791	7.15	7.10	4.59	4.57	22.1	22.00	36.7	50.97	2.76	2.70	18.87	10.79	31	55
M3	17/01/2024	Mid-Ebb	Sunny	Low	12:49	2	М	1.00	1	0.074	335.825	7.2	7.20	4.86	4.86	22.0	22.05	37.5	36.64	2.82	2.76	36.90	37.03	24	20
M3	17/01/2024	Mid-Ebb	Sunny	Low	12:49	2	М	1.00	2	0.074	333.625	7.2	7.20	4.85	4.00	22.1	22.05	35.8	30.04	2.69	2.70	37.16	37.03	15	20

Remark

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×.	FOI FIODU TIUE						
	Monitoring	D	0	N	τu	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
1	For Ebb Tide						
	Monitoring	D	0	N	ТП		c

Monitoring	D	0	N.	τu	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							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		DO Sat (%		DO (n	ng/L)	Turbidity	y (NTU)	Total Sus Solids (	
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	19/01/2024	Mid-Flood	Cloudy	Low	17:50	2.5	M	1.25	1	0.095	168.313	7.3	7.31	7.68	7.65	20.6 20.7	20.65	43.9	44.16	3.3	3.32	17.50	17.64	17	16
M1	19/01/2024	Mid-Flood	Cloudy	Low	17:50	2.5	М	1.25	2	0.000	100.010	7.31	7.51	7.61	1.00	20.7	20.00	44.4	44.10	3.34	0.02	17.77	17.04	14	10
M2	19/01/2024	Mid-Flood	Cloudy	Low	18:22	1.9	М	0.95	1	0.093	185.544	7.28	7.28	7.40	7.39	20.6	20.65	42.3	41.76	3.18	3.14	15.30	15.415	13	15
M2	19/01/2024	Mid-Flood	Cloudy	Low	18:22	1.9	М	0.95	2	0.035	105.544	7.27	7.20	7.37	1.55	20.7	20.00	41.2	41.70	3.1	5.14	15.53	13.415	16	15
M3	19/01/2024	Mid-Flood	Cloudy	Low	18:16	2.1	М	1.05	1	0.084	163.962	7.25	7.25	7.37	7.39	20.6	20.60	41.8	42.36	4.14	4.19	34.24	34.16	17	18
M3	19/01/2024	Mid-Flood	Cloudy	Low	18:16	2.1	М	1.05	2	0.004	103.902	7.25	1.25	7.40	1.55	20.6	20.00	43.0	42.30	4.23	4.19	34.07	34.10	18	10
M1	19/01/2024	Mid-Ebb	Cloudy	Low	14:08	2.4	М	1.20	1	0.077	317.861	7.19	7.19	6.90	6.91	20.4	20.45	39.4	38.44	2.96	2.89	18.60	18.575	17	16
M1	19/01/2024	Mid-Ebb	Cloudy	Low	14:08	2.4	М	1.20	2	0.077	317.001	7.19	7.19	6.92	0.91	20.5	20.45	37.5	30.44	2.82	2.09	18.55	10.575	15	10
M2	19/01/2024	Mid-Ebb	Cloudy	Low	13:39	1.8	М	0.90	1	0.071	312.775	7.2	7.20	6.88	6.91	20.4	20.45	37.5	38.04	2.82	2.86	16.45	16.50	12	16
M2	19/01/2024	Mid-Ebb	Cloudy	Low	13:40	1.8	М	0.90	2	0.071	312.775	7.2	7.20	6.94	0.91	20.5	20.45	38.6	30.04	2.9	2.00	16.55	10.50	19	10
M3	19/01/2024	Mid-Ebb	Cloudy	Low	14:01	2.2	М	1.10	1	0.072	325.615	7.23	7.22	6.72	6.72	20.4	20.40	40.7	40.03	3.06	3.01	36.64	36.685	10	0
M3	19/01/2024	Mid-Ebb	Cloudy	Low	14:01	2.2	М	1.10	2	0.072	325.015	7.21	1.22	6.71	0.72	20.4	20.40	39.4	40.03	2.96	3.01	36.73	30.000	8	IJ
Remark												For Flo	od Tide												

Remark

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T OF T IOOU TIDE						
Monitoring	D	0	N.	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	D	0	N	TU	9	s

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

									Ð						In-s	itu Measu	rement							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	Ŧ	Salinit	y (ppt)	Tempe (degr		DO Sa (%	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	22/01/2024	Mid-Flood	Cloudy	Low	11:14	2.6	М	1.30	1	0.081	185.09	7.18	7.19	4.32	4.28	20.5	20.50	38.3	39.04	2.88	2.94	14.87	14.92	32	32
M1	22/01/2024	Mid-Flood	Cloudy	Low	11:14	2.6	М	1.30	2	0.001	100.00	7.19	1.19	4.24	4.20	20.5	20.50	39.8	39.04	2.99	2.54	14.97	14.92	31	32
M2	22/01/2024	Mid-Flood	Cloudy	Low	11:51	2.2	M	1.10	1	0.077	168.694	7.12	7.13	4.47	4.50	20.5	20.55	37.6	38.24	2.83	2.88	13.88	13.8	37	32
M2	22/01/2024	Mid-Flood	Cloudy	Low	11:51	2.2	M	1.10	2	0.077	100.034	7.13	7.15	4.52	4.50	20.6	20.55	38.8	50.24	2.92	2.00	13.72	13.0	26	52
M3	22/01/2024	Mid-Flood	Cloudy	Low	11:48	2	М	1.00	1	0.083	178.335	7.15	7.16	4.46	4.46	20.5	20.50	36.2	36.44	3.72	3.74	30.55	30.42	19	18
M3	22/01/2024	Mid-Flood	Cloudy	Low	11:48	2	М	1.00	2	0.005	170.335	7.17	7.10	4.45	4.40	20.5	20.50	36.7	30.44	3.76	3.74	30.29	30.42	17	10
M1	22/01/2024	Mid-Ebb	Cloudy	Low	16:12	2.4	M	1.20	1	0.078	325.395	7.16	7.16	3.91	3.90	20.3	20.35	39.6	39.90	2.98	3.00	16.77	16.82	24	24
M1	22/01/2024	Mid-Ebb	Cloudy	Low	16:12	2.4	М	1.20	2	0.078	323.395	7.16	7.10	3.89	3.90	20.4	20.33	40.2	39.90	3.02	3.00	16.87	10.02	23	24
M2	22/01/2024	Mid-Ebb	Cloudy	Low	15:43	2.1	М	1.05	1	0.06	325.393	7.11	7.10	4.06	4.03	20.3	20.30	37.6	38.30	2.83	2.88	16.54	16.45	20	19
M2	22/01/2024	Mid-Ebb	Cloudy	Low	15:44	2.1	М	1.05	2	0.00	525.595	7.09	7.10	4.00	4.03	20.3	20.30	39.0	50.50	2.93	2.00	16.35	10.45	18	13
M3	22/01/2024	Mid-Ebb	Cloudy	Low	15:53	2	M	1.00	1	0.059	303.509	7.14	7.15	4.12	4 1 2	20.3	20.35	37.1	36.51	2.79	2.75	28.41	28.47	26	18
M3	22/01/2024	Mid-Ebb	Cloudy	Low	15:53	2	М	1.00	2	0.059	303.309	7.16	7.15	4.14	4.13	20.4	20.33	35.9	30.31	2.7	2.75	28.53	20.47	10	10

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.

FUI FIDDU TILE						
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						
Manitasian	D	0	N		6	c

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

									te						In-s	itu Measu	rement							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		DO Sat (%		DO (r	ng/L)	Turbidit	y (NTU)	Total Sus Solids	spended (mg/L)
												Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.
M1	24/01/2024	Mid-Flood	Cloudy	Low	12:36	2.4	М	1.20	1	0.073	183.103	7.21	7.21	4.68	4.69	19.7	19.70	39.8	40.50	2.99	3.05	19.22	19.37	36	37
M1	24/01/2024	Mid-Flood	Cloudy	Low	12:36	2.4	М	1.20	2			7.21		4.7		19.7	10.10	41.2	10.00	3.1	0.00	19.51	10.01	38	0.
M2	24/01/2024	Mid-Flood	Cloudy	Low	13:01	2	М	1.00	1	0.093	176.252	7.2	7.21	4.77	4.73	19.7	19.70	40.4	39.97	3.04	3.01	20.18	20.25	31	36
M2	24/01/2024	Mid-Flood	Cloudy	Low	13:01	2	М	1.00	2	0.000	110.202	7.21	7.21	4.68	4.70	19.7	10.70	39.5	00.01	2.97	0.01	20.32	20.20	40	00
M3	24/01/2024	Mid-Flood	Cloudy	Low	12:55	1.8	М	0.90	1	0.073	177.414	7.23	7.23	4.89	4.90	19.7	19.75	41.0	41.70	4.08	4.14	36.72	36.52	33	34
M3	24/01/2024	Mid-Flood	Cloudy	Low	12:56	1.8	М	0.90	2	0.075	177.414	7.23	1.25	4.90	4.30	19.8	13.75	42.4	41.70	4.19	4.14	36.32	30.32	35	34
M1	24/01/2024	Mid-Ebb	Cloudy	Low	8:35	2.3	М	1.15	1	0.061	300.879	7.22	7.23	5.05	5.06	19.5	19.50	41.5	41.83	3.12	3.15	20.71	20.77	39	34
M1	24/01/2024	Mid-Ebb	Cloudy	Low	8:36	2.3	М	1.15	2	0.001	300.079	7.24	1.23	5.07	5.00	19.5	19.50	42.2	41.05	3.17	3.15	20.83	20.77	28	34
M2	24/01/2024	Mid-Ebb	Cloudy	Low	8:01	2.1	М	1.05	1	0.06	339.209	7.23	7.23	5.19	5.16	19.5	19.55	41.9	41.63	3.15	3.13	20.25	20.35	32	33
M2	24/01/2024	Mid-Ebb	Cloudy	Low	8:01	2.1	М	1.05	2	0.00	339.209	7.22	1.23	5.13	5.10	19.6	19.55	41.4	41.03	3.11	5.15	20.44	20.55	33	33
M3	24/01/2024	Mid-Ebb	Cloudy	Low	8:32	2	М	1.00	1	0.065	341.824	7.23	7.24	5.32	5.34	19.5	19.50	40.4	39.77	3.04	2.99	39.90	40.075	35	25
M3	24/01/2024	Mid-Ebb	Cloudy	Low	8:32	2	М	1.00	2	0.065	341.024	7.24	1.24	5.35	5.54	19.5	19.50	39.1	39.11	2.94	2.99	40.25	40.075	15	20
Remark												For Flo	od Tide												

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 OF T IOOU TIGE						
Monitoring	C	0	N	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	L. L.	0	N	TU	c	c

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

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| Date       | Tide Mode  | Weather   | Sea<br>Condition   | Time  | Water<br>Depth<br>(m)   | Monitoring<br>Level   | Monitoring<br>Level (m)   
   
   | Replicat  
   
   | Current<br>Speed<br>(m/s)   | Current<br>Direction<br>(°)  | pł  | Ŧ  
  | Salinit  | / (ppt)   |   |   |  |  
   | DO (r  | ng/L)   | Turbidity   | y (NTU)  
   |  |  |
|            |  |   |  |   |   |   |   
   
   |   
   
   |   |  | Value   | Ave.                                       
  | Value  | Ave.  | Value   | Ave.  | Value  | Ave.   
   | Value  | Ave.  | Value   | Ave.   
   | Value  | Ave.   |
| 26/01/2024 | Mid-Flood  | Sunny   | Low  | 13:38   | 2.8   | М   | 1.40  
   
   | 1   
   
   | 0.095   | 187 964  | 7.28  | 7 20                                       
  | 3.42   | 3 /3  | 19.8  | 10.85   | 35.6   | 35.25  
   | 2.68   | 2.65  | 13.44   | 13 23  
   | 42   | 40   |
| 26/01/2024 | Mid-Flood  | Sunny   | Low  | 13:39   | 2.8   | М   | 1.40  
   
   | 2   
   
   | 0.000   | 107.004  | 7.3   | 1.23                                       
  | 3.44   | 5.45  | 19.9  | 13.05   | 34.8   | 55.25  
   | 2.62   | 2.00  | 13.02   | 10.20  
   | 37   | 40   |
| 26/01/2024 | Mid-Flood  | Sunny   | Low  | 14:12   | 2.6   | М   | 1.30  
   
   | 1   
   
   | 0.076   | 183 658  | 7.26  | 7 26                                       
  | 3.44   | 3 40  | 19.8  | 10.80   | 37.5   | 36.84  
   | 2.82   | 2 77  | 13.90   | 13 705   
   | 40   | 39   |
| 26/01/2024 | Mid-Flood  | Sunny   | Low  | 14:12   | 2.6   | М   | 1.30  
   
   | 2   
   
   | 0.070   | 105.050  | 7.25  | 1.20                                       
  | 3.36   | 3.40  | 19.8  | 13.00   | 36.2   | 50.04  
   | 2.72   | 2.11  | 13.69   | 15.735   
   | 38   | 55   |
| 26/01/2024 | Mid-Flood  | Sunny   | Low  | 14:25   | 2.6   | М   | 1.30  
   
   | 1   
   
   | 0.088   | 167 /10  | 7.31  | 7 22                                       
  | 3.58   | 2.54  | 19.8  | 10.95   | 36.7   | 26.29  
   | 3.76   | 2.74  | 29.87   | 20.75  
   | 38   | 39   |
| 26/01/2024 | Mid-Flood  | Sunny   | Low  | 14:25   | 2.6   | М   | 1.30  
   
   | 2   
   
   | 0.000   | 107.419  | 7.32  | 1.32                                       
  | 3.49   | 3.54  | 19.9  | 19.00   | 36.0   | 30.30  
   | 3.71   | 3.74  | 29.63   | 29.15  
   | 40   | 39   |
| 26/01/2024 | Mid-Ebb  | Sunny   | Low  | 9:35  | 2.5   | М   | 1.25  
   
   | 1   
   
   | 0.070   | 244 029  | 7.29  | 7 20                                       
  | 3.68   | 2 70  | 20.1  | 20.10   | 38.8   | 20.10  
   | 2.92   | 2.04  | 14.25   | 14 225   
   | 40   | 41   |
| 26/01/2024 | Mid-Ebb  | Sunny   | Low  | 9:36  | 2.5   | М   | 1.25  
   
   | 2   
   
   | 0.079   | 344.930  | 7.28  | 1.29                                       
  | 3.72   | 3.70  | 20.1  | 20.10   | 39.4   | 39.10  
   | 2.96   | 2.94  | 14.40   | 14.525   
   | 41   | 41   |
| 26/01/2024 | Mid-Ebb  | Sunny   | Low  | 8:56  | 2.4   | М   | 1.20  
   
   | 1   
   
   | 0.067   | 310 702  | 7.26  | 7.26                                       
  | 3.74   | 3 70  | 20.1  | 20 10   | 36.8   | 37 17  
   | 2.77   | 2.80  | 14.83   | 14 77  
   | 31   | 32   |
| 26/01/2024 | Mid-Ebb  | Sunny   | Low  | 8:57  | 2.4   | М   | 1.20  
   
   | 2   
   
   | 0.007   | 515.752  | 7.25  | 1.20                                       
  | 3.83   | 5.19  | 20.1  | 20.10   | 37.5   | 57.17  
   | 2.82   | 2.00  | 14.71   | 14.77  
   | 32   | 52   |
| 26/01/2024 | Mid-Ebb  | Sunny   | Low  | 9:48  | 2.4   | М   | 1.20  
   
   | 1   
   
   | 0.079   | 214 549  | 7.28  | 7.07                                       
  | 3.68   | 2 72  | 20.1  | 20.15   | 37.6   | 27.64  
   | 2.83   | 2.02  | 28.55   | 29 205   
   | 24   | 23   |
| 26/01/2024 | Mid-Ebb  | Sunny   | Low  | 9:48  | 2.4   | М   | 1.20  
   
   | 2   
   
   | 0.078   | 314.340  | 7.26  | 1.21                                       
  | 3.77   | 3.73  | 20.2  | 20.15   | 37.6   | 37.04  
   | 2.83   | 2.03  | 28.24   | 20.395   
   | 22   | 23   |
|            | 26/01/2024<br>26/01/2024<br>26/01/2024<br>26/01/2024<br>26/01/2024<br>26/01/2024<br>26/01/2024<br>26/01/2024<br>26/01/2024<br>26/01/2024 | 26/01/2024         Mid-Flood           26/01/2024         Mid-Ebb           26/01/2024         Mid-Ebb           26/01/2024         Mid-Ebb           26/01/2024         Mid-Ebb           26/01/2024         Mid-Ebb           26/01/2024         Mid-Ebb | 26/01/2024         Mid-Flood         Sunny           26/01/2024         Mid-Ebb         Sunny | Date         Tide Mode         Weather         Condition           26/01/2024         Mid-Flood         Sunny         Low           26/01/2024         Mid-Ebb         Sunny         Low | Date         Tide Mode         Weather         Condition         Time           26/01/2024         Mid-Flood         Sunny         Low         13:38           26/01/2024         Mid-Flood         Sunny         Low         13:39           26/01/2024         Mid-Flood         Sunny         Low         14:12           26/01/2024         Mid-Flood         Sunny         Low         14:12           26/01/2024         Mid-Flood         Sunny         Low         14:25           26/01/2024         Mid-Flood         Sunny         Low         14:25           26/01/2024         Mid-Flood         Sunny         Low         9:35           26/01/2024         Mid-Ebb         Sunny         Low         9:36           26/01/2024         Mid-Ebb         Sunny         Low         9:36           26/01/2024         Mid-Ebb         Sunny         Low         8:56           26/01/2024         Mid-Ebb         Sunny         Low         8:57           26/01/2024         Mid-Ebb         Sunny         Low         8:57           26/01/2024         Mid-Ebb         Sunny         Low         8:57 | Date         Tide Mode         Weather         Condition         Time         Depth<br>(m)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6           26/01/2024         Mid-Flob         Sunny         Low         9:35         2.5           26/01/2024         Mid-Ebb         Sunny         Low         9:36         2.5           26/01/2024         Mid-Ebb         Sunny         Low         8:56         2.4           26/01/2024         Mid-Ebb         Sunny         Low         8:57         2.4           26/01/2024         Mid-Ebb         Sunny         Low         9:48         2.4 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M           26/01/2024         Mid-Flobd         Sunny         Low         9:35         2.5         M           26/01/2024         Mid-Ebb         Sunny         Low         9:36         2.5         M           26/01/2024         Mid-Ebb         Sunny         Low         8:56         2.4         M           26/01/2024 <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8         M         1.40           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30           26/01/2024         Mid-Flob         Sunny         Low         9:36         2.5         M         1.25           26/01/2024         Mid-Ebb         Sunny         Low         8:56         2.4<td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Monitoring         Sea<br/>Sea<br/>Level           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8         M         1.40         2           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         9:35         2.5         M         1.25         1           26/01/2024         Mid-Ebb         Sunny         Low         9:36         2.5         M</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Sea<br/>Level         Current<br/>Speed<br/>(m/s)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.095           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.088           26/01/2024         Mid-Flob         Sunny         Low         9:36         2.5         M         1.25         1         0.079</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>E         Sea<br/>Current         Current<br/>Speed<br/>(m's)         Current<br/>Speed<br/>(m's)         Current<br/>Speed<br/>(m's)         Current<br/>Direction<br/>(°)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.078         344.938           26/01/2024         Mid-Ebb         Sunny         Low         9:36         2.5         M         1.20         1         0.067</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Current<br/>Directio</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Sea<br/>Level         Current<br/>Evel         Current<br/>Monitoring         Current<br/>Monitoring         Current<br/>Monitoring         Current<br/>Monitoring         PH           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.088         167.419         7.31         7.32           26/01/2024         Mid-Flood         Sunny         Low         9:35         2.5         M         1.25         2         0.079         344.938</td><td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Evel         Current<br/>(m)         Current<br/>(m)         Current<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.29         3.42         3.43         19.8         19.85           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.85           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.088         167.419         7.32         3.48         3.40         19.8         19.8           2</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Monitoring<br/>P         Monitoring<br/>Direction<br/>(n's)         PH         Salinity (ppt)         Temperature<br/>(degree C)         DO Sal<br/>(9)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.42         3.43         19.8         19.8         35.6           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8         M         1.40         2         0.095         187.964         7.28         7.29         3.42         3.43         19.8         19.8         35.6           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.7           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.076         183.658         7.28<td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Wate<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>perification         Monitoring<br/>perification         Monitoring<br/>(m)         Monitoring<br/>perification         Current<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.43         19.8         19.85         35.25           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.85         36.6         36.25           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.43         19.8         19.80         36.2         36.4           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         &lt;</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>Level (m)         Monitoring<br/>P         Monitoring<br/>(m)         Monitoring<br/>P         Monitoring<br/>(m)         P         Salinity (ppt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO or<br/>P           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.42         3.43         19.8         35.6         35.25         2.68           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.6         36.2         2.68           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.2         2.62           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>E         Monitoring<br/>(m)         Monitorin</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level         <math>\frac{9}{20}</math>         Current<br/>(m)         <math>\frac{1}{20}</math> <math>\frac{1}{2001/2024}</math> <math>\frac{1}{20001}</math> <math>\frac{1}{200}</math> <math>\frac{1}{20001}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{200000000000000000000000000000000000</math></td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Devine         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>bevel         Monitoring<br/>bevel</td><td>Date         Weather         Sea<br/>Condition         Time         Time         Wait         Monitoring<br/>(m)         Monitoring<br/>(m)</td></td></td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8         M         1.40           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30           26/01/2024         Mid-Flob         Sunny         Low         9:36         2.5         M         1.25           26/01/2024         Mid-Ebb         Sunny         Low         8:56         2.4 <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Monitoring         Sea<br/>Sea<br/>Level           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8         M         1.40         2           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         9:35         2.5         M         1.25         1           26/01/2024         Mid-Ebb         Sunny         Low         9:36         2.5         M</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Sea<br/>Level         Current<br/>Speed<br/>(m/s)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.095           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.088           26/01/2024         Mid-Flob         Sunny         Low         9:36         2.5         M         1.25         1         0.079</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>E         Sea<br/>Current         Current<br/>Speed<br/>(m's)         Current<br/>Speed<br/>(m's)         Current<br/>Speed<br/>(m's)         Current<br/>Direction<br/>(°)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.078         344.938           26/01/2024         Mid-Ebb         Sunny         Low         9:36         2.5         M         1.20         1         0.067</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Current<br/>Directio</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Sea<br/>Level         Current<br/>Evel         Current<br/>Monitoring         Current<br/>Monitoring         Current<br/>Monitoring         Current<br/>Monitoring         PH           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.088         167.419         7.31         7.32           26/01/2024         Mid-Flood         Sunny         Low         9:35         2.5         M         1.25         2         0.079         344.938</td> <td><math display="block"> \begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td> <td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Evel         Current<br/>(m)         Current<br/>(m)         Current<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.29         3.42         3.43         19.8         19.85           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.85           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.088         167.419         7.32         3.48         3.40         19.8         19.8           2</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Monitoring<br/>P         Monitoring<br/>Direction<br/>(n's)         PH         Salinity (ppt)         Temperature<br/>(degree C)         DO Sal<br/>(9)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.42         3.43         19.8         19.8         35.6           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8         M         1.40         2         0.095         187.964         7.28         7.29         3.42         3.43         19.8         19.8         35.6           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.7           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.076         183.658         7.28<td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Wate<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>perification         Monitoring<br/>perification         Monitoring<br/>(m)         Monitoring<br/>perification         Current<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.43         19.8         19.85         35.25           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.85         36.6         36.25           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.43         19.8         19.80         36.2         36.4           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         &lt;</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>Level (m)         Monitoring<br/>P         Monitoring<br/>(m)         Monitoring<br/>P         Monitoring<br/>(m)         P         Salinity (ppt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO or<br/>P           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.42         3.43         19.8         35.6         35.25         2.68           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.6         36.2         2.68           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.2         2.62           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>E         Monitoring<br/>(m)         Monitorin</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level         <math>\frac{9}{20}</math>         Current<br/>(m)         <math>\frac{1}{20}</math> <math>\frac{1}{2001/2024}</math> <math>\frac{1}{20001}</math> <math>\frac{1}{200}</math> <math>\frac{1}{20001}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{200000000000000000000000000000000000</math></td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Devine         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>bevel         Monitoring<br/>bevel</td><td>Date         Weather         Sea<br/>Condition         Time         Time         Wait         Monitoring<br/>(m)         Monitoring<br/>(m)</td></td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Monitoring         Sea<br>Sea<br>Level           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8         M         1.40         2           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1           26/01/2024         Mid-Flood         Sunny         Low         9:35         2.5         M         1.25         1           26/01/2024         Mid-Ebb         Sunny         Low         9:36         2.5         M | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         Sea<br>Level         Current<br>Speed<br>(m/s)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.095           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.088           26/01/2024         Mid-Flob         Sunny         Low         9:36         2.5         M         1.25         1         0.079 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>E         Sea<br>Current         Current<br>Speed<br>(m's)         Current<br>Speed<br>(m's)         Current<br>Speed<br>(m's)         Current<br>Direction<br>(°)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.078         344.938           26/01/2024         Mid-Ebb         Sunny         Low         9:36         2.5         M         1.20         1         0.067 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         Current<br>Speed<br>(m/s)         Current<br>Speed<br>(m/s)         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(m/s)         Current<br>Directio | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         Sea<br>Level         Current<br>Evel         Current<br>Monitoring         Current<br>Monitoring         Current<br>Monitoring         Current<br>Monitoring         PH           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.088         167.419         7.31         7.32           26/01/2024         Mid-Flood         Sunny         Low         9:35         2.5         M         1.25         2         0.079         344.938 | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Evel         Current<br>(m)         Current<br>(m)         Current<br>(m)         pH         Salinity (pt)         Temperature<br>(degree C)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.29         3.42         3.43         19.8         19.85           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.85           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         2         0.088         167.419         7.32         3.48         3.40         19.8         19.8           2 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Water<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>P         Monitoring<br>P         Monitoring<br>Direction<br>(n's)         PH         Salinity (ppt)         Temperature<br>(degree C)         DO Sal<br>(9)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.42         3.43         19.8         19.8         35.6           26/01/2024         Mid-Flood         Sunny         Low         13:39         2.8         M         1.40         2         0.095         187.964         7.28         7.29         3.42         3.43         19.8         19.8         35.6           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.7           26/01/2024         Mid-Flood         Sunny         Low         14:25         2.6         M         1.30         1         0.076         183.658         7.28 <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Wate<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>perification         Monitoring<br/>perification         Monitoring<br/>(m)         Monitoring<br/>perification         Current<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.43         19.8         19.85         35.25           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.85         36.6         36.25           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.43         19.8         19.80         36.2         36.4           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         &lt;</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>Level (m)         Monitoring<br/>P         Monitoring<br/>(m)         Monitoring<br/>P         Monitoring<br/>(m)         P         Salinity (ppt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO or<br/>P           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.42         3.43         19.8         35.6         35.25         2.68           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.6         36.2         2.68           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.2         2.62           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>E         Monitoring<br/>(m)         Monitorin</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Monitoring<br/>Level         <math>\frac{9}{20}</math>         Current<br/>(m)         <math>\frac{1}{20}</math> <math>\frac{1}{2001/2024}</math> <math>\frac{1}{20001}</math> <math>\frac{1}{200}</math> <math>\frac{1}{20001}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{20001/2024}</math> <math>\frac{1}{200000000000000000000000000000000000</math></td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Devine         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>bevel         Monitoring<br/>bevel</td> <td>Date         Weather         Sea<br/>Condition         Time         Time         Wait         Monitoring<br/>(m)         Monitoring<br/>(m)</td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Wate<br>(m)         Wate<br>(m)         Monitoring<br>Level (m)         Monitoring<br>perification         Monitoring<br>perification         Monitoring<br>(m)         Monitoring<br>perification         Current<br>(m)         pH         Salinity (pt)         Temperature<br>(degree C)         DO Saturation<br>(%)           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.43         19.8         19.85         35.25           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.85         36.6         36.25           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.43         19.8         19.80         36.2         36.4           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         < | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Monitoring<br>Level (m)         Monitoring<br>Level (m)         Monitoring<br>P         Monitoring<br>(m)         Monitoring<br>P         Monitoring<br>(m)         P         Salinity (ppt)         Temperature<br>(degree C)         DO Saturation<br>(%)         DO or<br>P           26/01/2024         Mid-Flood         Sunny         Low         13:38         2.8         M         1.40         1         0.095         187.964         7.28         7.29         3.42         3.43         19.8         35.6         35.25         2.68           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.6         36.2         2.68           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6         M         1.30         1         0.076         183.658         7.26         7.26         3.44         3.40         19.8         19.8         36.2         2.62           26/01/2024         Mid-Flood         Sunny         Low         14:12         2.6 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Monitoring<br>Level (m)         Monitoring<br>E         Monitoring<br>(m)         Monitorin | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Monitoring<br>Level $\frac{9}{20}$ Current<br>(m) $\frac{1}{20}$ $\frac{1}{2001/2024}$ $\frac{1}{20001}$ $\frac{1}{200}$ $\frac{1}{20001}$ $\frac{1}{20001/2024}$ $\frac{1}{20001/2024}$ $\frac{1}{20001/2024}$ $\frac{1}{20001/2024}$ $\frac{1}{20001/2024}$ $\frac{1}{20001/2024}$ $\frac{1}{200000000000000000000000000000000000$ | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>Devine         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>bevel         Monitoring<br>bevel | Date         Weather         Sea<br>Condition         Time         Time         Wait         Monitoring<br>(m)         Monitoring<br>(m) |

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.

	FOI FIODU TIUE						
	Monitoring	D	00	N	TU	S	S
	Location	AL	LL	AL	LL	AL	LL
	M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
	M3(Impact Station)	3.28	3.14	74	78	104	167
1	For Ebb Tide						
	Monitoring	Г	0	N	TU	s	s

Monitoring	D	0	N.	τu	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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| Date       | Tide Mode  | Weather   | Sea<br>Condition  | Time   | Water<br>Depth<br>(m)  | Monitoring<br>Level  
   
   | Monitoring<br>Level (m)   
   
   
  | Replicat   
   
  | Current<br>Speed<br>(m/s)  
  | Current<br>Direction<br>(°)   | pl   
   
   | Ŧ   | Salinit   
   
  | y (ppt)   |   |   |   |  | DO (r   | ng/L)   
  | Turbidit  | y (NTU)   | Total Sus<br>Solids   | spended<br>(mg/L)   |
|            |  |   |   |  |  |  
   
   |   
   
   
  |  
   
  |  
  |   | Value  
   
   | Ave.  | Value   
   
  | Ave.  | Value   | Ave.  | Value   | Ave.   | Value   | Ave.  
  | Value   | Ave.  | Value   | Ave.  |
| 29/01/2024 | Mid-Flood  | Sunny   | Low   | 15:22  | 2.5  | M  
   
   | 1.25  
   
   
  | 1  
   
  | 0.078  
  | 178 519   | 7.16   
   
   | 7 16  | 5.68  
   
  | 5.67  | 21.6  | 21.60   | 41.4  | /1 30  | 3.11  | 3 1 1   
  | 26.90   | 27.06   | 37  | 35  |
| 29/01/2024 | Mid-Flood  | Sunny   | Low   | 15:22  | 2.5  | M  
   
   | 1.25  
   
   
  | 2  
   
  | 0.070  
  | 110.010   | 7.15   
   
   | 7.10  | 5.66  
   
  | 5.07  | 21.6  | 21.00   | 41.2  | 41.50  | 3.1   | 5.11  
  | 27.21   | 27.00   | 33  | 55  |
| 29/01/2024 | Mid-Flood  | Sunny   | Low   | 15:56  | 2.3  | M  
   
   | 1.15  
   
   
  | 1  
   
  | 0.073  
  | 185 235   | 7.12   
   
   | 7 13  | 5.77  
   
  | 5 74  | 21.6  | 21.65   | 42.3  | 12 00  | 3.18  | 3 17  
  | 27.87   | 27 875  | 32  | 33  |
| 29/01/2024 | Mid-Flood  | Sunny   | Low   | 15:57  | 2.3  | M  
   
   | 1.15  
   
   
  | 2  
   
  | 0.075  
  | 103.235   | 7.13   
   
   | 7.15  | 5.71  
   
  | 5.74  | 21.7  | 21.00   | 41.9  | 42.03  | 3.15  | 5.17  
  | 27.88   | 21.015  | 33  | 55  |
| 29/01/2024 | Mid-Flood  | Sunny   | Low   | 15:48  | 2.1  | M  
   
   | 1.05  
   
   
  | 1  
   
  | 0.004  
  | 192 907   | 7.19   
   
   | 7 20  | 5.46  
   
  | 5 40  | 21.6  | 21.60   | 43.4  | 12 26  | 4.26  | 4.26  
  | 39.44   | 20.40   | 34  | 33  |
| 29/01/2024 | Mid-Flood  | Sunny   | Low   | 15:48  | 2.1  | М  
   
   | 1.05  
   
   
  | 2  
   
  | 0.094  
  | 102.007   | 7.21   
   
   | 1.20  | 5.51  
   
  | 5.49  | 21.6  | 21.00   | 43.4  | 43.30  | 4.26  | 4.20  
  | 39.53   | 39.49   | 31  | - 33  |
| 29/01/2024 | Mid-Ebb  | Sunny   | Low   | 10:41  | 2.4  | M  
   
   | 1.20  
   
   
  | 1  
   
  | 0.067  
  | 226 445   | 7.18   
   
   | 7 1 0   | 5.31  
   
  | 5 22  | 21.4  | 21.40   | 46.0  | 46.62  | 3.46  | 2.51  
  | 23.50   | 22.21   | 25  | 27  |
| 29/01/2024 | Mid-Ebb  | Sunny   | Low   | 10:42  | 2.4  | M  
   
   | 1.20  
   
   
  | 2  
   
  | 0.067  
  | 330.445   | 7.17   
   
   | 1.10  | 5.33  
   
  | 5.32  | 21.4  | 21.40   | 47.2  | 40.02  | 3.55  | 3.51  
  | 23.12   | 23.31   | 29  | 21  |
| 29/01/2024 | Mid-Ebb  | Sunny   | Low   | 10:09  | 2.2  | М  
   
   | 1.10  
   
   
  | 1  
   
  | 0.079  
  | 209 701   | 7.13   
   
   | 7 1 2   | 5.37  
   
  | 5 20  | 21.4  | 21.40   | 45.1  | 45 42  | 3.39  | 2 12  
  | 23.60   | 22.54   | 29  | 29  |
| 29/01/2024 | Mid-Ebb  | Sunny   | Low   | 10:10  | 2.2  | М  
   
   | 1.10  
   
   
  | 2  
   
  | 0.078  
  | 308.701   | 7.12   
   
   | 1.13  | 5.41  
   
  | 5.59  | 21.4  | 21.40   | 45.8  | 40.42  | 3.44  | 3.42  
  | 23.48   | 23.34   | 29  | 29  |
| 29/01/2024 | Mid-Ebb  | Sunny   | Low   | 10:36  | 2  | M  
   
   | 1.00  
   
   
  | 1  
   
  | 0.07   
  | 240 222   | 7.11   
   
   | 7 10  | 5.14  
   
  | 5 17  | 21.4  | 21.45   | 44.6  | 12 90  | 3.35  | 2 20  
  | 37.20   | 27 105  | 29  | 26  |
| 29/01/2024 | Mid-Ebb  | Sunny   | Low   | 10:36  | 2  | М  
   
   | 1.00  
   
   
  | 2  
   
  | 0.07   
  | 340.223   | 7.09   
   
   | 1.10  | 5.20  
   
  | 5.17  | 21.5  | 21.45   | 43.2  | 43.09  | 3.25  | 3.30  
  | 37.01   | 57.105  | 22  | 20  |
|            | 29/01/2024<br>29/01/2024<br>29/01/2024<br>29/01/2024<br>29/01/2024<br>29/01/2024<br>29/01/2024<br>29/01/2024<br>29/01/2024<br>29/01/2024 | 29/01/2024         Mid-Flood           29/01/2024         Mid-Ebb           29/01/2024         Mid-Ebb           29/01/2024         Mid-Ebb           29/01/2024         Mid-Ebb           29/01/2024         Mid-Ebb | 29/01/2024         Mid-Flood         Sunny           29/01/2024         Mid-Flob         Sunny           29/01/2024         Mid-Flob         Sunny           29/01/2024         Mid-Flob         Sunny | Date         Tide Mode         Weather         Condition           29/01/2024         Mid-Flood         Sunny         Low           29/01/2024         Mid-Ebb         Sunny         Low | Date         Tide Mode         Weather         Condition         Time           29/01/2024         Mid-Flood         Sunny         Low         15:22           29/01/2024         Mid-Flood         Sunny         Low         15:22           29/01/2024         Mid-Flood         Sunny         Low         15:56           29/01/2024         Mid-Flood         Sunny         Low         15:57           29/01/2024         Mid-Flood         Sunny         Low         15:48           29/01/2024         Mid-Flood         Sunny         Low         10:41           29/01/2024         Mid-Ebb         Sunny         Low         10:42           29/01/2024         Mid-Ebb         Sunny         Low         10:42           29/01/2024         Mid-Ebb         Sunny         Low         10:42           29/01/2024         Mid-Ebb         Sunny         Low         10:01           29/01/2024         Mid-Ebb         Sunny         Low         10:10           29/01/2024         Mid-Ebb         Sunny         Low         10:36           29/01/2024         Mid-Ebb         Sunny         Low         10:36 | Date         Tide Mode         Weather         Condition         Time         Depth<br>(m)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1           29/01/2024         Mid-Flood         Sunny         Low         10:41         2.4           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4           29/01/2024         Mid-Ebb         Sunny         Low         10:10         2.2           29/01/2024         Mid-Ebb         Sunny         Low         10:10         2.2           29/01/2024         Mid-Ebb         Sunny         Low <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M           29/01/2024         Mid-Flood         Sunny         Low         10:41         2.4         M           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M           29/01/2024         Mid-Ebb         Sunny         Low         10:09         2.2         M           29/01/2024<!--</td--><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05           29/01/2024         Mid-Flob         Sunny         Low         10:41         2.4         M         1.20           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20           29/01/2024         Mid-Ebb         Sunny         Low         10:10         2.2<td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Monitoring         Monitoring<br/>G           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         2           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1           29/01/2024         Mid-Flood         Sunny         Low         10:48         2.4         M         1.20         1           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20         1           29/01/2024         Mid-Ebb         Sunny         Low         10:09         2.2         M         1</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         3<br/>Sea<br/>Level         Current<br/>Speed<br/>(m/s)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094           29/01/2024         Mid-Flood         Sunny         Low         10:41         2.4         M         1.20         1         0.067           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20         1         0.067</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Monitoring         3<br/>E         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(°)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.3         M         1.15         1         0.078         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807           29/01/2024         Mid-Ebb         Sunny         Low         10:41         2.4         M         1.20         1         0.067         336.445           29/01/2024         Mid-Ebb         Sunny<td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Current<br/>Directio</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         <th< td=""><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Evel         Sainty           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68           29/01/2024         Mid-Flood         Sunny         Low         15:52   
     2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.66           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073         185.23         7.12         7.13         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.23         7.12         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807         7.19         7.21         5.61         5.31</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>be<br/>fuel         Monitoring<br/>fuel         Monitoring<br/>fu</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(n)         pH         Salinity (ppt)         Temper<br/>(degr           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         178.519         7.12         7.13         5.77         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.23         7.13         7.13         5.51         5.46         5.49         2</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(°)         pH         Salinity (pt)         Temperature<br/>(degree C)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Propertion         Current<br/>Direction<br/>(m)         PH         Salinity (ppt)         Temperature<br/>(degree C)         DO Sa<br/>(9)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.71         21.6         21.6         21.6         42.3           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.237         7.19         7.19         5</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>(m)         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>Period         Monito</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         pH         Salinity (ppt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (n)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         42.09         3.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05         1         0.073         185.235         7.11         7.13         5.71         5.74         21.6         21.60         43.4</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>P         Current<br/>Direction<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (mg/L)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         41.2         41.09         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         43.06         4.26         4.26         4.26         4.26</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>(m)         Monitori</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         <math>\frac{9}{20}</math>         Current<br/>Direction<br/>(m)         <math>\mu</math> <math>\mu</math>         Salinity (ppt)         Salinity (ppt)         Temperature<br/>(degree C)         DO (mg/L)         DU (mg/L)         Turbidity (NTU)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60         41.4         41.03         3.11         3.11         27.01         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:72         2.3         M         1.15         1         0.078         185.235         7.11         7.13         5.77         5.74         21.60         41.4         41.3         3.11         3.11         27.21         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.235         7.11         7.13         7.16         5.71         5.74         21.6         21.60         43.4         43.94         3.16<!--</td--><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Time         Main<br/>Level         Monitoring<br/>Level         Propertication         Monitoring<br/>Level         Properito         Current<br/>Level         Current<br/>Direction<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Pi         Salinity (ppt)         Salinity (ppt)         Respect<br/>(degree L)         DO (mgL)         Aus         Aus</td></td></th<></td></td></td></td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level           29/01/2024     
   Mid-Flood         Sunny         Low         15:22         2.5         M           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M           29/01/2024         Mid-Flood         Sunny         Low         10:41         2.4         M           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M           29/01/2024         Mid-Ebb         Sunny         Low         10:09         2.2         M           29/01/2024 </td <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05           29/01/2024         Mid-Flob         Sunny         Low         10:41         2.4         M         1.20           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20           29/01/2024         Mid-Ebb         Sunny         Low         10:10         2.2<td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Monitoring         Monitoring<br/>G           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         2           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1           29/01/2024         Mid-Flood         Sunny         Low         10:48         2.4         M         1.20         1           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20         1           29/01/2024         Mid-Ebb         Sunny         Low         10:09         2.2         M         1</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         3<br/>Sea<br/>Level         Current<br/>Speed<br/>(m/s)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094           29/01/2024         Mid-Flood         Sunny         Low         10:41         2.4         M         1.20         1         0.067           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20         1         0.067</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Monitoring         3<br/>E         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(°)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.3         M         1.15         1         0.078         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807           29/01/2024         Mid-Ebb         Sunny         Low         10:41         2.4         M         1.20         1         0.067         336.445           29/01/2024         Mid-Ebb         Sunny<td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Current<br/>Directio</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         <th< td=""><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Evel         Sainty           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.66           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073         185.23         7.12         7.13         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.23         7.12         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807         7.19         7.21         5.61         5.31</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>be<br/>fuel         Monitoring<br/>fuel         Monitoring<br/>fu</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(n)         pH         Salinity (ppt)         Temper<br/>(degr           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         178.519         7.12         7.13         5.77         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.23         7.13         7.13         5.51         5.46         5.49         2</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(°)         pH         Salinity (pt)         Temperature<br/>(degree C)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60
        21.60         21.60</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Propertion         Current<br/>Direction<br/>(m)         PH         Salinity (ppt)         Temperature<br/>(degree C)         DO Sa<br/>(9)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.71         21.6         21.6         21.6         42.3           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.237         7.19         7.19         5</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>(m)         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>Period         Monito</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         pH         Salinity (ppt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (n)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         42.09         3.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05         1         0.073         185.235         7.11         7.13         5.71         5.74         21.6         21.60         43.4</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>P         Current<br/>Direction<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (mg/L)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         41.2         41.09         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         43.06         4.26         4.26         4.26         4.26</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>(m)         Monitori</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         <math>\frac{9}{20}</math>         Current<br/>Direction<br/>(m)         <math>\mu</math> <math>\mu</math>         Salinity (ppt)         Salinity (ppt)         Temperature<br/>(degree C)         DO (mg/L)         DU (mg/L)         Turbidity (NTU)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60         41.4         41.03         3.11         3.11         27.01         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:72         2.3         M         1.15         1         0.078         185.235         7.11         7.13         5.77         5.74         21.60         41.4         41.3         3.11         3.11         27.21         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.235         7.11         7.13         7.16         5.71         5.74         21.6         21.60         43.4         43.94         3.16<!--</td--><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Time         Main<br/>Level         Monitoring<br/>Level         Propertication         Monitoring<br/>Level         Properito         Current<br/>Level         Current<br/>Direction<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Pi         Salinity (ppt)         Salinity (ppt)         Respect<br/>(degree L)         DO (mgL)         Aus         Aus</td></td></th<></td></td></td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05           29/01/2024         Mid-Flob         Sunny         Low         10:41         2.4         M         1.20           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20           29/01/2024         Mid-Ebb         Sunny         Low         10:10         2.2 <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Monitoring         Monitoring<br/>G           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         2           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1           29/01/2024         Mid-Flood         Sunny         Low         10:48         2.4         M         1.20         1           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20         1           29/01/2024         Mid-Ebb         Sunny         Low         10:09         2.2         M         1</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         3<br/>Sea<br/>Level         Current<br/>Speed<br/>(m/s)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05       
 1         0.094           29/01/2024         Mid-Flood         Sunny         Low         10:41         2.4         M         1.20         1         0.067           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20         1         0.067</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Monitoring         3<br/>E         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(°)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.3         M         1.15         1         0.078         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807           29/01/2024         Mid-Ebb         Sunny         Low         10:41         2.4         M         1.20         1         0.067         336.445           29/01/2024         Mid-Ebb         Sunny<td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Current<br/>Directio</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         <th< td=""><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Evel         Sainty           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.66           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073         185.23         7.12         7.13         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.23         7.12         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807         7.19         7.21         5.61         5.31</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>be<br/>fuel         Monitoring<br/>fuel         Monitoring<br/>fu</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(n)         pH         Salinity (ppt)         Temper<br/>(degr           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         178.519         7.12         7.13         5.77         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.23         7.13         7.13         5.51         5.46         5.49         2</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(°)         pH         Salinity (pt)         Temperature<br/>(degree C)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Propertion         Current<br/>Direction<br/>(m)         PH         Salinity (ppt)         Temperature<br/>(degree C)         DO Sa<br/>(9)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.71         21.6         21.6         21.6         42.3           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.237         7.19         7.19         5</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>(m)         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>Period         Monito</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         pH         Salinity (ppt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (n)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         42.09         3.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05         1         0.073         185.235         7.11         7.13         5.71         5.74         21.6         21.60         43.4</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>P         Current<br/>Direction<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (mg/L)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60 
       41.2         41.09         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         43.06         4.26         4.26         4.26         4.26</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>(m)         Monitori</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         <math>\frac{9}{20}</math>         Current<br/>Direction<br/>(m)         <math>\mu</math> <math>\mu</math>         Salinity (ppt)         Salinity (ppt)         Temperature<br/>(degree C)         DO (mg/L)         DU (mg/L)         Turbidity (NTU)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60         41.4         41.03         3.11         3.11         27.01         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:72         2.3         M         1.15         1         0.078         185.235         7.11         7.13         5.77         5.74         21.60         41.4         41.3         3.11         3.11         27.21         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.235         7.11         7.13         7.16         5.71         5.74         21.6         21.60         43.4         43.94         3.16<!--</td--><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Time         Main<br/>Level         Monitoring<br/>Level         Propertication         Monitoring<br/>Level         Properito         Current<br/>Level         Current<br/>Direction<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Pi         Salinity (ppt)         Salinity (ppt)         Respect<br/>(degree L)         DO (mgL)         Aus         Aus</td></td></th<></td></td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Monitoring         Monitoring<br>G           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         2           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1           29/01/2024         Mid-Flood         Sunny         Low         10:48         2.4         M         1.20         1           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20         1           29/01/2024         Mid-Ebb         Sunny         Low         10:09         2.2         M         1 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         3<br>Sea<br>Level         Current<br>Speed<br>(m/s)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094           29/01/2024         Mid-Flood         Sunny         Low         10:41         2.4         M         1.20         1         0.067           29/01/2024         Mid-Ebb         Sunny         Low         10:42         2.4         M         1.20         1         0.067 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Monitoring         3<br>E         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(°)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.3         M         1.15         1         0.078         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807           29/01/2024         Mid-Ebb         Sunny         Low         10:41         2.4         M         1.20         1         0.067         336.445           29/01/2024         Mid-Ebb         Sunny <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Level         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Current<br/>Directio</td> <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         <th< td=""><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Evel         Sainty           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.66           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073         185.23         7.12         7.13         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.23         7.12         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807         7.19         7.21         5.61         5.31</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>be<br/>fuel         Monitoring<br/>fuel         Monitoring<br/>fu</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(n)         pH         Salinity (ppt)         Temper<br/>(degr           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         178.519         7.12         7.13         5.77         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.23         7.13         7.13         5.51         5.46         5.49         2</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(°)         pH         Salinity (pt)         Temperature<br/>(degree C)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60         21.60         21.60         21.60         21.60         21.60         21.60         21.60         21.60         21.60         21.60   
     21.60         21.60</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Propertion         Current<br/>Direction<br/>(m)         PH         Salinity (ppt)         Temperature<br/>(degree C)         DO Sa<br/>(9)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.71         21.6         21.6         21.6         42.3           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.237         7.19         7.19         5</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>(m)         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>Period         Monito</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         pH         Salinity (ppt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (n)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         42.09         3.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05         1         0.073         185.235         7.11         7.13         5.71         5.74         21.6         21.60         43.4</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>P         Current<br/>Direction<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (mg/L)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         41.2         41.09         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         43.06         4.26         4.26         4.26         4.26</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>(m)         Monitori</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         <math>\frac{9}{20}</math>         Current<br/>Direction<br/>(m)         <math>\mu</math> <math>\mu</math>         Salinity (ppt)         Salinity (ppt)         Temperature<br/>(degree C)         DO (mg/L)         DU (mg/L)         Turbidity (NTU)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60         41.4         41.03         3.11         3.11         27.01         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:72         2.3         M         1.15         1         0.078         185.235         7.11         7.13         5.77         5.74         21.60         41.4         41.3         3.11         3.11         27.21         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.235         7.11         7.13         7.16         5.71         5.74         21.6         21.60         43.4         43.94         3.16<!--</td--><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Time         Main<br/>Level         Monitoring<br/>Level         Propertication         Monitoring<br/>Level         Properito         Current<br/>Level         Current<br/>Direction<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Pi         Salinity (ppt)         Salinity (ppt)         Respect<br/>(degree L)         DO (mgL)         Aus         Aus</td></td></th<></td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Level         Current<br>Speed<br>(m/s)         Current<br>Speed<br>(m/s)         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(m/s)         Current<br>Directio | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level <th< td=""><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Evel         Sainty           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.66           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073         185.23         7.12         7.13         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.23         7.12         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807         7.19         7.21         5.61         5.31</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>be<br/>fuel         Monitoring<br/>fuel         Monitoring<br/>fu</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(n)         pH         Salinity (ppt)         Temper<br/>(degr           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         178.519         7.12         7.13         5.77         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1        
0.073         185.23         7.13         7.13         5.51         5.46         5.49         2</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Depth<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>Direction<br/>(°)         pH         Salinity (pt)         Temperature<br/>(degree C)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Propertion         Current<br/>Direction<br/>(m)         PH         Salinity (ppt)         Temperature<br/>(degree C)         DO Sa<br/>(9)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.71         21.6         21.6         21.6         42.3           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.237         7.19         7.19         5</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>Level         Monitoring<br/>Level         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>(m)         Monitoring<br/>Period         Monitoring<br/>Spect         Monitoring<br/>Period         Monito</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>(m)         Water<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>(m)         Monitoring<br/>fee         Monitoring<br/>fee         Monitoring<br/>fee         Current<br/>Speed<br/>(m/s)         pH         Salinity (ppt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (n)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         42.09         3.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05         1         0.073         185.235         7.11         7.13         5.71         5.74         21.6         21.60         43.4</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>P         Current<br/>Speed<br/>(m/s)         Current<br/>P         Current<br/>Direction<br/>(m)         pH         Salinity (pt)         Temperature<br/>(degree C)         DO Saturation<br/>(%)         DO (mg/L)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         41.2         41.09         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         43.06         4.26         4.26         4.26         4.26</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Wate<br/>(m)         Monitoring<br/>(m)         Monitoring<br/>Level (m)         Monitoring<br/>(m)         Monitori</td><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Water<br/>Depth<br/>(m)         Monitoring<br/>Level         <math>\frac{9}{20}</math>         Current<br/>Direction<br/>(m)         <math>\mu</math> <math>\mu</math>         Salinity (ppt)         Salinity (ppt)         Temperature<br/>(degree C)         DO (mg/L)         DU (mg/L)         Turbidity (NTU)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60         41.4         41.03         3.11         3.11         27.01         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:72         2.3         M         1.15         1         0.078         185.235         7.11         7.13         5.77         5.74         21.60         41.4         41.3         3.11         3.11         27.21         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.235         7.11         7.13         7.16         5.71         5.74         21.6         21.60         43.4         43.94         3.16<!--</td--><td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Time         Main<br/>Level         Monitoring<br/>Level         Propertication         Monitoring<br/>Level         Properito         Current<br/>Level         Current<br/>Direction<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Pi         Salinity (ppt)         Salinity (ppt)         Respect<br/>(degree L)         DO (mgL)         Aus         Aus</td></td></th<> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Evel         Sainty           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68           29/01/2024         Mid-Flood         Sunny         Low         15:52         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.66           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.073         185.23         7.12         7.13         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.23         7.12         7.13         5.77           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.094         182.807         7.19         7.21         5.61         5.31 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>be<br>fuel         Monitoring<br>fuel         Monitoring<br>fu | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Water<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>fee         Monitoring<br>fee         Monitoring<br>fee         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(n)         pH         Salinity (ppt)         Temper<br>(degr           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         178.519         7.12         7.13         5.77         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:57       
 2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.23         7.13         7.13         5.51         5.46         5.49         2 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Depth<br>(m)         Monitoring<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>P         Current<br>Speed<br>(m/s)         Current<br>Direction<br>(°)         pH         Salinity (pt)         Temperature<br>(degree C)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>Depth<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Propertion         Current<br>Direction<br>(m)         PH         Salinity (ppt)         Temperature<br>(degree C)         DO Sa<br>(9)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:56         2.3         M         1.15         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.6         41.4           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.71         21.6         21.6         21.6         42.3           29/01/2024         Mid-Flood         Sunny         Low         15:48         2.1         M         1.05         1         0.073         185.237         7.19         7.19         5 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Water<br>(m)         Monitoring<br>Level         Monitoring<br>Level         Monitoring<br>Period         Monitoring<br>Spect         Monitoring<br>(m)         Monitoring<br>Period         Monitoring<br>Spect         Monitoring<br>Period         Monito | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>(m)         Water<br>(m)         Monitoring<br>(m)         Monitoring<br>Level (m)         Monitoring<br>fee         Monitoring<br>(m)         Monitoring<br>fee         Monitoring<br>(m)         Monitoring<br>fee         Monitoring<br>fee         Monitoring<br>fee         Current<br>Speed<br>(m/s)         pH         Salinity (ppt)         Temperature<br>(degree C)         DO Saturation<br>(%)         DO (n)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         42.09         3.15           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.05         1         0.073         185.235         7.11         7.13         5.71         5.74         21.6         21.60         43.4 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Wate<br>(m)         Monitoring<br>(m)         Monitoring<br>Level (m)         Monitoring<br>P         Current<br>Speed<br>(m/s)         Current<br>P         Current<br>Direction<br>(m)         pH         Salinity (pt)         Temperature<br>(degree C)         DO Saturation<br>(%)         DO (mg/L)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.66         5.67         21.6         21.60         41.4         41.30         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.078         185.235         7.12         7.13         5.71         5.74         21.6         21.60         41.2         41.09         3.11         3.11           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         1         0.073         185.235         7.12         7.13         5.71         5.74         21.6         21.60         43.4         43.06         4.26         4.26         4.26         4.26 | Date         Tide Mode         Weather         Sea<br>Condition         Time         Wate<br>(m)         Monitoring<br>(m)         Monitoring<br>Level (m)         Monitoring<br>(m)         Monitori | Date         Tide Mode         Weather         Sea<br>Condition         Time         Water<br>Depth<br>(m)         Monitoring<br>Level $\frac{9}{20}$ Current<br>Direction<br>(m) $\mu$ $\mu$ Salinity (ppt)         Salinity (ppt)         Temperature<br>(degree C)         DO (mg/L)         DU (mg/L)         Turbidity (NTU)           29/01/2024         Mid-Flood         Sunny         Low         15:22         2.5         M         1.25         1         0.078         178.519         7.16         7.16         5.68         5.67         21.6         21.60         41.4         41.03         3.11         3.11         27.01         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:72         2.3         M         1.15         1         0.078         185.235         7.11         7.13         5.77         5.74         21.60         41.4         41.3         3.11         3.11         27.21         27.06           29/01/2024         Mid-Flood         Sunny         Low         15:57         2.3         M         1.15         2         0.073         185.235         7.11         7.13         7.16         5.71         5.74         21.6         21.60         43.4         43.94         3.16 </td <td>Date         Tide Mode         Weather         Sea<br/>Condition         Time         Time         Main<br/>Level         Monitoring<br/>Level         Propertication         Monitoring<br/>Level         Properito         Current<br/>Level         Current<br/>Direction<br/>(m/s)         Current<br/>Direction<br/>(m/s)         Pi         Salinity (ppt)         Salinity (ppt)         Respect<br/>(degree L)         DO (mgL)         Aus         Aus</td> | Date         Tide Mode         Weather         Sea<br>Condition         Time         Time         Main<br>Level         Monitoring<br>Level         Propertication         Monitoring<br>Level         Properito         Current<br>Level         Current<br>Direction<br>(m/s)         Current<br>Direction<br>(m/s)         Pi         Salinity (ppt)         Salinity (ppt)         Respect<br>(degree L)         DO (mgL)         Aus         Aus |

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 OF T IOOU TIGE						
Monitoring	D	0	N	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M2(Impact Station)	1.88	1.79	43.0	52.4	81	112
M3(Impact Station)	3.28	3.14	74	78	104	167
For Ebb Tide						
Monitoring	D	0	N	TU		c

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

									Ð						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 (°)	pl	H	Salinit	y (ppt)	Tempe (degr		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	31/01/2024	Mid-Flood	Cloudy	Low	16:33	2.5	М	1.25	1	0.083	178.88	7.26	7.27	6.77	6.75	22.1	22.10	40.2	39.63	3.02	2.98	21.45	21.30	31	31
M1	31/01/2024	Mid-Flood	Cloudy	Low	16:33	2.5	M	1.25	2	0.000	170.00	7.27	1.21	6.72	0.75	22.1	22.10	39.1	55.05	2.94	2.30	21.14	21.50	30	51
M2	31/01/2024	Mid-Flood	Cloudy	Low	16:59	2.2	М	1.10	1	0.073	186.883	7.28	7.28	6.38	6.38	22.1	22.10	39.2	39.70	2.95	2.99	20.48	20.365	31	33
M2	31/01/2024	Mid-Flood	Cloudy	Low	17:00	2.2	М	1.10	2	0.075	100.005	7.28	1.20	6.37	0.50	22.1	22.10	40.2	55.70	3.02	2.33	20.25	20.303	34	55
M3	31/01/2024	Mid-Flood	Cloudy	Low	16:38	2.1	М	1.05	1	0.089	177.216	7.25	7.26	6.59	6.55	22.1	22.10	38.3	37.37	3.88	3.81	39.55	39.51	41	39
M3	31/01/2024	Mid-Flood	Cloudy	Low	16:38	2.1	М	1.05	2	0.009	177.210	7.27	7.20	6.51	0.55	22.1	22.10	36.4	31.31	3.74	3.01	39.47	39.01	37	39
M1	31/01/2024	Mid-Ebb	Cloudy	Low	11:28	2.5	М	1.25	1	0.099	306.105	7.24	7.25	5.78	5.75	22.4	22.45	37.6	37.51	2.83	2.82	18.72	18.52	50	44
M1	31/01/2024	Mid-Ebb	Cloudy	Low	11:29	2.5	М	1.25	2	0.099	300.105	7.25	1.25	5.72	5.75	22.5	22.40	37.4	57.51	2.81	2.02	18.32	10.52	37	44
M2	31/01/2024	Mid-Ebb	Cloudy	Low	10:49	2.4	М	1.20	1	0.108	340.148	7.23	7.24	5.61	5.64	22.4 22.4	22.40	39.6	40.23	2.98	3.03	19.76	19.79	36	37
M2	31/01/2024	Mid-Ebb	Cloudy	Low	10:50	2.4	М	1.20	2	0.100	540.140	7.25	1.24	5.67	5.04	22.4	22.40	40.8	40.23	3.07	5.05	19.81	13.19	37	57
M3	31/01/2024	Mid-Ebb	Cloudy	Low	11:37	2.2	М	1.10	1	0.068	345.05	7.2	7.19	5.68	5.71	22.4	22.45	38.0	37.84	2.86	2.85	33.48	33.37	19	16
M3	31/01/2024	Mid-Ebb	Cloudy	Low	11:37	2.2	M	1.10	2	0.000	343.05	7.18	1.19	5.73	5.71	22.5	22.43	37.6	57.04	2.83	2.00	33.26	33.37	12	10
Remark						•						For Flo	nd Tide												

Remark

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

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

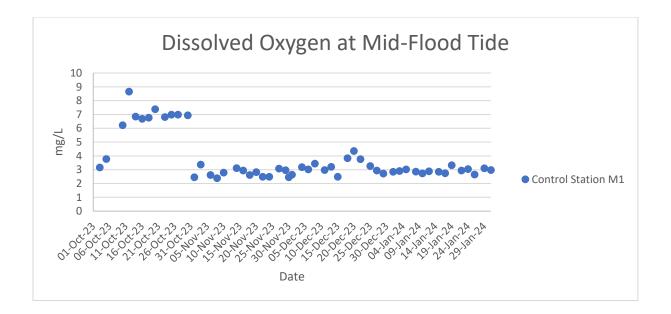
3. Action Level for Turbidity: 95%-ile of baseline data or 120% of upstream control station's turbidity recorded on the same day.

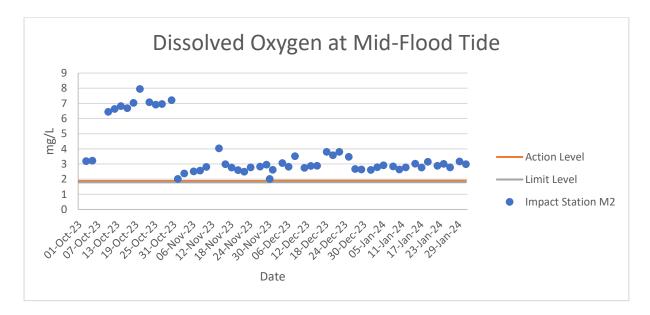
4. Limit Level for Turbidity: 99%-ile of baseline data or 130% of upstream control station's turbidity recorded on the same day.

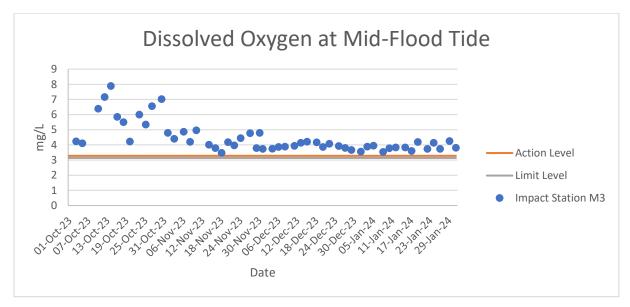
5. Action Level for SS: 95%-ile of baseline data or 120% of upstream control station's SS recorded on the same day.

T OF T IOOU TIDE						
Monitoring	C	0	N.	τu	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	Г	0	N	ГП	S	S

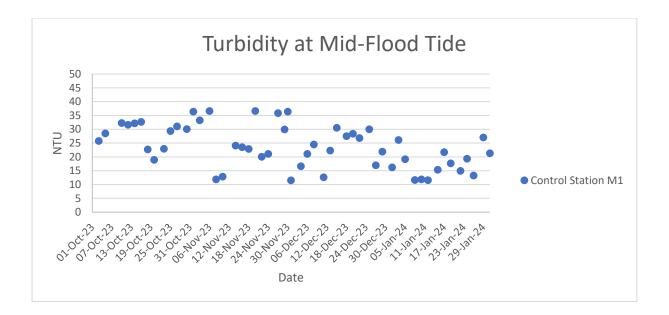
Monitoring	D	0	N	TU	S	S
Location	AL	LL	AL	LL	AL	LL
M1(Impact Station)	2.25	1.91	48.4	50.4	59	68

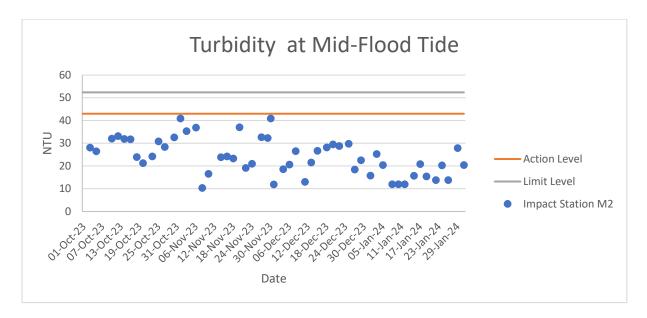


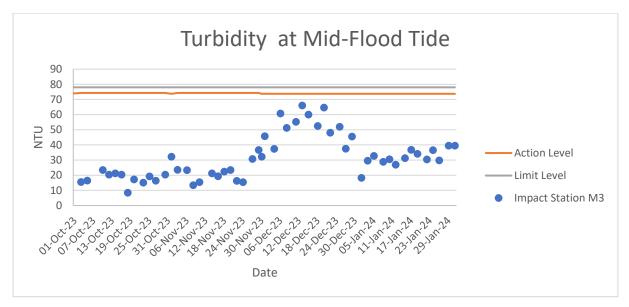




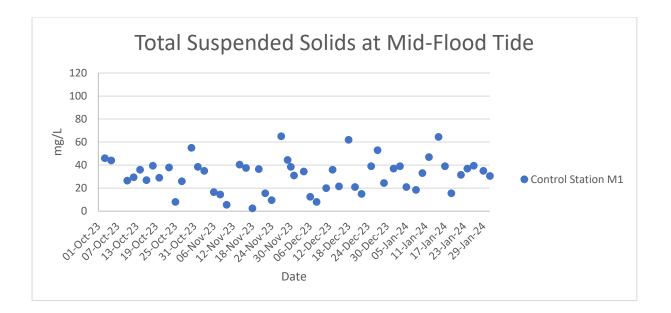
Water Quality Monitoring Results

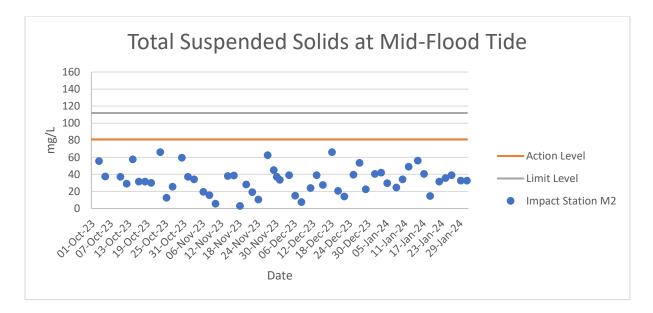


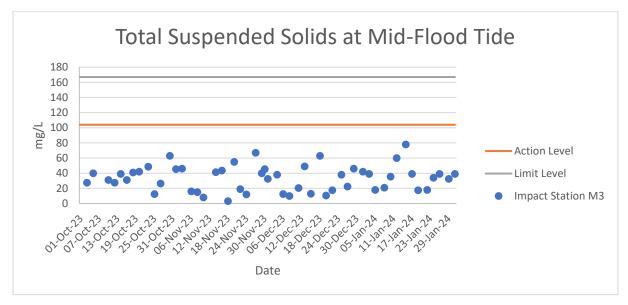




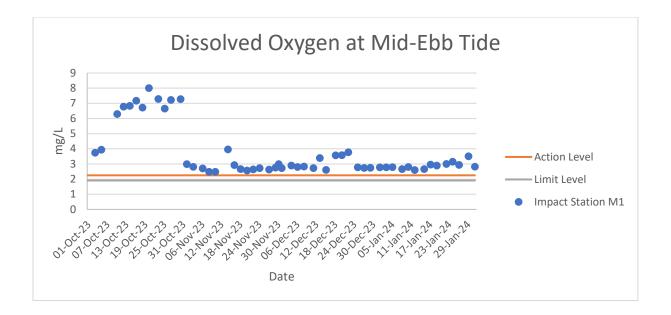
Water Quality Monitoring Results

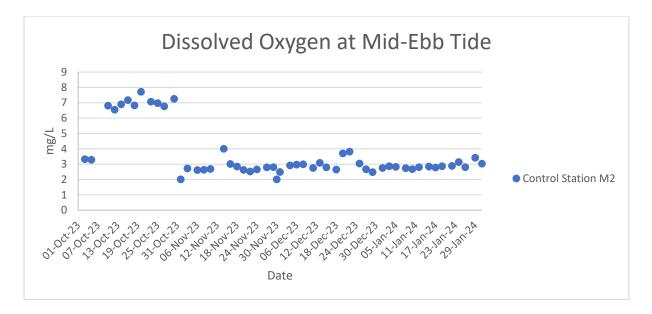


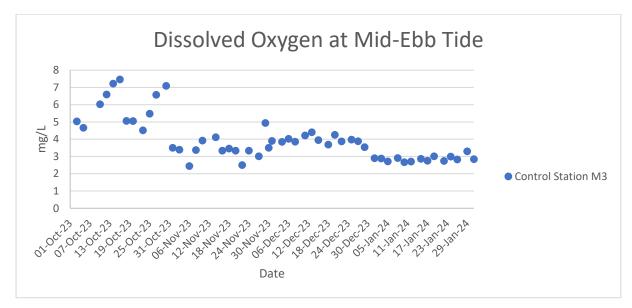




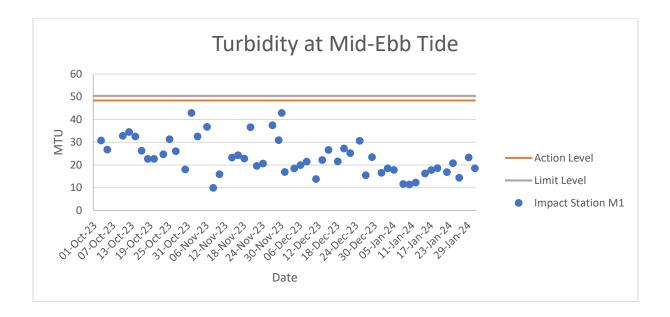
Water Quality Monitoring Results

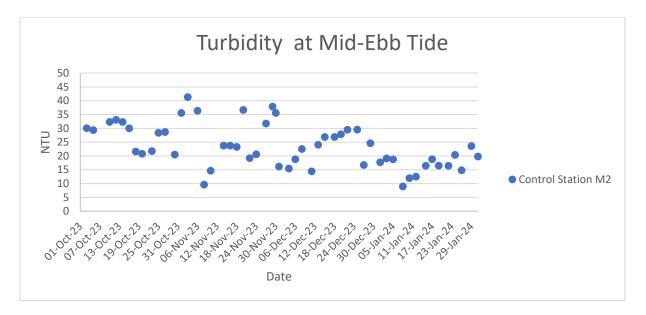


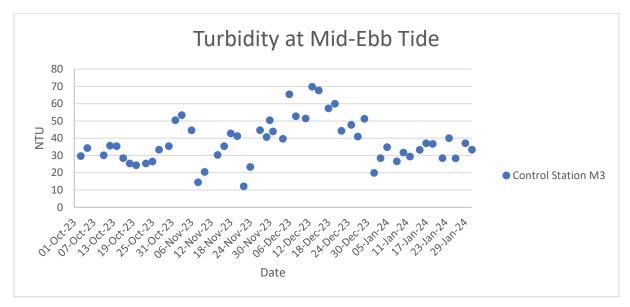




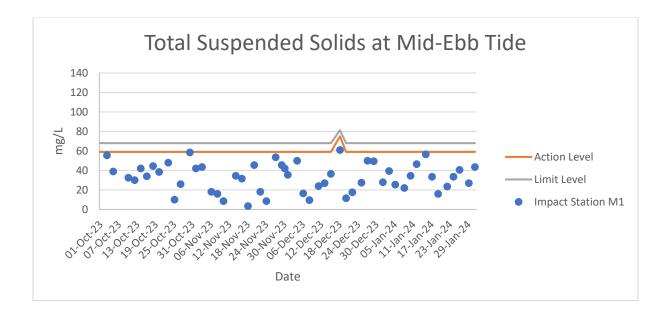
Water Quality Monitoring Results

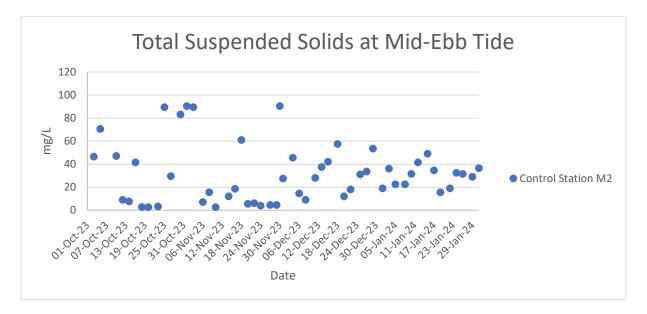


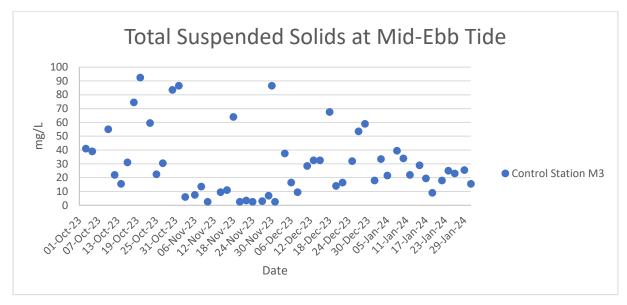




Water Quality Monitoring Results







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		Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Black Drongo	Dicrurus macrocercus	2	Common	SV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Black-collared Starling	Gracupica nigricollis	20	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Chinese Pond Heron	Ardeola bacchus	7	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Collared Crow	Corvus torquatus	2	Uncommon	R	LC	-	-	NT	VU	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Common Greenshank	Tringa nebularia	1	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Common Sandpiper	Actitis hypoleucos	2	Common	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Crested Myna	Acridotheres cristatellus	7	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Great Cormorant	Phalacrocorax carbo	2	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Great Egret	Ardea alba	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Little Egret	Egretta garzetta	9	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Little Grebe	Tachybaptus ruficollis	2	Common	R	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Spotted Dove	Spilopelia chinensis	3	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW1	Wood Sandpiper	Tringa glareola	1	Common	PM,WV	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Black Kite	Milvus migrans	3	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Black-collared Starling	Gracupica nigricollis	14	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Common Myna	Acridotheres tristis	4	Uncommon	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Crested Myna	Acridotheres cristatellus	10	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Little Grebe	Tachybaptus ruficollis	2	Common	R	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	White-throated Kingfisher	Halcyon smyrnensis	1	Common	R	-	-	-	LC	LC	Y	Y

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect		Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
15/1/2024	Daytime	Dry	FLW	Point Count	FLW2	Yellow-browed Warbler	Phylloscopus inornatus	1	Common	WV,Sp	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Black-collared Starling	Gracupica nigricollis	5	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Chinese Bulbul	Pycnonotus sinensis	8	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Chinese Pond Heron	Ardeola bacchus	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Common Moorhen	Gallinula chloropus	1	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Crested Myna	Acridotheres cristatellus	4	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Dusky Warbler	Phylloscopus fuscatus	2	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Great Cormorant	Phalacrocorax carbo	3	Common	WV	PRC	-	-	LC	LC	Ŷ	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Greater Coucal	Centropus sinensis	2	Common	R	-	Class II	VU	LC	LC	Y	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Little Grebe	Tachybaptus ruficollis	4	Common	R	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	White Wagtail	Motacilla alba	2	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	White-throated Kingfisher	Halcyon smyrnensis	1	Common	R	-	-	-	LC	LC	Ŷ	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW3	Yellow-bellied Prinia	Prinia flaviventris	3	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Chinese Bulbul	Pycnonotus sinensis	7	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Chinese Pond Heron	Ardeola bacchus	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Eurasian Collared Dove	Streptopelia decaocto	2	Common	-	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Great Cormorant	Phalacrocorax carbo	1	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Little Grebe	Tachybaptus ruficollis	1	Common	R	LC	-	-	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 <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern⁴	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>8</sup>
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Masked Laughingthrush	Pterorhinus perspicillatus	3	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Purple Heron	Ardea purpurea	1	Uncommon	AM,P	RC	-	-	-	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Scaly-breasted Munia	Lonchura punctulata	14	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Tufted Duck	Aythya fuligula	4	Uncommon	WV	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	White-throated Kingfisher	Halcyon smyrnensis	1	Common	R	-	-	-	LC	LC	Ŷ	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW4	Yellow-bellied Prinia	Prinia flaviventris	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Black-collared Starling	Gracupica nigricollis	2	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Black-headed Gull	Chroicocephalus ridibundus	130	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Common Moorhen	Gallinula chloropus	2	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Crested Myna	Acridotheres cristatellus	8	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Daurian Redstart	Phoenicurus auroreus	1	Common	WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Eastern Cattle Egret	Bubulcus coromandus	18	Common	R.PM	-	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Eurasian Collared Dove	Streptopelia decaocto	3	Common	-	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Great Cormorant	Phalacrocorax carbo	8	Common	WV	PRC	-	-	LC	LC	Ŷ	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Great Egret	Ardea alba	3	Common	R,WV	PRC (RC)	-	-	LC	LC	Ŷ	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Grey Heron	Ardea cinerea	3	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Little Egret	Egretta garzetta	3	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Olive-backed Pipit	Anthus hodgsoni	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Spotted Dove	Spilopelia chinensis	4	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	Stejneger's Stonechat	Saxicola stejnegeri	1	Common	PM,WV	-	-	-	LC	LC	N	N

Date dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect		Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependen
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	White Wagtail	Motacilla alba	2	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW5	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	Black-collared Starling	Gracupica nigricollis	10	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	Great Cormorant	Phalacrocorax carbo	5	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	Great Egret	Ardea alba	12	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	Grey Heron	Ardea cinerea	1	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW6	Yellow-browed Warbler	Phylloscopus inornatus	1	Common	WV,Sp	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Azure-winged Magpie	Cyanopica cyanus	5	Introduced	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Black-collared Starling	Gracupica nigricollis	25	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Chinese Pond Heron	Ardeola bacchus	14	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Common Myna	Acridotheres tristis	2	Uncommon	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Crested Myna	Acridotheres cristatellus	8	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Great Cormorant	Phalacrocorax carbo	2	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Little Egret	Egretta garzetta	4	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Point Count	FLW7	Wood Sandpiper	Tringa glareola	1	Common	PM,WV	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Azure-winged Magpie	Cyanopica cyanus	3	Introduced	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Black Kite	Milvus migrans	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y

Date dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect		Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern <sup>4</sup>	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent <sup>4</sup>
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Black-collared Starling	Gracupica nigricollis	20	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Black-faced Bunting	Emberiza spodocephala	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Chinese Bulbul	Pycnonotus sinensis	7	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Chinese Pond Heron	Ardeola bacchus	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Cinereous Tit	Parus cinereus	2	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Collared Crow	Corvus torquatus	1	Uncommon	R	LC	-	-	NT	VU	Y	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Common Myna	Acridotheres tristis	3	Uncommon	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Common Sandpiper	Actitis hypoleucos	1	Common	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Crested Myna	Acridotheres cristatellus	11	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Dusky Warbler	Phylloscopus fuscatus	2	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Eastern Yellow Wagtail	Motacilla tschutschensis	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Eurasian Collared Dove	Streptopelia decaocto	1	Common	-	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Great Cormorant	Phalacrocorax carbo	23	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Greater Coucal	Centropus sinensis	1	Common	R	-	Class II	VU	LC	LC	Y	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Little Grebe	Tachybaptus ruficollis	3	Common	R	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Long-tailed Shrike	Lanius schach	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Oriental Magpie Robin	Copsychus saularis	1	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Pied Kingfisher	Ceryle rudis	1	Uncommon	R	-	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Scaly-breasted Munia	Lonchura punctulata	4	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Spotted Dove	Spilopelia chinensis	4	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Stejneger's Stonechat	Saxicola stejnegeri	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect		Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern⁴	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
15/1/2024	Daytime	Dry	FLW	Transect	FLW	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Yellow Bittern	Ixobrychus sinensis	1	Uncommon	PM,SV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Yellow-bellied Prinia	Prinia flaviventris	2	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	FLW	Transect	FLW	Yellow-browed Warbler	Phylloscopus inornatus	1	Common	WV,Sp	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Black Kite	Milvus migrans	2	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Crested Myna	Acridotheres cristatellus	35	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Eastern Yellow Wagtail	Motacilla tschutschensis	2	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Great Cormorant	Phalacrocorax carbo	91	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Long-tailed Shrike	Lanius schach	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Olive-backed Pipit	Anthus hodgsoni	2	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	Spotted Dove	Spilopelia chinensis	4	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	NSW1	White Wagtail	Motacilla alba	5	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Black Kite	Milvus migrans	1	Common	R,WV	(RC)	Class II	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Black-winged Stilt	Himantopus himantopus	11	Common	РМ	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Chinese Bulbul	Pycnonotus sinensis	3	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Chinese Pond Heron	Ardeola bacchus	8	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Common Greenshank	Tringa nebularia	8	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Crested Myna	Acridotheres cristatellus	4	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Dusky Warbler	Phylloscopus fuscatus	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Eurasian Teal	Anas crecca	4	Common	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Great Cormorant	Phalacrocorax carbo	4	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Northern Shoveler		10	Abundant	WV	RC	-	-	LC	LC	Y	Y

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15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Pied Avocet	Recurvirostra avosetta	14	Abundant	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Pied Kingfisher	Ceryle rudis	1	Uncommon	R	-	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Plain Prinia	Prinia inornata	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Red-whiskered Bulbul	Pycnonotus jocosus	2	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	White Wagtail	Motacilla alba	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW1	Wood Sandpiper	Tringa glareola	1	Common	PM,WV	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Great Cormorant	Phalacrocorax carbo	4	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Northern Shoveler	Spatula clypeata	4	Abundant	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Oriental Magpie	Pica serica	2	Common	R	-	-	-	-	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Pied Avocet	Recurvirostra avosetta	2	Abundant	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	Swinhoe's White-eye	Zosterops simplex	5	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW2	White Wagtail	Motacilla alba	2	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-faced Spoonbill	Platalea minor	6	Common	WV	PGC	Class II	EN	EN	EN	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Black-winged Stilt	Himantopus himantopus	14	Common	PM	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Chinese Pond Heron	Ardeola bacchus	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Cinereous Tit	Parus cinereus	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Greenshank	Tringa nebularia	2	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Moorhen	Gallinula chloropus	7	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Redshank	Tringa totanus	6	Common	PM	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Eurasian Teal	Anas crecca	12	Common	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Eurasian Wigeon	Mareca penelope	15	Common	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Garganey	Spatula querquedula	3	Common	M,W	-	-	-	-	LC	N	Y

Date (dd/mm/yyyy)	Daytime/ Night time	Season	Area	Transect / Point Count	Point Count (Location) / Transect		Scientific Name	Abundance	Distribution in Hong Kong <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern⁴	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>	IUCN Red List <sup>7</sup> (v.2020-3)	Species of Conservation Importance	Wetland Dependent
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Great Cormorant	Phalacrocorax carbo	7	Common	WV	PRC	-	-	LC	LC	Ŷ	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Grey Heron	Ardea cinerea	2	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Little Egret	Egretta garzetta	1	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Marsh Sandpiper	Tringa stagnatilis	2	Common	PM,WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Northern Shoveler	Spatula clypeata	16	Abundant	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Pied Avocet	Recurvirostra avosetta	44	Abundant	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	Tufted Duck	Aythya fuligula	3	Uncommon	WV	LC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Point Count	SP/NSW3	White-breasted Waterhen	Amaurornis phoenicurus	1	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Black-winged Stilt	Himantopus himantopus	4	Common	PM	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Chinese Bulbul	Pycnonotus sinensis	4	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Cinereous Tit	Parus cinereus	2	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Common Tailorbird	Orthotomus sutorius	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Eurasian Teal	Anas crecca	2	Common	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Fork-tailed Sunbird	Aethopyga christinae	1	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Great Cormorant	Phalacrocorax carbo	8	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Transect	NSW	House Swift	Apus nipalensis	10	Abundant, Common	SpM,R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Masked	Pterorhinus	6	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Laughingthrush Northern Shoveler	perspicillatus Spatula clypeata	5	Abundant	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Olive-backed Pipit	Anthus hodgsoni	1	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Red-whiskered	Pycnonotus	4	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	NSW	Transect	NSW	Bulbul Yellow-browed	jocosus Phylloscopus	3	Common	WV,Sp	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Warbler Black-collared	inornatus Gracupica	4	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Starling Black-headed Gull	nigricollis Chroicocephalus	75	Common	WV	PRC	-	-	LC	LC	Y	Y
10/1/2024	Daytime			Hansell		Black Headed Gull	ridibundus	15	Common	vv v		_					

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15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Black-winged Stilt	Himantopus himantopus	14	Common	PM	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Chinese Bulbul	Pycnonotus sinensis	4	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Chinese Pond Heron	Ardeola bacchus	6	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Cinereous Tit	Parus cinereus	2	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Greenshank	Tringa nebularia	5	Abundant	PM,WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Kingfisher	Alcedo atthis	1	Common	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Moorhen	Gallinula chloropus	12	Common	R	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Redshank	Tringa totanus	6	Common	PM	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Common Sandpiper	Actitis hypoleucos	2	Common	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Crested Myna	Acridotheres cristatellus	8	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Dusky Warbler	Phylloscopus fuscatus	2	Common	PM,WV	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Eurasian Teal	Anas crecca	8	Common	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Great Cormorant	Phalacrocorax carbo	2	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Great Egret	Ardea alba	1	Common	R,WV	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Green Sandpiper	Tringa ochropus	1	Uncommon	PM,WV	-	-	-	LC	LC	N	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Grey Heron	Ardea cinerea	2	Common	WV	PRC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Lesser Black-backed Gull	Larus fuscus	1	Common	W,M	LC	-	-	-	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Little Egret	Egretta garzetta	2	Common	R	PRC (RC)	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Pied Avocet	Recurvirostra avosetta	14	Abundant	WV	RC	-	-	LC	LC	Y	Y
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Plain Prinia	Prinia inornata	2	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Red-whiskered Bulbul	Pycnonotus jocosus	8	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Scaly-breasted Munia	Lonchura punctulata	4	Common	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Spotted Dove	Spilopelia chinensis	2	Abundant	R	-	-	-	LC	LC	N	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Swinhoe's White-eye	Zosterops simplex	2	Abundant	R	-	-	-	LC	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 <sup>2</sup>	Principal Status <sup>3</sup>	Level of Concern⁴	Protection Status in China <sup>5</sup>	China Red Data Book <sup>6</sup>	Red List of China's Vertebrates <sup>9</sup>		Species of Conservation Importance	Wetland Dependent <sup>8</sup>
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	White Wagtail	Motacilla alba	4	Common	PM,WV	-	-	-	LC	LC	Ν	N
15/1/2024	Daytime	Dry	YLIE-CW	Transect	YLIE-CW	Yellow-browed Warbler	Phylloscopus inornatus	2	Common	WV,Sp	-	-	-	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;

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

5. List of Wild Animals under State Protection (promulgated by State Forestry Administration and Ministry of Agriculture on 14 January, 1989).

6. Zheng, G. M. and Wang, Q. S. (1998). China Red Data Book

7. IUCN 2021. The IUCN Red List of Threatened Species. Version 2020-3.

8. Wetland-dependent species (including wetland-dependent species and waterbirds).

9. Jiang et al. (2016). Red List of China's Vertebrates

Appendix F.2.1 Ecological Bird Monitoring Diversity (All avifauna species in Point Count Method) in All Habitats (15 January 2024)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
Spatula querquedula	3	0.00346	-5.666426688	-0.01961	0.111102
Spatula clypeata	30	0.034602	-3.363841595	-0.1164	0.391537
Mareca penelope	15	0.017301	-4.056988776	-0.07019	0.284761
Anas crecca	16	0.018454	-3.992450255	-0.07368	0.294157
Aythya fuligula	7	0.008074	-4.819128828	-0.03891	0.187506
Tachybaptus ruficollis	9	0.010381	-4.567814399	-0.04742	0.216591
Platalea minor	6	0.00692	-4.973279508	-0.03442	0.171166
Ardeola bacchus	44	0.05075	-2.980849343	-0.15128	0.450935
Bubulcus coromandus	18	0.020761	-3.874667219	-0.08044	0.31169
Ardea cinerea	9	0.010381	-4.567814399	-0.04742	0.216591
Ardea purpurea	1	0.001153	-6.765038977	-0.0078	0.052786
Ardea alba	21	0.024221	-3.720516539	-0.09012	0.335279
Egretta garzetta	19	0.021915	-3.820599998	-0.08373	0.319888
Phalacrocorax carbo	127	0.146482	-1.92085189	-0.28137	0.540471
Milvus migrans	6	0.00692	-4.973279508	-0.03442	0.171166
Amaurornis phoenicurus	4	0.004614	-5.378744616	-0.02482	0.133476
Gallinula chloropus	10	0.011534	-4.462453884	-0.05147	0.229683
Himantopus himantopus	25	0.028835	-3.546163152	-0.10225	0.362609
Recurvirostra avosetta	60	0.069204	-2.670694415	-0.18482	0.493606
Actitis hypoleucos	5	0.005767	-5.155601064	-0.02973	0.153288
Tringa totanus	6	0.00692	-4.973279508	-0.03442	0.171166
Tringa stagnatilis	2	0.002307	-6.071891796	-0.01401	0.085047
Tringa glareola	3	0.00346	-5.666426688	-0.01961	0.111102
Tringa nebularia	11	0.012687	-4.367143704	-0.05541	0.241974
Chroicocephalus ridibundus	130	0.149942	-1.897504526	-0.28452	0.539871
Streptopelia decaocto	5	0.005767	-5.155601064	-0.02973	0.153288
Spilopelia chinensis	15	0.017301	-4.056988776	-0.07019	0.284761
Centropus sinensis	3	0.00346	-5.666426688	-0.01961	0.111102
Halcyon smyrnensis	3	0.00346	-5.666426688	-0.01961	0.111102
Ceryle rudis	1	0.001153	-6.765038977	-0.0078	0.052786
Lanius schach	1	0.001153	-6.765038977	-0.0078	0.052786
Dicrurus macrocercus	2	0.002307	-6.071891796	-0.01401	0.085047
Cyanopica cyanus	5	0.005767	-5.155601064	-0.02973	0.153288
Pica serica	2	0.002307	-6.071891796	-0.01401	0.085047
Corvus torquatus	2	0.002307	-6.071891796	-0.01401	0.085047
Parus cinereus	1	0.001153	-6.765038977	-0.0078	0.052786
Pycnonotus jocosus	2	0.002307	-6.071891796	-0.01401	0.085047
Pycnonotus sinensis	18	0.020761	-3.874667219	-0.08044	0.31169
Phylloscopus inornatus	2	0.002307	-6.071891796	-0.01401	0.085047
Phylloscopus fuscatus	4	0.004614	-5.378744616	-0.02482	0.133476
Prinia flaviventris	4	0.004614	-5.378744616	-0.02482	0.133476
Prinia inornata	7	0.008074	-4.819128828	-0.03891	0.187506
Orthotomus sutorius	2	0.002307	-6.071891796	-0.01401	0.085047
Pterorhinus perspicillatus	3	0.00346	-5.666426688	-0.01961	0.111102

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
Zosterops simplex	5	0.005767	-5.155601064	-0.02973	0.153288
Acridotheres cristatellus	76	0.087659	-2.434305636	-0.21339	0.519451
Acridotheres tristis	6	0.00692	-4.973279508	-0.03442	0.171166
Gracupica nigricollis	76	0.087659	-2.434305636	-0.21339	0.519451
Phoenicurus auroreus	1	0.001153	-6.765038977	-0.0078	0.052786
Saxicola stejnegeri	1	0.001153	-6.765038977	-0.0078	0.052786
Lonchura punctulata	14	0.016148	-4.125981647	-0.06662	0.274893
Motacilla tschutschensis	2	0.002307	-6.071891796	-0.01401	0.085047
Motacilla alba	14	0.016148	-4.125981647	-0.06662	0.274893
Anthus hodgsoni	3	0.00346	-5.666426688	-0.01961	0.111102
Total	867	1	-264.317	-3.117	11.152
Richness	54				
SS	11.152				
SQ	9.713				
Н	3.117				
S <sup>2</sup> H	0.00169				

Appendix F.2.2 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Point Count Method) in All Habitats (15 January 2024)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
Spatula clypeata	30	0.052265	-2.95143	-0.15426	0.455276
Mareca penelope	15	0.026132	-3.64458	-0.09524	0.347116
Anas crecca	16	0.027875	-3.58004	-0.09979	0.35726
Aythya fuligula	7	0.012195	-4.40672	-0.05374	0.236819
Tachybaptus ruficollis	9	0.015679	-4.1554	-0.06515	0.270743
Platalea minor	6	0.010453	-4.56087	-0.04767	0.217438
Ardeola bacchus	44	0.076655	-2.56844	-0.19688	0.505684
Bubulcus coromandus	18	0.031359	-3.46226	-0.10857	0.375906
Ardea cinerea	9	0.015679	-4.1554	-0.06515	0.270743
Ardea purpurea	1	0.001742	-6.35263	-0.01107	0.070306
Ardea alba	21	0.036585	-3.30811	-0.12103	0.400375
Egretta garzetta	19	0.033101	-3.40819	-0.11281	0.384494
Phalacrocorax carbo	127	0.221254	-1.50844	-0.33375	0.503442
Milvus migrans	6	0.010453	-4.56087	-0.04767	0.217438
Himantopus himantopus	25	0.043554	-3.13375	-0.13649	0.427718
Recurvirostra avosetta	60	0.10453	-2.25828	-0.23606	0.533085
Tringa totanus	6	0.010453	-4.56087	-0.04767	0.217438
Tringa stagnatilis	2	0.003484	-5.65948	-0.01972	0.111602
Tringa glareola	3	0.005226	-5.25402	-0.02746	0.144275
Tringa nebularia	11	0.019164	-3.95473	-0.07579	0.29972
Chroicocephalus ridibundus	130	0.226481	-1.48509	-0.33635	0.499505
Centropus sinensis	3	0.005226	-5.25402	-0.02746	0.144275
Halcyon smyrnensis	3	0.005226	-5.25402	-0.02746	0.144275
Ceryle rudis	1	0.001742	-6.35263	-0.01107	0.070306
Corvus torquatus	2	0.003484	-5.65948	-0.01972	0.111602
Total	574	1	-101.4497697	-2.478043542	7.316841773
Richness	25	1			
SS	7.317				
SQ	6.141	1			
Н	2.478				
S <sup>2</sup> H	0.00209				

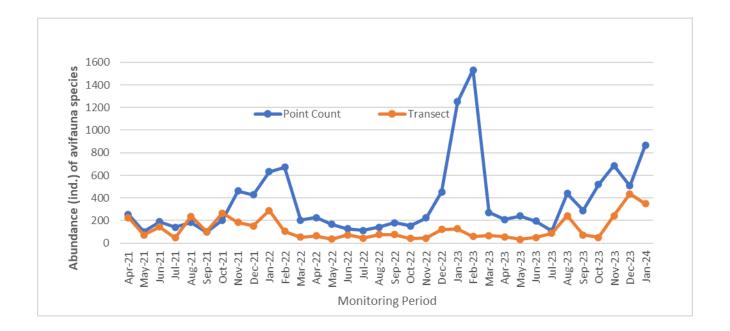
Appendix F.2.3 Ecological Bird Monitoring Diversity (All avifauna species in Transect Walk Method) in All Habitats (15 January 2024)

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
Spatula clypeata	5	0.01428571	-4.2485	-0.06069	0.25785
Anas crecca	10	0.02857143	-3.55535	-0.10158	0.36116
Tachybaptus ruficollis	3	0.00857143	-4.75932	-0.04079	0.19415
Ixobrychus sinensis	1	0.00285714	-5.85793	-0.01674	0.09804
Ardeola bacchus	8	0.02285714	-3.77849	-0.08637	0.32633
Ardea cinerea	2	0.00571429	-5.16479	-0.02951	0.15243
Ardea alba	1	0.00285714	-5.85793	-0.01674	0.09804
Egretta garzetta	3	0.00857143	-4.75932	-0.04079	0.19415
Phalacrocorax carbo	33	0.09428571	-2.36143	-0.22265	0.52577
Milvus migrans	1	0.00285714	-5.85793	-0.01674	0.09804
Amaurornis phoenicurus	1	0.00285714	-5.85793	-0.01674	0.09804
Gallinula chloropus	12	0.03428571	-3.37303	-0.11565	0.39008
Himantopus himantopus	18	0.05142857	-2.96756	-0.15262	0.4529
Recurvirostra avosetta	14	0.04	-3.21888	-0.12876	0.41445
Actitis hypoleucos	3	0.00857143	-4.75932	-0.04079	0.19415
Tringa ochropus	1	0.00285714	-5.85793	-0.01674	0.09804
Tringa totanus	6	0.01714286	-4.06617	-0.06971	0.28344
Tringa nebularia	5	0.01428571	-4.2485	-0.06069	0.25785
Chroicocephalus ridibundus	75	0.21428571	-1.54045	-0.3301	0.50849
Larus fuscus	1	0.00285714	-5.85793	-0.01674	0.09804
Streptopelia decaocto	1	0.00285714	-5.85793	-0.01674	0.09804
Spilopelia chinensis	6	0.01714286	-4.06617	-0.06971	0.28344
Centropus sinensis	1	0.00285714	-5.85793	-0.01674	0.09804
Apus nipalensis	10	0.02857143	-3.55535	-0.10158	0.36116
Alcedo atthis	2	0.00571429	-5.16479	-0.02951	0.15243
Ceryle rudis	1	0.00285714	-5.85793	-0.01674	0.09804
Lanius schach	1	0.00285714	-5.85793	-0.01674	0.09804
Cyanopica cyanus	3	0.00857143	-4.75932	-0.04079	0.19415
Corvus torquatus	1	0.00285714	-5.85793	-0.01674	0.09804
Parus cinereus	6	0.01714286	-4.06617	-0.06971	0.28344
Pycnonotus jocosus	12	0.03428571	-3.37303	-0.11565	0.39008

Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P) <sup>2</sup>
Pycnonotus sinensis	15	0.04285714	-3.14988	-0.13499	0.42522
Phylloscopus inornatus	6	0.01714286	-4.06617	-0.06971	0.28344
Phylloscopus fuscatus	4	0.01142857	-4.47164	-0.0511	0.22852
Prinia flaviventris	2	0.00571429	-5.16479	-0.02951	0.15243
Prinia inornata	2	0.00571429	-5.16479	-0.02951	0.15243
Orthotomus sutorius	1	0.00285714	-5.85793	-0.01674	0.09804
Pterorhinus perspicillatus	6	0.01714286	-4.06617	-0.06971	0.28344
Zosterops simplex	2	0.00571429	-5.16479	-0.02951	0.15243
Acridotheres cristatellus	19	0.05428571	-2.91349	-0.15816	0.4608
Acridotheres tristis	3	0.00857143	-4.75932	-0.04079	0.19415
Gracupica nigricollis	24	0.06857143	-2.67988	-0.18376	0.49246
Copsychus saularis	1	0.00285714	-5.85793	-0.01674	0.09804
Saxicola stejnegeri	1	0.00285714	-5.85793	-0.01674	0.09804
Aethopyga christinae	1	0.00285714	-5.85793	-0.01674	0.09804
Lonchura punctulata	8	0.02285714	-3.77849	-0.08637	0.32633
Motacilla tschutschensis	1	0.00285714	-5.85793	-0.01674	0.09804
Motacilla alba	5	0.01428571	-4.2485	-0.06069	0.25785
Anthus hodgsoni	1	0.00285714	-5.85793	-0.01674	0.09804
Emberiza spodocephala	1	0.00285714	-5.85793	-0.01674	0.09804
Total	350	1	-232.857	-3.153	11.352
Richness	50				
SS	11.352				
SQ	9.940				
Н	3.153				
S²H	0.00424				

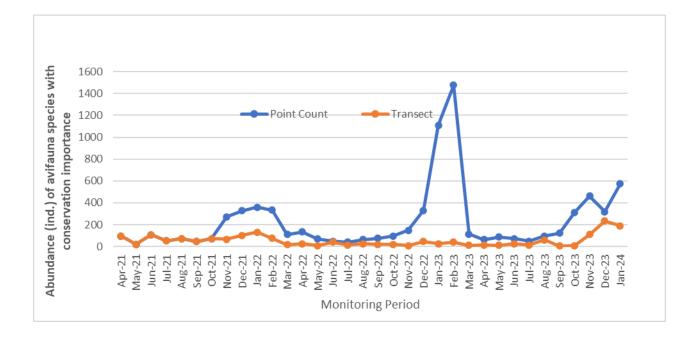
Appendix F.2.4 Ecological Bird Monitoring Diversity (Avifauna species of conservation importance in Transect Walk Method) in All Habitats (15 January 2024)

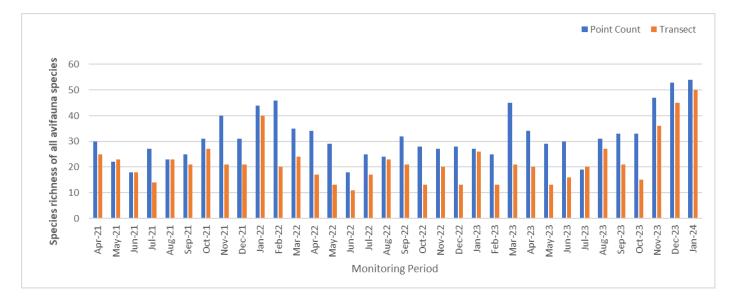
Scientific Name	Count	Р	Ln(P)	P*Ln(P)	P*Ln(P)2
Spatula clypeata	5	0.026455	-3.63231	-0.096093	0.349039
Anas crecca	10	0.05291	-2.93916	-0.155511	0.457073
Tachybaptus ruficollis	3	0.015873	-4.14313	-0.065764	0.272469
Ixobrychus sinensis	1	0.005291	-5.24175	-0.027734	0.145375
Ardeola bacchus	8	0.042328	-3.16231	-0.133854	0.423288
Ardea cinerea	2	0.010582	-4.5486	-0.048133	0.218939
Ardea alba	1	0.005291	-5.24175	-0.027734	0.145375
Egretta garzetta	3	0.015873	-4.14313	-0.065764	0.272469
Phalacrocorax carbo	33	0.174603	-1.74524	-0.304724	0.531817
Milvus migrans	1	0.005291	-5.24175	-0.027734	0.145375
Himantopus himantopus	18	0.095238	-2.35138	-0.223941	0.526568
Recurvirostra avosetta	14	0.074074	-2.60269	-0.192792	0.501777
Tringa totanus	6	0.031746	-3.44999	-0.109523	0.377854
Tringa nebularia	5	0.026455	-3.63231	-0.096093	0.349039
Chroicocephalus ridibundus	75	0.396825	-0.92426	-0.366769	0.33899
Larus fuscus	1	0.005291	-5.24175	-0.027734	0.145375
Centropus sinensis	1	0.005291	-5.24175	-0.027734	0.145375
Ceryle rudis	1	0.005291	-5.24175	-0.027734	0.145375
Corvus torquatus	1	0.005291	-5.24175	-0.027734	0.145375
Total	189	1	-73.967	-2.053	5.637
Richness	185		, 5.507	2.055	5.007
SS	5.637				
SQ	4.215				
Н	2.053				
S <sup>2</sup> H	0.00777				



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

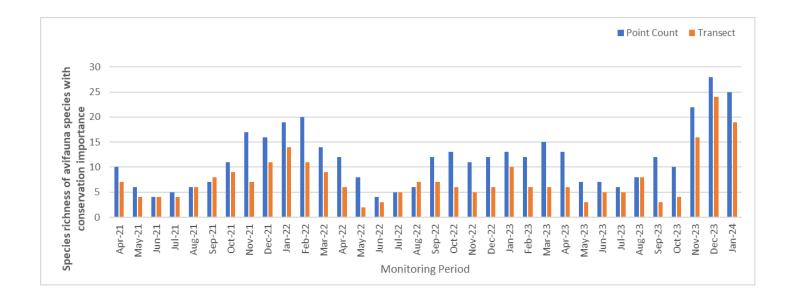
Appendix F.3.2 Abundance of avifauna species with conservation importance throughout the monitoring period

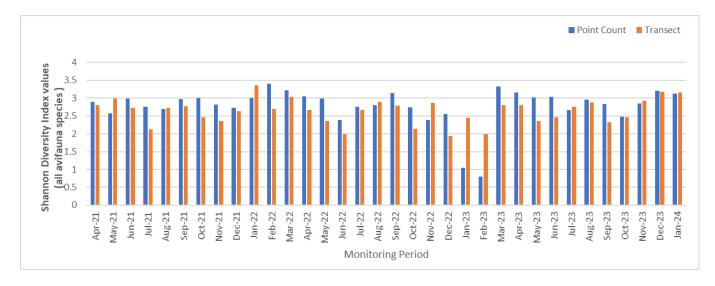




## Appendix F.4.1 Species richness of all avifauna species throughout the monitoring period

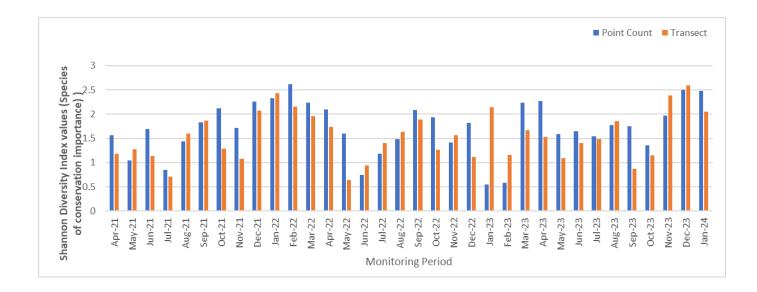
Appendix F.4.2 Species richness of avifauna species with conservation importance throughout the monitoring period





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

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



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

Formula:

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

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

Months	January 2017	January 2024		
Total	708	867		
Richness	47	54		
н	2.823	3.117		
S <sup>2</sup> H	0.00260	0.00169		
t	4.472			
df	1930.801			
Crit	1.961			
р	8.22E-06			
CI	0.102	0.0823		

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

Months	January 2017	January 2024		
Total	347	350		
Richness	50	50		
н	3.309	3.153		
S <sup>2</sup> H	0.00282	0.00424		
t	1.856			
df	2175.953			
Crit	1.961			
р	0.0636			
CI	0.106	0.130		

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

Months	January 2017	January 2024		
Total	528	574		
Richness	22	25		
Н	2.241	2.478		
S <sup>2</sup> H	0.00289	0.00209		
t	3.355			
df	1562.968			
Crit	1.961			
р	8.13E-04			
CI	0.108	0.0913		

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

Months	January 2017	January 2024		
Total	83	189		
Richness	11	19		
н	1.788	2.0531		
S²H	0.0112 0.00777			
t	1.920			
df	237.741			
Crit	1.970			
р	0.0561			
CI	0.212	0.176		

# Appendix G Wind Data

Date	Wind Speed (m/s)	Wind Direction
1/1/2024 0:00	1.4	W
1/1/2024 1:00	2.1	E
1/1/2024 2:00	0.5	E
1/1/2024 3:00	0.0	NE
1/1/2024 4:00	0.0	NW
1/1/2024 5:00	0.0	NE
1/1/2024 6:00	2.1	E
1/1/2024 7:00	2.9	NE
1/1/2024 8:00	2.2	E
1/1/2024 9:00	1.8	E
1/1/2024 10:00	1.7	W
1/1/2024 11:00	4.4	NE
1/1/2024 12:00	3.5	E
1/1/2024 13:00	2.2	NE
1/1/2024 14:00	2.7	W
1/1/2024 15:00	2.2	W
1/1/2024 16:00	1.5	SW
1/1/2024 17:00	1.6	SW
1/1/2024 18:00	1.0	NE
1/1/2024 19:00	2.2	NE
1/1/2024 20:00	1.8	S
1/1/2024 21:00	0.0	E
1/1/2024 22:00	0.0	SE
1/1/2024 23:00	2.1	SE
1/1/2024 0:00	1.8	E
2/1/2024 1:00	1.3	SE
2/1/2024 2:00	0.7	NE

Date	Wind Speed (m/s)	Wind Direction
2/1/2024 3:00	1.8	NE
2/1/2024 4:00	1.9	NE
2/1/2024 5:00	2.2	E
2/1/2024 6:00	1.5	S
2/1/2024 7:00	3.8	NE
2/1/2024 8:00	1.4	E
2/1/2024 9:00	2.8	SE
2/1/2024 10:00	0.2	NE
2/1/2024 11:00	2.3	NE
2/1/2024 12:00	2.5	NE
2/1/2024 13:00	3.0	NE
2/1/2024 14:00	3.6	NE
2/1/2024 15:00	3.7	NE
2/1/2024 16:00	0.0	SE
2/1/2024 17:00	2.0	E
2/1/2024 18:00	1.8	S
2/1/2024 19:00	0.6	NE
2/1/2024 20:00	1.3	NE
2/1/2024 21:00	1.1	E
2/1/2024 22:00	0.0	SE
2/1/2024 23:00	0.0	E
2/1/2024 0:00	1.8	E
3/1/2024 1:00	0.0	E
3/1/2024 2:00	1.0	SW
3/1/2024 3:00	0.5	Ν
3/1/2024 4:00	1.6	N
3/1/2024 5:00	0.0	E

Date	Wind Speed (m/s)	Wind Direction
3/1/2024 6:00	2.1	NE
3/1/2024 7:00	3.6	N
3/1/2024 8:00	4.6	SW
3/1/2024 9:00	4.0	NE
3/1/2024 10:00	2.8	NE
3/1/2024 11:00	1.1	N
3/1/2024 12:00	2.2	N
3/1/2024 13:00	3.7	NE
3/1/2024 14:00	6.8	NE
3/1/2024 15:00	1.9	NE
3/1/2024 16:00	1.6	N
3/1/2024 17:00	1.4	N
3/1/2024 18:00	3.5	E
3/1/2024 19:00	5.0	NE
3/1/2024 20:00	2.5	NE
3/1/2024 21:00	3.5	N
3/1/2024 22:00	3.0	E
3/1/2024 23:00	1.7	E
3/1/2024 0:00	1.5	E
4/1/2024 1:00	2.1	E
4/1/2024 2:00	2.2	E
4/1/2024 3:00	2.1	W
4/1/2024 4:00	2.2	E
4/1/2024 5:00	0.2	S
4/1/2024 6:00	1.1	NE
4/1/2024 7:00	0.8	E
4/1/2024 8:00	0.3	NE

Date	Wind Speed (m/s)	Wind Direction
4/1/2024 9:00	1.1	NE
4/1/2024 10:00	2.2	NE
4/1/2024 11:00	4.4	N
4/1/2024 12:00	4.1	N
4/1/2024 13:00	3.9	NE
4/1/2024 14:00	1.7	NE
4/1/2024 15:00	1.8	N
4/1/2024 16:00	4.0	W
4/1/2024 17:00	2.7	W
4/1/2024 18:00	0.7	SW
4/1/2024 19:00	0.0	S
4/1/2024 20:00	0.0	NW
4/1/2024 21:00	1.2	S
4/1/2024 22:00	0.9	SE
4/1/2024 23:00	0.7	W
4/1/2024 0:00	0.0	NE
5/1/2024 1:00	0.0	E
5/1/2024 2:00	0.0	W
5/1/2024 3:00	1.6	SE
5/1/2024 4:00	0.0	W
5/1/2024 5:00	0.1	NW
5/1/2024 6:00	0.1	NW
5/1/2024 7:00	0.3	SW
5/1/2024 8:00	0.9	NE
5/1/2024 9:00	2.0	E
5/1/2024 10:00	1.9	E
5/1/2024 11:00	0.9	NE

Date	Wind Speed (m/s)	Wind Direction
5/1/2024 12:00	2.1	NW
5/1/2024 13:00	3.9	N
5/1/2024 14:00	3.1	NW
5/1/2024 15:00	3.6	W
5/1/2024 16:00	1.8	NW
5/1/2024 17:00	1.6	W
5/1/2024 18:00	0.0	SW
5/1/2024 19:00	0.0	S
5/1/2024 20:00	0.0	SW
5/1/2024 21:00	1.9	SE
5/1/2024 22:00	1.1	E
5/1/2024 23:00	0.5	SE
5/1/2024 0:00	0.0	E
6/1/2024 1:00	1.4	SE
6/1/2024 2:00	0.0	E
6/1/2024 3:00	0.0	E
6/1/2024 4:00	0.0	S
6/1/2024 5:00	1.9	SE
6/1/2024 6:00	0.3	SE
6/1/2024 7:00	0.0	N
6/1/2024 8:00	0.6	NE
6/1/2024 9:00	2.2	E
6/1/2024 10:00	3.1	NE
6/1/2024 11:00	2.2	E
6/1/2024 12:00	4.5	NW
6/1/2024 13:00	3.2	W
6/1/2024 14:00	3.6	N

Date	Wind Speed (m/s)	Wind Direction
6/1/2024 15:00	2.5	SW
6/1/2024 16:00	0.0	W
6/1/2024 17:00	0.3	NE
6/1/2024 18:00	1.5	SE
6/1/2024 19:00	1.9	SE
6/1/2024 20:00	1.1	N
6/1/2024 21:00	0.0	SE
6/1/2024 22:00	0.0	N
6/1/2024 23:00	0.3	N
6/1/2024 0:00	0.0	NW
7/1/2024 1:00	0.2	NW
7/1/2024 2:00	0.1	NW
7/1/2024 3:00	0.0	NE
7/1/2024 4:00	0.1	N
7/1/2024 5:00	0.0	NE
7/1/2024 6:00	0.3	NW
7/1/2024 7:00	0.6	S
7/1/2024 8:00	1.1	S
7/1/2024 9:00	2.7	NW
7/1/2024 10:00	2.2	NE
7/1/2024 11:00	3.3	E
7/1/2024 12:00	1.9	S
7/1/2024 13:00	5.2	SE
7/1/2024 14:00	3.6	NW
7/1/2024 15:00	1.4	S
7/1/2024 16:00	3.1	E
7/1/2024 17:00	2.8	E

Date	Wind Speed (m/s)	Wind Direction
7/1/2024 18:00	2.2	E
7/1/2024 19:00	1.4	E
7/1/2024 20:00	2.2	SE
7/1/2024 21:00	1.7	SE
7/1/2024 22:00	2.5	E
7/1/2024 23:00	1.6	NE
7/1/2024 0:00	1.7	E
8/1/2024 1:00	1.9	E
8/1/2024 2:00	2.2	E
8/1/2024 3:00	2.5	E
8/1/2024 4:00	1.6	E
8/1/2024 5:00	0.3	NE
8/1/2024 6:00	0.1	Ν
8/1/2024 7:00	0.1	NW
8/1/2024 8:00	1.1	NE
8/1/2024 9:00	1.6	NE
8/1/2024 10:00	1.9	NE
8/1/2024 11:00	2.2	NE
8/1/2024 12:00	2.9	Е
8/1/2024 13:00	1.5	SW
8/1/2024 14:00	2.0	NE
8/1/2024 15:00	4.6	NW
8/1/2024 16:00	2.2	NE
8/1/2024 17:00	2.5	SE
8/1/2024 18:00	1.3	S
8/1/2024 19:00	0.9	SE
8/1/2024 20:00	1.1	E

Date	Wind Speed (m/s)	Wind Direction
8/1/2024 21:00	1.3	NE
8/1/2024 22:00	0.0	NE
8/1/2024 23:00	1.9	NE
8/1/2024 0:00	0.0	NE
9/1/2024 1:00	1.8	NE
9/1/2024 2:00	0.6	NE
9/1/2024 3:00	0.2	NW
9/1/2024 4:00	0.1	NW
9/1/2024 5:00	0.1	NW
9/1/2024 6:00	0.3	S
9/1/2024 7:00	1.4	SE
9/1/2024 8:00	1.8	SE
9/1/2024 9:00	3.0	NE
9/1/2024 10:00	1.9	NE
9/1/2024 11:00	1.8	Ν
9/1/2024 12:00	3.5	NW
9/1/2024 13:00	1.5	NE
9/1/2024 14:00	3.2	W
9/1/2024 15:00	2.1	W
9/1/2024 16:00	2.9	Ν
9/1/2024 17:00	2.0	SW
9/1/2024 18:00	1.9	SE
9/1/2024 19:00	0.0	SW
9/1/2024 20:00	1.4	E
9/1/2024 21:00	0.3	E
9/1/2024 22:00	0.9	NE
9/1/2024 23:00	1.7	SE

Date	Wind Speed (m/s)	Wind Direction
9/1/2024 0:00	0.0	S
10/1/2024 1:00	2.1	NE
10/1/2024 2:00	0.0	E
10/1/2024 3:00	1.9	SE
10/1/2024 4:00	2.5	E
10/1/2024 5:00	2.9	SW
10/1/2024 6:00	1.8	SE
10/1/2024 7:00	1.9	NE
10/1/2024 8:00	1.5	N
10/1/2024 9:00	2.2	SE
10/1/2024 10:00	3.8	NE
10/1/2024 11:00	3.8	E
10/1/2024 12:00	4.0	E
10/1/2024 13:00	3.5	NE
10/1/2024 14:00	2.4	NE
10/1/2024 15:00	4.0	NE
10/1/2024 16:00	3.6	E
10/1/2024 17:00	2.0	N
10/1/2024 18:00	2.1	Ν
10/1/2024 19:00	0.1	E
10/1/2024 20:00	2.1	SE
10/1/2024 21:00	0.0	E
10/1/2024 22:00	1.9	S
10/1/2024 23:00	0.7	S
10/1/2024 0:00	2.2	E
11/1/2024 1:00	1.6	E
11/1/2024 2:00	2.5	Ν

Date	Wind Speed (m/s)	Wind Direction
11/1/2024 3:00	3.3	NE
11/1/2024 4:00	1.8	SE
11/1/2024 5:00	0.0	SE
11/1/2024 6:00	2.2	NE
11/1/2024 7:00	0.0	E
11/1/2024 8:00	1.9	SE
11/1/2024 9:00	2.1	E
11/1/2024 10:00	1.4	E
11/1/2024 11:00	2.2	E
11/1/2024 12:00	2.4	E
11/1/2024 13:00	2.7	Ν
11/1/2024 14:00	2.1	NW
11/1/2024 15:00	3.0	SW
11/1/2024 16:00	2.2	W
11/1/2024 17:00	0.0	E
11/1/2024 18:00	2.2	E
11/1/2024 19:00	0.0	SE
11/1/2024 20:00	0.0	NE
11/1/2024 21:00	1.9	NE
11/1/2024 22:00	0.0	SE
11/1/2024 23:00	1.7	S
11/1/2024 0:00	0.0	E
12/1/2024 1:00	0.0	E
12/1/2024 2:00	1.5	SE
12/1/2024 3:00	0.0	E
12/1/2024 4:00	2.1	SE
12/1/2024 5:00	0.0	S

Date	Wind Speed (m/s)	Wind Direction
12/1/2024 6:00	1.3	E
12/1/2024 7:00	1.0	SE
12/1/2024 8:00	2.5	W
12/1/2024 9:00	2.1	E
12/1/2024 10:00	2.2	NE
12/1/2024 11:00	3.2	NE
12/1/2024 12:00	1.8	N
12/1/2024 13:00	2.2	W
12/1/2024 14:00	1.6	W
12/1/2024 15:00	1.4	SW
12/1/2024 16:00	2.5	S
12/1/2024 17:00	2.8	SE
12/1/2024 18:00	1.7	SE
12/1/2024 19:00	1.1	SE
12/1/2024 20:00	0.6	N
12/1/2024 21:00	0.0	N
12/1/2024 22:00	0.1	N
12/1/2024 23:00	0.3	N
12/1/2024 0:00	0.1	N
13/1/2024 1:00	0.0	N
13/1/2024 2:00	0.0	N
13/1/2024 3:00	0.1	N
13/1/2024 4:00	0.0	N
13/1/2024 5:00	0.0	N
13/1/2024 6:00	0.0	N
13/1/2024 7:00	0.0	Ν
13/1/2024 8:00	0.2	Ν

Date	Wind Speed (m/s)	Wind Direction
13/1/2024 9:00	1.6	E
13/1/2024 10:00	3.2	E
13/1/2024 11:00	3.6	S
13/1/2024 12:00	1.8	W
13/1/2024 13:00	1.7	S
13/1/2024 14:00	2.0	NE
13/1/2024 15:00	1.8	NE
13/1/2024 16:00	2.1	SW
13/1/2024 17:00	1.8	SE
13/1/2024 18:00	2.1	NE
13/1/2024 19:00	1.6	SE
13/1/2024 20:00	2.0	NE
13/1/2024 21:00	1.6	N
13/1/2024 22:00	2.1	NE
13/1/2024 23:00	1.4	Ν
13/1/2024 0:00	3.0	E
14/1/2024 1:00	0.0	NW
14/1/2024 2:00	0.0	SE
14/1/2024 3:00	1.5	NW
14/1/2024 4:00	0.0	NE
14/1/2024 5:00	1.9	E
14/1/2024 6:00	2.8	E
14/1/2024 7:00	1.9	E
14/1/2024 8:00	2.1	SE
14/1/2024 9:00	1.9	NE
14/1/2024 10:00	1.2	NE
14/1/2024 11:00	1.9	E

Date	Wind Speed (m/s)	Wind Direction
14/1/2024 12:00	3.7	N
14/1/2024 13:00	3.6	E
14/1/2024 14:00	2.0	NE
14/1/2024 15:00	2.1	SW
14/1/2024 16:00	2.3	NE
14/1/2024 17:00	0.5	NW
14/1/2024 18:00	0.0	N
14/1/2024 19:00	0.0	NW
14/1/2024 20:00	0.0	NW
14/1/2024 21:00	0.0	NE
14/1/2024 22:00	0.0	SE
14/1/2024 23:00	0.0	SE
14/1/2024 0:00	0.0	SE
15/1/2024 1:00	1.5	SE
15/1/2024 2:00	1.8	S
15/1/2024 3:00	0.0	S
15/1/2024 4:00	0.0	S
15/1/2024 5:00	0.8	S
15/1/2024 6:00	0.0	S
15/1/2024 7:00	0.0	E
15/1/2024 8:00	0.0	N
15/1/2024 9:00	3.5	N
15/1/2024 10:00	1.4	NE
15/1/2024 11:00	2.0	E
15/1/2024 12:00	1.8	NE
15/1/2024 13:00	2.1	NE
15/1/2024 14:00	2.1	E

Date	Wind Speed (m/s)	Wind Direction
15/1/2024 15:00	3.0	SE
15/1/2024 16:00	1.3	SE
15/1/2024 17:00	3.2	S
15/1/2024 18:00	6.1	S
15/1/2024 19:00	0.0	W
15/1/2024 20:00	2.0	SE
15/1/2024 21:00	2.1	NE
15/1/2024 22:00	0.0	NE
15/1/2024 23:00	1.8	SE
15/1/2024 0:00	2.0	SE
16/1/2024 1:00	1.9	NE
16/1/2024 2:00	3.1	E
16/1/2024 3:00	3.1	NE
16/1/2024 4:00	1.7	E
16/1/2024 5:00	2.0	NE
16/1/2024 6:00	3.6	SE
16/1/2024 7:00	2.1	NE
16/1/2024 8:00	2.0	NE
16/1/2024 9:00	4.4	E
16/1/2024 10:00	2.0	N
16/1/2024 11:00	2.2	NE
16/1/2024 12:00	3.4	NE
16/1/2024 13:00	1.6	SE
16/1/2024 14:00	1.5	E
16/1/2024 15:00	1.3	S
16/1/2024 16:00	2.4	W
16/1/2024 17:00	3.6	W

Date	Wind Speed (m/s)	Wind Direction
16/1/2024 18:00	0.0	NW
16/1/2024 19:00	1.5	S
16/1/2024 20:00	1.8	S
16/1/2024 21:00	1.5	NE
16/1/2024 22:00	1.8	E
16/1/2024 23:00	2.2	NE
16/1/2024 0:00	2.1	E
17/1/2024 1:00	2.2	E
17/1/2024 2:00	3.2	S
17/1/2024 3:00	1.3	E
17/1/2024 4:00	1.7	NW
17/1/2024 5:00	0.5	E
17/1/2024 6:00	3.9	Ν
17/1/2024 7:00	1.4	SE
17/1/2024 8:00	1.6	SW
17/1/2024 9:00	2.0	NW
17/1/2024 10:00	2.1	E
17/1/2024 11:00	2.1	E
17/1/2024 12:00	2.6	SE
17/1/2024 13:00	2.8	E
17/1/2024 14:00	2.2	Ν
17/1/2024 15:00	2.1	NE
17/1/2024 16:00	5.1	NE
17/1/2024 17:00	1.9	E
17/1/2024 18:00	2.2	NE
17/1/2024 19:00	1.0	NE
17/1/2024 20:00	1.7	SE

Date	Wind Speed (m/s)	Wind Direction
17/1/2024 21:00	3.8	NE
17/1/2024 22:00	3.1	NE
17/1/2024 23:00	0.0	NE
17/1/2024 0:00	1.6	NW
18/1/2024 1:00	1.3	NW
18/1/2024 2:00	0.0	E
18/1/2024 3:00	0.0	NW
18/1/2024 4:00	1.8	E
18/1/2024 5:00	0.3	NW
18/1/2024 6:00	0.0	NE
18/1/2024 7:00	1.5	E
18/1/2024 8:00	0.0	E
18/1/2024 9:00	2.8	SE
18/1/2024 10:00	4.9	NE
18/1/2024 11:00	2.0	E
18/1/2024 12:00	0.1	S
18/1/2024 13:00	0.0	S
18/1/2024 14:00	2.1	W
18/1/2024 15:00	0.0	E
18/1/2024 16:00	2.6	S
18/1/2024 17:00	2.1	W
18/1/2024 18:00	1.8	E
18/1/2024 19:00	1.0	E
18/1/2024 20:00	0.0	NE
18/1/2024 21:00	0.0	N
18/1/2024 22:00	0.3	NE
18/1/2024 23:00	0.0	S

Date	Wind Speed (m/s)	Wind Direction
18/1/2024 0:00	1.6	NE
19/1/2024 1:00	0.0	SW
19/1/2024 2:00	0.0	E
19/1/2024 3:00	0.0	S
19/1/2024 4:00	1.3	S
19/1/2024 5:00	0.0	S
19/1/2024 6:00	0.8	SW
19/1/2024 7:00	0.0	SW
19/1/2024 8:00	0.0	NE
19/1/2024 9:00	1.3	NE
19/1/2024 10:00	2.2	E
19/1/2024 11:00	3.9	NE
19/1/2024 12:00	0.8	SE
19/1/2024 13:00	3.6	E
19/1/2024 14:00	4.0	E
19/1/2024 15:00	2.5	N
19/1/2024 16:00	2.1	NW
19/1/2024 17:00	0.0	N
19/1/2024 18:00	1.5	SW
19/1/2024 19:00	0.4	NE
19/1/2024 20:00	1.5	NE
19/1/2024 21:00	1.9	E
19/1/2024 22:00	1.6	E
19/1/2024 23:00	1.1	NE
19/1/2024 0:00	1.0	S
20/1/2024 1:00	0.0	NE
20/1/2024 2:00	0.0	NE

Date	Wind Speed (m/s)	Wind Direction
20/1/2024 3:00	0.0	NE
20/1/2024 4:00	0.0	E
20/1/2024 5:00	0.6	S
20/1/2024 6:00	0.0	NE
20/1/2024 7:00	1.4	S
20/1/2024 8:00	0.7	S
20/1/2024 9:00	2.1	E
20/1/2024 10:00	2.2	SE
20/1/2024 11:00	4.0	W
20/1/2024 12:00	3.4	NW
20/1/2024 13:00	2.5	NE
20/1/2024 14:00	3.1	SW
20/1/2024 15:00	1.8	W
20/1/2024 16:00	3.3	N
20/1/2024 17:00	2.5	NW
20/1/2024 18:00	3.7	NE
20/1/2024 19:00	1.1	N
20/1/2024 20:00	2.3	N
20/1/2024 21:00	4.0	NW
20/1/2024 22:00	2.2	NW
20/1/2024 23:00	2.7	Ν
20/1/2024 0:00	4.4	NW
21/1/2024 1:00	0.9	E
21/1/2024 2:00	1.7	E
21/1/2024 3:00	2.0	E
21/1/2024 4:00	3.3	NE
21/1/2024 5:00	1.1	Ν

Date	Wind Speed (m/s)	Wind Direction
21/1/2024 6:00	3.1	SE
21/1/2024 7:00	2.0	NE
21/1/2024 8:00	3.1	NE
21/1/2024 9:00	5.3	E
21/1/2024 10:00	3.6	N
21/1/2024 11:00	2.1	NE
21/1/2024 12:00	4.4	NE
21/1/2024 13:00	3.8	E
21/1/2024 14:00	4.7	E
21/1/2024 15:00	3.2	Ν
21/1/2024 16:00	3.7	N
21/1/2024 17:00	2.1	E
21/1/2024 18:00	0.0	E
21/1/2024 19:00	1.8	S
21/1/2024 20:00	1.7	SE
21/1/2024 21:00	1.9	E
21/1/2024 22:00	3.5	NE
21/1/2024 23:00	1.2	E
21/1/2024 0:00	4.0	NE
22/1/2024 1:00	2.4	SE
22/1/2024 2:00	2.7	E
22/1/2024 3:00	2.0	NE
22/1/2024 4:00	2.3	NE
22/1/2024 5:00	3.5	E
22/1/2024 6:00	1.6	Ν
22/1/2024 7:00	2.2	Ν
22/1/2024 8:00	4.1	E

Date	Wind Speed (m/s)	Wind Direction
22/1/2024 9:00	2.5	N
22/1/2024 10:00	5.0	NE
22/1/2024 11:00	4.7	E
22/1/2024 12:00	2.4	E
22/1/2024 13:00	4.1	SE
22/1/2024 14:00	2.8	NE
22/1/2024 15:00	6.5	N
22/1/2024 16:00	1.9	W
22/1/2024 17:00	8.7	N
22/1/2024 18:00	3.0	N
22/1/2024 19:00	4.2	Ν
22/1/2024 20:00	3.4	NW
22/1/2024 21:00	5.8	E
22/1/2024 22:00	5.5	E
22/1/2024 23:00	8.0	NE
22/1/2024 0:00	5.1	E
23/1/2024 1:00	3.1	SE
23/1/2024 2:00	1.9	NE
23/1/2024 3:00	2.4	E
23/1/2024 4:00	3.1	E
23/1/2024 5:00	3.7	NE
23/1/2024 6:00	3.6	NE
23/1/2024 7:00	4.1	NE
23/1/2024 8:00	4.9	E
23/1/2024 9:00	3.9	E
23/1/2024 10:00	5.0	NE
23/1/2024 11:00	5.3	NE

Date	Wind Speed (m/s)	Wind Direction
23/1/2024 12:00	2.2	E
23/1/2024 13:00	3.8	NE
23/1/2024 14:00	4.2	E
23/1/2024 15:00	2.1	E
23/1/2024 16:00	4.2	E
23/1/2024 17:00	2.2	NE
23/1/2024 18:00	2.2	E
23/1/2024 19:00	4.4	NE
23/1/2024 20:00	3.8	NW
23/1/2024 21:00	4.3	E
23/1/2024 22:00	3.5	NE
23/1/2024 23:00	5.2	NE
23/1/2024 0:00	4.5	NE
24/1/2024 1:00	2.5	NE
24/1/2024 2:00	5.2	NE
24/1/2024 3:00	4.9	E
24/1/2024 4:00	3.8	E
24/1/2024 5:00	1.8	NW
24/1/2024 6:00	4.0	E
24/1/2024 7:00	2.1	N
24/1/2024 8:00	4.5	N
24/1/2024 9:00	4.9	E
24/1/2024 10:00	3.7	NE
24/1/2024 11:00	1.3	S
24/1/2024 12:00	3.5	E
24/1/2024 13:00	2.8	NE
24/1/2024 14:00	1.7	Ν

Date	Wind Speed (m/s)	Wind Direction
24/1/2024 15:00	3.1	N
24/1/2024 16:00	4.6	NE
24/1/2024 17:00	2.2	NE
24/1/2024 18:00	2.3	E
24/1/2024 19:00	3.0	NE
24/1/2024 20:00	1.6	NE
24/1/2024 21:00	1.8	SE
24/1/2024 22:00	0.0	SE
24/1/2024 23:00	2.9	NE
24/1/2024 0:00	3.5	N
25/1/2024 1:00	3.0	NE
25/1/2024 2:00	3.1	N
25/1/2024 3:00	2.2	E
25/1/2024 4:00	3.1	NE
25/1/2024 5:00	4.0	NE
25/1/2024 6:00	3.8	E
25/1/2024 7:00	4.4	NE
25/1/2024 8:00	3.0	NE
25/1/2024 9:00	3.2	E
25/1/2024 10:00	3.9	E
25/1/2024 11:00	2.8	NE
25/1/2024 12:00	1.6	E
25/1/2024 13:00	2.4	N
25/1/2024 14:00	2.9	NW
25/1/2024 15:00	2.1	N
25/1/2024 16:00	2.7	NW
25/1/2024 17:00	2.7	NW

Date	Wind Speed (m/s)	Wind Direction
25/1/2024 18:00	2.7	NW
25/1/2024 19:00	2.8	N
25/1/2024 20:00	1.9	N
25/1/2024 21:00	3.3	N
25/1/2024 22:00	1.7	E
25/1/2024 23:00	2.1	SE
26/1/2024 0:00	1.0	NE
26/1/2024 1:00	0.0	E
26/1/2024 2:00	0.3	E
26/1/2024 3:00	1.5	E
26/1/2024 4:00	1.5	N
26/1/2024 5:00	1.1	E
26/1/2024 6:00	3.0	NE
26/1/2024 7:00	3.1	SE
26/1/2024 8:00	2.0	E
26/1/2024 9:00	2.5	NE
26/1/2024 10:00	2.1	N
26/1/2024 11:00	3.6	E
26/1/2024 12:00	3.4	NE
26/1/2024 13:00	4.0	NE
26/1/2024 14:00	2.2	N
26/1/2024 15:00	2.7	E
26/1/2024 16:00	2.5	N
26/1/2024 17:00	3.8	N
26/1/2024 18:00	4.0	NW
26/1/2024 19:00	1.5	N
26/1/2024 20:00	1.7	E

Date	Wind Speed (m/s)	Wind Direction
26/1/2024 21:00	2.2	NE
26/1/2024 22:00	1.6	NE
26/1/2024 23:00	2.1	Ν
27/1/2024 0:00	1.6	NE
27/1/2024 1:00	1.3	NE
27/1/2024 2:00	1.8	E
27/1/2024 3:00	2.1	E
27/1/2024 4:00	0.0	NE
27/1/2024 5:00	1.9	N
27/1/2024 6:00	0.0	E
27/1/2024 7:00	0.0	E
27/1/2024 8:00	2.1	NE
27/1/2024 9:00	2.4	E
27/1/2024 10:00	2.1	NE
27/1/2024 11:00	2.4	NE
27/1/2024 12:00	2.0	SE
27/1/2024 13:00	2.4	NW
27/1/2024 14:00	3.3	E
27/1/2024 15:00	2.1	NW
27/1/2024 16:00	1.7	S
27/1/2024 17:00	3.8	NE
27/1/2024 18:00	2.2	E
27/1/2024 19:00	3.5	NE
27/1/2024 20:00	2.7	NE
27/1/2024 21:00	3.1	NE
27/1/2024 22:00	1.9	NE
27/1/2024 23:00	2.0	N

Date	Wind Speed (m/s)	Wind Direction
28/1/2024 0:00	3.8	NE
28/1/2024 1:00	4.2	NE
28/1/2024 2:00	4.0	NW
28/1/2024 3:00	3.1	NE
28/1/2024 4:00	2.8	E
28/1/2024 5:00	1.3	S
28/1/2024 6:00	0.2	NE
28/1/2024 7:00	2.0	NE
28/1/2024 8:00	1.9	NE
28/1/2024 9:00	2.0	NE
28/1/2024 10:00	2.0	N
28/1/2024 11:00	2.0	E
28/1/2024 12:00	2.1	NW
28/1/2024 13:00	2.3	E
28/1/2024 14:00	1.7	SE
28/1/2024 15:00	2.2	E
28/1/2024 16:00	1.9	NE
28/1/2024 17:00	3.4	NW
28/1/2024 18:00	3.6	E
28/1/2024 19:00	2.1	E
28/1/2024 20:00	1.1	E
28/1/2024 21:00	0.7	E
28/1/2024 22:00	0.0	E
28/1/2024 23:00	0.0	Ν
29/1/2024 0:00	0.0	S
29/1/2024 1:00	1.4	E
29/1/2024 2:00	1.4	SE

Date	Wind Speed (m/s)	Wind Direction
29/1/2024 3:00	1.1	NE
29/1/2024 4:00	1.7	S
29/1/2024 5:00	2.0	NE
29/1/2024 6:00	2.0	NE
29/1/2024 7:00	2.6	NE
29/1/2024 8:00	1.8	S
29/1/2024 9:00	1.2	NE
29/1/2024 10:00	2.1	Ν
29/1/2024 11:00	0.0	NE
29/1/2024 12:00	2.3	NE
29/1/2024 13:00	2.8	NE
29/1/2024 14:00	1.8	NW
29/1/2024 15:00	0.0	E
29/1/2024 16:00	0.0	SE
29/1/2024 17:00	1.8	E
29/1/2024 18:00	3.5	E
29/1/2024 19:00	0.0	NE
29/1/2024 20:00	1.0	NE
29/1/2024 21:00	2.2	N
29/1/2024 22:00	0.0	SE
29/1/2024 23:00	1.4	N
30/1/2024 0:00	0.0	N
30/1/2024 1:00	0.3	N
30/1/2024 2:00	2.2	NE
30/1/2024 3:00	2.0	N
30/1/2024 4:00	0.8	NE
30/1/2024 5:00	1.7	NW

Date	Wind Speed (m/s)	Wind Direction
30/1/2024 6:00	0.8	E
30/1/2024 7:00	0.9	E
30/1/2024 8:00	1.5	N
30/1/2024 9:00	2.2	NW
30/1/2024 10:00	1.0	NW
30/1/2024 11:00	3.2	NE
30/1/2024 12:00	1.5	S
30/1/2024 13:00	2.2	E
30/1/2024 14:00	0.0	SW
30/1/2024 15:00	2.8	NW
30/1/2024 16:00	1.9	NW
30/1/2024 17:00	1.1	W
30/1/2024 18:00	1.9	NE
30/1/2024 19:00	1.0	E
30/1/2024 20:00	0.0	E
30/1/2024 21:00	0.0	NW
30/1/2024 22:00	1.7	N
30/1/2024 23:00	2.1	E
31/1/2024 0:00	0.3	NE
31/1/2024 1:00	0.1	E
31/1/2024 2:00	0.1	E
31/1/2024 3:00	0.3	E
31/1/2024 4:00	0.1	NE
31/1/2024 5:00	0.2	NW
31/1/2024 6:00	0.0	NE
31/1/2024 7:00	0.1	NE
31/1/2024 8:00	0.9	NE

Date	Wind Speed (m/s)	Wind Direction
31/1/2024 9:00	1.4	NE
31/1/2024 10:00	1.1	NE
31/1/2024 11:00	1.2	NE
31/1/2024 12:00	1.7	NE
31/1/2024 13:00	0.7	E
31/1/2024 14:00	2.0	SE
31/1/2024 15:00	4.0	NE
31/1/2024 16:00	2.0	SW
31/1/2024 17:00	3.9	E
31/1/2024 18:00	1.2	S
31/1/2024 19:00	0.0	E
31/1/2024 20:00	1.8	E
31/1/2024 21:00	0.2	E
31/1/2024 22:00	0.0	E
31/1/2024 23:00	0.8	NE
1/2/2024 0:00	0.0	NW

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

### Event and Action Plan for Noise (Construction)

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

### Event and Action Plan for Water Quality Monitoring

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

### Event and Action Plan for Ecology Monitoring

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

Appendix I Waste Flow Table

		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	7298.54	Nil	Nil	Nil	7249.61	Nil	Nil	0.17	Nil	Nil	48.76
Total	7298.54	Nil	Nil	Nil	7249.61	Nil	Nil	0.17	Nil	Nil	48.76

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 21st January 2024.

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	e carried out to further minimize cons	struction dust impact:
	• 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.	Construction Sites	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.		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
	<ul> <li>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.</li> </ul>		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;		Implemented
	• Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and	Construction Sites	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 ended	nforced to minimise the potential ac	verse impacts:
	Remove waste in timely manner;		Implemented
	Waste collectors should only collect wastes prescribed by their permits;		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);	Construction Sites	Implemented
	Waste should be disposed of at licensed waste disposal facilities; and		Implemented
	Maintain records of quantities of waste generated, recycled and disposed.		Implemented
	Transportation of Waste		
6.6.1.10	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
	Construction and Demolition Material		
6.6.1.12	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) f stockpiles on-site should be taken in order to minimise the noise, generation of dust and pollution of water. These measures include:	or the sorted materials. Control mea	asures for temporary
6.6.1.14	Surface of stockpiled soil should be regularly wetted with water especially during dry season;		Implemented
	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 Sites	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
7.8.3.1	• 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	<ul> <li><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.</li> <li>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.</li> </ul>	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-	• For those construction works to be carried out in close proximity to the 15m zone from digesters / gas holders in operation, the height of plants for those major construction shall be limited to 15m such that the plants would not damage digesters /gas holders in such incident as plant collapse or overturning;	Project site / Construction Phase	N/A
11.5.6.12	• 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	1 11450	N/A
	Physical barriers such as concrete blocks shall be set up at the 15m zone in order to avoid those construction plants or vehicles from colliding to the digester / gas holder units in use.		N/A

EIA Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Status
11.5.8	Method statements and risk assessments shall be prepared and safety control measures shall be in place before commencement of work		Implemented
	• All work procedures shall be complied with the operating plant procedures or guidelines and regulatory requirements;		Implemented
	Work permit system, on-site pre-work risk assessment and emergency response procedure shall be in place before commencement of work;	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;	Deviced vite / Occurrenting	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

# **December 2023 Weather**

#### **Station: Wetland Park**

	Mean		Air Temperatur	e	Mean	Total
Date	Pressure	Maximum	Mean	Minimum	Relative Humidity	Rainfall
Date	(hPa)	(deg. C)	(deg. C)	(deg. C)	(%)	(mm)
			December 2023			
1	1021.9	25.1	21.9	19.5	67	0
2	1021.9	25.2	20.5	17.6	67	0
3	1020.4	28.2	22.8	20.6	71	0
4	1017.2	27.5	23.1	21.1	71	0
5	1015.6	27.7	22.4	18.6	75	0
6	1017.9	25	21.5	18.7	76	0
7	1018	29.4	20.1	14.4	62	0
8	1016.5	29.2	20.9	14.6	73	0
9	1014.3	30.1	24.2	20.3	83	0
10	1013.4	32	25.5	21.2	81	0
11	1014.4	31.2	25.7	22.7	86	0
12	1016.3	31.6	25.6	21.5	81	0
13	1019.1	25.8	23.9	22.7	84	0
14	1018.4	28.6	24.9	22.2	83	0
15	1015.9	32.8	26	22.3	84	0
16	1021.5	24.4	18.9	12.5	73	1.5
17	1025.7	14.9	12.9	10.9	69	0
18	1022.6	18.7	16.3	12.5	75	0
19	1022.3	18.6#	15.9	13.0#	79	0
20	1024.5	19.2#	13.7	9.4#	66	0
21	1028.1	13.8	11.3	9.1	64	0
22	1030.9	13.2	11	8.6	45	0
23	1030.7	15.3	11.5	9.5	53	0
24	1029.4	20.6	13.3	8.5	52	0
25	1027	22.8	14.3	10.2	52	0
26	1025.2	24.9	16.3	9.6	65	0
27	1024	25.3	18.8	14.3	72	0
28	1022.2	29.8	20.7	16.8	77	0
29	1020.9	26.1	20.2	16.1	84	0
30	1018.3	25.7	20.9	16	84	0

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

## January 2024 Weather

#### Station: Hong Kong Observatory

			Air Temperature		Mean Relative	Total Dainfal
Date	Mean Pressure (hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	Humidity (%)	Total Rainfal (mm)
			January 2024			
1	1019.9	22	19.9	18.8	75	0
2	1019.1	20.5	18.7	17.8	76	0
3	1020	21.6	18.8	15.7	64	0
4	1020.9	19.6	17	15.4	67	0
5	1020.2	22	18.8	16.6	75	0
6	1020.1	23.8	20.2	17.8	76	0
7	1021	21.8	19.9	18.6	71	0
8	1019.6	20.6	19.1	17.7	73	Trace
9	1017.2	23.9	20.5	18.1	77	Trace
10	1018.6	23.2	20.3	17.9	67	0
11	1020	21.5	18.9	17.6	69	Trace
12	1019.1	21.8	18.9	17.1	75	0
13	1019.9	22	19.6	17.8	57	0
14	1021.1	23.8	20.7	18.5	56	0
15	1021.2	24.8	20.9	18.8	71	0
16	1022.1	20.5	18.7	17.5	75	0
17	1020.4	20.6	19.2	17.7	72	0.1
18	1017.7	24.2	21.2	19.1	74	0
19	1016.3	24.2	21.1	19.2	76	0
20	1016.3	24.6	21.4	19.5	75	0
21	1020.3	21.3	19.1	16.3	68	Trace
22	1023.3	18.5	15	9.8	72	0.5
23	1028.5	10.4	7.9	6.3	75	2.7
24	1029.2	12.5	9.2	6.5	59	0
25	1028.7	15.5	12.3	9.5	56	0
26	1027.3	17.8	15	13.1	61	0
27	1025.8	18.8	15.5	13.1	67	1
28	1026.4	15.7	13.7	11.7	83	2.4
29	1023.4	17.8	15.9	14.3	82	Trace
30	1020.7	20.2	18.3	16.8	88	Trace
31	1019.4	20.2	19.3	17.9	92	Trace

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	NA		
Chemical and Waste Management		NA	
Land Contamination		NA	
Ecological Impact		NA	
Landscape and Visual Impact	NA		
Permit / Licenses	NA		
Others	NA		

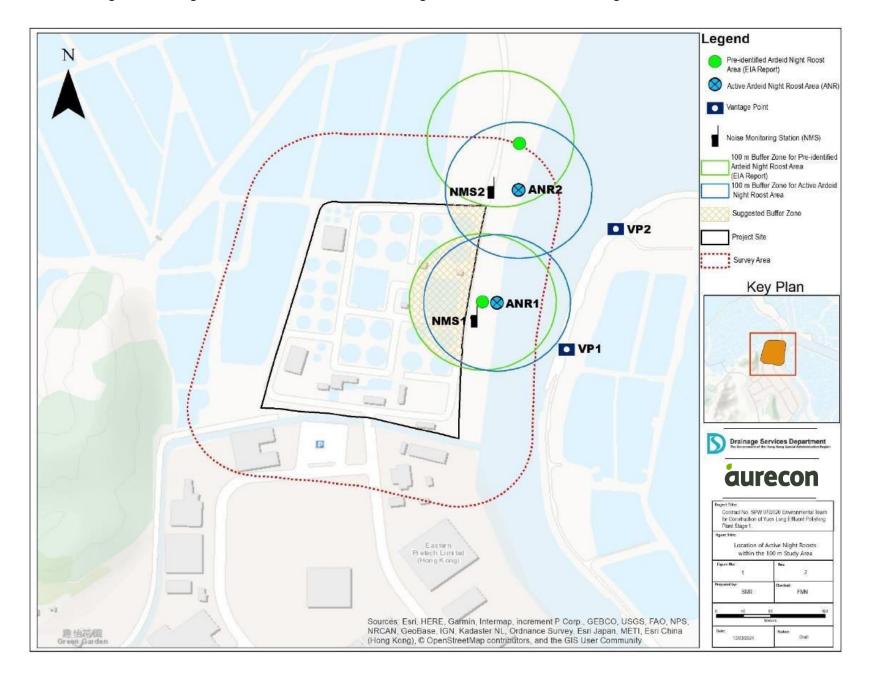
#### Summary of ET Leader's Site Environmental Audit in the Reporting Month

# Appendix N Outstanding Issues and Deficiencies

Parameters	Outstanding Issues	Deficiencies
Air Quality	NA	
Noise	NA	Any items of deficiencies can be referred to <b>Appendix M</b> .
Water Quality	NA	
Chemical and Waste Management	NA	
Land Contamination	NA	
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



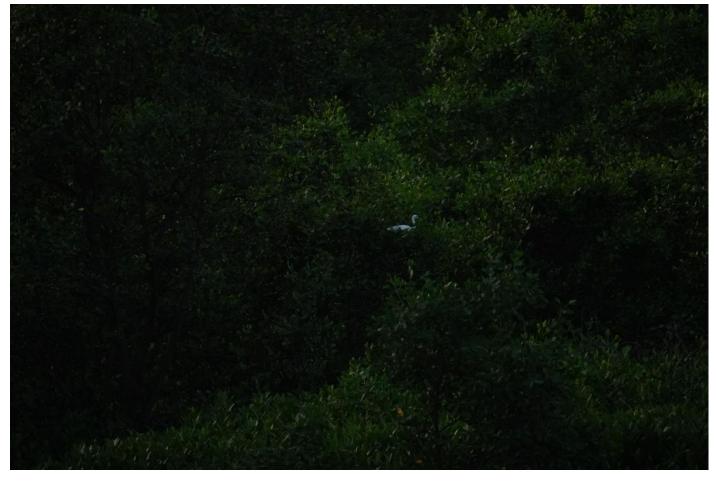
0.1 Map of the Monitoring Area, Vantage Points for Observation of Active Night Roosts and Noise Monitoring Stations

### O.2 Survey Photos

## O.2.1 Pre-roosting Aggregate

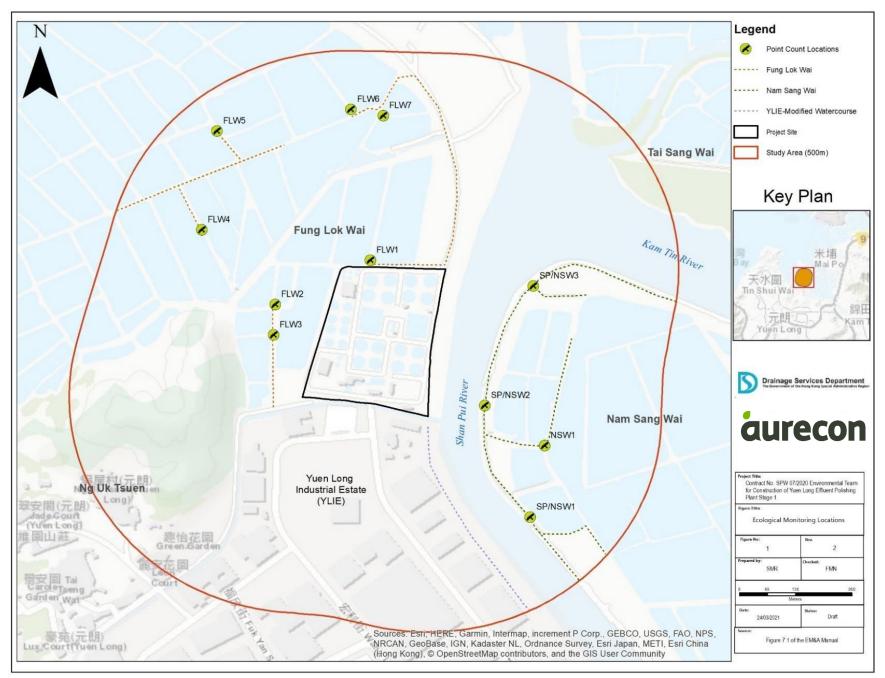


Appendix O.2.1a: Pre-roost aggregate of Little Egret Chinese Pond Heron *Egretta garzetta* in the mudflat area east of the Project boundary observed on 17 October 2023 around 18:12



Appendix O.2.2a: Active night roost on *Sonneratia apetala* and *S. caseolaris* mangrove roosting substrate located northeast of the Project boundary observed on 17 October 2023 around 18:30.

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

#### Prepared by:

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