Quarterly Environmental Monitoring & Audit Summary Report – December 2023 to February 2024

0039/23/ED/0238 00

Contract No. CPW 01/2023 Environmental Team for Relocation of Sha Tin Sewage Treatment Works to Caverns

ANEWR

Drainage Services Department
Cavern Projects Division
44/F., Revenue Tower
5 Gloucester Road
Wanchai
Hong Kong

Your reference:

Our reference: HKDSD209/50/109570

Date: 15 March 2024

Attention: Mr Felix Yu

BY EMAIL & POST
(email: csyu03@dsd.gov.hk)

Dear Sirs

Contract No. CPW 02/2023
Independent Environmental Checker Services for
Relocation of Sha Tin Sewage Treatment Works to Caverns
Verification of Quarterly EM&A Report (December 2023 – February 2024)

We refer to the email of 12 March 2024 attaching a Quarterly EM&A Report (December 2023 – February 2024) for the captioned project prepared by the ET.

I have no further comment and hereby verify the captioned report in accordance with Clause 3.5 of the Environmental Permit no. EP-533/2017/A.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned on 2618 2831.

Yours faithfully
ANEWR CONSULTING LIMITED

Louis Kwan
Independent Environmental Checker

KSYL/lsmt

ANewR Consulting Limited
Unit 1813, 1815-16, 18/F, Tower A, Regent Centre
63 Wo Yi Hop Road, Kwai Chung, Hong Kong
Tel: (852) 2618 2831 Fax: (852) 3007 8648
Email: info@anewr.com
Web: www.anewr.com

ISO 9001 : 2015
Certificate No.: CC 3988

Document Control

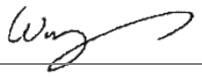
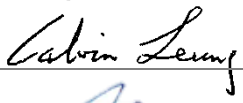
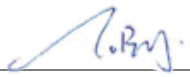
Document Information

Project Title	Contract No. CPW 01/2023 for Relocation of Sha Tin Sewage Treatment Works to Caverns
Document Title	Quarterly Environmental Monitoring & Audit Summary Report – December 2023 to February 2024
Fugro Project No.	0039/23
Fugro Document No.	0039/23/ED/0238
Issue Number	00

Client Information

Client	Drainage Services Department
Client Address	44/F, Revenue Tower, 5 Gloucester Road, Wan Chai, Hong Kong
Client Contact	Mr Felix C S Yu

Project Team

Initials	Name	Role	Signature
WS	Wingo So	Environmental Team Leader	
CL	Calvin Leung	Deputy Environmental Team Leader	
TW	Toby Wan	Deputy Environmental Team Leader	

Contents

EXECUTIVE SUMMARY		**3**
1.	**Introduction**	**6**
1.1	Scope of the Report	6
1.2	Structure of the Report	6
2.	**Project Background**	**7**
2.1	Background	7
2.2	Scope of the Project and Site Description	7
2.3	Project Organization and Contact Personnel	8
2.4	Construction Activities	9
3.	**Monitoring Requirements**	**11**
3.1	Air Monitoring	11
3.2	Noise Monitoring	12
3.3	APS Performance Test	13
3.4	Marine Water Quality Monitoring	14
4.	**Monitoring Results**	**17**
4.1	Air Monitoring Results	17
4.2	Noise Monitoring Results	17
4.3	APS Performance Test Results	17
4.4	Water Quality Monitoring Results	18
4.5	Waste Management	18
5.	**Land Contamination**	**21**
6.	**Compliance Audit**	**21**
6.1	Air Monitoring	21
6.2	Noise Monitoring	21
6.3	Marine Water Quality Monitoring	21
6.4	Review of the Reasons for and the Implications of Non-compliance	22
6.5	Summary of action taken in the event of and follow-up on non-compliance	22
7.	**Complaints, Notification of Summons and Prosecution**	**23**
8.	**Conclusion**	**24**

Figures

Figure 2.1 Project Layout
Figure 2.2 Project Organization Chart
Figure 3.1 – 3.4 Locations of Environmental Monitoring Station

Appendices

Appendix 2.1 Environmental Mitigation Implementation Schedule
Appendix 4.1 Action and Limit Level
Appendix 4.2 Air Quality Monitoring Results and Graphical Presentations
Appendix 4.3 Noise Monitoring Results and Graphical Presentations
Appendix 4.4 APS Performance Test Result
Appendix 4.5 Water Quality Monitoring Results and Graphical Presentations
Appendix 4.6 Monthly Summary Waste Flow Table
Appendix 6.1 Event and Action Plans
Appendix 6.2 Summary for Notification of Exceedance
Appendix 7.1 Complaint Log
Appendix 8.1 Construction Programme of Individual Contracts

EXECUTIVE SUMMARY

i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Summary Report – December 2023 to February 2024 for Relocation of Sha Tin Sewage Treatment Works to Caverns under Environmental Permit No. EP-533/2017/A (Hereafter as "the Project"). The report presents the environmental monitoring findings and information recorded during the period of 1 December 2023 to 29 February 2024.

ii. In the reporting month, the principal work activities of individual contracts are included as follow:

Contract no. DC/2020/05 –
Relocation of Sha Tin Sewage Treatment Works to Caverns – Main Caverns Construction
(The contract was commenced on 5 July 2021)

December 2023

- Slope stabilization works
- Tunneling works
- Retaining wall construction
- Operation of rock crushing plant
- TBM Tunneling and Pipe Jacking
- Preservation and protection of existing trees
- Ventilation shaft excavation

January 2024

- Slope stabilization works
- Tunneling works
- Retaining wall construction
- Operation of rock crushing plant
- TBM Tunneling and Pipe Jacking
- Preservation and protection of existing trees
- Ventilation shaft excavation

February 2024

- Slope stabilization works
- Tunneling works
- Retaining wall construction
- Operation of rock crushing plant
- TBM Tunneling and Pipe Jacking
- Preservation and protection of existing trees
- Ventilation shaft excavation

Contract no. DC/2023/12 –
Relocation of Sha Tin Sewage Treatment Works to Caverns –
Ancillary Buildings, Cavern Ventilation System and Associated Works
(The contract was commenced on 1 August 2023)

December 2023

- Pre-construction condition survey for Emergency Bypass
- Trial pits at Emergency Bypass – Site Clearance

January 2024

- Trial pits at P9
- Construction of wastewater drainage and watermains at Mui Tsz Lam Road

February 2024

- Trial pits at P9
- Construction of wastewater drainage and watermains at Mui Tsz Lam Road

Air Quality Monitoring

iii. 1-hour TSP monitoring was conducted at AM1, AM2, AM3(B), AM4, AM5 and ASR51 in the reporting period.

iv. No action or limit level exceedances were determined in the reporting period.

Noise Monitoring

v. Noise monitoring was conducted at CM1, CM2(B), CM3, CM4 and CM5 in the reporting period.

vi. No action or limit level exceedances were determined in the reporting period.

vii. Additional weekly noise monitoring from 19:00 to 23:00 was carried out at CM4 with respect to the restricted hour works under related CNP. All the results are within or below the baseline level range after baseline correction.

viii. Additional weekly night time noise monitoring from 23:00 to 07:00 on next day was carried out at CM4 with respect to the restricted hour works under related CNP. All the results are within or below the baseline level range after baseline correction.

APS Monthly Performance Test

ix. APS monthly performance test was conducted at the ASRs (i.e. ASR52 & ASR55) within the reporting period.

x. The results and conclusion of the APS Performance Test can be found in Section 4.3 and Appendix 4.4.

Water Quality Monitoring

xi. Under THEES maintenance or emergency discharge events, effluent would be discharged into the Tolo Harbour from the existing emergency outfalls of STSTW and TPSTW. THEES tunnel was suspended on 29 November 2023 and resumed on 30 November 2023 (Part I). THEES tunnel was suspended on 19 December 2023 and resumed on 20 December 2023 (Part II).

xii. Total 16 monitoring stations, i.e. 15 impact stations and 1 control station, are listed in Table 3.4 below. They are at the WSD flushing water intakes at Sha Tin (W1) and Tai Po (W2), cooling water intake at Chinese University of Hong Kong (CUHK) Marine Science Laboratory (C1), Yim

Tin Tsai Fish Culture Zone (FCZ) (F1), Yim Tin Tsai East FCZ (F2), Yung Shue Au FCZ and Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove (F3), Lo Fu Wat FCZ (F4), Potential Subzone of Yim Tin Tsai FCZ/ Gradient Station (G1), corals at Tai Po Industrial Estate (CR1), Science Park (CR15), Sha Tin Hoi North (CR16) and Sha Tin Hoi South (CR17), Gradient Station (G1*), Pak Sha Tau Corals (C1*) and Tai Po Lung Mei Beach (TPLMB), and finally CR9 as control station, are shown Figure 3.4 to represent the marine water sensitive receivers, which are likely affected by the Project during the THEES maintenance or emergency discharge.

xiii. Station G1 (Subzone of Yim Tin Tsai Fish Culture Zone) is also proposed as a gradient station to assist in the identification of the source of any impact at monitoring station F1. Station CR9 is far away from the Project discharge points and would unlikely be affected by the Project and will therefore serve as a control station.

xiv. Based on the water quality monitoring results, the baseline water quality has no significant impacts and the overall water quality in the Tolo Harbour was considered acceptable during the monitoring period. The results did not reveal any evidence showing that the overflow event from STSTW and TPSTW has caused any adverse marine water quality impact to the surrounding water body.

Complaints, Notifications of Summons and Successful Prosecutions

xv. No environmental complaint was received in the reporting period.

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

1. Introduction

1.1 Scope of the Report

1.1.1 Fugro Technical Services Limited (FTS) has been appointed as the Environmental Team (ET) by Drainage Services Department (DSD) under Environmental Permit (EP) no. EP-533/2017/A to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Relocation of Sha Tin Sewage Treatment Works to Caverns – Site Preparation and Access Tunnel Construction (Register No.: AEIAR-202/2016).

1.1.2 This report documents the finding of EM&A works for this project and during the period of 1 December 2023 to 29 February 2024.

1.1.3 In accordance with Section 13.5 of the Project EM&A Manual, the Quarterly EM&A Summary Report should be prepared and submitted to the IEC, the ER and EPD.

1.2 Structure of the Report

Section 1 **Introduction** – details the scope and structure of the report.

Section 2 **Project Background** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

Section 3 **Monitoring Requirements** – summarizes all monitoring parameters, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.

Section 4 **Monitoring Results** – summarizes the monitoring results obtained in the reporting period.

Section 5 **Compliance Audit** – summarizes the auditing of monitoring results, all exceedances environmental parameters.

Section 6 **Complaints, Notification of summons and Prosecution** – summarizes the cumulative statistics on complaints, notification of summons and prosecution.

Section 7 **Conclusion**

2. Project Background

2.1 Background

2.1.1 The Relocation of Sha Tin Sewage Treatment Works (STSTW) to Caverns (the Project) is implemented so as to release the existing site, of a size about 28 hectares, for other uses.

2.1.2 In May 2012, Drainage Services Department (DSD), the Project Proponent commenced a detailed feasibility study on "Relocation of Sha Tin Sewage Treatment Works to Caverns" (the Feasibility Study). The findings of Feasibility Study affirmed that relocating the STSTW to caverns to be constructed at Nui Po Shan of A Kung Kok is technically feasible and financially viable.

2.1.3 The Project is a Designated Project (DP) under the Environmental Impact Assessment Ordinance (EIAO). An application for an Environmental Impact Assessment (EIA) Study Brief under section 5(1)(a) of the EIAO was submitted on 12 May 2014 with a Project Profile (No. PP-508/2014) for the Project. An EIA Study Brief (No. ESB-273/2014) was issued in June 2014. An EIA for the Project was then undertaken, as part of the Assignment, in accordance with this EIA Study Brief and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The location of the Project is shown **Figure 2.1**.

2.2 Scope of the Project and Site Description

2.2.1 The Project covers the following DP elements as specified in Schedule 2 of the EIAO (Cap.499):

Table 2.1 Schedule 2 Designated Projects under this Project

Item	Designated Project	EIAO Reference
DP1	Sewage treatment works with an installed capacity of more than 15,000 m3 per day under Item F.1	Schedule 2, Part I,
DP2	Sewage treatment works under Item F.2 • With an installed capacity of more than 5,000 m3 per day; and • A boundary of which is less than 200m from the nearest boundary of an existing or planned residential area, educational institution and health care institution.	Schedule 2 Part I
DP3	An activity for the reuse of treated sewage effluent from a treatment plant under Item F.4	Schedule 2 Part I
DP4	Underground rock caverns under Item Q.2	Schedule 2 Part I
DP5	An explosives depot in a stand−alone, purpose built building under Item K.10	Schedule 2 Part I;
DP6	Decommissioning of an explosives depot under Item 11	Schedule 2 Part II

2.3 Project Organization and Contact Personnel

2.3.1 Drainage Services Department is the overall project controllers for the Project. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.3.2 The proposed project organization and lines of communication with respect to environmental protection works are shown in **Figure 2.2**. Key personnel and contact particulars is summarized in **Table 2.2**:

Table 2.2 Contact Details of Key Personnel

Party	Role / Post	Name	Contact No.	Contact Fax
AECOM	Principal Resident Engineer	Mr. Peter POON	9861 8654	2251 0693
China State – Alchmex Joint Venture (CSAJV) **(DC/2020/05)**	Construction Manager	S. Y. TSZ	9078 0458	3914 5951
	Site Agent	Mr. KONG Ming, Elvis	9186 2081	
	Environmental Officer	Mr. LAM Moon Lin	9489 4641	
		Mr. Michael Tsang	9277 4956	
	Environmental Supervisor	TSANG Chiu Fat	9137 8733	
		CHAN Chin Ming	9128 9993	
		IP Tat Hing	9600 8900	
		Tiffany Yeung	6761 8726	
China State – Alchmex Joint Venture (CSAJV) **(DC/2023/12)**	Project Manager	Dave Chan	9027 4422	2252 9319
	Site Agent	Thomson Leung	6433 9285	
	Environmental Officer	Yolanda Gao	9664 4436	
	Environmental Supervisor	Tina Zhuang	5649 5837	
ANewR Consulting Limited **(ANewR)**	Independent Environmental Checker (IEC)	Mr. Louis KWAN	2618 2831	3007 8648
Fugro Technical Services Limited (Fugro)	Environmental Team Leader (ETL)	Mr. Alvin Yu (until 15 Feb 2024) Mr. Wingo So (from 16 Feb 2024)	3565 4373 9558 3402	2694 0659

2.4 Construction Activities

2.4.1 In the reporting period, the principal work activities of individual contracts are included as follow:

Contract no. DC/2020/05 –
Relocation of Sha Tin Sewage Treatment Works to Caverns – Main Caverns Construction
(The contract was commenced on 5 July 2021)

December 2023

- Slope stabilization works
- Tunneling works
- Retaining wall construction
- Operation of rock crushing plant
- TBM Tunneling and Pipe Jacking
- Preservation and protection of existing trees
- Ventilation shaft excavation

January 2024

- Slope stabilization works
- Tunneling works
- Retaining wall construction
- Operation of rock crushing plant
- TBM Tunneling and Pipe Jacking
- Preservation and protection of existing trees
- Ventilation shaft excavation

February 2024

- Slope stabilization works
- Tunneling works
- Retaining wall construction
- Operation of rock crushing plant
- TBM Tunneling and Pipe Jacking
- Preservation and protection of existing trees
- Ventilation shaft excavation

Contract no. DC/2023/12 –
Relocation of Sha Tin Sewage Treatment Works to Caverns –
Ancillary Buildings, Cavern Ventilation System and Associated Works
(The contract was commenced on 1 August 2023)

December 2023

- Pre-construction condition survey for Emergency Bypass
- Trial pits at Emergency Bypass – Site Clearance

January 2024

- Trial pits at P9
- Construction of wastewater drainage and watermains at Mui Tsz Lam Road

February 2024

- Trial pits at P9
- Construction of wastewater drainage and watermains at Mui Tsz Lam Road

2.4.2 Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor in this reporting period. The Environmental Mitigation Implementation Schedule (EMIS) such as air quality, construction noise, water quality, Ecological, Landscape & Visual Impact and wastes management is presented in **Appendix 2.1**.

3. Monitoring Requirements

3.1 Air Monitoring

Air Quality Monitoring Stations

3.1.1 Air monitoring stations AM1 and AM2 were setup and commencement of monitoring on 12 April 2019 while AM4 and AM5 were setup and commencement of monitoring on 3 May 2019 and 18 April 2019 respectively.

3.1.2 Based on the Project baseline report, the air quality monitoring station AM3, Ma On Shan Tsung Tsin Secondary School was relocated to AM3(A), Kowloon City Baptist Church Hay Nien Primary School. A change of the monitoring location in subsequent impact monitoring for AM3(A) - Kowloon City Baptist Church Hay Nien Primary School was identified necessary as access was not granted for setting up the onsite monitoring station. The new monitoring location AM3(B) – ground level of outside A Kung Kok Street Garden for impact air quality monitoring station was proposed based on the criteria as stated in section 2.2.4.2 and 2.2.4.3 of EM&A Manual by ET and approved by ER and verified by IEC and submitted to EPD for agreement on 5 September 2019. The proposal for proposed fine adjustment for air monitoring station at Kowloon City Baptist Church Hay Nien Primary School was agreed by EPD on 17 December 2020 and the air quality monitoring for the station AM3(B) was commenced on 18 December 2020.

3.1.3 Air quality monitoring for the station AM6 was commenced on 2 November 2021 since the demolition of DSD staff quarter and ended on 31 December 2021. The proposal was verified by IEC and approved by EPD on 9 May 2019.

3.1.4 Air quality monitoring station ASR51 at WA3 was recommended in the supporting document for application for variation of Environmental Permit (EP-533/2017/A issued on 11 August 2022) and the associated air quality monitoring was commenced on 19 August 2022.

3.1.5 The updated air monitoring stations for the Project are listed and shown in **Table 3.1** and **Figure 3.1**.

Table 3.1 Air Monitoring Station

Monitoring Station ID	Monitoring Location	Level (in terms of no. of floor)
AM1	Ah Kung Kok Fishermen Village	G/F
AM2	Block H, Kam Tai Court	Roof
AM3(B)	Outside A Kung Kok Street Garden	G/F
AM4	Wellborn Kindergarten	G/F
AM5	The Neighbourhood Advice-Action Council Harmony Manor	Roof
ASR51	The Hong Kong Yaumati Ferry Company Ltd. Administrative Building	G/F

Air Monitoring Parameters, Frequency and Duration

3.1.6 One-hour TSP levels should be measured to indicate the impacts of construction dust on air quality.

3.1.7 The sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

3.2 Noise Monitoring

Noise Monitoring Stations

3.2.1 Noise monitoring stations CM4 and CM5 were setup and commencement of monitoring on 13 April 2019 and 18 April 2019 respectively. Noise monitoring for stations CM1 and CM3 were commenced on 2 May 2019.

3.2.2 Based on the Project baseline report, the noise monitoring station CM2, Ma On Shan Tsung Tsin Secondary School was relocated to CM2(A), Kowloon City Baptist Church Hay Nien Primary School. A change of the monitoring location in subsequent impact monitoring for CM2(A) - Kowloon City Baptist Church Hay Nien Primary School was identified necessary as access was not granted for setting up the onsite monitoring station. The new monitoring location CM2(B) – ground level of outside A Kung Kok Street Garden for impact noise monitoring station was proposed by ET and approved by ER and verified by IEC and submitted to EPD for agreement on 5 September 2019. The proposal was agreed by EPD on 17 December 2020 and the noise monitoring for station CM2(B) was commenced on 18 December 2020.

3.2.3 Noise monitoring for stations DM1, DM2 and DM3 were commenced on 2 November 2021 and ended on 31 December 2021.

3.2.4 The updated noise monitoring stations for the Project are listed and shown in **Table 3.2** and **Figure 3.3**.

Table 3.2 Noise Monitoring Station

Monitoring Station ID	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
CM1	Wellborn Kindergarten	Free field	G/F
CM2(B)	Outside A Kung Kok Street Garden	Free field	G/F
CM3	S.K.H. Ma On Shan Holy Spirit Primary School	Façade	Roof
CM4	Ah Kung Kok Fishermen Village	Free field	G/F
CM5	The Neighbourhood Advice-Action Council Harmony Manor	Façade	Roof

Noise Monitoring Parameters, Frequency and Duration

3.2.5 Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:

- One set of measurements between 0700-1900 hours on normal weekdays;
- One set of measurements between 1900-2300 hours;
- One set of measurements between 2300-0700 hours of next day; and
- One set of measurements between 0700-2300 hours on holidays (six consecutive Leq/5min readings).

3.2.6 If construction works are extended to include works during the hours of 1900-0700, additional weekly impact monitoring shall be carried out during evening and night-time works for the latter 3 sets of measurements specified in Section 3.2.5 above, one set of measurements shall at least include 6 consecutive Leq (5min) results.

3.2.7 Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

3.2.8 If a school exists near the construction activity, noise monitoring shall be carried out at the monitoring stations for the schools during the examination periods. The ET leader shall liaise with the school's personnel and the examination authority to ascertain the exact dates and times of all examination periods during the course of the contract.

3.3 APS Performance Test

3.3.1 According to EP Condition 2.29(ii) of EP-533/2017/A, monthly performance test shall be carried out in the following month of the Air Purification System (APS) commissioning test, in order to monitor the effectiveness of the APS in removing NO2 at the designated air sensitive receivers (ASR) as described in the Environmental Review Report (ERR) submitted under the application for Variation of EP (Application No.: VEP-618/2022).

3.3.2 The commissioning test was carried out for a duration of 24 hours at Model Train Shop (ASR55), Lantau Link Visitor Centre (ASR55), Nana Café (ASR55) and Workshop Office (ASR52) on 19 to 20, 20 to 21, 26 to 27 (for Nana Café & Workshop Office) September 2022, respectively, the Commissioning Test Report (CTR) was then submitted to EPD on 3 November 2022. Since the owner of premises (Model Train Shop) requested to reduce the APS units due to the space constraints. The measurement was re-carried out in 21 to 22 November 2022 by using one APS unit for commissioning test. The CTR was submitted to EPD on 13 December 2022 for approval (Ref: LES/J2021-03/CS/L062).

3.3.3 The ASRs of the APS Performance Test are listed and shown in **Table 3.3** and **Figure 3.2**.

Table 3.3 ASR of the APS Performance Test

ASR ID	Location of ASR
ASR52	North West Tsing Yi Interchange Maintenance Workshops
ASR55	Lantau Link Visitor Centre
	Nana Café
	Model Train Shop

3.4 Marine Water Quality Monitoring

Marine Water Monitoring Stations

3.4.1 Under THEES maintenance or emergency discharge events, effluent would be discharged into the Tolo Harbour from the existing emergency outfalls of STSTW and TPSTW. THEES tunnel was suspended on 29 November 2023 and resumed on 30 November 2023 (Part I). THEES tunnel was suspended on 19 December 2023 and resumed on 20 December 2023 (Part II). The discharged volume of treated effluent from STSTW was 263,000 m³ (29-30 Nov 2023) and 169,000 m³ (19-20 Dec 2023). The discharged volume of treated effluent from TPSTW was 109,709 m³ (29-30 Nov 2023) and 66,314 m³ (19-20 Dec 2023), with a total discharged volume of 608,023 m³.

3.4.2 A marine water quality monitoring programme was recommended for the THEES tunnel maintenance during both construction and operational phases of this Project to confirm the water quality impact of the THEES maintenance discharge.

3.4.3 Total 16 monitoring stations, i.e. 15 impact stations and 1 control station, are listed in **Table 3.4** below. They are at the WSD flushing water intakes at Sha Tin (W1) and Tai Po (W2), cooling water intake at Chinese University of Hong Kong (CUHK) Marine Science Laboratory (C1), Yim Tin Tsai Fish Culture Zone (FCZ) (F1), Yim Tin Tsai East FCZ (F2), Yung Shue Au FCZ and Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove (F3), Lo Fu Wat FCZ (F4), Potential Subzone of Yim Tin Tsai FCZ/ Gradient Station (G1), corals at Tai Po Industrial Estate (CR1), Science Park (CR15), Sha Tin Hoi North (CR16) and Sha Tin Hoi South (CR17), Gradient Station (G1*), Pak Sha Tau Corals (C1*) and Tai Po Lung Mei Beach (TPLMB), and finally CR9 as control station, are shown **Figure 3.4** to represent the marine water sensitive receivers, which are likely affected by the Project during the THEES maintenance or emergency discharge.

3.4.4 Station G1 (Subzone of Yim Tin Tsai Fish Culture Zone) is also proposed as a gradient station to assist in the identification of the source of any impact at monitoring station F1. Station CR9 is far away from the Project discharge points and would unlikely be affected by the Project and will therefore serve as a control station.

3.4.5 The coordinates of the proposed monitoring stations are listed in **Table 3.4** and **Figure 3.4**

Table 3.4 Proposed Marine Water Quality Monitoring Stations

No.	Station	Description	Easting	Northing
1	W1	WSD Seawater Intake at Sha Tin	840238	830127
2	W2	WSD Seawater Intake at Tai Po	837753	834606
3	C1	Cooling Water Intake at CUHK Marine Science Laboratory	840142	831908
4	F1	Yim Tin Tsai Fish Culture Zone	839387	834907
5	F2	Yim Tin Tsai (East) Fish Culture Zone	840885	835077
6	F3	Yung Shue Au Fish Culture Zone / Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove	846778	832054
7	F4	Lo Fu Wat Fish Culture Zone	846364	836709
8	CR1	Corals at Tai Po Industrial Estate	837888	834489
9	CR15	Corals at Science Park	839193	832710
10	CR16	Corals at Sha Tin Hoi North	840310	831665
11	CR17	Corals at Sha Tin Hoi South	840224	830692
12	G1	Potential Subzone of Yim Tin Tsai Fish Culture Zone / Gradient Station	840521	833311
13	CR9	Gruff Head Corals (Control Station)	850995	838008
14	G1*	Gradient Station	838475	834702
15	C1*	Pak Sha Tau Corals	843779	834659
16	TPLMB	Tai Po Lung Mei Beach	841651	836817

Marine Water Quality Monitoring Parameters, Frequency and Duration

3.4.6 **Table 3.5** summarizes the monitoring parameters of the water quality monitoring

Table 3.5 Water Quality Monitoring Parameters

In-situ Measurement	Laboratory Measurement
Dissolved Oxygen	Suspended Solids (SS)
pH	5-day Biochemical Oxygen Demand (BOD5)
Temperature	Total Inorganic Nitrogen (TIN)
Salinity	Ammonia Nitrogen (NH3-N)
Turbidity	Nitrate-nitrogen (NO3-N)
	Nitrite-nitrogen (NO2-N)
	Unionized Ammonia (UIA)
	Chlorophyll-a
	E. coli

3.4.7 For THEES maintenance, marine water quality data shall be collected throughout the whole discharge period at a frequency of 3 times per week until the baseline water quality is restored or at least 4 weeks after the end of maintenance period. During each monitoring event, water samples shall be collected at both mid-flood and mid-ebb tides and the interval between 2 monitoring events should not be less than 36 hours.

3.4.8 In view of marine safety concern due to limited visibility for safe navigation during night-time, the monitoring time at the mid-flood and mid-ebb will be shifted to the available flood/ebb tide during daytime.

4. Monitoring Results

4.1.1 The environmental monitoring will be implemented based on the division of works areas of each designed projects. Overall layout showing work areas and monitoring stations is shown in **Figure_2_1** and **Figure_3.1 – 3.4** respectively.

4.1 Air Monitoring Results

4.1.1 1-hour TSP monitoring was conducted at AM1, AM2, AM3(B), AM4, AM5 and ASR51 in the reporting period.

4.1.2 No action or limit level exceedances were determined in the reporting period.

4.1.3 Details of air monitoring results and graphical presentation is shown in **Appendix 4.2**.

4.2 Noise Monitoring Results

4.2.1 Noise monitoring was conducted at CM1, CM2(B), CM3, CM4 and CM5 in the reporting period.

4.2.2 No action or limit level exceedances were determined in the reporting period.

4.2.3 Additional weekly noise monitoring from 19:00 to 23:00 was carried out at CM4 with respect to the restricted hour works under related CNP. All the results are within or below the baseline level range after baseline correction.

4.2.4 Additional weekly night time noise monitoring from 23:00 to 07:00 on next day was carried out at CM4 with respect to the restricted hour works under related CNP. All the results are within or below the baseline level range after baseline correction.

4.2.5 Details of noise monitoring results and graphical presentation is shown in **Appendix 4.3**.

4.3 APS Performance Test Results

4.3.1 APS performance test results measured in this reporting period for ASR52 and ASR55 are reviewed and summarized as below. Details of APS Performance Test results can be referred in **Appendix 4.4**.

December 2023

4.3.2 The NO2 removal efficiency for Model Train Shop (ASR55) was over 60% which is one of the criteria for determination of effectiveness of the APS at ASR while that of the rest (i.e. Workshop Office, Lantau Link Visitor Centre and Nana Café) was below the criterion of 60% or above. Nevertheless, it should be noted that the daily average of Indoor NO2 were found to be below another criterion of 40 $\mu g/m^3$ for all ASRs.

4.3.3 Based on the above-mentioned findings, the effectiveness of APS at Model Train Shop, Nana Café, Lantau Link Visitor Centre and Workshop Office were considered satisfactory and no additional units of APS were recommended to be deployed at the above-mentioned ASRs.

January 2024

4.3.4 The NO2 removal efficiency for Model Train Shop (ASR55) was over 60% which is one of the criteria for determination of effectiveness of the APS at ASR while that of the rest (i.e. Workshop Office, Lantau Link Visitor Centre and Nana Café) was below the criterion of 60% or above. Nevertheless, it should be noted that the daily average of Indoor NO2 were found to be below another criterion of 40 $\mu g/m^3$ for all ASRs.

4.3.5 Based on the above-mentioned findings, the effectiveness of APS at Model Train Shop, Nana Café, Lantau Link Visitor Centre and Workshop Office were considered satisfactory and no additional units of APS were recommended to be deployed at the above-mentioned ASRs.

February 2024

4.3.6 The NO_2 removal efficiency for Model Train Shop (ASR55) was over 60% which is one of the criteria for determination of effectiveness of the APS at ASR while that of the rest (i.e. Workshop Office, Lantau Link Visitor Centre and Nana Café) was below the criterion of 60% or above. Nevertheless, it should be noted that the daily average of Indoor NO_2 were found to be below another criterion of 40 $\mu g/m^3$ for all ASRs.

4.3.7 Based on the above-mentioned findings, the effectiveness of APS at Model Train Shop, Nana Café, Lantau Link Visitor Centre and Workshop Office were considered satisfactory and no additional units of APS were recommended to be deployed at the above-mentioned ASRs.

4.4 Water Quality Monitoring Results

4.4.1 The marine water quality impact monitoring was conducted since 29 November 2023 at a frequency of 3 times per week and continue until 19 January 2024.

4.4.2 Based on the water quality monitoring results, the baseline water quality has no significant impacts and the overall water quality in the Tolo Harbour was considered acceptable during the monitoring period. The results did not reveal any evidence showing that the overflow event from STSTW and TPSTW has caused any adverse marine water quality impact to the surrounding water body.

4.4.3 Details of the marine water quality monitoring results and graphical presentations is shown in **Appendix 4.5**.

4.5 Waste Management

4.5.1 The quantities of waste for disposal in the Reporting Period are summarized in **Table 4.1** and the updated Monthly Summary Waste Flow Table are shown in **Appendix 4.6**. Whenever possible, materials were reused on-site as far as practicable.

Table 4.1 Summary of Waste Disposal

Contract no. DC/2020/05

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks:
December 2023				
Inert C&D materials disposed, **m³**	1,334	19,873	Fill Bank at Tuen Mun Area 38	--
	0	108,474	Lam Tei Quarry & CEDD Contract No. NE/2015/01	Alternative Disposal Ground
Inert C&D materials recycled, **m³**	281	1,511	Fill Bank at Tuen Mun Area 38	Broken concrete
Non-inert C&D materials disposed, **tonne**	68.53	1, 221.12	SENT	--
Non-inert C&D materials recycled, **kg**	150	3,220	Golden Sino Management Limited	Waste Paper
	0	230		Plastic
	35	148,449		Metals
Chemical waste disposed, **L**	0	200	Collected by licensed chemical collector: Ecospace Limited	Spent Lube Oil
Asbestos waste disposed, **Kg**	0	560	WENT	--
January 2024				
Inert C&D materials disposed, **m³**	3,330	23,203	Fill Bank at Tuen Mun Area 38	--
	399	108,873	Lam Tei Quarry & CEDD Contract No. NE/2015/01	Alternative Disposal Ground
Inert C&D materials recycled, **m³**	53	1,564	Fill Bank at Tuen Mun Area 38	Broken concrete
Non-inert C&D materials disposed, **tonne**	54.97	1, 276.09	SENT	--
Non-inert C&D materials recycled, **kg**	0	3,220	Golden Sino Management Limited	Waste Paper
	200	430		Plastic
	25	148,474		Metals
Chemical waste disposed, **L**	0	200	Collected by licensed chemical collector: Ecospace Limited	Spent Lube Oil
Asbestos waste disposed, **Kg**	0	560	WENT	--
February 2024				
Inert C&D materials disposed, **m³**	867	24,070	Fill Bank at Tuen Mun Area 38	--
	557	109,430	Lam Tei Quarry & CEDD Contract No. NE/2015/01	Alternative Disposal Ground
Inert C&D materials recycled, **m³**	429	1,993	Fill Bank at Tuen Mun Area 38	Broken concrete
Non-inert C&D materials disposed, **tonne**	61.67	1,337.76	SENT	--
Non-inert C&D materials recycled, **kg**	0	3,220	Golden Sino Management Limited	Waste Paper
	0	430		Plastic
	0	148,474		Metals
Chemical waste disposed, **L**	0	200	Collected by licensed chemical collector: Ecospace Limited	Spent Lube Oil

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks:
Asbestos waste disposed, **Kg**	0	560	WENT	--

Contract no. DC/2023/12

December 2023				
Nil	0	0	--	--
January 2024				
Inert C&D materials disposed**, m³**	77	77	Fill Bank at Tseung Kwan O Area 137	--
	0	0	--	Alternative Disposal Ground
Inert C&D materials recycled**, m³**	0	0	Fill Bank at Tseung Kwan O Area 137	Broken concrete
Non-inert C&D materials disposed**, tonne**	0	0	SENT	--
Non-inert C&D materials recycled**, kg**	0	0	To be confirmed	Waste Paper
	0	0	To be confirmed	Plastic
	0	0	To be confirmed	Metals
Chemical waste disposed, **L**	0	0	Collected by licensed chemical collector	Spent Lube Oil
Asbestos waste disposed, **Kg**	0	0	WENT	--
February 2024				
Inert C&D materials disposed**, m³**	61	138	Fill Bank at Tseung Kwan O Area 137	--
	0	0	--	Alternative Disposal Ground
Inert C&D materials recycled**, m³**	0	0	Fill Bank at Tseung Kwan O Area 137	Broken concrete
Non-inert C&D materials disposed**, tonne**	0	0	SENT	--
Non-inert C&D materials recycled**, kg**	0	0	To be confirmed	Waste Paper
	0	0	To be confirmed	Plastic
	0	0	To be confirmed	Metals
Chemical waste disposed, **L**	0	0	Collected by licensed chemical collector	Spent Lube Oil
Asbestos waste disposed, **Kg**	0	0	WENT	--

5. Land Contamination

5.1.1 Land decontamination work for the DSD staff quarter at existing STSTW started on 16 June 2021, the Remediation Report was submitted to EPD for approval on 9 September 2021.

5.1.2 The Remediation Report was accepted by EPD on 8 November 2021.

6. Compliance Audit

6.1.1 The Event Action Plan for construction noise, air quality is presented in **Appendix 6.1**.

6.1.2 The summary of exceedance is presented in **Appendix 6.2**.

6.1 Air Monitoring

6.1.1 No action or limit level exceedances were determined in the reporting period at stations of AM1, AM2, AM3(B), AM4, AM5 and ASR51.

6.2 Noise Monitoring

6.2.1 No action or limit level exceedances were determined in the reporting period for the stations of CM1, CM2(B), CM3, CM4 and CM5.

6.2.2 Additional weekly noise monitoring from 19:00 to 23:00 was carried out at CM4 with respect to the restricted hour works under related CNP. All the results are within or below the baseline level range after baseline correction.

6.2.3 Additional weekly night time noise monitoring from 23:00 to 07:00 on next day was carried out at CM4 with respect to the restricted hour works under related CNP. All the results are within or below the baseline level range after baseline correction.

6.3 Marine Water Quality Monitoring

6.3.1 The marine water quality impact monitoring was conducted for 16 monitoring stations within the Tolo Harbour from 29 November 2023 to 19 January 2024.

6.3.2 Based on the water quality monitoring results, the baseline water quality has no significant impacts and the overall water quality in the Tolo Harbour was considered acceptable during the monitoring period. The results did not reveal any evidence showing that the overflow event from STSTW and TPSTW has caused any adverse marine water quality impact to the surrounding water body.

6.4 Review of the Reasons for and the Implications of Non-compliance

6.4.1 No environmental non-compliance was recorded in the reporting month.

6.5 Summary of action taken in the event of and follow-up on non-compliance

6.5.1 There was no particular action taken since no non-compliance was recorded in the reporting period.

7. Complaints, Notification of Summons and Prosecution

7.1.1 No environmental complaint was received in the reporting period.

7.1.2 No notification of summons and successful prosecutions were received in the reporting month.

7.1.3 The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 7.1**.

7.1.4 Cumulative statistic on complaints and successful prosecutions are summarized in **Table 7.1** and **Table 7.2** respectively.

Table 7.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
December 2023 – February 2024	**0**
Total	**9**

Table 7.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Waste	-	0	0
Total	-	0	0

8. Conclusion

8.1.1 The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made and reviewed regularly in response to changing circumstances.

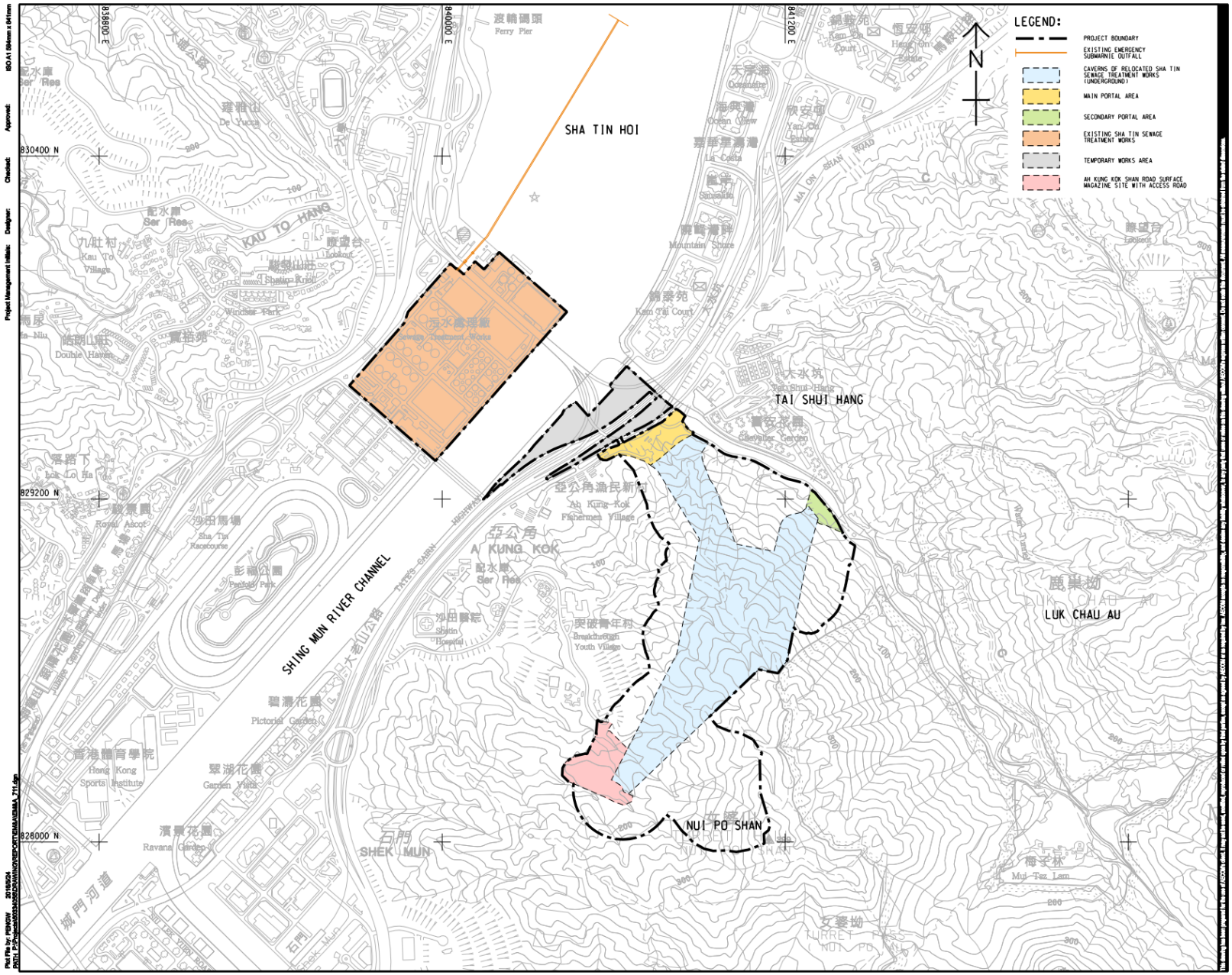
8.1.2 No non-compliances were noted and no prosecutions were received during the reporting period.

8.1.3 Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor in this reporting period. Weekly environmental site audits, bi-weekly landscape site audits and monthly ecology site audits were conducted by Environmental Team, ER and the Contractor and no cumulative environmental impact was identified in the reporting period. Hence, the EM&A programme was considered effective and shall be maintained.

8.1.4 The construction programmes of individual contracts are provided in **Appendix 8.1**.

Figure 2.1

Project Layout



AECOM

PROJECT

RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS: CAVERNS AND SEWAGE TREATMENT WORKS - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT

Drainage Services Department

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

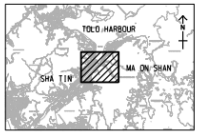
I/R	DATE	DESCRIPTION	CHK.

STATUS

SCALE: A3 1 : 12000

DIMENSION UNIT: METRES

KEY PLAN A3 1 : 500000



PROJECT NO.: 60334056

CONTRACT NO.: CE 30/2014 (DS)

SHEET TITLE

LOCATION PLAN OF THE PROJECT

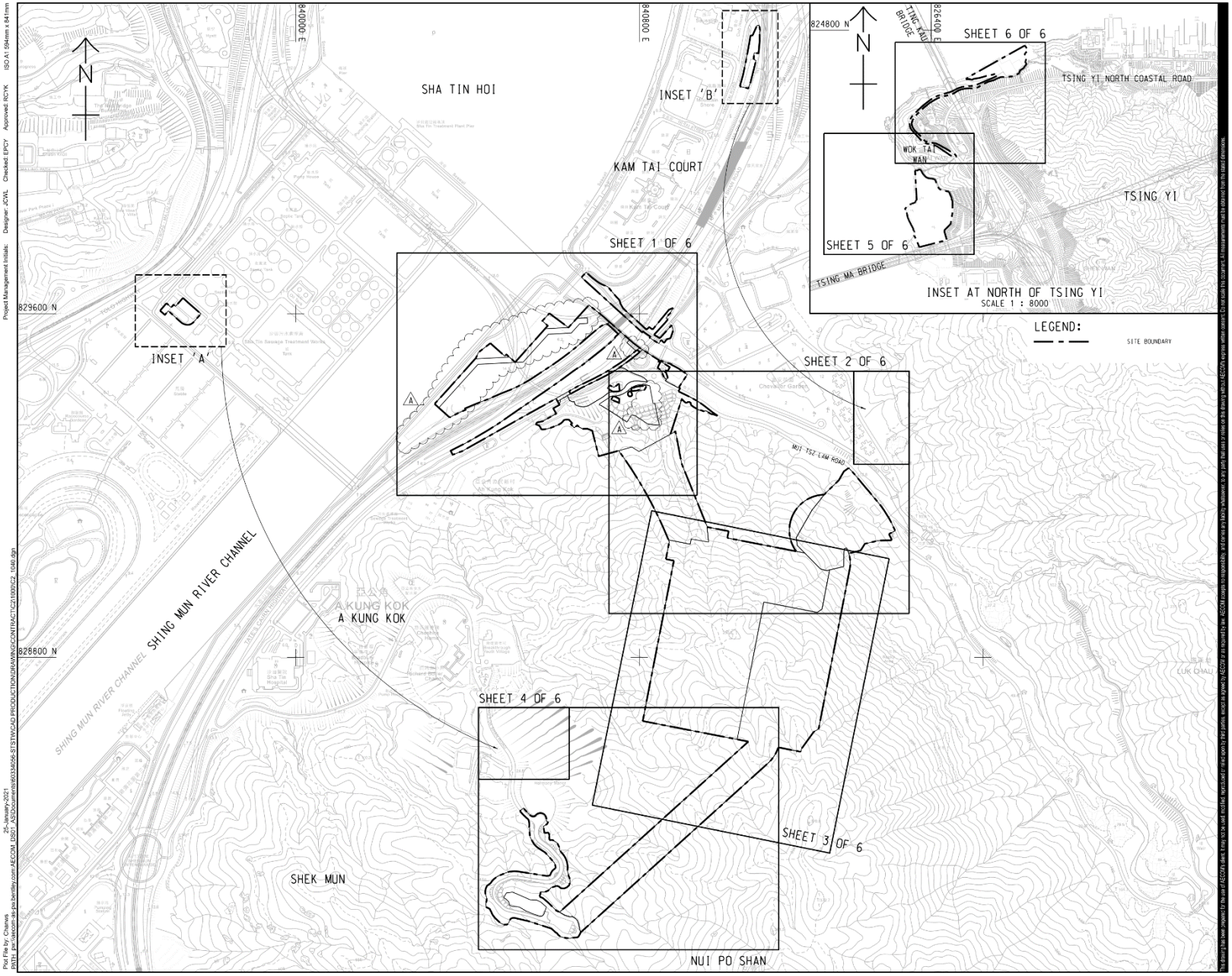
SHEET NUMBER

60334056/EM&A/1.01

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

Plot File by: PENGW 20185/24
PATH P:\Projects\60334056\DRAWING\REPORT\EM&A\EM&A_711.dgn

FUGRO



AECOM

PROJECT

RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS

CONTRACT TITLE
RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS - MAIN CAVERNS CONSTRUCTION

CLIENT

Drainage Services Department

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

IR	DATE	DESCRIPTION	CHK.
A	JAN. 21	TENDER ADDENDUM NO. 3	EPCY
-	NOV. 20	TENDER DRAWING	EPCY

STATUS

SCALE: A1 1 : 4000

DIMENSION UNIT: METRES

KEY PLAN

PROJECT NO.: 60334056

CONTRACT NO.: DC/2020/05

SHEET TITLE

PORTION OF SITE
- KEY PLAN

SHEET NUMBER

60334056/C2/1040A

The Drawing has been prepared for the use of DSD only and neither the drawing nor any part thereof may be used, reproduced or copied to any third parties, except as provided for in DSD's agreement with AECOM. Unless so provided for, AECOM makes no representation, and disclaims any liability whatsoever, in part or in whole, to any party other than DSD for any use of the drawing, or any part thereof, or any reliance on the drawing by any party other than DSD for any purpose. All measurements shall be obtained from the stated dimensions.

Project Management Initials: Designer: JCW/L Checked: EPCY Approved: RCYK ISO A1 594mm x 841mm

Plot File by: Chanws
PATH: pw:\\aecom-ds-pw.bentley.com:AECOM_DSD1_ASDocuments\60334056-STSTWCAD PRODUCTION\DRAWING\CONTRACT\C2\1000\C2_1040.dgn
25-January-2021

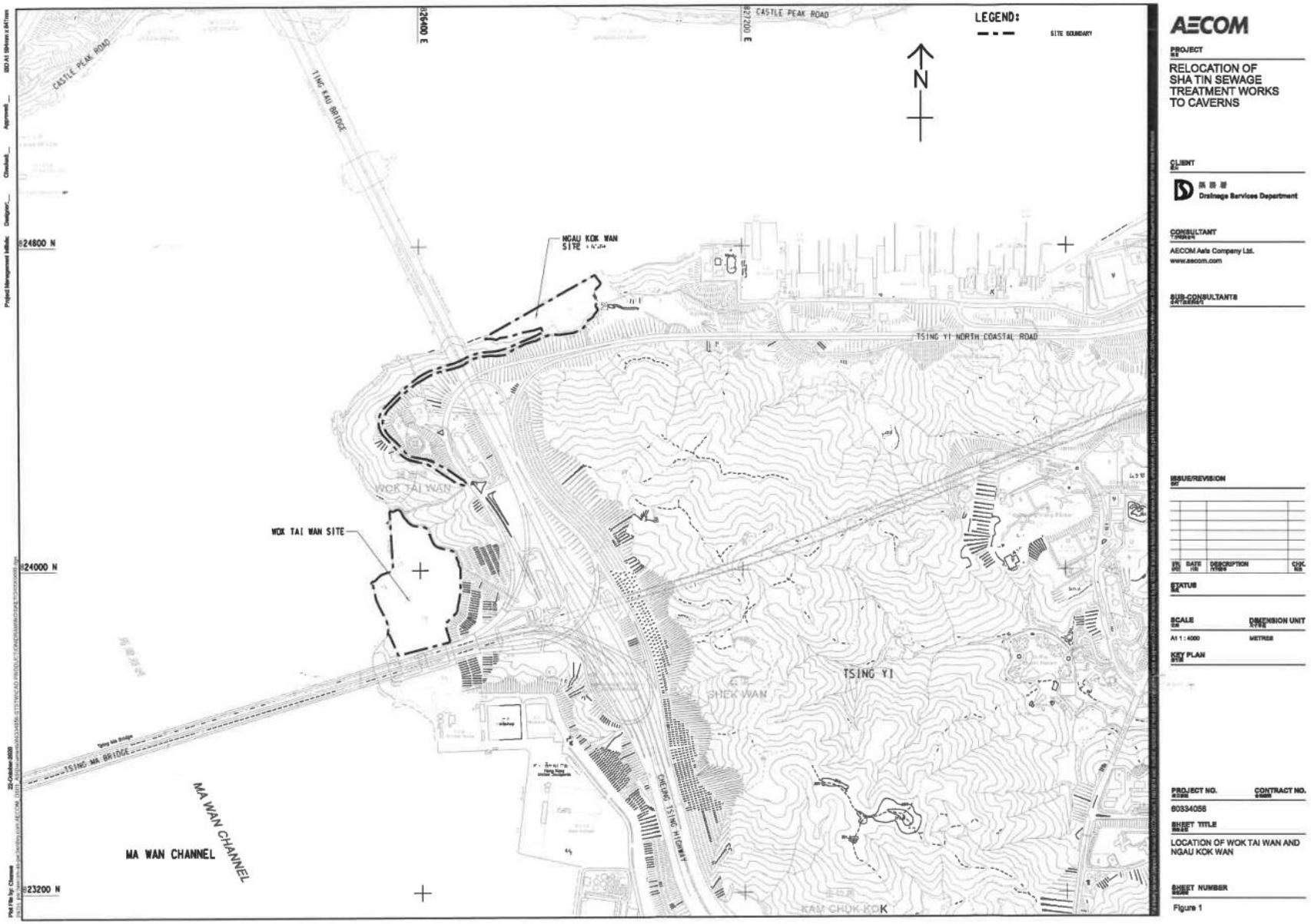

LEGEND:
SITE BOUNDARY
N
CASTLE PEAK ROAD
TING KAU BRIDGE
NGAU KOK WAN SITE
WOK TAI WAN SITE
WOK TAI WAN
TSING YI NORTH COASTAL ROAD
TSING YI
SHEK WAN
KAM CHUK KOK
TSING MA BRIDGE
CHEUNG TSING HIGHWAY
MA WAN CHANNEL
MA WAN CHANNEL
824800 N
824000 N
823200 N
826400 E
827200 E
AECOM
PROJECT
RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS
CLIENT
Drainage Services Department
CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com
SUB-CONSULTANTS
ISSUE/REVISION
STATUS
SCALE
A1 1 : 4000
DIMENSION UNIT
METRES
KEY PLAN
PROJECT NO.
60334058
CONTRACT NO.
SHEET TITLE
LOCATION OF WOK TAI WAN AND NGAU KOK WAN
SHEET NUMBER
Figure 1

Figure 2.2

Project Organization Chart

Project Organization Chart

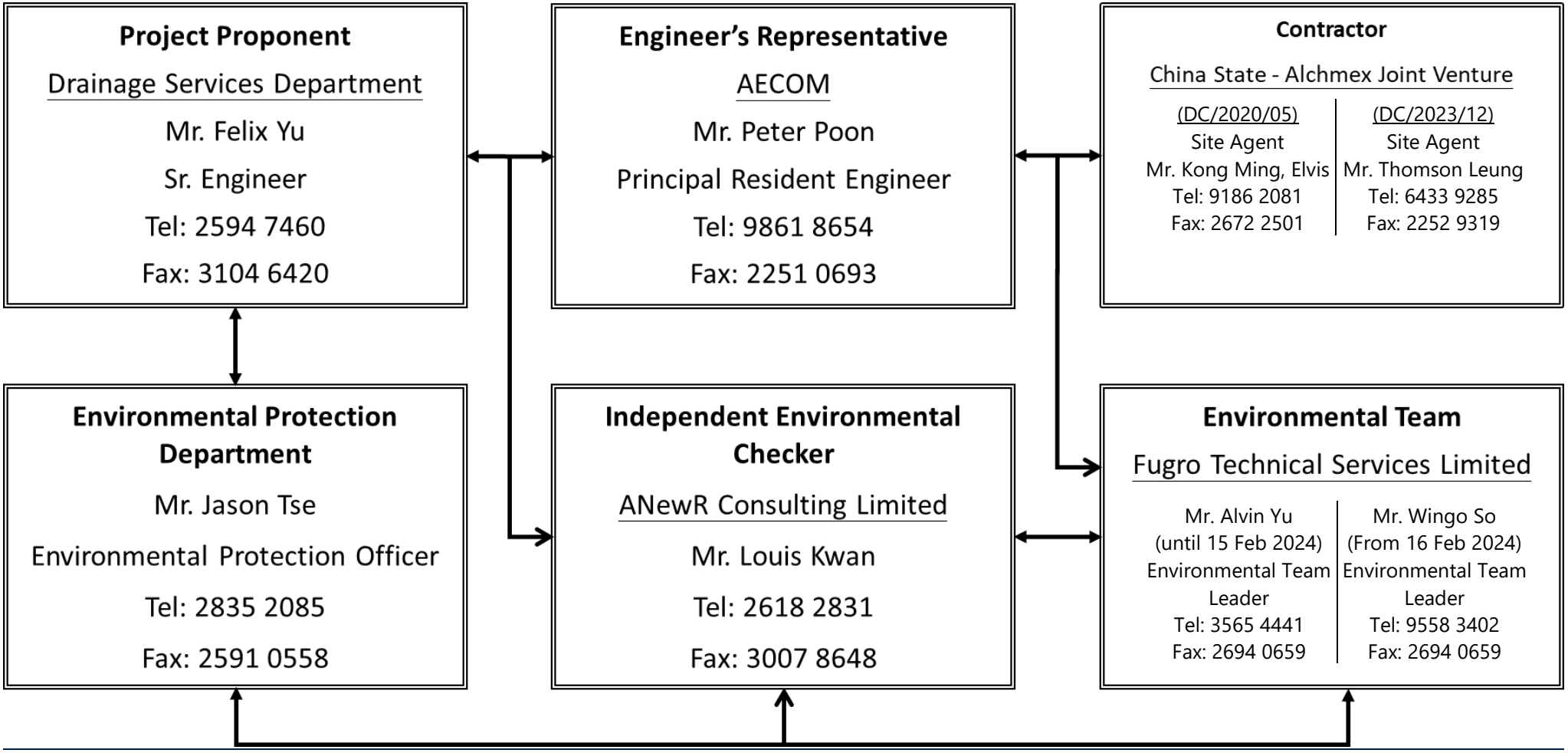
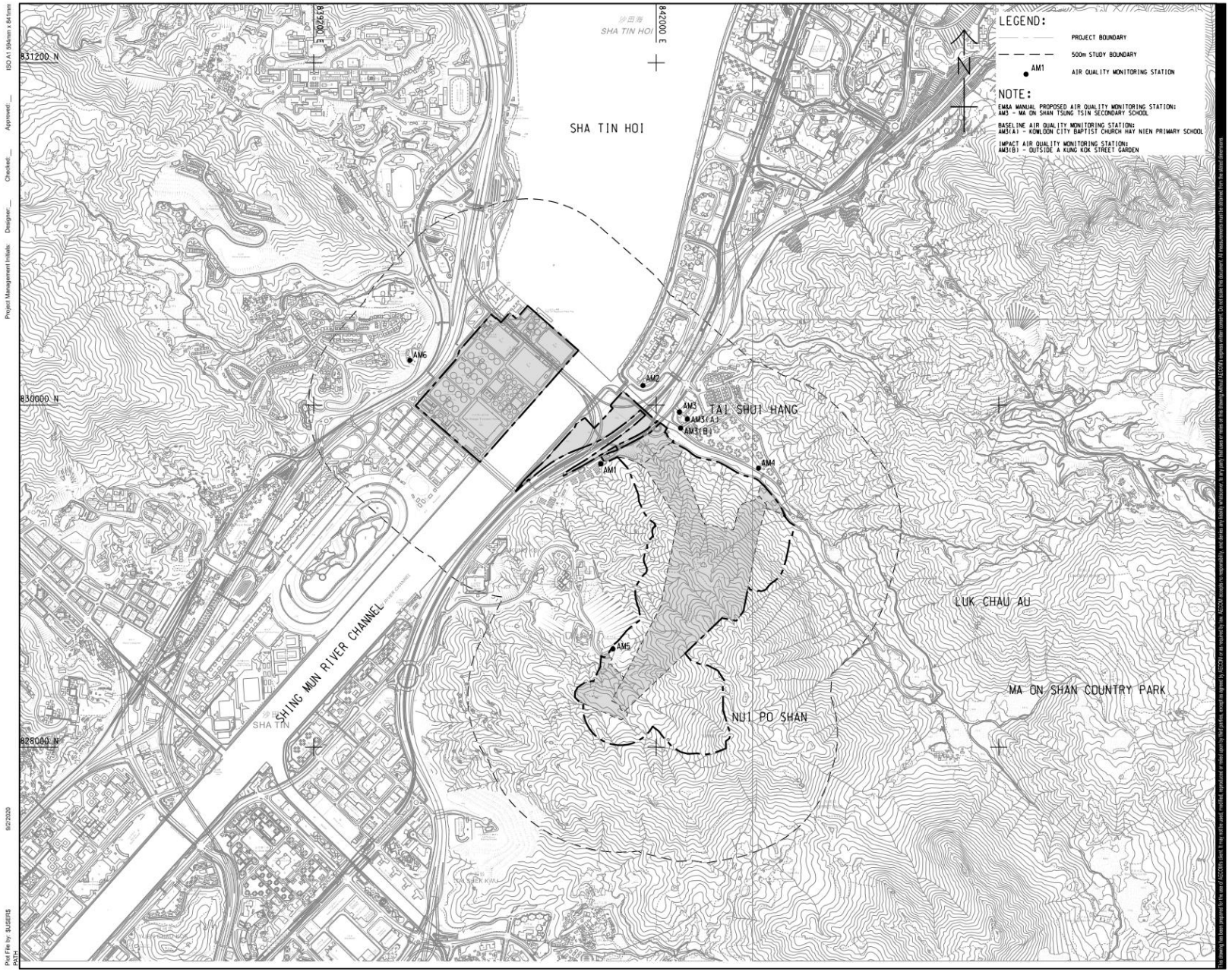


Figure 3.1 to 3.4

Locations of Environmental Monitoring Station



AECOM

PROJECT

RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS: CAVERNS AND SEWAGE TREATMENT WORKS - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT

Drainage Services Department

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

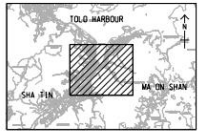
I/R	DATE	DESCRIPTION	CHK.

STATUS

SCALE A3 1 : 16000

DIMENSION UNIT METRES

KEY PLAN A3 1 : 400000



PROJECT NO. 60334056

CONTRACT NO. CE 30/2014 (DS)

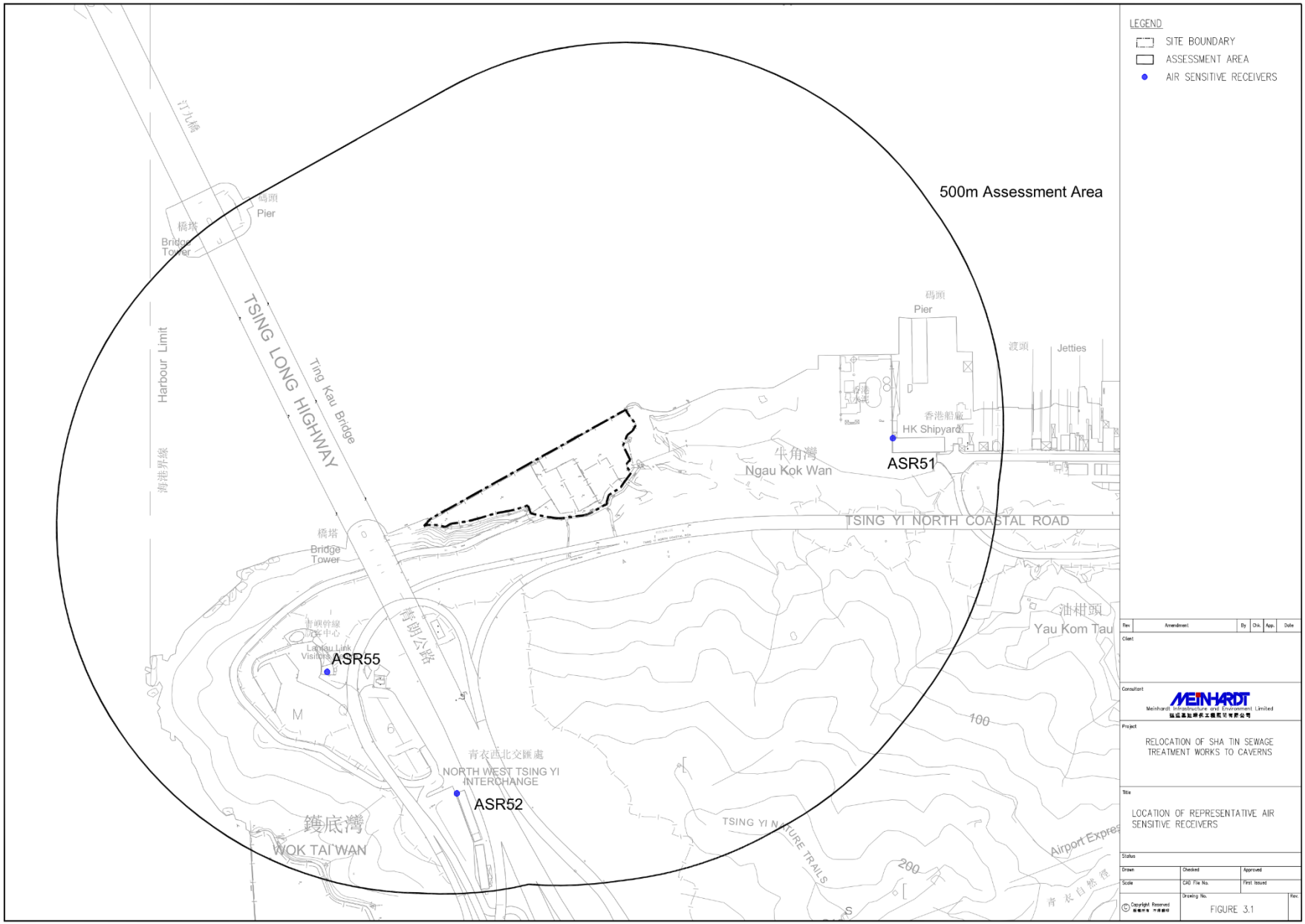
SHEET TITLE

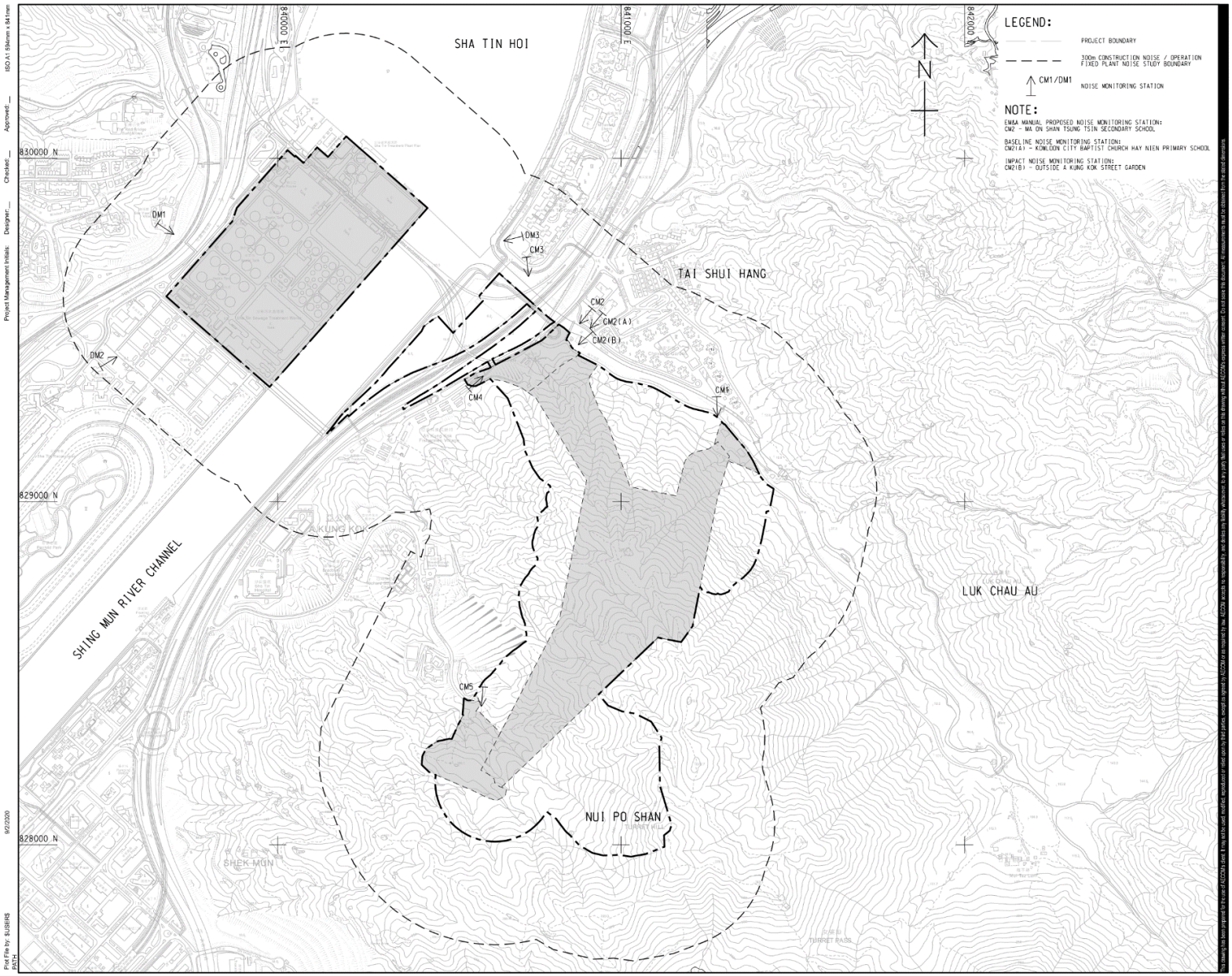
LOCATION OF AIR QUALITY MONITORING STATION DURING CONSTRUCTION PHASE

SHEET NUMBER

60334056/EM&A/2.01

Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm
Plot File by: $USER$ 9/2/2020
PATH:


LEGEND
SITE BOUNDARY
ASSESSMENT AREA
AIR SENSITIVE RECEIVERS
500m Assessment Area
ASR51
ASR52
ASR55
TSING LONG HIGHWAY
Ting Kau Bridge
Harbour Limit
TSING YI NORTH COASTAL ROAD
Ngau Kok Wan
HK Shipyard
Pier
Jetties
Bridge Tower
NORTH WEST TSING YI INTERCHANGE
WOK TAI WAN
Yau Kom Tau
RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS
LOCATION OF REPRESENTATIVE AIR SENSITIVE RECEIVERS
FIGURE 3.1



AECOM

PROJECT

RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS: CAVERNS AND SEWAGE TREATMENT WORKS - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT

渠務署 Drainage Services Department

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

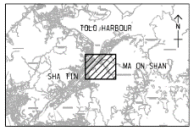
I/R	DATE	DESCRIPTION	CHK.

STATUS

SCALE A3 1 : 10000

DIMENSION UNIT METRES

KEY PLAN A3 1 : 500000



PROJECT NO. 60334056

CONTRACT NO. CE 30/2014 (DS)

SHEET TITLE

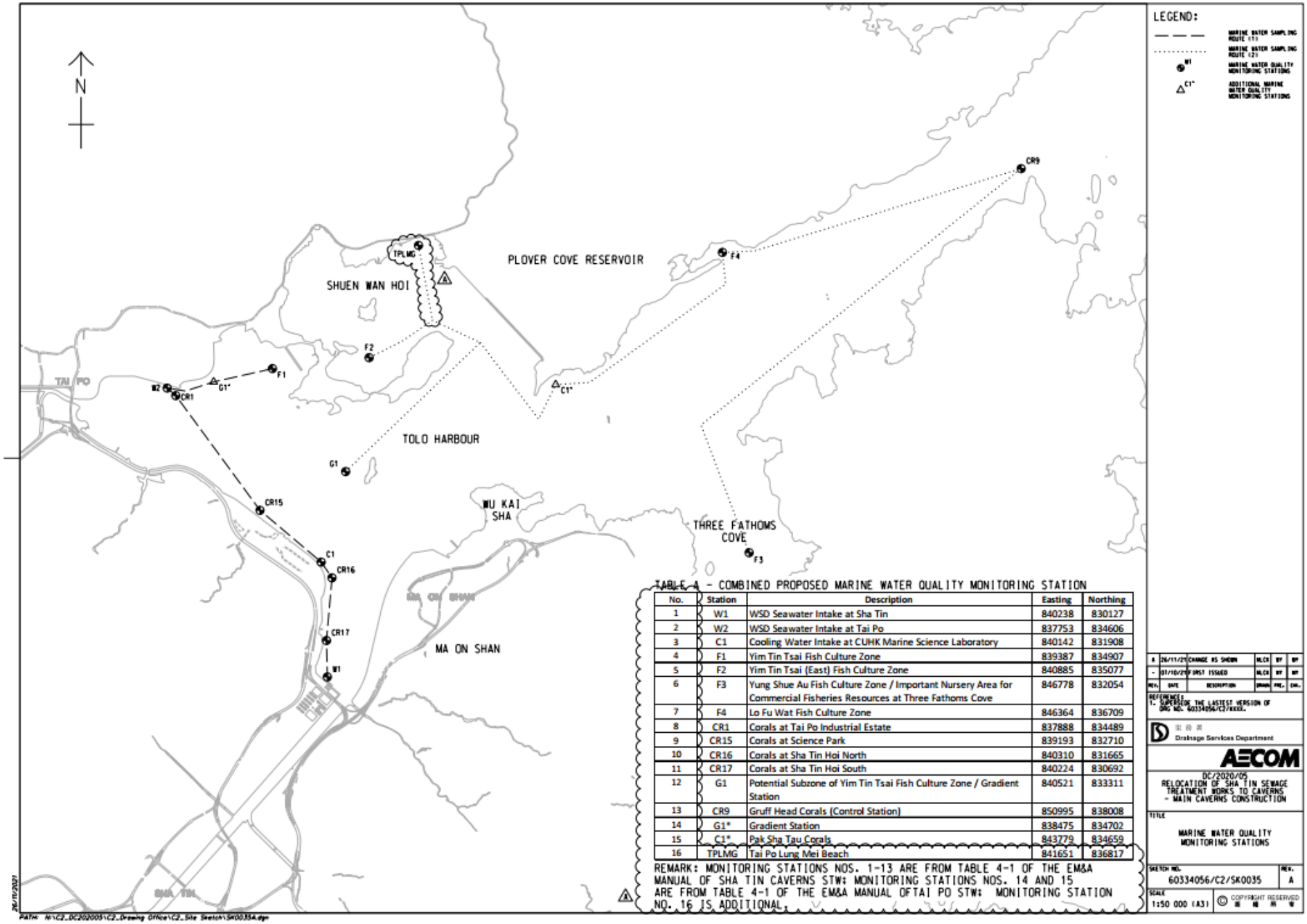
LOCATION OF CONSTRUCTION PHASE TRAFFIC NOISE MONITORING STATION

SHEET NUMBER

60334056/EM&A/3.01

ISO A1 594mm x 841mm | Approved:__ | Checked:__ | Designer:__ | Project Management Initials: | 9/2/2020 | Plot File by: $USER$ | PATH

The drawing is the property of AECOM and is not to be used for any purpose other than that for which it is supplied. It may not be reproduced or amended except with the written permission of AECOM. AECOM accepts no responsibility for any use of or reliance on the drawing for another purpose or by any other person or corporation. Do not scale drawing. Contractor must verify all dimensions on site before commencing work.


N
LEGEND:
MARINE WATER SAMPLING ROUTE (C1)
MARINE WATER SAMPLING ROUTE (C2)
MARINE WATER QUALITY MONITORING STATIONS
ADDITIONAL MARINE WATER QUALITY MONITORING STATIONS
PLOVER COVE RESERVOIR
SHUEN WAN HOI
TPLMG
F4
CR9
F2
F1
W2
CR1
G1*
C1*
TAI PO
TOLO HARBOUR
G1
CR15
WU KAI SHA
THREE FATHOMS COVE
F3
C1
CR16
CR17
W1
MA ON SHAN
SHA TIN
TABLE A - COMBINED PROPOSED MARINE WATER QUALITY MONITORING STATION
No. | Station | Description | Easting | Northing
1 | W1 | WSD Seawater Intake at Sha Tin | 840238 | 830127
2 | W2 | WSD Seawater Intake at Tai Po | 837753 | 834606
3 | C1 | Cooling Water Intake at CUHK Marine Science Laboratory | 840142 | 831908
4 | F1 | Yim Tin Tsai Fish Culture Zone | 839387 | 834907
5 | F2 | Yim Tin Tsai (East) Fish Culture Zone | 840885 | 835077
6 | F3 | Yung Shue Au Fish Culture Zone / Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove | 846778 | 832054
7 | F4 | Lo Fu Wat Fish Culture Zone | 846364 | 836709
8 | CR1 | Corals at Tai Po Industrial Estate | 837888 | 834489
9 | CR15 | Corals at Science Park | 839193 | 832710
10 | CR16 | Corals at Sha Tin Hoi North | 840310 | 831665
11 | CR17 | Corals at Sha Tin Hoi South | 840224 | 830692
12 | G1 | Potential Subzone of Yim Tin Tsai Fish Culture Zone / Gradient Station | 840521 | 833311
13 | CR9 | Gruff Head Corals (Control Station) | 850995 | 838008
14 | G1* | Gradient Station | 838475 | 834702
15 | C1* | Pak Sha Tau Corals | 843779 | 834659
16 | TPLMG | Tai Po Lung Mei Beach | 841651 | 836817
REMARK: MONITORING STATIONS NOS. 1-13 ARE FROM TABLE 4-1 OF THE EM&A MANUAL OF SHA TIN CAVERNS STW: MONITORING STATIONS NOS. 14 AND 15 ARE FROM TABLE 4-1 OF THE EM&A MANUAL OFTAI PO STW: MONITORING STATION NO. 16 IS ADDITIONAL.
A 26/11/21 CHANGE AS SHOWN
- 07/10/21 FIRST ISSUED
REFERENCE: 1. SUPERSEDE THE LASTEST VERSION OF DRG NO. 60334056/C2/SK0035.
Drainage Services Department
AECOM
DC/2020/05 RELOCATION OF SHA TIN SEWAGE TREATMENT WORKS TO CAVERNS - MAIN CAVERNS CONSTRUCTION
TITLE
MARINE WATER QUALITY MONITORING STATIONS
SHEET NO. 60334056/C2/SK0035
REV. A
SCALE 1:50 000 (A3)
© COPYRIGHT RESERVED
26/11/2021
PATH: N:\C2_DC2020051\C2_Drawing Office\C2_Site Sketch\SK00354.dgn

FUGRO

Appendix 2.1

Environmental Mitigation Implementation Schedule

APPENDIX C IMPLEMENTATION SCHEDULE OF RECOMMENDED MITIGATION MEASURES

C.1 Introduction

C.1.1 This section presents the implementation schedule of mitigation measures for the Project. **Table C.1** summarises the details of the recommended mitigation measures for all works areas. For each recommended mitigation measures, both the location and timing for the measure have clearly been identified as well as the parties responsible for implementing the measure and for maintenance (where applicable).

Table C.1 Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
	Air Quality Impact								
	Construction Phase								
Table 3.5	2.4.1	The rock crushing plant is configured as an enclosed system. Dust collector with dust removal efficiency of 99% will be provided at the exhaust of the rock crusher during rock crushing. Watering will be provided to maintain material in wet condition. Vehicles would be required to pass through the wheel washing facilities provided at site exit.	Rock Crushing Plant / Construction Phase	Contractor	√	√		√	Air Pollution Control Ordinance (APCO)
3.8.1	2.4.1	Watering eight times a day on active works areas, exposed areas and unpaved haul roads to reduce dust emission by 87.5%.	All active works areas, exposed areas and unpaved haul roads	Contractor		√		√	APCO

[1] Des = Design; C = Construction; O = Operation; Dec = Decommissioning

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
3.8.1	2.4.1	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices: • Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. • Use of frequent watering for particularly dusty construction areas and areas close to ASRs. • 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. • Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. • Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. • 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	Construction Sites	Contractor		√		√	APCO and Air Pollution Control (Construction Dust) Regulation

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. • 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. • Imposition of speed controls for vehicles on site haul roads. • Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. • Every stock of more than 20 bags of cement or dry PFA should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. • 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.							

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
	Operation Phase								
3.5.2	-	Sludge tanks with totally enclosed design proven by DSD should be deployed for transporting sludge. With thorough cleaning practice and regular condition test of the sludge tanks, odour emission and leachate leakage during storage and transportation are not anticipated.	Cavern Sewage Treatment Works (CSTW) / Operation Phase	Project Proponent / Operator	√		√		-
3.6.2, 3.7.2	2.4.2	All treatment units with potential odour emission will be covered and the exhausted air will be conveyed to the deodouriser (with 80 – 97% odour removal efficiency) for treatment before discharge to the environment.	CSTW / Operation Phase	Design team / Project Proponent / Operator	√		√		-
3.7.2	2.4.2	The following appropriate odour control measures would be implemented. (i) Adopting the advantage of caverns as natural barriers for odour control; (ii) Covering up of odour sources; (iii) Preventing odour leakage through the access tunnels by applying negative pressure inside caverns; (iv) Installing deodourizing units to clean up the collected foul air; (v) Discharging exhausted air at height to further enhance the dilution effect; and (vi) Enhancing the odour management of the sludge transportation.	CSTW / Operation Phase	Design team / Project Proponent / Operator	√		√		-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
3.10.2	2.3.1	Odour monitoring at the inlet and outlet of the deodourizing units is proposed to be conducted for first three years of the operation of CSTW, quarterly in the first year, and once every 6 months in the second and third years if monitoring results remain below the limit levels.	CSTW / Operation Phase	Project Proponent / Operator	√		√		-
3.10.2	2.3.2	An Odour Complaint Registration System is also proposed in the EM&A programme to check whether the deodorizing units can fulfill the recommended odour removal performance.	CSTW / Operation Phase	Operator			√		-
3.10.2	-	Any unexpected leakage from tanks could be observed with monitoring equipment. Monitoring equipment would be installed in the CSTW to monitor the concentration of H_2S, CO and CO_2 and methane. Investigation and repair works would be carried out immediately if abrupt increase of these concentrations are reported. Emergency Plan would be established for these upset conditions.	CSTW / Operation Phase	Project Proponent / Operator	√		√		-
	Noise Impact								
	Construction Phase								
4.5.1.6	-	Re-provision of 220m length noise barrier with 10mPD on temporary access haul road to replace the existing 150m length noise barrier with 9.2mPD to 10mPD on Ma On Sha Road. The	Proposed temporary access / Construction Phase	Contractor		√			Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM), Noise Control Ordinance (NCO)

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		location of the relocated noise barrier is shown in **Figure No. 60334056/EIA/4.02** and **Appendix 4.07**. Once the construction work for the CSTW is completed, the temporary access roads would be demolished and the relevant section of Ma On Shan Road and associated noise barrier would be recovered as before.							
4.8.1	3.8.1	The use of quiet plant associated with the construction works is prescribed in British Standard "Code of practice for noise and vibration control on construction and open sites, BS5228" which contains the SWLs for specific quiet PME.	All Construction Work Sites	Contractor		√		√	EIAO-TM, NCO
4.8.1	3.8.1	To alleviate the construction noise impact on the affected NSRs, movable noise barrier for Air Compressor, Bar Bender and Cutter, Breaker, Chisel, Saw, Compactor, Mixers, Pump, Crane, Desander, Drilling Rig, Dump Truck, Excavator, Generator, Grab, Lorry, Paver, Poker and Roller are proposed.	All Construction Work Sites	Contractor		√		√	EIAO-TM, NCO
4.8.1	3.8.1	Provision of noise barrier/acoustic mats for Drilling Jumbo so as to have screening effecting with 10 dB(A) noise attenuation	Drilling Jumbo operate outside the portal and within 20m inside the portal	Contractor		√			EIAO-TM, NCO
4.8.1	3.8.1	To further alleviate the construction noise impact on the Neighbourhood Advice-Action Council Harmony	Construction Site for access road for	Contractor		√		√	EIAO-TM, NCO

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		Manor, it is proposed to limit the number of on-time operating PMEs within 120m of this NSR during construction of access road.	magazine at A Kung Kok Road						
4.9.1	3.8.1	In addition to the above-mentioned mitigation measures, good site practices listed below shall be adopted by all the contractors to further ameliorate the noise impacts. • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. • Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program. • Mobile plant, if any, should be sited as far away from NSRs as possible. • Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. • Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	All Construction Work Sites	Contractor		√		√	EIAO-TM, NCO

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		• Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.							
	Operation Phase								
4.7.4	3.8.2	The maximum allowable sound power levels for the ventilation shaft, ventilation buildings at main portal and emergency portal, ventilation fan for chiller plant room and cooling tower at the administration building as presented in Table 4.16 of the EIA Report should be achieved such that the nearest affected NSRs can be in compliance with the noise criteria	Ventilation Shaft, Administration Building and Ventilation Buildings/ Operation Phase	Project Proponent	√		√		EIAO-TM, NCO
4.11.2	3.8.2	Prior to the operational phase of the Project, a commissioning test for the ventilation buildings, the ventilation shaft, ventilation fan for chiller plant room at administration building and cooling tower at the administration building would be conducted to ensure compliance with the relevant allowable maximum sound power levels.	Ventilation Shaft, Administration Building and Ventilation Buildings/ Operation Phase	Contractor			√		EIAO-TM, NCO

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
	Water Quality Impact								
	Construction Phase								
5.7.2	4.10	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	Contractor		√			Water Pollution Control Ordinance (WPCO), EIAO-TM
5.7.2	4.10	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	Contractor		√			Professional Persons Environmental Consultative Committee (ProPECC) Practice Note (PN) 1/94, WPCO, Waste Disposal Ordinance (WDO)
5.7.2	4.10	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	Contractor		√			WPCO, EIAO-TM

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
5.7.2	4.10	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.	Construction Sites / Construction Phase	Contractor		√			WPCO, EIAO-TM, ProPECC PN 1/94
5.7.2	4.10	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. 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). The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence which is under the ambit of RO of EPD.	Construction Sites / Construction Phase	Contractor		√			WPCO, EIAO-TM, (TM-DSS)
5.7.2	4.10	Contractor must register as a chemical waste producer if chemical wastes would be produced from the	Construction Sites / Construction Phase	Contractor		√			WPCO, EIAO-TM, WDO

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		construction activities. The Waste Disposal Ordinance (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.							
5.7.2	4.10	Any service shop and maintenance facilities should be located on hard standings within a bonded 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	Contractor		√			WPCO, EIAO-TM
5.7.2	4.10	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance should be followed to avoid leakage or spillage of chemicals.	Construction Sites / Construction Phase	Contractor		√			WPCO, EIAO-TM, WDO
5.7.2	4.10	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	Contractor		√			WPCO, EIAO-TM

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
5.7.2	4.10	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	Contractor		√			WPCO, EIAO-TM
5.7.2	4.10	The practices outlined in 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	Contractor		√			WPCO, EIAO-TM, ETWB TC (Works) No. 5/2005
5.7.2	4.10	Appropriate measures during the construction of the cavern construction should be implemented to minimise the groundwater infiltration.	Construction Sites / Construction Phase	Contractor		√			WPCO, EIAO-TM
5.7.2	4.10	No directly discharge of groundwater from contaminated areas should be adopted. Prior to any excavation works within the potentially contaminated areas at the existing STSTW site, the baseline groundwater quality in these areas should be reviewed based on the relevant SI data and any additional groundwater quality measurements to be performed with reference to *Guidance Note for Contaminated Land Assessment and Remediation* and the review results should be submitted to EPD for examination. If the review results indicated that the groundwater to be generated from the excavation	Construction Sites / Construction Phase	Contractor		√			WPCO, EIAO-TM, Guidance Note for Contaminated Land Assessment and Remediation

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		works would be contaminated, this contaminated groundwater should be either properly treated or properly recharged into the ground in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as TPH) to an undetectable range. All treated effluent from the wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal.							
5.7.2	4.10	If deployment of wastewater treatment is not feasible for handling the contaminated groundwater, groundwater recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in section 2.3 of the TM-DSS. The baseline groundwater quality should be determined prior to the selection of the recharge wells, and submit a working plan to EPD for agreement. Pollution	Construction Sites / Construction Phase	Contractor		√			WPCO, EIAO-TM, TM-DSS

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Groundwater monitoring wells should be installed near the recharge points to monitor the effectiveness of the recharge wells and to ensure that no likelihood of increase of groundwater level and transfer of pollutants beyond the site boundary. Prior to recharge, free products should be removed as necessary by installing the petrol interceptor. The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater recharge operation or discharge of treated groundwater							
5.7.2	4.10	THEES connection works should be synchronized with the THEES maintenance, for a duration not longer than 4 weeks each outside the algae blooming season (January to May) and frequency of THEES maintenance shall be no more than once per year during the construction phase of the Project.	Tolo Harbour / Construction Phase	Project Proponent / Contractor	√	√			EIAO-TM
	Construction and Operation Phases								
5.10.2	4.10	Shutdown of the THEES for maintenance should be shortened as far as possible. It is recommended that the maintenance of the THEES tunnel should be avoided during the algae blooming season (January to May).	Tolo Harbour / Construction and Operation Phase	Project Proponent		√	√		WPCO, EIAO-TM

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
5.10.2	4.10	Relevant government departments including EPD, WSD, AFCD as well as the key stakeholders for mariculture and fisheries in Tolo Harbour should be informed of the maintenance event prior to any discharge.	Tolo Harbour / Construction and Operation Phase	Project Proponent		√	√		WPCO, EIAO-TM
5.10.3	4.2-4.5	An event and action plan and a water quality monitoring programme (as presented in the EM&A Manual) should be implemented for the THEES maintenance discharge	Tolo Harbour / Construction and Operation Phase	Project Proponent		√	√		WPCO, EIAO-TM
5.10.1	4.10	Silt screen may be installed at the flushing water intakes during the THEES maintenance discharge should it appear necessary. Close communication between DSD and WSD should be maintained to minimize any impact on the flushing water intakes due to THEES maintenance discharge.	WSD flushing water intakes / Construction and Operation Phase	WSD / Project Proponent		√	√		WPCO, EIAO-TM
	Design and Operation Phases								
5.8.3	4.6	In case adverse impact on KTN is identified based on the result of the three-month monitoring programme after commissioning of the project, the operation conditions of the treatment and THEES system should be investigated, and corrective and remedial action should be implemented to improve the effluent discharge from the CSTW. Furthermore, DSD should extend the water quality monitoring	Project site / Design and Operation Phases	Project Proponent			√		WPCO, EIAO-TM

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		programme for at least three months or as agreed by the Director of Environmental Protection.							
5.11.2	4.10	Dual power supply or ring main supply from CLP Power Hong Kong Ltd. CLP should be provided for the CSTW to prevent the occurrence of power failure. In addition, standby facilities for the main treatment units and standby equipment parts / accessories should also be provided in order to minimise the chance of emergency discharge. CLP should be consulted in order to ascertain the power supply for normal plant operation within the caverns. It is recommended that government departments including EPD, WSD and AFCD as well as the key stakeholders for mariculture and fisheries in Tolo Harbour should be informed as soon as possible in case of any emergency discharge so that appropriate actions can be taken.	Project site / Design and Operation Phases	Project Proponent	√		√		WPCO, EIAO-TM
5.11.2	4.10	In case of emergency discharge, the plant operators of CSTW should carry out necessary follow-up actions according to the procedures of the current contingency plan formulated for the existing STSTW to minimise the water quality impact.	Project site / Operation Phase	Project Proponent			√		WPCO, EIAO-TM
5.11.2	4.10	WSD may also consider, should it appear necessary, to shut down the Sha Tin seawater pumping station for a short period of time in case of	Sha Tin seawater pumping station / Operation Phase	WSD / Project Proponent			√		WPCO, EIAO-TM

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		emergency discharge in order to minimize any adverse impacts.							
5.13.2	4.10	Best Management Practices to reduce storm water and non-point source pollution are also proposed as follows: <u>Design Measures</u> • Exposed surface shall be avoided within the road and portal sites to minimise soil erosion. The access road and the portal areas shall be either hard paved or covered by landscaping area where appropriate. • Streams near the Project site will be retained to maintain the original flow path. The drainage system will be designed to avoid flooding. • Green areas / planting etc. should be introduced alongside the access road and within the portal areas, as far as possible, to minimise runoff pollution. <u>Devices/ Facilities to Control Pollution</u> • Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening off large substances such as fallen leaves and rubbish should be provided at the inlet of drainage system. • Road gullies with standard design and silt traps should be provided to	Project site / Design and Operation Phase	Project Proponent	√		√		WPCO, ProPECC PN 5/93

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		remove particles present in stormwater runoff, where appropriate. <u>Administrative Measures</u> • Good management measures such as regular cleaning and sweeping of road surface/ open areas are suggested. The road surface/ open area cleaning should also be carried out prior to occurrence rainstorm. • Manholes, as well as stormwater gullies, ditches provided at the Project site should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall.							
	Land Contamination								
6.7.1	-	Further site walkover and/or detailed land contamination assessment will be required for sites that are inaccessible or currently in operation / yet to be constructed (i.e. existing STSTW, David Camp and part of existing Sha Tin VDC, and proposed A Kung Kok Shan Road surface magazine site within the Project boundary). The site walkover, detailed land contamination assessment and if necessary, remediation works should be carried out after decommissioning of the sites	Existing STSTW, David Camp and VDC / Construction Phase	Project Proponent / Contractor		√		√ (for existing STSTW)	Guidance Note for Contaminated Land Assessment and Remediation, Practice Guide for Investigation and Remediation of Contaminated Land, Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		but prior to re-development and should include the following: • Prior to the commencement of the SI works, review the CAP to confirm whether the proposed SI works (e.g. sampling locations, testing parameters etc.) are still valid and to confirm the appropriate RBRGs land use scenario for the development; • Submit supplementary CAP(s), presenting the findings of the above review for EPD endorsement. If land contamination issues were identified within David Camp or part of existing VDC / proposed A Kung Kok Shan Road surface magazine site within the Project boundary in the further site walkover, findings of the site walkover and the proposal for SI works should also be presented in the supplementary CAP(s); • Carry out SI works according to the supplementary CAP endorsed by EPD; • Submit CAR(s), detailing findings of the SI works and nature/extent of any soil/groundwater contamination, and, if contaminated identified, RAP(s), discussing the appropriate remedial methods and mitigation							

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		measures, for the identified contamination, for EPD agreement; and • Carry out soil/groundwater remediation works according to EPD agreed RAP and submit RR(s) afterwards for EPD agreement. The remediation works and agreement of RR should be completed prior to re-development.							
6.7.2	-	If contamination were identified, mitigation measures as recommended in the RAP should be followed and should include the following: • Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety; • 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; • 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	Project Site / Construction Phase	Contractor		√		√ (for existing STS TW)	Guidance Note for Contaminated Land Assessment and Remediation, Practice Guide for Investigation and Remediation of Contaminated Land, Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		usage, regular watering shall be applied. However, watering shall be avoided on stockpiles of contaminated soil to minimise contaminated runoff. • 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; • Speed control for the trucks carrying contaminated materials shall be enforced; • Vehicle wheel and body washing facilities at the site's exist points shall be established and used; and • 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.							

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
	Hazard to Life								
	Construction Phase								
7.14.1	6.2.2	The following recommendations are justified to be implemented to meet the EIAO-TM requirements: • The truck should be designed to minimise the amount of combustible in the cabin. The fuel carried in the fuel tank should also be minimised to reduce the duration of any fire; • The accident involvement frequency of the explosives delivery truck should be minimised through implementation of several administrative measures, such as providing training programme to the driver, regular "tool box" briefing session, implementing a defensive driving attitude, selecting driver with good safety record, and providing regular medical checks for the driver; • Avoidance of returning unused explosives to the magazine, only the required quantity of explosives for a particular blast should be transported; • Maintain a minimum headway of 10 minutes between two	Explosives dlivery route / Construction Phase	Contractor	√	√			EIAO-TM

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		consecutive truck convoys whenever practicable; and • The fire involvement frequency should be minimised by carrying better types of fire extinguishers and with bigger capacity onboard of the explosives delivery truck. Emergency plans and trainings could also be provided to make sure that the fire extinguishers are used adequately.							
7.14.2	6.2.3	The magazine should be designed, built, operated and maintained in accordance with Mines Division's guidelines and appropriate industry best practice. In addition, the following recommendations should be implemented: • The security plan should address different alert security level to reduce opportunity for arson or deliberate initiation of explosives; • Emergency plan should be developed to address uncontrolled fire in magazine area, and drill of the emergency plan should be regularly carried out; • Suitable work control system should be set-up, such as an operational manual including Permit-to-Work system, to ensure that work activities undertaken	Magazine Site/ Construction Phase	Contractor	√	√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		during operation of the magazine are properly controlled; • Good house-keeping within the magazine to ensure no combustible materials are accumulated; • Good house-keeping outside the magazine stores to ensure no combustible materials are accumulated; and • Regular checking of the magazine store to ensure no water seepage through the roof, walls or floor.							
7.14.3	6.2.4	The following recommendations should be implemented: • Emergency plan should be developed to address uncontrolled fire during transport. Case of fire near an explosive delivery truck in jammed traffic should be included in the plan. Activation of fuel and battery isolation switches on vehicle when fire breaks out should also be included in the emergency plan to reduce likelihood of prolonged fire leading to explosion; • Working guideline should be developed to define procedure for explosives transport during adverse weather such as thunderstorm;	To and from Magazine Site / Construction Phase	Contractor	√	√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		• Detonators should be transported separately from other Class 1 explosives. Separation of vehicles should also be maintained through the trip; • Develop procedure to ensure the availability of parking space on site for the explosives delivery truck. Delivery should not be commenced if parking space on site is not secured; • Hot work or other activities should be banned in the vicinity of the explosives offloading or charging activities; • Lining should be provided within the transportation box on the vehicle; • Fire screen should be used between cabin and the load on the vehicle; • Ensure packaging of detonators remains intact until handed over at blasting site; • Ensure that cartridged emulsion packages are not damaged before every trip; and • Use experienced driver with good safety record.							

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
7.14.4	6.2.5	The following recommendations should be implemented for the safe use of explosives: • Blast Charge Weight should be within MIC as specified for the given blast face; • Temporary mitigation measures such as blast doors or heavy duty blast curtains should be installed at the portals or shafts and at suitable locations underground to prevent flyrock and control the air overpressure; • Multiple faces blasting will be carried out for the construction of cavern in this project. Good communication and control will need to be adopted in ensuring that the works are carried out safely; • It is not intended to carry out complete evacuation of the construction areas and secure refuge areas should be identified to workers in the areas; • A Chief Shotfirer and a Blasting Engineer shall be employed in addition to the normal blasting personnel to ensure that the works are safe and coordinated between blasting areas; • Shotfirer to be provided with a lightning detector, and appropriate	CSTW / Construction Phase	Contractor	√	√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		control measures should be in place; • Speed limit for the diesel vehicle truck and bulk emulsion truck in the access tunnel and cavern should be imposed. The truck may be escorted while underground to ensure route is clear from hazards and obstructions; and • Hot work should be suspended during passage of the diesel vehicle truck and bulk emulsion truck in the access tunnel and cavern. • A boulder survey should be undertaken based on the likely PPV values that would result from the blasting process. Those boulders subject to the vibration higher than the allowable limit should be strengthened, removed, or constructed with boulder fence, prior to the commencement of blasting.							
	Operation Phase								
		Nil							

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
	Ecological Impact (Terrestrial and Marine)								
	Construction Phase								
8.8.2	7.2.1	Construction of access roads and other temporary works should be carefully designed (e.g. elevated road for crossing streams) to avoid / minimise habitat loss and fragmentation.	Project site – areas access road / Pre-Construction Phase	Design team / Project Proponent	√				-
8.8.3	7.2.2	Minimise habitat loss to nearby habitats and associated wildlife by implementing the following mitigation measures: - • confining the works within the site boundary; • controlling access of site staff to avoid damage to the vegetation in surrounding areas; and • placement of equipment or stockpile in the existing disturbed / urbanised land within the site boundary of the Project to minimise disturbance to vegetated areas;	Project site / Construction Phase	Contractor		√			-
8.8.3	7.2.2	Reinstatement planting should be implemented upon the completion of construction works to minimise the ecological impact arising from the temporary habitat loss	Project Site (Main Portal Area / Secondary Portal Area / Access Road / Temporary Works Area) /Construction Phase	Project Proponent	√	√		√	

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
8.8.2, 8.8.3 & 8.10	7.2.2	Detailed Vegetation Survey shall be conducted by a suitably qualified botanist / ecologist within the works area requiring vegetation clearance prior to commencement of works to identify plant species of conservation importance. The potentially affected individuals shall be tagged and fenced off for preservation, and in the case of unavoidable loss, for transplantation to nearby suitable habitat(s).	Proposed works areas (Main Portal, Secondary Portal, Access Road) / Pre-Construction Phase	Project Proponent / Qualified botanist or ecologist		√			
8.8.2, 8.8.3 & 8.10	7.3.1	A Protection and Transplantation Proposal including the subsequent monitoring visit for the affected plant species should be prepared and conducted by a suitably qualified local ecologist. The Proposal should be submitted for approval at least one month before works commencement. To review the performance of the transplantation exercise, monitoring of transplanted flora should be conducted monthly after the transplantation throughout the construction phase. The parameters to be monitored should include the health condition and survival rate of the transplanted flora and presence of weedy species. Any observations and recommendations should be reported in monthly EM&A reports	Recipient Site for transplanted species / Construction Phase	Project Proponent / Qualified botanist or ecologist		√			

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
8.8.3	7.2.2	Mitigation measures should be implemented to control runoff from the construction site, as well as the adopting guidelines and good site practices for handling and disposal of construction discharges in order to minimise the potential indirect impact on the streams (particularly S2) resulting from site runoff. Precautionary measures should also be implemented to minimise indirect impacts to the streams, such as isolating the work site by placing sandbags and silt curtains, covering up construction materials, debris and spoil to avoid being washed into the stream, and properly collecting and treating construction effluent and sewage.	Access Road on Nui Po Shan / Construction Phase	Contractor		√			ETWB TCW No. 5/2005
8.8.3	7.2.2	Implement good site practice to further minimise impacts from disturbance such as noise, air quality and water quality issues, such as: - • the use of quiet plant and EPD's QPME and the availability of British Standards 5228 has been considered; • the use of movable noise barrier; • the use of temporary noise screening structures or purpose-built temporary noise barriers;	Project site / Construction Phase	Contractor		√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		• install site hoarding as temporary noise barrier where construction works are undertaken; • only well-maintained plant should be operated on site and plant should be serviced regularly during the construction programme; • Mitigation measures stipulated in the ProPECC PN 1/94 "Construction Site Drainage" should be complied to minimise water quality impact; • Installation of stand-by pump, emergency power supply and telemetry system to avoid sewage overflow and surcharge to sewerage system due to power/equipment failure.							
8.8.3	7.2.2	Minimise groundwater infiltration during cavern construction with the following water control strategies:- • Probing Ahead: As a normal practice, the Contractor will undertake rigorous probing of the ground ahead of excavation works to identify zones of significant water inflow. The probe drilling results will be evaluated to determine specific grouting requirements in line with the tunnel / cavern advance. In such zones of significant water inflow that could occur as a result of discrete, permeable features, the intent	Project site / Construction Phase	Contractor		√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		would be to reduce overall inflow by means of cut-off grouting executed ahead of the tunnel / cavern advance; • Pre-grouting: Where water inflow quantities are excessive, pre-grouting will be required to reduce the water inflow into the tunnel / cavern. The pre-grouting will be achieved via a systematic and carefully specified protocol of grouting; • In principle, the grout pre-treatment would be designed on the basis of probe hole drilling ahead of the tunnel / cavern face; • The installation of waterproof lining would also be adopted after the formation of the tunnels and caverns.							
8.8.3	7.2.2	In the event of excessive infiltration being observed as a result of the tunnelling or excavation works even after incorporation of the water control strategies, post-grouting should be applied as far as practicable as described below: • Post-grouting: Groundwater drawdown will be most likely due to inflows of water into the tunnel / cavern that have not been sufficiently controlled by the pre-grouting measures in high permeability area. Where this	Project site / Construction Phase	Contractor		√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		occurs post grouting will be undertaken before the lining is installed. Whilst unlikely to be required in significant measure, such a contingency should be allowed for reduction in permeability of the tunnel / cavern surround (by grouting) to limit inflow to acceptable levels. The practical groundwater control measures stated above are proven technologies and have been extensively applied in other past projects. These measures or other similar methods, as approved by the Engineer to suit the works condition shall be applied to minimise the groundwater infiltration.							
8.8.3	7.2.2	In case seepage of groundwater occurs, groundwater should be pumped out from works areas and discharged to the storm system via silt trap. Uncontaminated groundwater from dewatering process should also be discharged to the storm system via silt removal facilities.	Project site / Construction Phase	Contractor		√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
8.8.3	7.2.2	Mitigation measures recommended in the water quality impact assessment for controlling water quality impact will also serve to protect marine ecological resources from indirect impacts and ensure no unacceptable impact on marine ecological resources. Relevant government departments including EPD, WSD and AFCD as well as key stakeholders for mariculture and fisheries in Tolo Harbour should be informed of the THEES maintenance / emergency discharge event prior to any discharge. It is recommended that the temporary effluent bypass event and the THEES maintenance period should be shortened as far as possible.	Tolo Harbour / Construction Phase	Contractor and Operator		√			-
	Construction and Operation Phase								
8.8.3	7.2.2	Overall reduction of glare during both construction and operation phase should be considered. A balance between lighting for safety, and avoiding excessive lighting can be achieved through the use of directional lighting to avoid light spill into sensitive areas, and control/timing of lighting periods of some facilities, particularly at the secondary portal which lies approximately 200 m northwest of Ma On Shan Country Park.	Project site / Construction and Operation Phase	Contractor and Operator		√	√		-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
8.8.3	7.2.2	During the decommissioning and demolition of the existing STSTW, the direction and lighting periods should be controlled during ardeid breeding season (March to August) to minimise the potential indirect impact on Penfold Park Egretry and the ardeids flying over the existing STSTW.	Existing STSTW / Decommissioning / March to August	Contractor				√	-
8.10	7.3	It is anticipated that the construction of rock caverns would not have adverse impacts on groundwater in Nui Po Shan. Nonetheless, surface water level or groundwater level near the caverns will be closely monitored during the construction and operation stage.	Project site / Construction and Operation Phase	Contractor and Operator		√	√		-
	Compensatory Planting								
8.8.4& 8.10.1	7.2.3	Compensatory planting would be provided at main and secondary portal areas, and along the access road.	Main portal, secondary portal, and along access road	Project Proponent	√	√			DEVB TC(W) No. 7/2015
8.8.4 & 8.10.1	7.2.3	To facilitate successful planting, a detailed Woodland Compensation Plan should be prepared by local ecologists with at least 10 years relevant experience to form the basis of the proposed compensatory planting. The Woodland Compensation Plan should include implementation details, management requirement, as well as monitoring requirements (e.g. frequency and parameters) of the	Compensatory planting area (Main portal, secondary portal, and along access road) / pre-construction	Project Proponent	√	√			

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		compensatory planting area. Approval of the Plan should be obtained from EPD at least three months before the prior to commencement of compensatory woodland planting.							
8.8.4 & 8.10.1	7.2.3	Upon the completion of planting, monitoring of the woodland compensation areas should be implemented, with maintenance works (e.g. irrigation, weeding, pruning, control of pests and diseases, replacement planting, repair of damage, etc.) conducted as necessary.	Compensatory planting area (Main portal, secondary portal, and along access road) / Operation	Project Proponent / CSTW Operator			√		
	Fisheries Impact								
9.6	8.2	Potential impacts on fisheries resources and fishing operations arising from the Project have been avoided and minimised by construction of a connection pipes to the existing emergency outfall of STSTW by trenchless method underneath Shing Mun River with the least water quality impact. In addition, the temporary effluent bypass event for THEES connection work would be synchronized within regular THEES maintenance. Therefore, additional water quality impact and fisheries impact from changes of water quality have been avoided. Furthermore, the THEES maintenance discharge would avoid the blooming season of algae (i.e. January to May) to minimise the potential water quality impacts. It is	Tolo Harbour /Construction and Operation Phase	Project Proponent / Contractor	√	√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		recommended that any THEES maintenance period should be shortened as far as possible.							
9.6	8.2	Mitigation measures recommended in the water quality impact assessment for controlling water quality impact will also serve to protect fisheries from indirect impacts and ensure no unacceptable impact on fisheries resources and operations. For more detailed mitigation measures regarding water quality refer to Sections 5.7.2 and 5.13.2 of the EIA Report.	Construction and Operation Phase	Contractor and Operator		√	√		-
9.6	8.2	Relevant government departments including EPD, WSD and AFCD as well as key stakeholders for mariculture and fisheries in Tolo Harbour should be informed prior to the THEES maintenance / emergency discharge events.	Tolo Harbour / Construction and Operation Phase	Project Proponent		√	√		
	Landscape and Visual Impact								
Table 10.10	-	CM1 - Preservation of Existing Vegetation	Construction Sites/ Construction Phase	Project Proponent	√	√		√	DEVB TCW No. 7/2015 and latest Guidelines on Tree Preservation during Development issued by GLTM Section of DEVB
Table 10.10	-	CM2 - Transplanting of Affected Trees	Construction Sites/ Construction Phase	Project Proponent	√	√		√	DEVB TCW No. 7/2015 and the latest Guidelines on Tree Transplanting issued by GLTM Section of DEVB

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
Table 10.10	-	CM3 - Compensatory Tree Planting	Construction Sites/ Construction Phase	Project Proponent	√	√		√	DEVB TCW No. 7/2015
Table 10.10	-	CM4 - Control of Night-time Lighting Glare	Construction Sites/ Construction Phase	Project Proponent	√	√		√	
Table 10.10	-	CM5 - Erection of Decorative Screen Hoarding	Construction Sites/ Construction Phase	Project Proponent	√	√		√	
Table 10.10	-	CM6 - Management of Construction Activities and Facilities	Construction Sites/ Construction Phase	Project Proponent	√	√		√	
Table 10.10	-	CM7 - Reinstatement of Temporarily Disturbed Landscape Areas	Construction Sites/ Construction Phase	Project Proponent	√	√		√	
Table 10.11	-	OM1 - Tree and Shrub Planting at the Temporary Project Magazine Site after Completion of Engineering Works	Temporary Project Magazine Site / Operation Phase	Project Proponent	√	√	√		
Table 10.11	-	OM2 - Aesthetically pleasing design of Aboveground Structures	Tunnel Portals, Administration Building, Ventilation Buildings, Electrical Substations and Ventilation Shaft / Operation Phase	Project Proponent	√	√	√		

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
Table 10.11	-	OM3 - Aesthetically pleasing design of Highways Structures	Access Road to Ventilation Shaft / Operation Phase	Highways Department	√	√	√		
Table 10.11	-	OM4 - Reprovision of Cycle Track	Cycle track / Operation Phase	Highways Department	√	√	√		
Table 10.11	-	OM5 - Provision of Green Roof	Administration Building and Ventilation Buildings / Operation Phase	Project Proponent	√	√	√		
Table 10.11	-	OM6 - Provision of Buffer Planting	Main and Secondary Portal Areas / Operation Phase	Project Proponent	√	√	√		
Table 10.11	-	OM7 - Hydroseeding on the disturbed ground surface after demolition works prior to future redevelopment of the existing STSTW	Existing STSTW / Operation Phase	Lands Department (LandsD) or future development agent in existing STSTW	√	√	√		
Table 10.11	-	OM8 - Woodland Mix Planting on Soil Slopes	Soil Slopes / Operation Phase	Project Proponent	√	√	√		

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
	Cultural Heritage Impact								
11.5.1.1	10.1.1	No potential direct or indirect impact to cultural heritage resource is anticipated, and therefore no mitigation measures are required.	N/A	N/A					EIAO EIAO-TM Antiquities and Monuments Ordinance Guidelines for Cultural Heritage Impact Assessment
	Wastes Management Implications								
12.6.2	11.2.2	Appropriate waste handling, transportation and disposal methods for all waste arising generated during the construction works for the Project should be implemented to ensure that construction wastes do not enter the nearby streams or drainage channel. It is anticipated that adverse impacts would not arise on the construction site, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities include: • Nomination of approved personnel, such as a site manager, to be responsible for good site practices, and making arrangements for collection of all wastes generated at the site and effective disposal to an appropriate facility.	Project Site Area / Construction Phase	Contractor		√		√	Waste Disposal Ordinance

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		• Training of site personnel in proper waste management and chemical waste handling procedures. • Provision of sufficient waste reception/ disposal points, of a suitable vermin-proof design that minimises windblown litter. • Arrangement for regular collection of waste for transport off-site and final disposal. • Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. • Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. • A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed. • A Waste Management Plan should be prepared and should be submitted to the Engineer for approval. One may make reference to ETWB TCW No. 19/2005 for details. In order to monitor the disposal of C&D material at landfills and public filling areas, as appropriate, and to control fly tipping, a trip-ticket system should be included as one of the contractual								

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		requirements to be implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. One may make reference to DEVB TCW No.6/2010 for details.							
12.6.3	11.2.3	Good management and control of construction site activities / processes can minimise the generation of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction 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. • 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. • Any unused chemicals or those with remaining functional capacity shall be recycled. • Maximising the use of reusable steel formwork to reduce the amount of C&D material. • Prior to disposal of C&D waste, it is recommended that wood, steel	Project Site Area / Construction Phase	Contractor		√		√	Waste Disposal Ordinance

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill. • On-site crushing and sorting facilities are being considered to reduce the rock size to fulfill the size requirements from relevant waste collection / transfer / disposal facilities; • Adopt proper storage and site practices to minimise the potential for damage to, or contamination of, construction materials. • Plan the delivery and stock of construction materials carefully to minimise the amount of surplus waste generated. • Adopt pre-cast construction method instead of cast-in-situ method for construction of concrete structures as much as possible; and • Minimise over ordering of concrete, mortars and cement grout by doing careful check before ordering. In addition to the above measures, other specific mitigation measures are recommended below to minimise environmental impacts during handling, transportation and disposal of wastes.							

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
12.6.4	11.2.4	Storage of materials on site may induce adverse environmental impacts if not properly managed, 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; • Maintain and clean storage areas routinely; • Stockpiling area should be provided with covers as much as practicable and water spraying system to prevent materials from wind-blown or being washed away; and • Different locations should be designated to stockpile each material to enhance reuse.	Project Site Area / Construction Phase	Contractor		√		√	-
12.6.4	11.2.4	Licensed waste haulers should be employed for the collection and transportation of waste generated. The following measures should be enforced to minimise the potential adverse impacts: • Remove waste in timely manner; • Waste collectors should only collect wastes prescribed by their permits; • Impacts during transportation, such as dust and odour, should be	Project Site Area / Construction Phase	Contractor		√		√	Waste Disposal Ordinance Waste Disposal (Charges for Disposal of Construction Waste) Regulation Land (Miscellaneous Provisions) Ordinance

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		mitigated by the use of covered trucks or in enclosed containers; • Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); • Waste should be disposed of at licensed waste disposal facilities; and • Maintain records of quantities of waste generated, recycled and disposed.							
12.6.4	11.2.4	Land transport will be used for transportation of excavated and stockpile materials. It is expected there will be 1260 vehicles per day for transporting waste during peak construction phase. The tentative transportation routings for the disposal of various types of wastes are shown in Table 12.4. The transportation routing may be changed subject to the traffic conditions. Nevertheless, it is anticipated that there is no adverse impact from the waste during transportation with the implementation of appropriated measures (e.g. using water-tight containers and covered trucks).	Transportation Route of Waste / Construction Phase	Contractor		√			-

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
12.6.4	11.2.4	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. Close-circuited television should be installed at the vehicular entrance and exit of the site as additional measures to prevent fly-tipping.	Project Site Area / Construction Phase	Contractor		√		√	DEVB TCW No. 6/2010
12.6.4	11.2.5	In addition to the above general measures, other specific mitigation measures on handling the C&D materials and materials generated from site formation and demolition work are recommended below, which should form the basis of the WMP to be prepared by the contractor(s) in construction phase.	Project Site Area / Construction Phase	Contractor		√		√	Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site
12.6.5	11.2.5	In order to minimise the impact resulting from collection and transportation of C&D materials for off-site disposal, the excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below:	Project Site Area / Construction Phase	Contractor		√		√	Waste Disposal Ordinance ETWB TCW No.19/2005 DEVB TCW No. 6/2010

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		• A WMP, which becomes part of the EMP, should be prepared in accordance with ETWB TCW No.19/2005; • A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and • 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 No. 6/2010). It is recommended that specific areas should be provided by the Contractors for sorting and to provide temporary storage areas (if required) for the sorted materials.							
12.6.5	11.2.5	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	Project Site Area / Construction Phase	Contractor		√			ETWB TCW No.19/2005

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		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.							
12.6.5	11.2.5	All surplus C&D materials arising from or in connection with construction works should become the property of the Contractor when it is removed unless otherwise stated. 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.	Project Site Area / Construction Phase	Contractor		√		√	-
12.6.6	11.2.6	The practices of good housekeeping for CSTW listed below should be followed to ameliorate any odour impact from handling, collection, transportation and disposal of sludge:	Operation Phases	Operator			√		Waste Disposal Ordinance

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		• Screens should be cleaned regularly to remove any accumulated organic debris • Grit and screening transfer systems should be flushed regularly with water to remove organic debris and grit • Grit and screened materials should be transferred to closed containers • Scum and grease collection wells and troughs should be emptied and flushed regularly to prevent putrefaction of accumulated organics • Skim and remove floating solids and grease from primary clarifiers regularly • Frequent sludge withdrawal from tanks is necessary to prevent the production of gases • Sludge should be transported to the STF by water-tight containers to avoid Hydrogen Sulphide (H_2S)/odour emission and ingress of water into the containers which would lower the sludge dryness during transportation • Sludge cake should be transferred to closed containers • Sludge containers should be flushed with water regularly							

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		• Sludge trucks and containers should be washed thoroughly before leaving the CSTW to avoid any odour nuisance during transportation							
12.6.6	11.2.6	In addition, all wastewater generated from the sludge dewatering process and all contaminated water from the cleaning operations recommended for odour control will be diverted to the relocated STSTW for proper treatment.	Operation Phases	Operator			√		Waste Disposal Ordinance
12.6.7	11.2.7	If chemical wastes are produced at the construction site or during operation, the Contractor during construction or the operator during operation will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes 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, oxidising, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to the licensed Chemical Waste Treatment Centre, or other	Construction and Operation Phases	Contractor / Operator		√	√		Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location / Duration of Measures / Timing of Completion of Measures	Implementation Agent	Implementation Stage [1]				Relevant Legislation & Guidelines
					Des	C	O	Dec	
		licensed facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.							
12.6.8	11.2.8	Recycling of waste paper, aluminium cans and plastic bottles should be encouraged, it is recommended to place clearly labelled recycling bins at designated locations which could be accessed conveniently. Other general refuse should be separated from chemical and industrial waste by providing separated bins for storage to maximise the recyclable volume.	Construction and Operation Phases	Contractor / Operator		√	√		Public Health and Municipal Services Ordinance (Cap.132)
12.6.8	11.2.8	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	Contractor / Operator		√	√		Public Health and Municipal Services Ordinance (Cap. 132)
	Health Impact								
-	-	Not applicable.							

Appendix 4.1

Action and Limit Level

Action and Limit Level for Noise Monitoring

Monitoring Station	Action Level	Limit Level (dB(A))		
		0700-1900 hrs on normal weekdays	0700-2300 hrs on holidays (including Sundays); and 1900-2300 hrs on all days [2]	2300-0700 hrs of all days [2]
CM1	When one documented complaint is received	65 / 70 [1]	60 / 65 / 70 [3]	45 / 50 / 55 [3]
CM2(B)		65 / 70 [1]		
CM3		65 / 70 [1]		
CM4		75		
CM5		75		

Remark 1: Limit level of CM1, CM2(B), CM3 and DM3 reduce to 65 dB (A) during examination periods if any.

Remark 2: Construction noise during restricted hours is under the control of Noise Control Ordinance Limit Level to be selected based on Area Sensitivity Rating.

Remark 3: Limit Level for restricted hour monitoring shall act as reference level only. Investigation would be conducted on CNP compliance if exceedance recorded during restricted hour noise monitoring period.

Action and Limit Level for Air Quality Monitoring

Monitoring Locations	1-hour TSP Level in mg/m³	
	Action Level	Limit Level
AM1	294	500
AM2	325	500
AM3(B)	360	500
AM4	297	500
AM5	349	500
ASR51	310	500

Appendix 4.2

Air Quality Monitoring Results and Graphical Presentations

AM1 - Ah Kung Kok Fishermen Village
Action Level (μg/m^3) - 294,
Limit Level (μg/m^3) - 500

Date	Weather Condition	Time	Mass Concentration (μg/m^3)
01/12/2023	Fine	15:02	56
01/12/2023	Fine	16:02	52
01/12/2023	Fine	17:02	50
07/12/2023	Fine	15:02	48
07/12/2023	Fine	16:02	50
07/12/2023	Fine	17:02	54
13/12/2023	Fine	15:01	61
13/12/2023	Fine	16:01	58
13/12/2023	Fine	17:01	58
19/12/2023	Fine	15:02	65
19/12/2023	Fine	16:02	61
19/12/2023	Fine	17:02	61
23/12/2023	Fine	15:02	43
23/12/2023	Fine	16:02	48
23/12/2023	Fine	17:02	54
29/12/2023	Fine	15:01	54
29/12/2023	Fine	16:01	54
29/12/2023	Fine	17:01	50
04/01/2024	Fine	15:06	50
04/01/2024	Fine	16:06	63
04/01/2024	Fine	17:06	71
10/01/2024	Fine	15:00	45
10/01/2024	Fine	16:00	52
10/01/2024	Fine	17:00	74
16/01/2024	Fine	15:00	43
16/01/2024	Fine	16:00	50
16/01/2024	Fine	17:00	50
22/01/2024	Fine	15:00	45
22/01/2024	Fine	16:00	54
22/01/2024	Fine	17:00	52
27/01/2024	Fine	15:02	50
27/01/2024	Fine	16:02	50
27/01/2024	Fine	17:02	54
02/02/2024	Fine	15:00	50
02/02/2024	Fine	16:00	52
02/02/2024	Fine	17:00	58
08/02/2024	Cloudy	15:09	45
08/02/2024	Cloudy	16:09	52
08/02/2024	Cloudy	17:09	48
14/02/2024	Fine	15:03	54
14/02/2024	Fine	16:03	58
14/02/2024	Fine	17:03	63
20/02/2024	Fine	15:00	58
20/02/2024	Fine	16:00	48
20/02/2024	Fine	17:00	61
26/02/2024	Fine	15:20	78
26/02/2024	Fine	16:20	69
26/02/2024	Fine	17:20	67

AM2 - Block H, Kam Tai Court
Action Level (μg/m^3) - 325,
Limit Level (μg/m^3) - 500

Date	Weather Condition	Time	Mass Concentration (μg/m^3)
01/12/2023	Fine	13:22	33
01/12/2023	Fine	14:22	29
01/12/2023	Fine	15:22	25
07/12/2023	Fine	13:26	47
07/12/2023	Fine	14:26	49
07/12/2023	Fine	15:26	49
13/12/2023	Fine	13:29	53
13/12/2023	Fine	14:29	56
13/12/2023	Fine	15:29	58
19/12/2023	Fine	13:31	45
19/12/2023	Fine	14:31	43
19/12/2023	Fine	15:31	47
23/12/2023	Fine	13:17	49
23/12/2023	Fine	14:17	53
23/12/2023	Fine	15:17	53
29/12/2023	Fine	13:09	58
29/12/2023	Fine	14:09	56
29/12/2023	Fine	15:09	56
04/01/2024	Fine	13:34	41
04/01/2024	Fine	14:34	53
04/01/2024	Fine	15:34	58
10/01/2024	Fine	13:37	47
10/01/2024	Fine	14:37	49
10/01/2024	Fine	15:37	53
16/01/2024	Fine	13:37	51
16/01/2024	Fine	14:37	51
16/01/2024	Fine	15:37	56
22/01/2024	Fine	13:39	41
22/01/2024	Fine	14:39	45
22/01/2024	Fine	15:39	45
27/01/2024	Fine	13:39	53
27/01/2024	Fine	14:39	49
27/01/2024	Fine	15:39	43
02/02/2024	Fine	9:39	35
02/02/2024	Fine	10:39	29
02/02/2024	Fine	11:39	39
08/02/2024	Cloudy	15:09	45
08/02/2024	Cloudy	16:09	52
08/02/2024	Cloudy	17:09	48
14/02/2024	Fine	10:44	45
14/02/2024	Fine	11:44	51
14/02/2024	Fine	12:44	51
20/02/2024	Fine	10:05	35
20/02/2024	Fine	11:05	27
20/02/2024	Fine	12:05	25
26/02/2024	Fine	9:45	39
26/02/2024	Fine	10:45	33
26/02/2024	Fine	11:45	43

AM3(B) - Outside A Kung Kok Street Garden
Action Level (μg/m^3) - 360
Limit Level (μg/m^3) - 500

Date	Weather Condition	Time	Mass Concentration (μg/m^3)
01/12/2023	Fine	9:32	37
01/12/2023	Fine	10:32	33
01/12/2023	Fine	11:32	29
07/12/2023	Fine	9:19	35
07/12/2023	Fine	10:19	31
07/12/2023	Fine	11:19	35
13/12/2023	Fine	9:22	29
13/12/2023	Fine	10:22	33
13/12/2023	Fine	11:22	29
19/12/2023	Fine	9:22	31
19/12/2023	Fine	10:22	37
19/12/2023	Fine	11:22	39
23/12/2023	Fine	9:22	35
23/12/2023	Fine	10:22	31
23/12/2023	Fine	11:22	31
29/12/2023	Fine	9:31	29
29/12/2023	Fine	10:31	35
29/12/2023	Fine	11:31	37
04/01/2024	Fine	9:39	39
04/01/2024	Fine	10:39	45
04/01/2024	Fine	11:39	49
10/01/2024	Fine	9:44	35
10/01/2024	Fine	10:44	41
10/01/2024	Fine	11:44	37
16/01/2024	Fine	9:46	33
16/01/2024	Fine	10:46	37
16/01/2024	Fine	11:46	39
22/01/2024	Fine	9:49	37
22/01/2024	Fine	10:49	39
22/01/2024	Fine	11:49	41
27/01/2024	Fine	9:31	33
27/01/2024	Fine	10:31	29
27/01/2024	Fine	11:31	39
02/02/2024	Fine	10:00	28
02/02/2024	Fine	11:00	32
02/02/2024	Fine	12:00	36
08/02/2024	Cloudy	9:39	31
08/02/2024	Cloudy	10:39	39
08/02/2024	Cloudy	11:39	37
14/02/2024	Fine	9:34	25
14/02/2024	Fine	10:34	31
14/02/2024	Fine	11:34	31
20/02/2024	Fine	10:00	15
20/02/2024	Fine	11:00	17
20/02/2024	Fine	12:00	19
26/02/2024	Fine	10:20	23
26/02/2024	Fine	11:20	19
26/02/2024	Fine	12:20	19

AM4 - Wellborn Kindergarten
Action Level (μg/m^3) - 297
Limit Level (μg/m^3) - 500

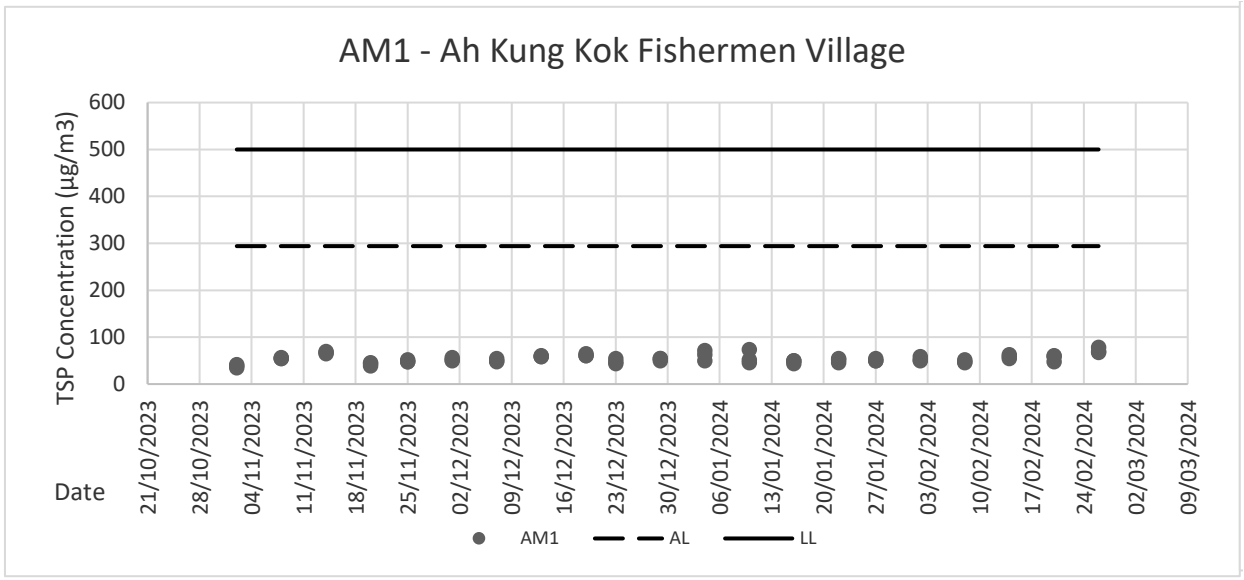
Date	Weather Condition	Time	Mass Concentration (μg/m^3)
01/12/2023	Fine	9:50	52
01/12/2023	Fine	10:50	56
01/12/2023	Fine	11:50	41
07/12/2023	Fine	9:58	43
07/12/2023	Fine	10:58	48
07/12/2023	Fine	11:58	50
13/12/2023	Fine	9:53	48
13/12/2023	Fine	10:53	54
13/12/2023	Fine	11:53	56
19/12/2023	Fine	9:57	56
19/12/2023	Fine	10:57	56
19/12/2023	Fine	11:57	52
23/12/2023	Fine	11:40	61
23/12/2023	Fine	12:40	54
23/12/2023	Fine	13:40	54
29/12/2023	Fine	9:51	43
29/12/2023	Fine	10:51	52
29/12/2023	Fine	11:51	50
04/01/2024	Fine	9:54	48
04/01/2024	Fine	10:54	52
04/01/2024	Fine	11:54	56
10/01/2024	Fine	9:58	43
10/01/2024	Fine	10:58	50
10/01/2024	Fine	11:58	54
16/01/2024	Fine	9:54	45
16/01/2024	Fine	10:54	48
16/01/2024	Fine	11:54	48
22/01/2024	Fine	9:57	50
22/01/2024	Fine	10:57	52
22/01/2024	Fine	11:57	56
27/01/2024	Fine	9:58	43
27/01/2024	Fine	10:58	39
27/01/2024	Fine	11:58	39
02/02/2024	Fine	13:40	30
02/02/2024	Fine	14:40	28
02/02/2024	Fine	15:40	42
08/02/2024	Cloudy	10:09	52
08/02/2024	Cloudy	11:09	43
08/02/2024	Cloudy	12:09	54
14/02/2024	Fine	10:02	48
14/02/2024	Fine	11:02	37
14/02/2024	Fine	12:02	41
20/02/2024	Fine	13:00	17
20/02/2024	Fine	14:00	15
20/02/2024	Fine	15:00	17
26/02/2024	Fine	13:00	26
26/02/2024	Fine	14:00	21
26/02/2024	Fine	15:00	27

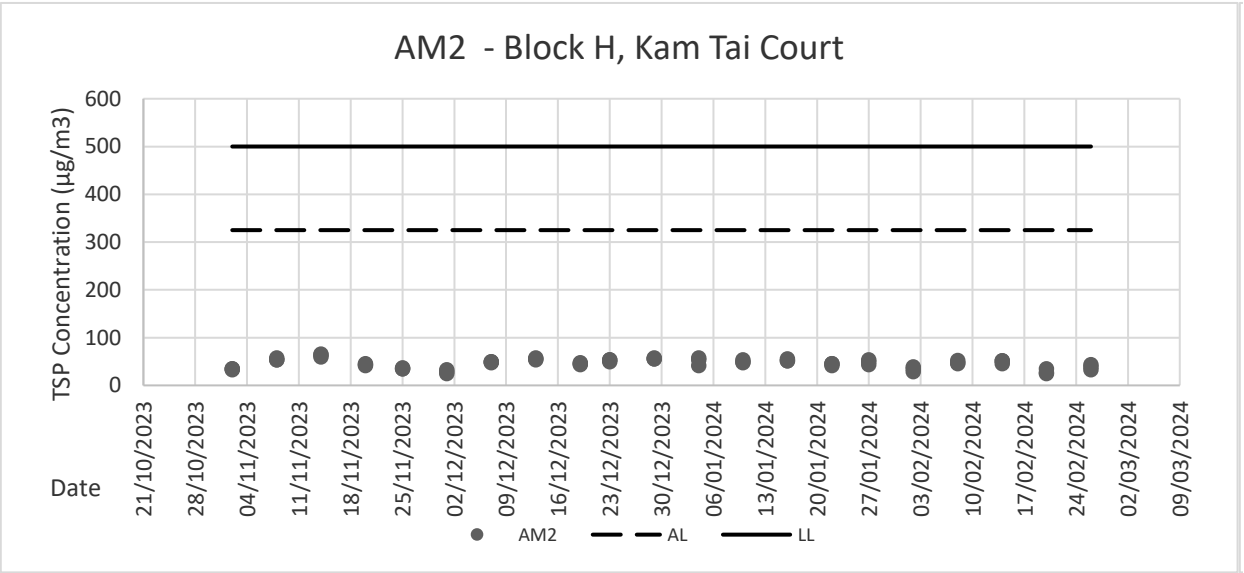
AM5 - The NAAC Harmony Manor
Action Level (μg/m^3) - 349
Limit Level (μg/m^3) - 500

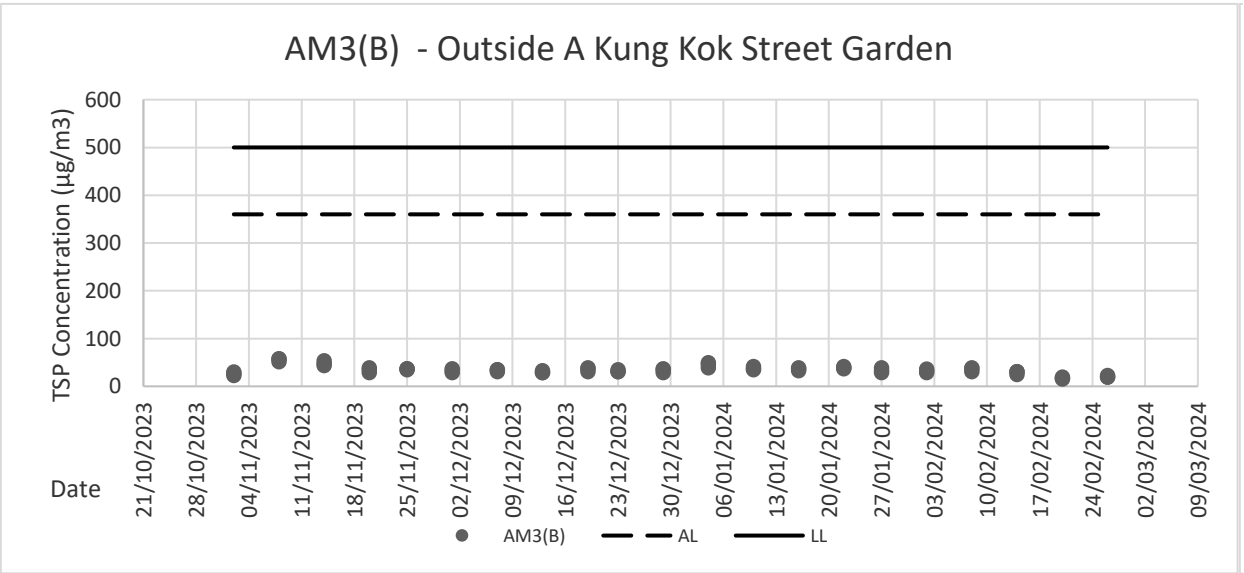
Date	Weather Condition	Time	Mass Concentration (μg/m^3)
01/12/2023	Fine	8:37	27
01/12/2023	Fine	9:37	36
01/12/2023	Fine	10:37	32
07/12/2023	Fine	8:31	30
07/12/2023	Fine	9:31	34
07/12/2023	Fine	10:31	28
13/12/2023	Fine	8:31	34
13/12/2023	Fine	9:31	28
13/12/2023	Fine	10:31	27
19/12/2023	Fine	8:28	32
19/12/2023	Fine	9:28	38
19/12/2023	Fine	10:28	40
23/12/2023	Fine	10:28	42
23/12/2023	Fine	11:28	40
23/12/2023	Fine	12:28	36
29/12/2023	Fine	8:35	45
29/12/2023	Fine	9:35	44
29/12/2023	Fine	10:35	40
04/01/2024	Fine	8:23	45
04/01/2024	Fine	9:23	40
04/01/2024	Fine	10:23	44
10/01/2024	Fine	8:25	38
10/01/2024	Fine	9:25	34
10/01/2024	Fine	10:25	32
16/01/2024	Fine	8:24	42
16/01/2024	Fine	9:24	45
16/01/2024	Fine	10:24	44
22/01/2024	Fine	8:20	32
22/01/2024	Fine	9:20	27
22/01/2024	Fine	10:20	28
27/01/2024	Fine	8:18	23
27/01/2024	Fine	9:18	28
27/01/2024	Fine	10:18	30
02/02/2024	Fine	8:12	39
02/02/2024	Fine	9:12	35
02/02/2024	Fine	10:12	35
08/02/2024	Cloudy	8:20	42
08/02/2024	Cloudy	9:20	32
08/02/2024	Cloudy	10:20	28
14/02/2024	Fine	8:16	30
14/02/2024	Fine	9:16	34
14/02/2024	Fine	10:16	36
20/02/2024	Fine	8:47	32
20/02/2024	Fine	9:47	22
20/02/2024	Fine	10:47	30
26/02/2024	Fine	8:58	39
26/02/2024	Fine	9:58	41
26/02/2024	Fine	10:58	30

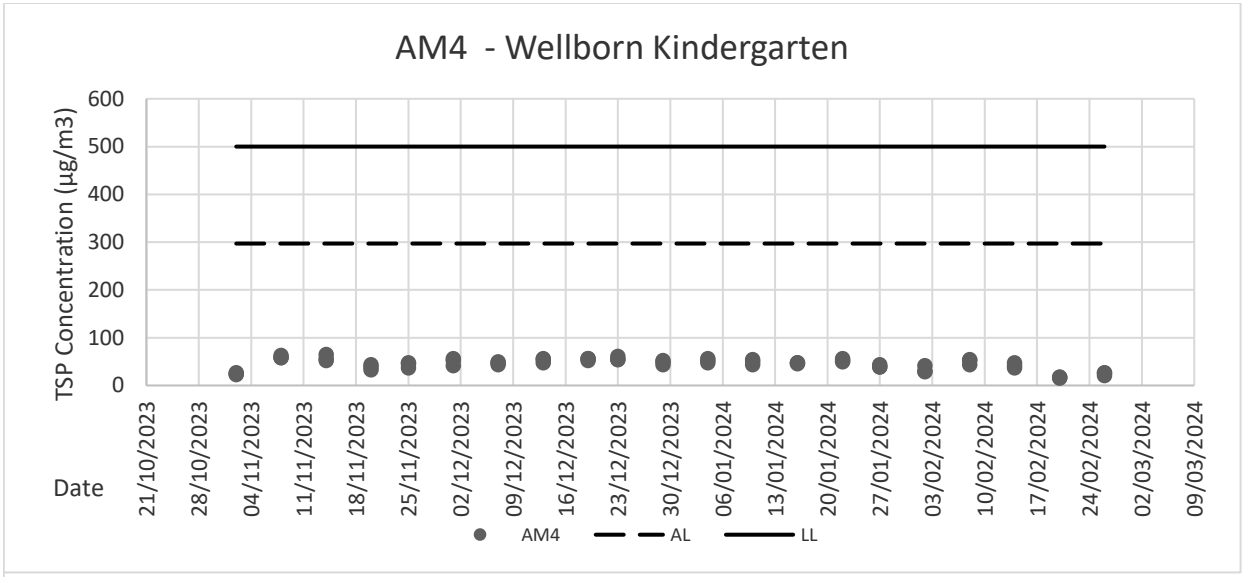
ASR51 - The Hong Kong Yaumati Ferry Company Ltd. Administrative Building
Action Level (μg/m^3) - 310
Limit Level (μg/m^3) - 500

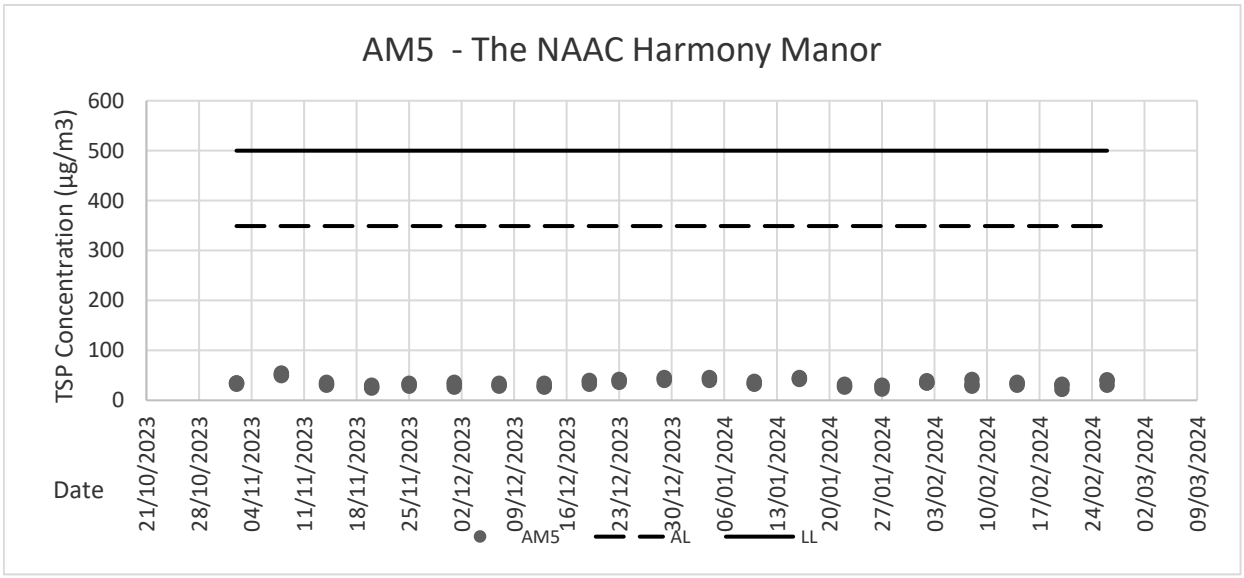
Date	Weather Condition	Time	Mass Concentration (μg/m^3)
01/12/2023	Fine	9:45	68
01/12/2023	Fine	10:45	70
01/12/2023	Fine	11:45	62
07/12/2023	Fine	9:30	66
07/12/2023	Fine	10:30	72
07/12/2023	Fine	11:30	70
13/12/2023	Fine	9:13	68
13/12/2023	Fine	10:13	66
13/12/2023	Fine	11:13	68
19/12/2023	Fine	10:00	60
19/12/2023	Fine	11:00	64
19/12/2023	Fine	12:00	66
23/12/2023	Fine	8:20	60
23/12/2023	Fine	9:20	64
23/12/2023	Fine	10:20	64
29/12/2023	Fine	10:12	86
29/12/2023	Fine	11:12	94
29/12/2023	Fine	12:12	76
04/01/2024	Fine	8:32	72
04/01/2024	Fine	9:32	86
04/01/2024	Fine	10:32	78
10/01/2024	Fine	10:00	76
10/01/2024	Fine	11:00	58
10/01/2024	Fine	12:00	70
16/01/2024	Fine	9:15	66
16/01/2024	Fine	10:15	72
16/01/2024	Fine	11:15	64
22/01/2024	Fine	10:00	44
22/01/2024	Fine	11:00	56
22/01/2024	Fine	12:00	60
27/01/2024	Fine	8:52	62
27/01/2024	Fine	9:52	72
27/01/2024	Fine	10:52	74
02/02/2024	Fine	8:57	52
02/02/2024	Fine	9:57	60
02/02/2024	Fine	10:57	66
08/02/2024	Fine	9:00	46
08/02/2024	Fine	10:00	54
08/02/2024	Fine	11:00	52
14/02/2024	Fine	8:50	42
14/02/2024	Fine	9:50	52
14/02/2024	Fine	10:50	48
20/02/2024	Fine	9:30	64
20/02/2024	Fine	10:30	68
20/02/2024	Fine	11:30	68
26/02/2024	Fine	9:00	68
26/02/2024	Fine	10:00	64
26/02/2024	Fine	11:00	70

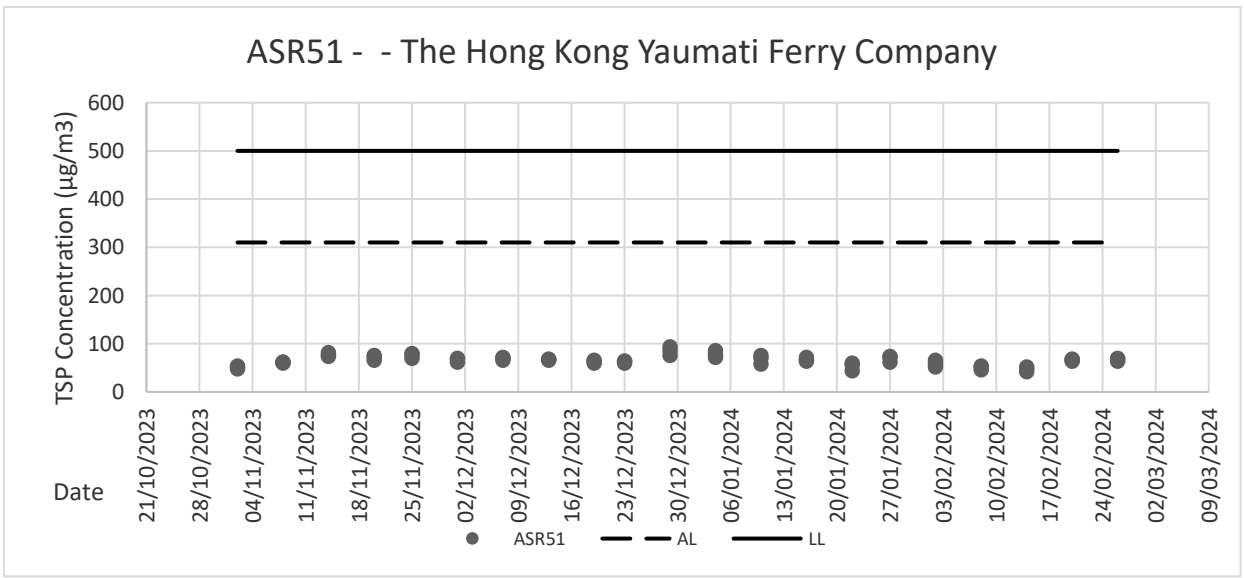

AM1 - Ah Kung Kok Fishermen Village
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
Date
21/10/2023
28/10/2023
04/11/2023
11/11/2023
18/11/2023
25/11/2023
02/12/2023
09/12/2023
16/12/2023
23/12/2023
30/12/2023
06/01/2024
13/01/2024
20/01/2024
27/01/2024
03/02/2024
10/02/2024
17/02/2024
24/02/2024
02/03/2024
09/03/2024
AM1
AL
LL


AM2 - Block H, Kam Tai Court
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
Date
21/10/2023
28/10/2023
04/11/2023
11/11/2023
18/11/2023
25/11/2023
02/12/2023
09/12/2023
16/12/2023
23/12/2023
30/12/2023
06/01/2024
13/01/2024
20/01/2024
27/01/2024
03/02/2024
10/02/2024
17/02/2024
24/02/2024
02/03/2024
09/03/2024
AM2
AL
LL


AM3(B) - Outside A Kung Kok Street Garden
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
Date
21/10/2023
28/10/2023
04/11/2023
11/11/2023
18/11/2023
25/11/2023
02/12/2023
09/12/2023
16/12/2023
23/12/2023
30/12/2023
06/01/2024
13/01/2024
20/01/2024
27/01/2024
03/02/2024
10/02/2024
17/02/2024
24/02/2024
02/03/2024
09/03/2024
AM3(B)
AL
LL


AM4 - Wellborn Kindergarten
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
Date
21/10/2023
28/10/2023
04/11/2023
11/11/2023
18/11/2023
25/11/2023
02/12/2023
09/12/2023
16/12/2023
23/12/2023
30/12/2023
06/01/2024
13/01/2024
20/01/2024
27/01/2024
03/02/2024
10/02/2024
17/02/2024
24/02/2024
02/03/2024
09/03/2024
AM4
AL
LL


AM5 - The NAAC Harmony Manor
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
Date
21/10/2023
28/10/2023
04/11/2023
11/11/2023
18/11/2023
25/11/2023
02/12/2023
09/12/2023
16/12/2023
23/12/2023
30/12/2023
06/01/2024
13/01/2024
20/01/2024
27/01/2024
03/02/2024
10/02/2024
17/02/2024
24/02/2024
02/03/2024
09/03/2024
AM5
AL
LL


ASR51 - - The Hong Kong Yaumati Ferry Company
TSP Concentration (µg/m3)
600
500
400
300
200
100
0
Date
21/10/2023
28/10/2023
04/11/2023
11/11/2023
18/11/2023
25/11/2023
02/12/2023
09/12/2023
16/12/2023
23/12/2023
30/12/2023
06/01/2024
13/01/2024
20/01/2024
27/01/2024
03/02/2024
10/02/2024
17/02/2024
24/02/2024
02/03/2024
09/03/2024
ASR51
AL
LL

Appendix 4.3

Noise Monitoring Results and Graphical Presentations

Day Time (0700 - 1900hrs on normal weekdays)

CM1 - G/F, Wellborn Kindergarten

Date	Weather	Wind Speed (m/s)	Start Time	Noise Monitoring (30min)			Limit Level
				Leq dB(A)[2]	L90 dB(A)	L10 dB(A)	Leq[1]
01-12-2023	Fine	0.5	9:39	55.6	50.0	53.5	70
07-12-2023	Fine	0.5	9:20	54.7	50.5	53.0	70
13-12-2023	Fine	0.6	9:26	55.4	51.0	53.5	70
19-12-2023	Fine	0.5	9:30	54.7	50.0	52.5	70
29-12-2023	Fine	0.4	9:36	55.7	51.0	53.5	70
04-01-2024	Fine	0.6	9:32	54.6	50.5	52.5	70
10-01-2024	Fine	0.4	9:34	53.8	49.0	52.5	70
16-01-2024	Fine	0.5	9:32	54.6	49.5	53.0	70
22-01-2024	Fine	0.5	9:38	57.1	52.5	55.0	70
02-02-2024	Fine	0.8	13:42	58.8	52.0	57.5	70
08/02/2024	Cloudy	0.5	9:42	56.9	50.0	55.0	70
14/02/2024	Fine	0.6	9:36	56.1	50.5	54.5	70
20/02/2024	Fine	0.5	10:00	63.2	57.5	62.0	70
26/02/2024	Fine	0.4	10:21	65.4	61.0	64.0	70

CM2(B) - G/F, Outside A Kung Kok Street Garden

Date	Weather	Wind Speed (m/s)	Start Time	Noise Monitoring (30min)			Limit Level
				Leq dB(A)[2]	L90 dB(A)	L10 dB(A)	Leq[1]
01-12-2023	Fine	0.5	10:21	62.1	57.5	61.5	70
07-12-2023	Fine	0.6	10:04	61.4	56.0	60.0	70
13-12-2023	Fine	0.7	10:09	62.6	57.5	61.0	70
19-12-2023	Fine	0.5	10:14	63.3	58.0	62.0	70
29-12-2023	Fine	0.6	10:25	65.6	60.5	64.0	70
04-01-2024	Fine	0.5	10:12	62.2	58.0	61.5	70
10-01-2024	Fine	0.6	10:20	61.6	56.5	60.5	65
16-01-2024	Fine	0.6	10:23	62.4	56.0	61.0	65
22-01-2024	Fine	0.6	10:27	63.3	58.0	62.0	70
02-02-2024	Fine	0.5	13:00	59.4	52.0	58.5	65
08/02/2024	Cloudy	0.6	10:34	67.4	62.0	66.0	70
14/02/2024	Fine	0.7	10:27	67.7	62.5	66.0	70
20/02/2024	Fine	0.5	13:00	62.3	56.5	60.0	70
26/02/2024	Fine	0.4	13:00	61.7	56.0	62.0	70

CM3 - R/F, S.K.H. Ma On Shan Holy Spirit Primary School

Date	Weather	Wind Speed (m/s)	Start Time	Noise Monitoring (30min)			Limit Level
				Leq dB(A)[2]	L90 dB(A)	L10 dB(A)	Leq[1]
01-12-2023	Fine	0.6	13:52	64.7	62.5	66.0	70
07-12-2023	Fine	0.7	13:46	66.2	64.0	68.0	70
13-12-2023	Fine	0.7	13:41	65.4	63.5	67.5	70
19-12-2023	Fine	0.7	13:41	66.7	64.0	68.5	70
29-12-2023	Fine	0.7	13:44	66.4	62.5	67.5	70
04-01-2024	Fine	0.5	13:38	64.2	62.5	66.5	70
10-01-2024	Fine	0.6	13:44	64.7	63.5	68.0	70
16-01-2024	Fine	0.6	13:46	64.2	62.0	68.5	70
22-01-2024	Fine	0.6	13:50	64.9	62.5	66.0	70
02-02-2024	Fine	0.6	13:28	66.2	64.0	68.0	70
08/02/2024	Cloudy	0.8	14:03	66.2	64.5	68.0	70
14/02/2024	Fine	0.5	13:52	67.6	65.0	68.5	70
20/02/2024	Fine	0.5	10:27	63.0	60.5	65.0	70
26/02/2024	Fine	0.8	9:59	64.8	62.0	66.5	70

CM4 - G/F, Ah Kung Kok Fishermen Village

Date	Weather	Wind Speed (m/s)	Start Time	Noise Monitoring (30min)			Limit Level
				Leq dB(A)[2]	L90 dB(A)	L10 dB(A)	Leq[1]
01-12-2023	Fine	0.5	13:00	59.9	56.6	62.2	75
07-12-2023	Fine	0.5	13:02	59.0	56.2	60.8	75
13-12-2023	Fine	0.7	15:02	57.0	54.4	59.1	75
19-12-2023	Fine	0.6	16:04	61.1	58.7	62.7	75
29-12-2023	Fine	0.5	15:00	58.1	55.2	60.0	75
04-01-2024	Fine	0.5	17:04	59.1	54.7	62.2	75
10-01-2024	Fine	0.5	16:01	57.9	55.4	59.5	75
16-01-2024	Fine	0.5	15:00	61.7	58.0	65.3	75
22-01-2024	Fine	0.5	15:00	59.4	57.0	60.8	75
02-02-2024	Fine	0.5	10:00	57.2	55.0	58.8	75
08/02/2024	Cloudy	0.6	14:00	60.6	58.2	62.1	75
14/02/2024	Fine	0.5	16:06	56.1	52.3	58.3	75
20/02/2024	Fine	0.5	16:00	54.6	52.3	56.4	75
26/02/2024	Fine	0.7	13:30	59.7	57.2	61.7	75

CM5 - R/F, The Neighbourhood Advice-Action Council Harmony Manor

Date	Weather	Wind Speed (m/s)	Start Time	Noise Monitoring (30min)			Limit Level
				Leq dB(A)[2]	L90 dB(A)	L10 dB(A)	Leq[1]
01/12/2023	Fine	0.5	8:39	54.7	52.5	56.0	75
07/12/2023	Fine	0.5	8:32	56.4	53.0	58.0	75
13/12/2023	Fine	0.8	8:28	55.4	52.5	57.0	75
19/12/2023	Fine	0.7	8:26	53.2	51.5	55.0	75
29/12/2023	Fine	0.6	8:22	54.7	52.0	56.0	75
04/01/2024	Fine	0.4	8:18	53.7	51.5	55.0	75
10/01/2024	Fine	0.5	8:22	54.6	52.0	56.0	75
16/01/2024	Fine	0.4	8:24	53.7	51.5	54.5	75
22/01/2024	Fine	0.4	8:21	54.3	52.5	56.0	75
02/02/2024	Fine	0.5	8:26	53.8	52.0	55.5	75
08/02/2024	Cloudy	0.5	8:22	55.7	52.5	57.0	75
14/02/2024	Fine	0.3	8:17	55.2	53.0	56.5	75
20/02/2024	Fine	0.2	8:52	51.8	49.5	53.0	75
26/02/2024	Fine	0.6	9:00	50.4	49.0	54.0	75

Remarks:

1) *Limit level was adjusted to 65dB(A) during examination period.*
2) *Noise results were calculated by +3 dB (A) correction for free-field measurement.*

Evening Time (1900 - 2300hrs)

CM4 - G/F, Ah Kung Kok Fishermen Village

Date	Weather	Start Time(1)	Mean Noise Level(1)	Baseline Level Range (mean level)	Construction Noise Level (Baseline correction)	Major Construction Noise Source(s)	Other Noise Source(s)	Limit Level
			Leq (5min) in dB(A)					dB(A)
01-12-2023	Fine	19:02	55.8	53.5-70.9 (mean:56.7)	<Baseline Level	nil.	Traffic	70
07-12-2023	Fine	19:02	58.1	53.5-70.9 (mean:56.7)	52.4	nil.	Traffic	70
13-12-2023	Fine	19:02	55.8	53.5-70.9 (mean:56.7)	<Baseline Level	nil.	Traffic	70
19-12-2023	Fine	19:04	58.6	53.5-70.9 (mean:56.7)	54.2	nil.	Traffic	70
29-12-2023	Fine	19:00	55.9	53.5-70.9 (mean:56.7)	<Baseline Level	nil.	Traffic	70
04-01-2024	Fine	19:04	56.0	53.5-70.9 (mean:56.7)	<Baseline Level	nil.	Traffic	70
10-01-2024	Fine	19:01	56.9	53.5-70.9 (mean:56.7)	44.4	nil.	Traffic	70
16-01-2024	Fine	19:01	59.1	53.5-70.9 (mean:56.7)	55.3	nil.	Traffic	70
22-01-2024	Fine	19:02	58.1	53.5-70.9 (mean:56.7)	52.6	nil.	Traffic	70
02-02-2024	Fine	19:04	56.6	53.5-70.9 (mean:56.7)	< Baseline	nil.	Traffic	70
08-02-2024	Fine	19:00	60.1	53.5-70.9 (mean:56.7)	57.4	nil.	Traffic	70
14-02-2024	Fine	19:01	54.6	53.5-70.9 (mean:56.7)	< Baseline	nil.	Traffic	70
20-02-2024	Fine	19:00	52.9	53.5-70.9 (mean:56.7)	< Baseline	nil.	Traffic	70
26-02-2024	Fine	19:00	56.9	53.5-70.9 (mean:56.7)	43.4	nil.	Traffic	70

Remark(s):

(1): Detailed monitoring records (i.e six consecutive Leq/5min readings, L90 and L10) refer to the corresponding monthly EM&A report.

Night Time (2300 - 0700hrs on next day)

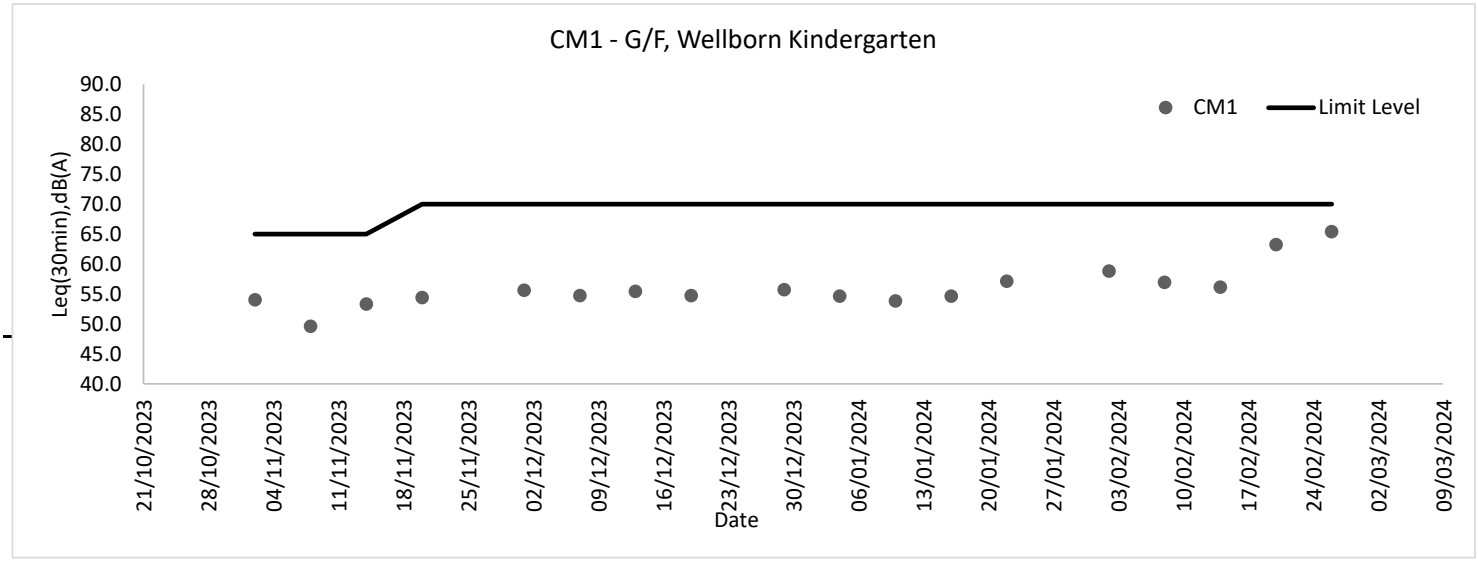
CM4 - G/F, Ah Kung Kok Fishermen Village

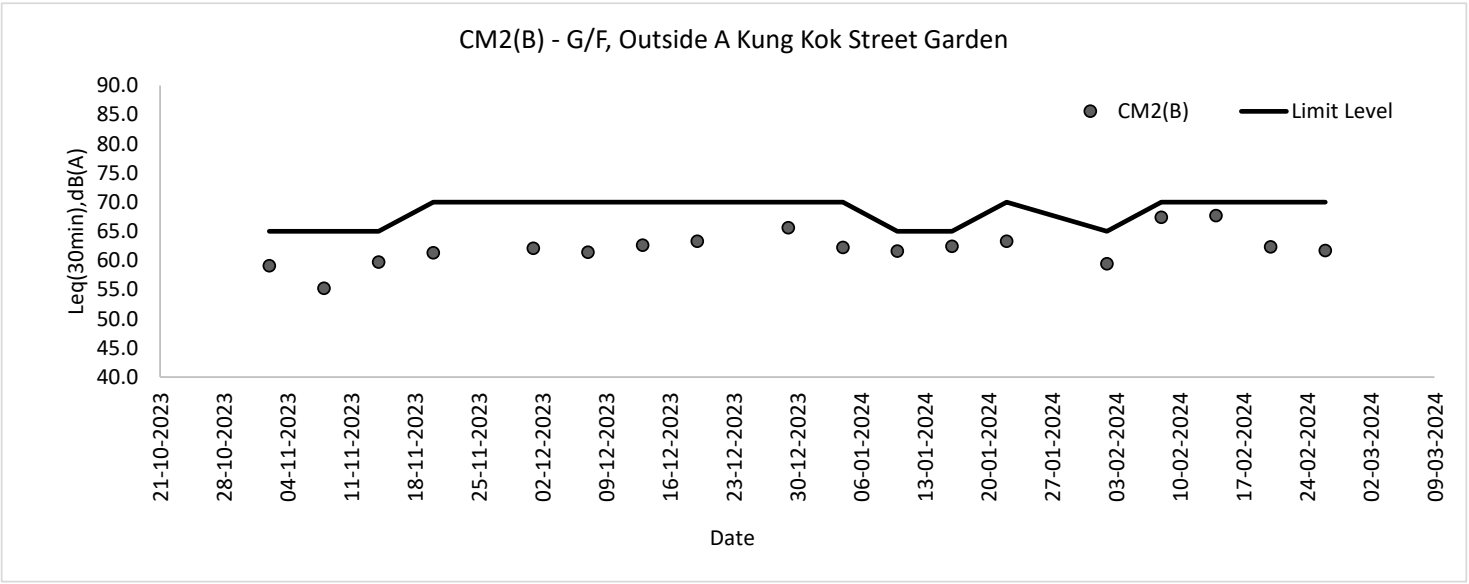
Date	Weather	Start Time(1)	Mean Noise Level(1)	Baseline Level Range (mean level)	Construction Noise Level (Baseline correction)	Major Construction Noise Source(s)	Other Noise Source(s)	Limit Level
			Leq (5min) in dB(A)					dB(A)
01-12-2023	Fine	23:02	54.8	45.6-63.2 (mean 52.8)	50.5	nil.	Traffic	55
07-12-2023	Fine	23:02	56.0	45.6-63.2 (mean 52.8)	53.2	nil.	Traffic	55
14-12-2023	Fine	0:00	51.6	45.6-63.2 (mean 52.8)	≤ Baseline Level	nil.	Traffic	55
19-12-2023	Fine	23:04	55.6	45.6-63.2 (mean 52.8)	52.4	nil.	Traffic	55
29-12-2023	Fine	23:00	55.4	45.6-63.2 (mean 52.8)	52.0	nil.	Traffic	55
04-01-2024	Fine	23:04	53.9	45.6-63.2 (mean 52.8)	47.4	nil.	Traffic	55
10-01-2024	Fine	23:01	54.1	45.6-63.2 (mean 52.8)	48.1	nil.	Traffic	55
16-01-2024	Fine	23:01	56.3	45.6-63.2 (mean 52.8)	53.8	nil.	Traffic	55
22-01-2024	Fine	23:02	54.6	45.6-63.2 (mean 52.8)	49.8	nil.	Traffic	55
02-02-2024	Fine	23:04	54.3	45.6-63.2 (mean 52.8)	49.0	nil.	Traffic	55
09-02-2024	Fine	0:30	55.7	45.6-63.2 (mean 52.8)	52.6	nil.	Traffic	55
14-02-2024	Fine	23:01	54.0	45.6-63.2 (mean 52.8)	47.8	nil.	Traffic	55
20-02-2024	Fine	23:00	51.2	45.6-63.2 (mean 52.8)	< Baseline	nil.	Traffic	55
26-02-2024	Fine	23:00	55.0	45.6-63.2 (mean 52.8)	51.0	nil.	Traffic	55

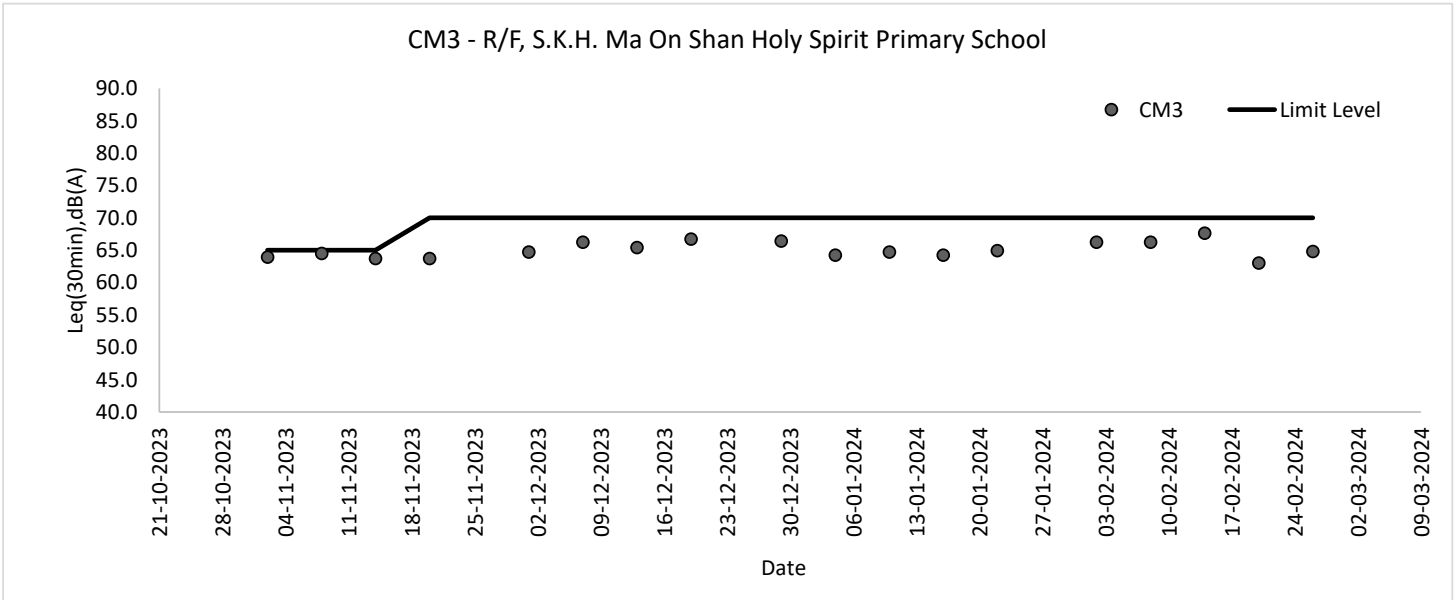
Remark(s):

(1): Detailed monitoring records (i.e six consecutive Leq/5min readings, L90 and L10) refer to the corresponding monthly EM&A report.

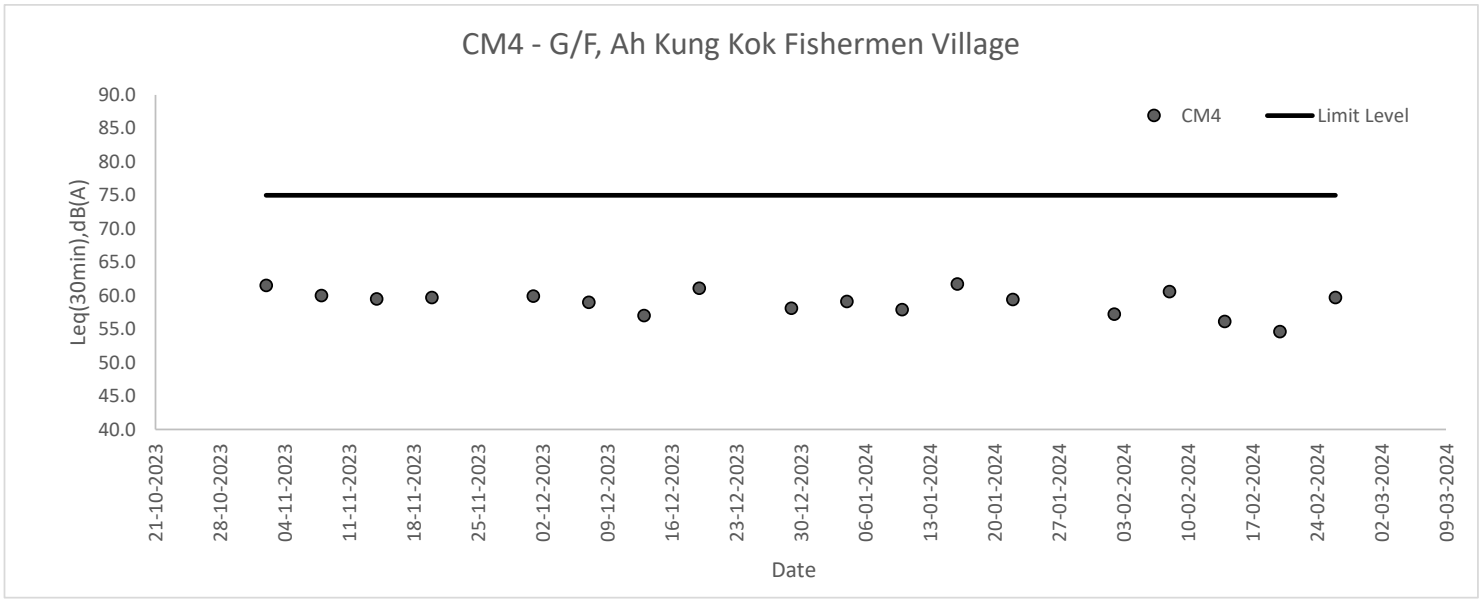
Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)

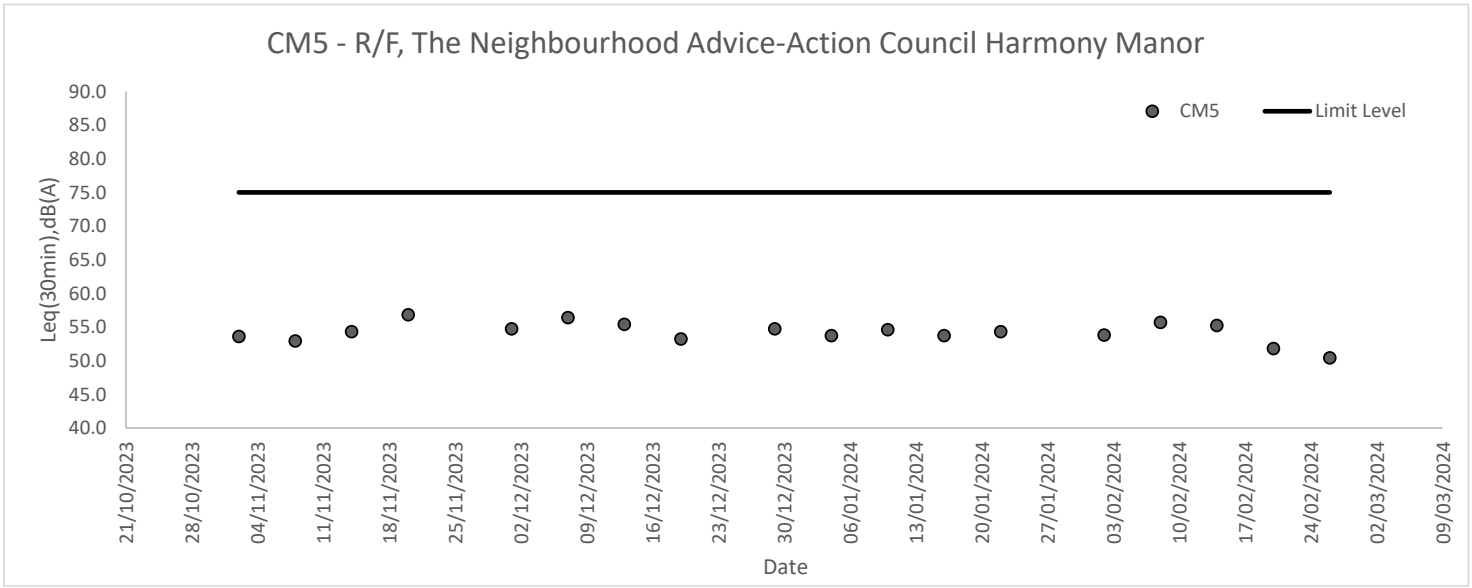




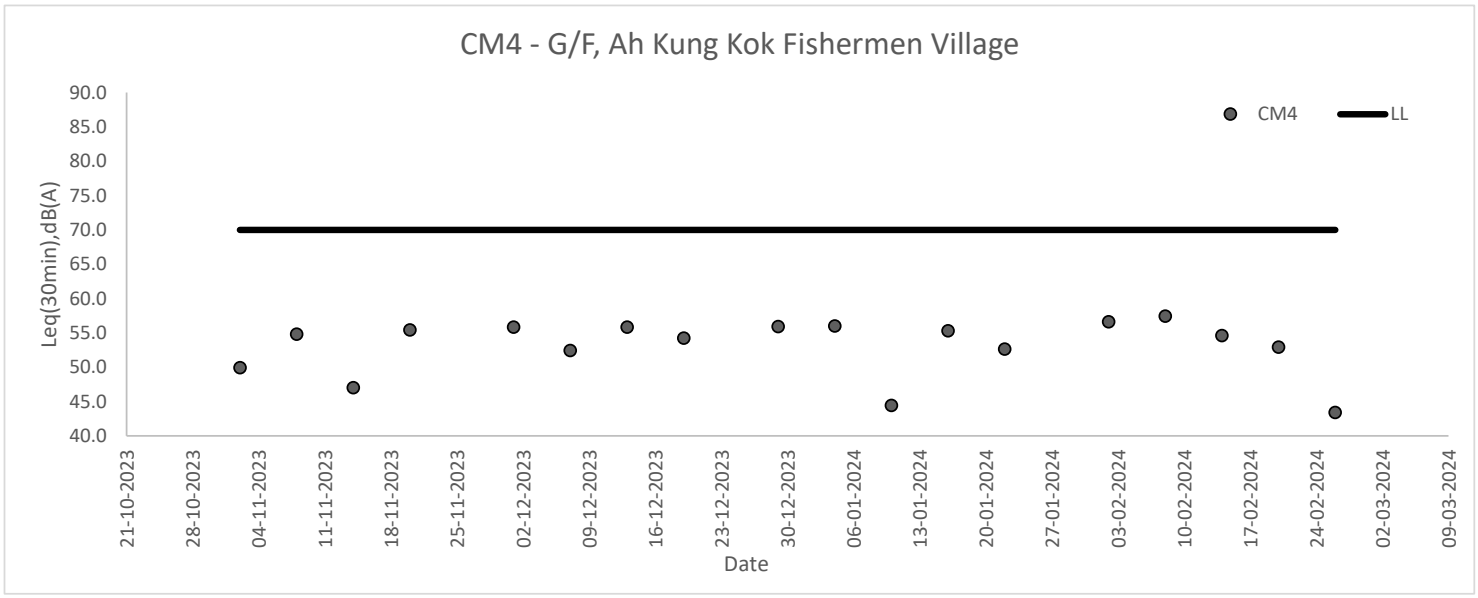


Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)

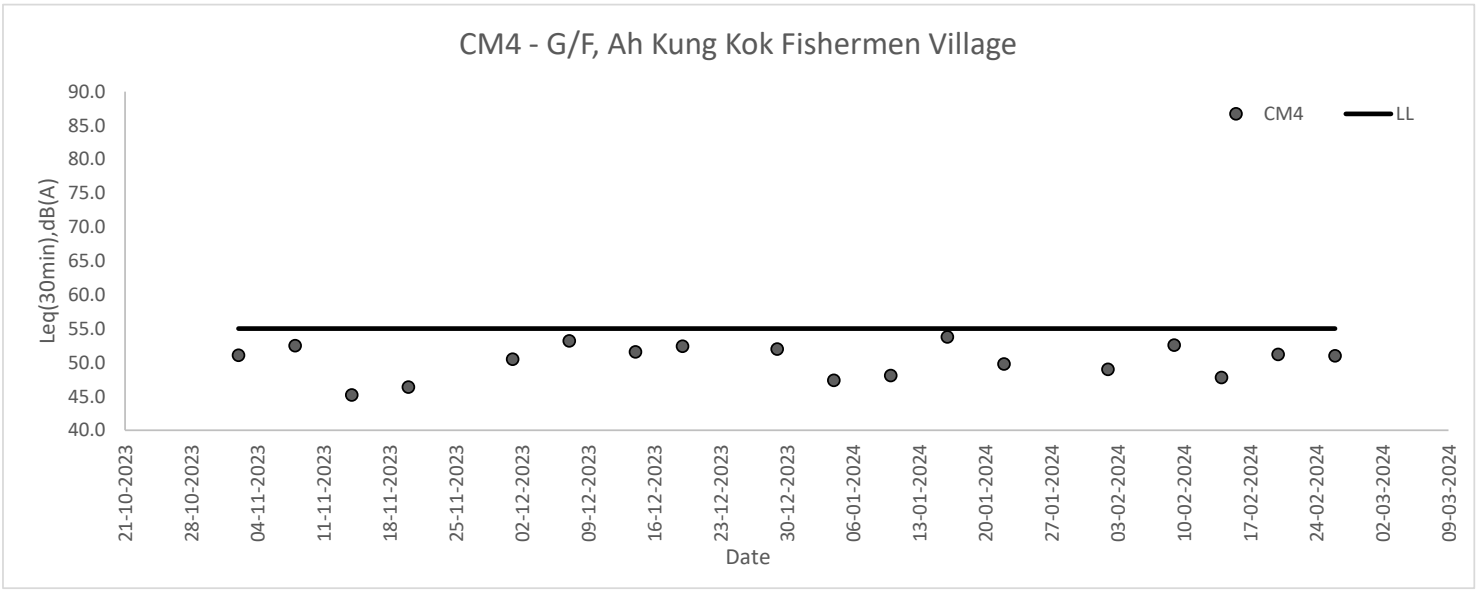




Graphic Presentation of Noise Monitoring Result
Evening Time (1900 - 2300hrs on normal weekdays)



Graphic Presentation of Noise Monitoring Result
Night Time (2300 - 0700hrs on normal weekdays)



Appendix 4.4

APS Performance Test Result

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Nana Café [2]	2023/12/11 11:00	34.8	39.2	44.5
	2023/12/11 12:00	39.8	45.9	
	2023/12/11 13:00	43.0	51.6	
	2023/12/11 14:00	41.9	50.1	
	2023/12/11 15:00	52.6	61.8	
	2023/12/11 16:00	50.7	62.3	
	2023/12/11 17:00	38.6	58.3	
	2023/12/11 18:00	41.7	72.9	
	2023/12/11 19:00	40.0	68.7	
	2023/12/11 20:00	38.3	71.5	
	2023/12/11 21:00	29.8	69.8	
	2023/12/11 22:00	29.6	66.6	
	2023/12/11 23:00	27.7	62.5	
	2023/12/12 0:00	23.3	57.0	
	2023/12/12 1:00	22.4	53.6	
	2023/12/12 2:00	17.6	48.4	
	2023/12/12 3:00	15.1	48.4	
	2023/12/12 4:00	17.2	50.1	
	2023/12/12 5:00	16.6	52.6	
	2023/12/12 6:00	17.0	51.6	
	2023/12/12 7:00	21.6	56.2	
	2023/12/12 8:00	31.2	69.2	
	2023/12/12 9:00	48.6	67.7	
	2023/12/12 10:00	26.0	43.8	
	24-hr Average	31.9	57.5	

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Nana Café [2]	2024/01/15 12:00	49.7	70.0	25.9
	2024/01/15 13:00	52.2	63.7	
	2024/01/15 14:00	40.2	76.3	
	2024/01/15 15:00	17.4	22.6	
	2024/01/15 16:00	25.4	28.9	
	2024/01/15 17:00	18.2	27.7	
	2024/01/15 18:00	18.6	22.2	
	2024/01/15 19:00	14.0	21.8	
	2024/01/15 20:00	9.8	15.3	
	2024/01/15 21:00	6.9	11.7	
	2024/01/15 22:00	7.1	10.7	
	2024/01/15 23:00	5.5	9.6	
	2024/01/16 0:00	5.0	8.2	
	2024/01/16 1:00	3.6	5.7	
	2024/01/16 2:00	2.7	5.7	
	2024/01/16 3:00	2.7	5.0	
	2024/01/16 4:00	3.3	4.8	
	2024/01/16 5:00	5.4	6.5	
	2024/01/16 6:00	12.0	10.1	
	2024/01/16 7:00	22.0	23.1	
	2024/01/16 8:00	26.2	29.3	
	2024/01/16 9:00	20.8	36.1	
	2024/01/16 10:00	29.6	33.3	
	2024/01/16 11:00	40.0	45.5	
	24-hr Average	18.3	24.7	

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Nana Café [2]	2024/02/19 14:00	36.7	40.0	18.7
	2024/02/19 15:00	44.8	45.9	
	2024/02/19 16:00	48.4	47.8	
	2024/02/19 17:00	44.2	44.6	
	2024/02/19 18:00	34.0	41.3	
	2024/02/19 19:00	31.6	36.5	
	2024/02/19 20:00	28.5	36.7	
	2024/02/19 21:00	26.8	31.2	
	2024/02/19 22:00	24.5	30.4	
	2024/02/19 23:00	21.6	27.3	
	2024/02/20 00:00	19.1	27.3	
	2024/02/20 01:00	21.4	27.2	
	2024/02/20 02:00	19.3	26.4	
	2024/02/20 03:00	19.9	27.0	
	2024/02/20 04:00	22.8	38.6	
	2024/02/20 05:00	27.3	36.7	
	2024/02/20 06:00	24.3	35.0	
	2024/02/20 07:00	26.4	39.4	
	2024/02/20 08:00	25.8	38.6	
	2024/02/20 09:00	28.9	35.4	
	2024/02/20 10:00	31.7	39.2	
	2024/02/20 11:00	35.8	44.9	
	2024/02/20 12:00	40.9	47.4	
	2024/02/20 13:00	36.3	40.7	
	24-hr Average	30.0	36.9	

Notes:

(1) Conversion factor of 1.9125 was applied for NO_2 from ppb to $\mu g/m^3$ at 20°C and at 1 atm.

(2) One unit of APS was deployed for NO_2 measurements at indoor and outdoor each simultaneously.

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Model Train Shop [2]	2023/12/11 11:00	4.2	39.0	93.5
	2023/12/11 12:00	4.8	46.3	
	2023/12/11 13:00	4.2	53.7	
	2023/12/11 14:00	4.8	53.6	
	2023/12/11 15:00	4.8	65.0	
	2023/12/11 16:00	5.7	66.0	
	2023/12/11 17:00	5.2	62.7	
	2023/12/11 18:00	4.8	78.8	
	2023/12/11 19:00	4.4	74.2	
	2023/12/11 20:00	3.3	76.9	
	2023/12/11 21:00	3.8	73.2	
	2023/12/11 22:00	2.7	69.4	
	2023/12/11 23:00	2.7	66.2	
	2023/12/12 0:00	3.4	57.8	
	2023/12/12 1:00	2.9	55.5	
	2023/12/12 2:00	2.9	50.1	
	2023/12/12 3:00	2.9	50.1	
	2023/12/12 4:00	3.3	52.6	
	2023/12/12 5:00	2.7	54.7	
	2023/12/12 6:00	3.4	54.5	
	2023/12/12 7:00	4.2	59.9	
	2023/12/12 8:00	3.1	71.7	
	2023/12/12 9:00	5.2	68.1	
	2023/12/12 10:00	4.6	43.6	
	24-hr Average	3.9	60.1	

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Model Train Shop [2]	2024/01/15 12:00	7.7	53.7	69.4
	2024/01/15 13:00	9.2	53.7	
	2024/01/15 14:00	8.4	63.7	
	2024/01/15 15:00	11.5	15.9	
	2024/01/15 16:00	9.8	23.5	
	2024/01/15 17:00	7.5	21.0	
	2024/01/15 18:00	6.9	19.1	
	2024/01/15 19:00	5.7	16.6	
	2024/01/15 20:00	5.9	11.5	
	2024/01/15 21:00	5.7	8.2	
	2024/01/15 22:00	5.4	8.0	
	2024/01/15 23:00	4.8	6.1	
	2024/01/16 0:00	4.0	5.2	
	2024/01/16 1:00	4.2	3.4	
	2024/01/16 2:00	3.3	3.3	
	2024/01/16 3:00	3.6	2.9	
	2024/01/16 4:00	3.1	3.3	
	2024/01/16 5:00	3.3	4.6	
	2024/01/16 6:00	3.8	9.4	
	2024/01/16 7:00	3.8	21.4	
	2024/01/16 8:00	5.5	21.8	
	2024/01/16 9:00	5.9	23.3	
	2024/01/16 10:00	6.3	25.2	
	2024/01/16 11:00	5.5	38.8	
	24-hr Average	5.9	19.3	

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Model Train Shop [2]	2024/02/19 13:00	2.3	34.8	92.9
	2024/02/19 14:00	3.4	34.8	
	2024/02/19 15:00	3.8	46.3	
	2024/02/19 16:00	4.0	51.4	
	2024/02/19 17:00	4.6	47.4	
	2024/02/19 18:00	3.4	46.5	
	2024/02/19 19:00	3.6	39.2	
	2024/02/19 20:00	2.1	38.6	
	2024/02/19 21:00	2.3	33.7	
	2024/02/19 22:00	1.9	34.2	
	2024/02/19 23:00	1.9	28.9	
	2024/02/20 00:00	1.5	27.5	
	2024/02/20 01:00	1.1	31.9	
	2024/02/20 02:00	1.3	27.2	
	2024/02/20 03:00	1.1	27.0	
	2024/02/20 04:00	1.3	38.8	
	2024/02/20 05:00	1.1	40.0	
	2024/02/20 06:00	1.3	35.4	
	2024/02/20 07:00	1.9	40.9	
	2024/02/20 08:00	2.7	42.5	
	2024/02/20 09:00	2.5	37.1	
	2024/02/20 10:00	2.9	36.7	
	2024/02/20 11:00	2.3	47.0	
	2024/02/20 12:00	10.5	44.9	
	24-hr Average	2.7	38.0	

Notes:

(1) Conversion factor of 1.9125 was applied for NO_2 from ppb to $\mu g/m^3$ at 20°C and at 1 atm.

(2) One unit of APS was deployed for NO_2 measurements at indoor and outdoor each simultaneously.

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Workshop Office [2]	2023/12/12 11:00	37.7	28.7	11.3
	2023/12/12 12:00	50.9	83.6	
	2023/12/12 13:00	77.8	71.7	
	2023/12/12 14:00	65.6	84.9	
	2023/12/12 15:00	75.2	77.1	
	2023/12/12 16:00	67.9	86.3	
	2023/12/12 17:00	70.2	96.0	
	2023/12/12 18:00	60.8	40.2	
	2023/12/12 19:00	22.6	27.0	
	2023/12/12 20:00	18.2	14.2	
	2023/12/12 21:00	12.8	17.2	
	2023/12/12 22:00	13.4	15.7	
	2023/12/12 23:00	10.5	13.4	
	2023/12/13 0:00	9.2	11.5	
	2023/12/13 1:00	8.6	12.0	
	2023/12/13 2:00	10.1	9.0	
	2023/12/13 3:00	7.3	7.1	
	2023/12/13 4:00	7.1	8.6	
	2023/12/13 5:00	6.9	10.9	
	2023/12/13 6:00	8.0	12.6	
	2023/12/13 7:00	12.0	24.9	
	2023/12/13 8:00	27.5	37.1	
	2023/12/13 9:00	41.3	37.1	
	2023/12/13 10:00	35.4	26.0	
	24-hr Average	31.5	35.5	

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Workshop Office [2]	2024/01/16 12:00	38.4	51.6	9.6
	2024/01/16 13:00	49.5	50.5	
	2024/01/16 14:00	43.4	45.1	
	2024/01/16 15:00	44.2	46.7	
	2024/01/16 16:00	45.5	56.2	
	2024/01/16 17:00	43.2	38.1	
	2024/01/16 18:00	27.9	29.1	
	2024/01/16 19:00	23.3	24.7	
	2024/01/16 20:00	18.6	20.3	
	2024/01/16 21:00	17.6	19.5	
	2024/01/16 22:00	15.7	13.2	
	2024/01/16 23:00	12.6	13.4	
	2024/01/17 0:00	17.6	16.4	
	2024/01/17 1:00	13.8	10.1	
	2024/01/17 2:00	10.1	11.9	
	2024/01/17 3:00	11.5	31.6	
	2024/01/17 4:00	25.4	54.9	
	2024/01/17 5:00	32.3	25.2	
	2024/01/17 6:00	29.3	55.1	
	2024/01/17 7:00	32.3	41.5	
	2024/01/17 8:00	55.3	60.6	
	2024/01/17 9:00	60.2	40.2	
	2024/01/17 10:00	44.0	35.2	
	2024/01/17 11:00	33.7	33.9	
	24-hr Average	31.1	34.4	

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Workshop Office [2]	2024/02/20 14:00	35.2	45.7	43.9
	2024/02/20 15:00	21.8	32.1	
	2024/02/20 16:00	25.4	39.0	
	2024/02/20 17:00	22.8	36.9	
	2024/02/20 18:00	18.9	34.4	
	2024/02/20 19:00	17.4	34.6	
	2024/02/20 20:00	18.4	33.7	
	2024/02/20 21:00	21.0	30.8	
	2024/02/20 22:00	17.4	25.8	
	2024/02/20 23:00	17.4	35.2	
	2024/02/21 00:00	16.4	30.8	
	2024/02/21 01:00	12.4	24.3	
	2024/02/21 02:00	10.9	21.8	
	2024/02/21 03:00	9.2	26.4	
	2024/02/21 04:00	11.9	35.2	
	2024/02/21 05:00	13.8	44.8	
	2024/02/21 06:00	15.9	55.7	
	2024/02/21 07:00	24.7	53.4	
	2024/02/21 08:00	28.7	51.6	
	2024/02/21 09:00	33.5	52.8	
	2024/02/21 10:00	32.9	50.3	
	2024/02/21 11:00	32.9	48.4	
	2024/02/21 12:00	29.5	37.1	
	2024/02/21 13:00	27.0	37.3	
	24-hr Average	21.5	38.3	

Notes:

(1) Conversion factor of 1.9125 was applied for NO_2 from ppb to $\mu g/m^3$ at 20°C and at 1 atm.

(2) One unit of APS was deployed for NO_2 measurements at indoor and outdoor each simultaneously.

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Lantau Link Visitor Centre [2]	2023/12/12 11:00	7.8	29.5	58.4
	2023/12/12 12:00	25.2	77.1	
	2023/12/12 13:00	33.5	90.8	
	2023/12/12 14:00	33.7	87.4	
	2023/12/12 15:00	39.2	69.2	
	2023/12/12 16:00	33.5	80.9	
	2023/12/12 17:00	30.2	95.8	
	2023/12/12 18:00	26.6	67.5	
	2023/12/12 19:00	20.8	36.1	
	2023/12/12 20:00	13.6	23.1	
	2023/12/12 21:00	8.8	17.6	
	2023/12/12 22:00	8.2	15.5	
	2023/12/12 23:00	6.7	15.3	
	2023/12/13 0:00	5.2	12.8	
	2023/12/13 1:00	5.2	12.0	
	2023/12/13 2:00	5.2	8.2	
	2023/12/13 3:00	5.2	6.7	
	2023/12/13 4:00	4.4	6.9	
	2023/12/13 5:00	4.2	8.8	
	2023/12/13 6:00	4.2	11.9	
	2023/12/13 7:00	7.7	20.8	
	2023/12/13 8:00	9.8	22.8	
	2023/12/13 9:00	11.1	28.1	
	2023/12/13 10:00	12.4	26.2	
	24-hr Average	15.1	36.3	

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Lantau Link Visitor Centre [2]	2024/01/16 12:00	44.4	50.5	28.9
	2024/01/16 13:00	42.1	57.8	
	2024/01/16 14:00	45.1	51.1	
	2024/01/16 15:00	43.4	55.8	
	2024/01/16 16:00	43.8	68.5	
	2024/01/16 17:00	38.1	43.2	
	2024/01/16 18:00	26.0	43.0	
	2024/01/16 19:00	20.1	23.9	
	2024/01/16 20:00	15.9	23.5	
	2024/01/16 21:00	14.5	21.4	
	2024/01/16 22:00	11.9	14.7	
	2024/01/16 23:00	10.9	15.7	
	2024/01/17 0:00	10.1	13.0	
	2024/01/17 1:00	9.8	11.5	
	2024/01/17 2:00	8.0	10.9	
	2024/01/17 3:00	9.2	12.6	
	2024/01/17 4:00	11.7	18.4	
	2024/01/17 5:00	10.1	13.2	
	2024/01/17 6:00	10.5	19.7	
	2024/01/17 7:00	19.1	40.7	
	2024/01/17 8:00	24.5	42.5	
	2024/01/17 9:00	22.4	35.4	
	2024/01/17 10:00	18.9	26.4	
	2024/01/17 11:00	14.9	24.7	
	24-hr Average	21.9	30.8	

Location	Date and Time	Indoor NO_2 Conc. ($\mu g/m^3$) [1]	Outdoor NO_2 Conc. ($\mu g/m^3$) [1]	NO_2 Removal Efficiency (%)
Lantau Link Visitor Centre [2]	2024/02/20 13:00	26.0	40.7	53.5
	2024/02/20 14:00	25.1	38.8	
	2024/02/20 15:00	19.9	30.4	
	2024/02/20 16:00	17.8	31.2	
	2024/02/20 17:00	16.3	25.8	
	2024/02/20 18:00	13.8	24.7	
	2024/02/20 19:00	13.0	26.2	
	2024/02/20 20:00	12.8	30.4	
	2024/02/20 21:00	12.6	24.9	
	2024/02/20 22:00	11.7	22.8	
	2024/02/20 23:00	11.3	33.9	
	2024/02/21 00:00	10.3	23.9	
	2024/02/21 01:00	10.7	24.1	
	2024/02/21 02:00	10.7	15.5	
	2024/02/21 03:00	8.8	20.8	
	2024/02/21 04:00	9.0	23.0	
	2024/02/21 05:00	8.0	31.0	
	2024/02/21 06:00	7.7	45.7	
	2024/02/21 07:00	9.8	46.7	
	2024/02/21 08:00	15.1	52.8	
	2024/02/21 09:00	19.5	47.4	
	2024/02/21 10:00	25.2	44.9	
	2024/02/21 11:00	25.1	42.5	
	2024/02/21 12:00	26.4	41.5	
	24-hr Average	15.3	32.9	

Notes:

(1) Conversion factor of 1.9125 was applied for NO_2 from ppb to $\mu g/m^3$ at 20°C and at 1 atm.

(2) One unit of APS was deployed for NO_2 measurements at indoor and outdoor each simultaneously.

Appendix 4.5

Water Quality Monitoring Results and Graphical Presentations

Water Monitoring Result at W1 - WSD Seawater Intake at Sha Tin
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	6:44	Cloudy	Surface	1.0	23.96	23.96	23.96	8.58	8.58	8.58	31.07	31.07	31.07	111.5	111.2	111.4	7.85	7.82	7.84	1.60	1.61	1.61
			Middle																			
	6:48		Bottom	4.8	24.04	24.04	24.04	8.38	8.38	8.38	31.59	31.59	31.59	89.0	89.3	89.2	6.23	6.26	6.25	1.05	1.07	1.06
30/11/2023	8:29	Cloudy	Surface	1.0	24.10	24.10	24.10	8.68	8.68	8.68	31.47	31.47	31.47	118.3	118.0	118.2	8.37	8.35	8.36	2.41	2.42	2.42
			Middle																			
	8:33		Bottom	4.9	24.09	24.09	24.09	8.69	8.69	8.69	31.71	31.71	31.71	106.3	106.5	106.4	7.45	7.47	7.46	0.73	0.73	0.73
1/12/2023	9:34	Fine	Surface	1.0	23.74	23.74	23.74	8.54	8.54	8.54	31.11	31.11	31.11	100.0	100.3	100.2	7.09	7.12	7.11	1.18	1.20	1.19
			Middle																			
	9:38		Bottom	4.8	23.67	23.67	23.67	8.62	8.62	8.62	31.17	31.17	31.17	105.0	105.3	105.2	7.44	7.41	7.43	1.14	1.16	1.15
4/12/2023	8:41	Fine	Surface	1.0	23.73	23.74	23.74	8.54	8.51	8.53	31.45	31.48	31.47	112.3	112.6	112.5	7.92	7.97	7.95	1.13	1.16	1.15
			Middle																			
	8:45		Bottom	4.8	23.81	23.81	23.81	8.34	8.37	8.36	32.01	32.03	32.02	81.1	80.8	81.0	5.71	5.68	5.70	0.72	0.74	0.73
6/12/2023	13:55	Cloudy	Surface	1.0	23.04	23.04	23.04	8.81	8.81	8.81	31.10	31.10	31.10	114.6	114.4	114.5	8.24	8.20	8.22	0.90	0.88	0.89
			Middle																			
	13:59		Bottom	4.9	23.41	23.41	23.41	8.59	8.59	8.59	31.81	31.81	31.81	87.6	87.8	87.7	6.23	6.25	6.24	0.66	0.69	0.68
8/12/2023	14:55	Fine	Surface	1.0	22.77	22.77	22.77	8.84	8.84	8.84	32.04	32.04	32.04	99.4	99.6	99.5	7.13	7.15	7.14	1.05	1.07	1.06
			Middle																			
	14:59		Bottom	4.8	23.32	23.32	23.32	8.57	8.51	8.54	32.47	32.47	32.47	61.2	61.5	61.4	4.33	4.36	4.35	1.09	1.08	1.09
11/12/2023	6:54	Cloudy	Surface	1.0	23.76	23.76	23.76	8.77	8.77	8.77	31.97	31.97	31.97	119.4	119.6	119.5	8.40	8.42	8.41	0.55	0.53	0.54
			Middle																			
	6:58		Bottom	4.8	23.44	23.44	23.44	8.62	8.62	8.62	32.19	32.19	32.19	90.4	90.6	90.5	6.39	6.41	6.40	0.90	0.93	0.92
13/12/2023	6:56	Cloudy	Surface	1.0	24.01	24.01	24.01	8.33	8.33	8.33	32.05	32.05	32.05	110.1	110.4	110.3	7.68	7.72	7.70	0.66	0.67	0.67
			Middle																			
	7:00		Bottom	4.8	24.06	24.06	24.06	8.28	8.28	8.28	32.29	32.29	32.29	101.1	101.3	101.2	7.09	7.11	7.10	0.78	0.79	0.79
15/12/2023	9:48	Fine	Surface	1.0	24.19	24.18	24.19	8.35	8.35	8.35	32.02	32.01	32.02	132.0	132.1	132.1	9.27	9.28	9.28	0.32	0.34	0.33
			Middle																			
	9:52		Bottom	4.8	23.59	23.59	23.59	7.88	7.89	7.89	32.14	32.15	32.15	39.6	39.5	39.6	2.79	2.78	2.79	0.71	0.72	0.72
18/12/2023	10:55	Cloudy	Surface	1.0	21.97	21.97	21.97	8.30	8.30	8.30	32.19	32.19	32.19	98.0	98.2	98.1	7.11	7.13	7.12	0.39	0.41	0.40
			Middle																			
	10:59		Bottom	4.8	22.10	22.10	22.10	8.25	8.25	8.25	32.23	32.23	32.23	87.1	87.3	87.2	7.03	7.05	7.04	0.74	0.75	0.75
20/12/2023	14:15	Cloudy	Surface	1.0	21.17	21.20	21.19	8.23	8.21	8.22	33.80	33.82	33.81	88.2	88.4	88.3	6.43	6.45	6.44	1.67	1.65	1.66
			Middle																			
	14:19		Bottom	4.9	21.00	21.06	21.03	8.26	8.28	8.27	33.86	33.88	33.87	86.6	86.2	86.4	6.30	6.28	6.29	1.75	1.77	1.76
22/12/2023	14:53	Cloudy	Surface	1.0	19.28	19.26	19.27	8.08	8.08	8.08	33.94	33.95	33.95	93.0	93.2	93.1	7.00	7.01	7.01	1.48	1.46	1.47
			Middle																			
	14:57		Bottom	4.8	19.27	19.27	19.27	8.06	8.07	8.07	33.96	33.96	33.96	93.4	93.5	93.5	7.02	7.02	7.02	1.61	1.62	1.62
26/12/2023	6:42	Cloudy	Surface	1.0	17.82	17.82	17.82	8.16	8.16	8.16	33.93	33.92	33.93	109.0	109.1	109.1	8.45	8.46	8.46	1.79	1.81	1.80
			Middle																			
	6:46		Bottom	4.8	17.97	17.96	17.97	8.13	8.14	8.14	34.03	34.03	34.03	103.4	103.6	103.5	8.00	8.01	8.01	1.99	2.00	2.00
28/12/2023	13:53	Fine	Surface	1.0	18.35	18.36	18.36	8.18	8.22	8.20	34.05	34.08	34.07	110.8	111.1	111.0	8.51	8.56	8.54	1.59	1.61	1.60
			Middle																			
	13:57		Bottom	4.9	19.22	19.23	19.23	7.93	7.96	7.95	34.83	34.82	34.83	62.7	62.4	62.6	4.70	4.68	4.69	3.62	3.64	3.63
30/12/2023	10:27	Fine	Surface	1.0	19.55	19.57	19.56	8.21	8.17	8.19	33.64	33.62	33.63	116.0	115.7	115.9	8.70	8.66	8.68	1.29	1.30	1.30
			Middle																			
	10:31		Bottom	4.7	19.09	19.06	19.08	8.20	8.24	8.22	34.21	34.25	34.23	108.4	108.2	108.3	8.18	8.16	8.17	1.36	1.32	1.34
2/1/2024	14:41	Fine	Surface	1.0	19.98	19.98	19.98	8.22	8.22	8.22	33.85	33.85	33.85	111.0	111.2	111.1	8.28	8.30	8.29	1.69	1.71	1.70
			Middle																			
	14:45		Bottom	4.8	19.85	19.85	19.85	8.21	8.21	8.21	34.31	34.31	34.31	108.5	108.3	108.4	8.08	8.05	8.07	1.86	1.84	1.85
4/1/2024	12:26	Fine	Surface	1.0	19.36	19.36	19.36	8.21	8.21	8.21	33.64	33.64	33.64	107.1	107.3	107.2	8.08	8.10	8.09	1.59	1.62	1.61
			Middle																			
	12:30		Bottom	4.8	19.37	19.37	19.37	8.21	8.21	8.21	33.67	33.67	33.67	106.5	106.7	106.6	8.03	8.05	8.04	1.77	1.79	1.78
6/1/2024	15:10	Fine	Surface	1.0	19.77	19.79	19.78	8.23	8.24	8.24	33.83	33.85	33.84	114.2	114.0	114.1	8.52	8.49	8.51	1.34	1.37	1.36
			Middle																			
	15:14		Bottom	4.6	19.56	19.59	19.58	7.93	7.96	7.95	34.81	34.83	34.82	52.5	52.3	52.4	3.91	3.88	3.90	3.21	3.25	3.23
8/1/2024	14:44	Fine	Surface	1.0	20.07	20.07	20.07	8.23	8.23	8.23	34.12	34.12	34.12	103.0	103.2	103.1	7.66	7.68	7.67	1.26	1.28	1.27
			Middle																			
	14:48		Bottom	4.8	20.01	20.01	20.01	8.12	8.12	8.12	34.19	34.19	34.19	93.3	93.5	93.4	6.92	6.95	6.94	1.73	1.75	1.74
10/1/2024	15:32	Fine	Surface	1.0	20.31	20.31	20.31	8.24	8.24	8.24	34.20	34.20	34.20	103.6	103.8	103.7	7.68	7.70	7.69	1.47	1.48	1.48
			Middle																			
	15:36		Bottom	4.7	20.10	20.10	20.10	8.23	8.23	8.23	34.38	34.38	34.38	105.1	105.3	105.2	7.80	7.82	7.81	1.59	1.61	1.60
12/1/2024	19:49	Fine	Surface	1.0	20.48	20.45	20.47	8.28	8.25	8.27	33.97	33.95	33.96	116.7	116.5	116.6	8.58	8.56	8.57	1.35	1.37	1.36
			Middle																			
	19:53		Bottom	4.9	19.98	20.00	19.99	8.06	8.04	8.05	34.70	34.68	34.69	79.6	79.6	79.6	5.90	5.90	5.90	1.97	1.97	1.97
15/1/2024	11:03	Fine	Surface	1.0	20.65	20.62	20.64	8.26	8.27	8.27	34.22	34.20	34.21	118.0	118.5	118.3	8.72	8.77	8.75	1.59	1.60	1.60
			Middle																			
	11:07		Bottom	4.8	20.04	20.01	20.03	8.00	8.02	8.01	34.80	34.79	34.80	61.7	61.4	61.6	4.57	4.53	4.55	2.31	2.33	2.32
17/1/2024	12:04	Cloudy	Surface	1.0	20.43	20.45	20.44	8.29	8.27	8.28	34.12	34.14	34.13	110.3	110.1	110.2	8.13	8.09	8.11	1.70	1.68	1.69
			Middle																			
	12:08		Bottom	4.7	20.25	20.23	20.24	8.23	8.24	8.24	34.48	34.46	34.47	102.3	102.5	102.4	7.55	7.57	7.56	2.01	2.03	2.02
19/1/2024	14:10	Fine	Surface	1.0	21.05	21.08	21.07	8.30	8.27	8.29	33.64	33.62	33.63	117.0	116.8	116.9	8.57	8.55	8.56	2.13	2.15	2.14
			Middle																			
	14:14		Bottom	4.7	20.03	20.05	20.04	8.12	8.15	8.14	34.79	34.82	34.81	75.6	74.2	74.9	5.58	5.47	5.53	3.63	3.60	3.62

Water Monitoring Result at W1 - WSD Seawater Intake at Sha Tin
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	12:41	Cloudy	Surface	1.0	24.00	24.00	24.00	8.60	8.60	8.60	31.09	31.09	31.09	111.9	111.7	111.8	7.89	7.87	7.88	1.66	1.68	1.67
			Middle																			
	12:45		Bottom	4.6	24.05	24.05	24.05	8.40	8.40	8.40	31.60	31.60	31.60	90.0	90.2	90.1	6.33	6.35	6.34	1.10	1.11	1.11
30/11/2023	12:40	Cloudy	Surface	1.0	24.12	24.12	24.12	8.70	8.70	8.70	31.48	31.48	31.48	118.6	118.8	118.7	8.40	8.42	8.41	2.45	2.46	2.46
			Middle																			
	12:44		Bottom	4.7	24.09	24.09	24.09	8.70	8.70	8.70	31.70	31.20	31.45	115.8	115.9	115.9	7.40	7.41	7.41	0.82	0.84	0.83
1/12/2023	14:52	Fine	Surface	1.0	23.75	23.75	23.75	8.56	8.56	8.56	31.12	31.12	31.12	99.6	99.6	99.6	7.03	7.03	7.03	1.20	1.20	1.20
			Middle																			
	14:56		Bottom	4.7	23.67	23.67	23.67	8.62	8.62	8.62	31.00	31.00	31.00	105.2	105.2	105.2	7.46	7.46	7.46	1.07	1.07	1.07
4/12/2023	16:59	Fine	Surface	1.0	23.78	23.78	23.78	8.58	8.61	8.60	31.34	31.30	31.32	113.4	113.6	113.5	8.01	8.05	8.03	1.19	1.21	1.20
			Middle																			
	17:03		Bottom	4.6	23.84	23.84	23.84	8.27	8.30	8.29	32.17	32.20	32.19	67.0	67.3	67.2	4.70	4.73	4.72	0.69	0.72	0.71
6/12/2023	7:22	Cloudy	Surface	1.0	23.04	23.04	23.04	8.80	8.80	8.80	31.09	31.09	31.09	114.2	114.4	114.3	8.19	8.21	8.20	0.86	0.88	0.87
			Middle																			
	7:26		Bottom	4.6	23.41	23.41	23.41	8.59	8.59	8.59	31.81	31.81	31.81	87.0	87.3	87.2	6.17	6.20	6.19	0.58	0.60	0.59
8/12/2023	8:24	Fine	Surface	1.0	23.01	23.01	23.01	8.85	8.85	8.85	32.00	32.00	32.00	101.0	101.3	101.2	7.23	7.26	7.25	1.09	1.10	1.10
			Middle																			
	8:28		Bottom	4.6	23.37	23.37	23.37	8.54	8.54	8.54	32.55	32.55	32.55	59.0	59.2	59.1	4.17	4.19	4.18	1.11	1.13	1.12
11/12/2023	10:46	Cloudy	Surface	1.0	23.69	23.69	23.69	8.77	8.77	8.77	31.99	31.99	31.99	117.4	117.6	117.5	8.27	8.29	8.28	0.55	0.52	0.54
			Middle																			
	10:50		Bottom	4.7	23.45	23.45	23.45	8.60	8.60	8.60	32.20	32.20	32.20	88.0	88.2	88.1	6.22	6.24	6.23	0.97	1.00	0.99
13/12/2023	11:44	Cloudy	Surface	1.0	24.15	24.15	24.15	8.34	8.34	8.34	32.04	32.04	32.04	110.3	110.1	110.2	7.71	7.69	7.70	0.74	0.75	0.75
			Middle																			
	11:48		Bottom	4.6	24.07	24.07	24.07	8.30	8.30	8.30	32.28	32.28	32.28	100.5	100.2	100.4	7.02	7.19	7.11	1.00	0.98	0.99
15/12/2023	14:27	Fine	Surface	1.0	24.33	24.32	24.33	8.38	8.39	8.39	30.88	30.89	30.89	136.3	136.2	136.3	9.56	9.56	9.56	0.39	0.40	0.40
			Middle																			
	14:31		Bottom	4.5	23.66	23.67	23.67	8.00	8.01	8.01	31.98	31.97	31.98	61.3	61.5	61.4	4.32	4.34	4.33	0.84	0.85	0.85
18/12/2023	15:10	Cloudy	Surface	1.0	22.01	22.01	22.01	8.29	8.29	8.29	32.31	32.31	32.31	96.0	96.2	96.1	6.95	6.97	6.96	0.52	0.53	0.53
			Middle																			
	15:14		Bottom	4.7	22.73	22.73	22.73	8.14	8.14	8.14	32.65	32.65	32.65	74.2	74.4	74.3	5.30	5.32	5.31	0.98	1.00	0.99
20/12/2023	8:15	Cloudy	Surface	1.0	21.14	21.13	21.14	8.14	8.15	8.15	33.76	33.77	33.77	86.6	86.4	86.5	6.29	6.27	6.28	1.53	1.55	1.54
			Middle																			
	8:19		Bottom	4.8	21.15	21.16	21.16	8.22	8.24	8.23	33.90	33.92	33.91	87.6	87.9	87.8	6.42	6.44	6.43	1.71	1.73	1.72
22/12/2023	8:42	Cloudy	Surface	1.0	19.21	19.21	19.21	8.08	8.09	8.09	33.95	33.96	33.96	92.6	92.8	92.7	6.98	6.99	6.99	1.73	1.71	1.72
			Middle																			
	8:46		Bottom	4.8	19.22	19.22	19.22	8.05	8.06	8.06	33.94	33.95	33.95	91.9	91.8	91.9	6.93	6.93	6.93	1.69	1.70	1.70
26/12/2023	11:49	Cloudy	Surface	1.0	17.83	17.82	17.83	8.17	8.17	8.17	33.91	33.92	33.92	110.4	110.5	110.5	8.56	8.56	8.56	1.75	1.74	1.75
			Middle																			
	11:53		Bottom	4.6	18.02	18.01	18.02	8.12	8.13	8.13	34.05	34.04	34.05	103.1	103.3	103.2	7.96	7.97	7.97	1.89	1.93	1.91
28/12/2023	9:40	Fine	Surface	1.0	18.40	18.41	18.41	8.17	8.19	8.18	33.94	33.92	33.93	109.6	110.4	110.0	8.42	8.48	8.45	1.62	1.64	1.63
			Middle																			
	9:44		Bottom	4.7	19.12	19.13	19.13	7.96	7.92	7.94	34.77	34.80	34.79	66.3	66.7	66.5	4.98	4.92	4.95	4.13	4.07	4.10
30/12/2023	15:09	Fine	Surface	1.0	19.57	19.55	19.56	8.23	8.18	8.21	33.65	33.68	33.67	117.4	116.7	117.1	8.82	8.71	8.77	1.27	1.24	1.26
			Middle																			
	15:13		Bottom	4.6	19.26	19.23	19.25	8.04	8.02	8.03	34.63	34.60	34.62	84.9	84.7	84.8	6.36	6.33	6.35	2.20	2.17	2.19
2/1/2024	7:25	Fine	Surface	1.0	19.99	19.99	19.99	8.20	8.20	8.20	33.79	33.79	33.79	111.2	111.4	111.3	8.30	8.32	8.31	1.52	1.54	1.53
			Middle																			
	7:29		Bottom	4.6	19.86	19.86	19.86	8.22	8.22	8.22	34.27	34.27	34.27	107.5	107.7	107.6	8.00	8.02	8.01	1.84	1.86	1.85
4/1/2024	16:26	Fine	Surface	1.0	19.36	19.36	19.36	8.21	8.21	8.21	33.63	33.63	33.63	107.4	107.2	107.3	8.11	8.09	8.10	1.63	1.65	1.64
			Middle																			
	16:30		Bottom	4.6	19.40	19.40	19.40	8.21	8.21	8.21	33.68	33.68	33.68	105.7	105.5	105.6	7.97	7.95	7.96	1.87	1.89	1.88
6/1/2024	9:00	Fine	Surface	1.0	19.82	19.84	19.83	8.20	8.18	8.19	33.90	33.87	33.89	114.1	114.3	114.2	8.53	8.56	8.55	1.42	1.44	1.43
			Middle																			
	9:04		Bottom	4.7	19.52	19.56	19.54	7.91	7.93	7.92	34.82	34.81	34.82	51.7	51.2	51.5	3.85	3.82	3.84	3.12	3.16	3.14
8/1/2024	9:31	Fine	Surface	1.0	20.10	20.10	20.10	8.22	8.22	8.22	34.10	34.10	34.10	103.9	103.7	103.8	7.71	7.69	7.70	1.45	1.48	1.47
			Middle																			
	9:35		Bottom	4.6	20.01	20.01	20.01	8.15	8.15	8.15	34.19	34.19	34.19	91.6	91.8	91.7	6.79	6.81	6.80	1.62	1.65	1.64
10/1/2024	11:11	Fine	Surface	1.0	20.39	20.39	20.39	8.24	8.24	8.24	34.40	34.40	34.40	103.3	103.5	103.4	7.65	7.67	7.66	1.50	1.51	1.51
			Middle																			
	11:15		Bottom	4.7	20.13	20.13	20.13	8.22	8.22	8.22	34.35	34.35	34.35	104.8	104.6	104.7	7.77	7.75	7.76	1.54	1.56	1.55
12/1/2024	14:07	Fine	Surface	1.0	20.61	20.63	20.62	8.28	8.29	8.29	33.78	33.82	33.80	119.5	118.8	119.2	8.82	8.72	8.77	1.41	1.43	1.42
			Middle																			
	14:11		Bottom	4.7	19.81	19.83	19.82	8.03	8.05	8.04	34.79	34.77	34.78	64.7	64.9	64.8	4.80	4.82	4.81	2.59	2.57	2.58
15/1/2024	16:39	Fine	Surface	1.0	20.39	20.38	20.39	8.28	8.26	8.27	34.23	34.21	34.22	120.4	119.8	120.1	8.87	8.83	8.85	1.60	1.63	1.62
			Middle																			
	16:43		Bottom	4.6	19.99	19.96	19.98	7.97	7.96	7.97	34.85	34.82	34.84	57.2	57.0	57.1	4.22	4.20	4.21	2.37	2.35	2.36
17/1/2024	18:37	Cloudy	Surface	1.0	20.39	20.37	20.38	8.31	8.32	8.32	34.15	34.16	34.16	112.0	109.8	110.9	8.26	8.24	8.25	1.61	1.63	1.62
			Middle																			
	18:41		Bottom	4.7	20.27	20.26	20.27	8.23	8.25	8.24	34.48	34.45	34.47	102.4	102.7	102.6	7.56	7.59	7.58	2.01	2.04	2.03
19/1/2024	8:43	Fine	Surface	1.0	20.91	20.92	20.92	8.31	8.32	8.32	33.86	33.81	33.84	117.3	117.1	117.2	8.58	8.56	8.57	2.07	2.05	2.06
			Middle																			
	8:47		Bottom	4.7	20.08	20.06	20.07	8.15	8.17	8.16	34.72	34.74	34.73	83.1	82.6	82.9	6.19	6.14	6.17	3.40	3.42	3.41

Water Monitoring Result at W2 - WSD Seawater Intake at Tai Po
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	5:49	Cloudy	Surface	1.0	24.39	24.39	24.39	8.68	8.68	8.68	31.37	31.37	31.37	111.5	111.3	111.4	7.78	7.75	7.77	2.16	2.18	2.17
			Middle																			
	5:51		Bottom	3.4	24.22	24.22	24.22	8.71	8.71	8.71	31.53	31.53	31.53	106.1	106.3	106.2	7.41	7.43	7.42	1.33	1.35	1.34
30/11/2023	7:33	Cloudy	Surface	1.0	24.17	24.17	24.17	8.79	8.79	8.79	31.59	31.59	31.59	111.7	111.2	111.5	7.83	7.78	7.81	1.04	1.09	1.07
			Middle																			
	7:34		Bottom	3.5	24.07	24.07	24.07	8.60	8.60	8.60	32.19	32.19	32.19	69.0	69.6	69.3	4.84	4.90	4.87	1.21	1.18	1.20
1/12/2023	8:34	Fine	Surface	1.0	24.07	24.07	24.07	8.77	8.77	8.77	31.18	31.18	31.18	116.4	116.5	116.5	8.18	8.19	8.19	1.42	1.45	1.44
			Middle																			
	8:38		Bottom	3.4	24.01	24.01	24.01	8.72	8.72	8.72	32.05	32.05	32.05	87.5	87.8	87.7	6.13	6.16	6.15	0.60	0.63	0.62
4/12/2023	7:41	Fine	Surface	1.0	23.61	23.60	23.61	8.71	8.73	8.72	31.19	31.22	31.21	107.1	107.3	107.2	7.59	7.62	7.61	1.33	1.35	1.34
			Middle																			
	7:45		Bottom	3.4	23.91	23.91	23.91	8.26	8.28	8.27	32.47	32.49	32.48	32.6	32.9	32.8	2.28	2.30	2.29	2.18	2.20	2.19
6/12/2023	13:03	Cloudy	Surface	1.0	24.00	24.00	24.00	8.93	8.93	8.93	31.94	31.94	31.94	103.1	103.2	103.2	7.23	7.24	7.24	1.16	1.20	1.18
			Middle																			
	13:07		Bottom	3.5	23.88	23.88	23.88	8.61	8.61	8.61	32.45	32.45	32.45	41.9	42.3	42.1	2.94	2.98	2.96	1.38	1.40	1.39
8/12/2023	14:04	Fine	Surface	1.0	22.89	22.89	22.89	8.93	8.93	8.93	32.03	32.03	32.03	96.5	96.8	96.7	6.90	6.93	6.92	1.01	1.04	1.03
			Middle																			
	14:08		Bottom	3.4	23.21	23.21	23.21	8.79	8.79	8.79	32.29	32.29	32.29	79.8	79.9	79.9	5.65	5.66	5.66	1.74	1.76	1.75
11/12/2023	6:03	Cloudy	Surface	1.0	23.66	23.66	23.66	9.07	9.07	9.07	31.89	31.89	31.89	118.5	118.3	118.4	8.36	8.34	8.35	0.51	0.54	0.53
			Middle																			
	6:07		Bottom	3.4	23.05	23.05	23.05	9.03	9.03	9.03	32.01	32.01	32.01	115.4	115.2	115.3	8.15	8.13	8.14	0.85	0.87	0.86
13/12/2023	6:03	Cloudy	Surface	1.0	24.85	24.85	24.85	8.36	8.36	8.36	31.56	31.56	31.56	115.5	115.7	115.6	7.99	8.01	8.00	0.84	0.85	0.85
			Middle																			
	6:07		Bottom	3.4	24.57	24.57	24.57	8.37	8.37	8.37	31.69	31.69	31.69	115.3	115.2	115.3	8.02	8.01	8.02	1.10	1.09	1.10
15/12/2023	8:03	Fine	Surface	1.0	24.24	24.23	24.24	8.29	8.30	8.30	31.10	31.12	31.11	120.9	121.2	121.1	8.49	8.52	8.51	0.55	0.58	0.57
			Middle																			
	8:07		Bottom	3.4	23.69	23.70	23.70	8.01	8.02	8.02	31.91	31.92	31.92	67.8	68.0	67.9	4.79	4.80	4.80	1.25	1.24	1.25
18/12/2023	10:03	Cloudy	Surface	1.0	22.61	22.61	22.61	8.06	8.06	8.06	32.63	32.63	32.63	68.6	68.4	68.5	4.93	4.91	4.92	0.55	0.56	0.56
			Middle																			
	10:07		Bottom	3.4	22.76	22.76	22.76	8.06	8.06	8.06	32.84	32.84	32.84	68.4	68.2	68.3	4.87	4.85	4.86	0.69	0.71	0.70
20/12/2023	13:22	Cloudy	Surface	1.0	21.42	21.44	21.43	8.09	8.05	8.07	34.26	34.27	34.27	85.6	85.7	85.7	6.18	6.19	6.19	1.44	1.43	1.44
			Middle																			
	13:26		Bottom	3.3	21.37	21.35	21.36	8.01	8.02	8.02	34.30	34.33	34.32	84.4	84.7	84.6	6.03	6.08	6.06	1.53	1.55	1.54
22/12/2023	13:44	Cloudy	Surface	1.0	19.58	19.57	19.58	8.07	8.07	8.07	34.10	34.10	34.10	91.9	91.8	91.9	6.90	6.90	6.90	2.12	2.11	2.12
			Middle																			
	13:48		Bottom	3.4	19.55	19.56	19.56	8.06	8.06	8.06	34.10	34.10	34.10	91.4	91.3	91.4	6.86	6.85	6.86	2.34	2.35	2.35
26/12/2023	5:45	Cloudy	Surface	1.0	18.25	18.24	18.25	8.04	8.05	8.05	34.08	34.09	34.09	99.2	99.6	99.4	7.62	7.65	7.64	2.00	1.99	2.00
			Middle																			
	5:49		Bottom	3.4	18.26	18.29	18.28	8.08	8.08	8.08	34.10	34.10	34.10	99.0	99.2	99.1	7.59	7.60	7.60	2.43	2.42	2.43
28/12/2023	13:00	Fine	Surface	1.0	18.96	18.95	18.96	8.15	8.18	8.17	34.06	34.09	34.08	110.0	109.5	109.8	8.33	8.29	8.31	1.53	1.50	1.52
			Middle																			
	13:04		Bottom	3.3	19.02	19.03	19.03	8.01	8.04	8.03	34.44	34.46	34.45	74.7	74.5	74.6	5.65	5.63	5.64	3.09	3.06	3.08
30/12/2023	9:35	Fine	Surface	1.0	19.69	19.67	19.68	8.19	8.24	8.22	33.84	33.83	33.84	117.1	117.3	117.2	8.77	8.81	8.79	1.16	1.14	1.15
			Middle																			
	9:39		Bottom	3.5	19.15	19.19	19.17	8.11	8.14	8.13	34.58	34.56	34.57	96.8	96.6	96.7	7.29	7.25	7.27	1.74	1.72	1.73
2/1/2024	13:47	Fine	Surface	1.0	20.46	20.46	20.46	8.25	8.25	8.25	33.61	33.61	33.61	109.1	109.4	109.3	8.07	8.10	8.09	1.92	1.94	1.93
			Middle																			
	13:51		Bottom	3.6	20.37	20.37	20.37	8.25	8.25	8.25	33.65	33.65	33.65	109.3	109.5	109.4	8.09	8.11	8.10	2.02	2.04	2.03
4/1/2024	11:33	Fine	Surface	1.0	19.66	19.66	19.66	8.19	8.19	8.19	34.07	34.07	34.07	106.4	106.6	106.5	7.96	7.98	7.97	1.38	1.40	1.39
			Middle																			
	11:37		Bottom	3.5	19.96	19.96	19.96	8.17	8.17	8.17	34.36	34.36	34.36	107.4	107.2	107.3	7.99	7.97	7.98	1.88	1.86	1.87
6/1/2024	14:15	Fine	Surface	1.0	20.35	20.37	20.36	8.18	8.17	8.18	33.86	33.84	33.85	115.2	114.7	115.0	8.52	8.46	8.49	1.40	1.43	1.42
			Middle																			
	14:19		Bottom	3.4	19.31	19.27	19.29	8.05	8.03	8.04	34.90	34.93	34.92	77.7	78.0	77.9	5.82	5.86	5.84	2.04	2.08	2.06
8/1/2024	13:52	Fine	Surface	1.0	20.66	20.66	20.66	8.21	8.21	8.21	33.72	33.72	33.72	107.2	107.0	107.1	7.89	7.87	7.88	1.82	1.80	1.81
			Middle																			
	13:56		Bottom	3.6	20.19	20.19	20.19	8.23	8.23	8.23	34.02	34.02	34.02	105.5	105.3	105.4	7.82	7.80	7.81	1.35	1.32	1.34
10/1/2024	14:38	Fine	Surface	1.0	20.18	20.18	20.18	8.24	8.24	8.24	33.82	33.82	33.82	114.7	114.5	114.6	8.41	8.39	8.40	1.55	1.57	1.56
			Middle																			
	14:42		Bottom	3.5	20.21	20.21	20.21	8.20	8.20	8.20	34.37	34.37	34.37	111.1	111.3	111.2	8.21	8.23	8.22	1.44	1.46	1.45
12/1/2024	18:56	Fine	Surface	1.0	20.66	20.64	20.65	8.19	8.17	8.18	33.62	33.60	33.61	114.1	113.7	113.9	8.40	8.32	8.36	1.47	1.45	1.46
			Middle																			
	19:00		Bottom	3.6	19.68	19.69	19.69	8.05	8.07	8.06	34.91	34.94	34.93	75.2	75.4	75.3	5.62	5.65	5.64	5.09	5.11	5.10
15/1/2024	10:10	Fine	Surface	1.0	20.67	20.66	20.67	8.17	8.16	8.17	33.97	33.99	33.98	114.5	114.1	114.3	8.43	8.39	8.41	1.88	1.92	1.90
			Middle																			
	10:14		Bottom	3.5	19.78	19.77	19.78	8.06	8.05	8.06	34.89	34.92	34.91	84.1	83.9	84.0	6.24	6.22	6.23	2.32	2.35	2.34
17/1/2024	11:41	Cloudy	Surface	1.0	20.55	20.53	20.54	8.27	8.26	8.27	34.08	34.06	34.07	112.6	112.2	112.4	8.30	8.24	8.27	1.78	1.77	1.78
			Middle																			
	11:45		Bottom	3.5	20.05	20.02	20.04	8.17	8.15	8.16	34.79	34.77	34.78	95.0	95.1	95.1	7.03	7.04	7.04	1.71	1.72	1.72
19/1/2024	13:17	Fine	Surface	1.0	20.95	20.97	20.96	8.25	8.24	8.25	34.32	34.30	34.31	113.6	113.4	113.5	8.29	8.27	8.28	1.40	1.41	1.41
			Middle																			
	13:21		Bottom	3.6	20.28	20.27	20.28	8.08	8.07	8.08	34.68	34.71	34.70	68.6	68.0	68.3	5.04	4.99	5.02	3.12	3.14	3.13

Water Monitoring Result at W2 - WSD Seawater Intake at Tai Po
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	11:47	Cloudy	Surface	1.0	24.40	24.40	24.40	8.69	8.69	8.69	31.39	31.39	31.39	111.9	111.7	111.8	7.82	7.80	7.81	2.19	2.29	2.24
			Middle																			
	11:51		Bottom	3.3	24.23	24.23	24.23	8.72	8.72	8.72	31.55	31.55	31.55	105.8	105.7	105.8	7.38	7.37	7.38	1.41	1.42	1.42
30/11/2023	13:35	Cloudy	Surface	1.0	24.18	24.18	24.18	8.80	8.80	8.80	31.60	31.60	31.60	111.1	111.3	111.2	7.86	7.89	7.88	1.00	1.02	1.01
			Middle																			
	13:39		Bottom	3.3	24.07	24.07	24.07	8.60	8.60	8.60	32.20	32.20	32.20	69.5	69.7	69.6	4.89	4.91	4.90	1.24	1.26	1.25
1/12/2023	15:47	Fine	Surface	1.0	24.67	24.67	24.67	8.78	8.78	8.78	31.20	31.20	31.20	116.6	116.4	116.5	8.20	8.18	8.19	1.44	1.46	1.45
			Middle																			
	15:51		Bottom	3.2	24.01	24.01	24.01	8.74	8.74	8.74	32.05	32.05	32.05	87.9	87.7	87.8	6.17	6.15	6.16	0.68	0.66	0.67
4/12/2023	16:02	Fine	Surface	1.0	23.73	23.73	23.73	8.70	8.68	8.69	31.17	31.19	31.18	109.2	109.4	109.3	7.72	7.76	7.74	1.32	1.38	1.35
			Middle																			
	16:06		Bottom	3.4	23.92	23.92	23.92	8.29	8.27	8.28	32.43	32.46	32.45	33.9	33.7	33.8	2.39	2.34	2.37	1.93	1.98	1.96
6/12/2023	6:32	Cloudy	Surface	1.0	23.99	23.99	23.99	8.92	8.92	8.92	31.96	31.96	31.96	102.9	103.0	103.0	7.20	7.22	7.21	1.14	1.16	1.15
			Middle																			
	6:36		Bottom	3.3	23.90	23.90	23.90	8.60	8.60	8.60	32.46	32.46	32.46	41.4	41.6	41.5	2.89	2.91	2.90	1.35	1.38	1.37
8/12/2023	7:33	Fine	Surface	1.0	22.94	22.94	22.94	8.95	8.95	8.95	32.01	32.01	32.01	96.6	96.8	96.7	6.90	6.92	6.91	0.99	1.02	1.01
			Middle																			
	7:37		Bottom	3.2	23.18	23.18	23.18	8.80	8.80	8.80	32.26	32.26	32.26	80.7	80.9	80.8	5.72	5.74	5.73	1.75	1.76	1.76
11/12/2023	11:38	Cloudy	Surface	1.0	23.70	23.70	23.70	8.45	8.45	8.45	31.88	31.88	31.88	119.7	119.9	119.8	8.44	8.46	8.45	0.71	0.73	0.72
			Middle																			
	11:42		Bottom	3.2	23.49	23.49	23.49	9.03	9.03	9.03	32.03	32.03	32.03	112.3	112.5	112.4	7.93	7.95	7.94	0.82	0.85	0.84
13/12/2023	10:52	Cloudy	Surface	1.0	24.82	24.82	24.82	8.37	8.37	8.37	31.56	31.56	31.56	116.0	116.2	116.1	8.03	8.05	8.04	0.81	0.84	0.83
			Middle																			
	10:56		Bottom	3.2	24.65	24.65	24.65	8.37	8.37	8.37	31.69	31.69	31.69	115.8	115.6	115.7	8.04	8.02	8.03	1.01	1.04	1.03
15/12/2023	12:59	Fine	Surface	1.0	24.22	24.21	24.22	8.38	8.39	8.39	31.11	31.12	31.12	131.7	131.8	131.8	9.24	9.25	9.25	0.41	0.45	0.43
			Middle																			
	13:03		Bottom	3.1	23.63	23.62	23.63	8.06	8.07	8.07	31.98	31.99	31.99	69.3	69.0	69.2	4.85	4.83	4.84	0.16	0.17	0.17
18/12/2023	14:17	Cloudy	Surface	1.0	22.56	22.56	22.56	8.06	8.06	8.06	32.63	32.63	32.63	68.7	68.9	68.8	4.92	4.95	4.94	0.54	0.55	0.55
			Middle																			
	14:21		Bottom	3.2	22.58	22.58	22.58	8.05	8.05	8.05	32.77	32.77	32.77	69.3	69.5	69.4	4.94	4.96	4.95	0.68	0.70	0.69
20/12/2023	7:21	Cloudy	Surface	1.0	21.33	21.34	21.34	8.07	8.08	8.08	34.29	34.28	34.29	86.4	86.2	86.3	6.26	6.23	6.25	1.38	1.36	1.37
			Middle																			
	7:25		Bottom	3.4	21.32	21.33	21.33	8.10	8.13	8.12	34.20	34.18	34.19	86.1	87.4	86.8	6.22	6.11	6.17	1.39	1.43	1.41
22/12/2023	7:27	Cloudy	Surface	1.0	19.57	19.56	19.57	8.08	8.09	8.09	34.10	34.10	34.10	91.5	91.6	91.6	6.87	6.87	6.87	2.31	2.32	2.32
			Middle																			
	7:31		Bottom	3.4	19.59	19.58	19.59	8.06	8.07	8.07	34.10	34.10	34.10	91.1	90.8	91.0	6.83	6.81	6.82	2.62	2.61	2.62
26/12/2023	10:45	Cloudy	Surface	1.0	18.25	18.23	18.24	8.07	8.07	8.07	34.07	34.06	34.07	101.2	101.4	101.3	7.80	7.81	7.81	1.80	1.79	1.80
			Middle																			
	10:49		Bottom	3.3	18.24	18.24	18.24	8.06	8.07	8.07	34.09	34.10	34.10	100.6	100.5	100.6	7.73	7.73	7.73	1.98	1.97	1.98
28/12/2023	8:48	Fine	Surface	1.0	18.99	18.99	18.99	8.14	8.16	8.15	34.08	34.10	34.09	110.6	110.4	110.5	8.38	8.36	8.37	1.38	1.39	1.39
			Middle																			
	8:52		Bottom	3.5	19.07	19.08	19.08	7.99	8.01	8.00	34.57	34.59	34.58	75.2	75.4	75.3	5.67	5.66	5.67	3.14	3.16	3.15
30/12/2023	14:15	Fine	Surface	1.0	19.62	19.63	19.63	8.17	8.18	8.18	33.90	33.91	33.91	116.9	116.5	116.7	8.76	8.74	8.75	1.16	1.15	1.16
			Middle																			
	14:19		Bottom	3.4	19.17	19.15	19.16	8.10	8.07	8.09	34.54	34.52	34.53	93.2	93.4	93.3	7.01	7.05	7.03	1.88	1.86	1.87
2/1/2024	6:33	Fine	Surface	1.0	20.45	20.45	20.45	8.25	8.25	8.25	33.62	33.62	33.62	109.3	109.6	109.5	8.08	8.10	8.09	1.96	1.97	1.97
			Middle																			
	6:37		Bottom	3.3	20.37	20.37	20.37	8.25	8.25	8.25	33.67	33.67	33.67	109.1	109.3	109.2	8.07	8.09	8.08	2.08	2.10	2.09
4/1/2024	17:33	Fine	Surface	1.0	19.67	19.67	19.67	8.18	8.18	8.18	34.05	34.05	34.05	106.5	106.3	106.4	7.97	7.95	7.96	1.33	1.35	1.34
			Middle																			
	17:37		Bottom	3.4	19.96	19.96	19.96	8.18	8.18	8.18	34.37	34.37	34.37	107.7	107.9	107.8	8.00	8.02	8.01	1.65	1.67	1.66
6/1/2024	8:08	Fine	Surface	1.0	20.27	20.28	20.28	8.15	8.17	8.16	33.89	33.91	33.90	115.6	115.4	115.5	8.56	8.52	8.54	1.40	1.42	1.41
			Middle																			
	8:12		Bottom	3.5	19.37	19.35	19.36	8.06	8.04	8.05	34.91	34.94	34.93	84.5	84.3	84.4	6.33	6.30	6.32	2.60	2.62	2.61
8/1/2024	8:48	Fine	Surface	1.0	20.62	20.62	20.62	8.20	8.20	8.20	33.72	33.72	33.72	107.7	107.5	107.6	7.93	7.91	7.92	1.87	1.89	1.88
			Middle																			
	8:52		Bottom	3.4	20.19	20.19	20.19	8.23	8.23	8.23	34.02	34.02	34.02	105.8	105.6	105.7	7.84	7.82	7.83	1.62	1.64	1.63
10/1/2024	10:18	Fine	Surface	1.0	21.33	21.33	21.33	8.37	8.37	8.37	33.52	33.52	33.52	113.8	113.6	113.7	8.30	8.28	8.29	1.64	1.66	1.65
			Middle																			
	10:22		Bottom	3.5	20.40	20.40	20.40	8.23	8.23	8.23	34.32	34.32	34.32	109.2	109.4	109.3	8.07	8.09	8.08	1.41	1.43	1.42
12/1/2024	13:14	Fine	Surface	1.0	20.62	20.61	20.62	8.15	8.13	8.14	33.68	33.70	33.69	114.7	114.5	114.6	8.44	8.42	8.43	1.48	1.42	1.45
			Middle																			
	13:18		Bottom	3.5	19.95	19.94	19.95	8.10	8.08	8.09	34.70	34.68	34.69	90.3	89.9	90.1	6.72	6.68	6.70	1.73	1.78	1.76
15/1/2024	15:45	Fine	Surface	1.0	20.57	20.55	20.56	8.16	8.14	8.15	33.98	33.94	33.96	110.8	110.7	110.8	8.17	8.15	8.16	1.84	1.82	1.83
			Middle																			
	15:49		Bottom	3.4	19.76	19.74	19.75	8.07	8.08	8.08	34.92	34.94	34.93	83.2	83.5	83.4	6.19	6.20	6.20	2.28	2.29	2.29
17/1/2024	17:43	Cloudy	Surface	1.0	20.56	20.57	20.57	8.30	8.31	8.31	34.06	34.07	34.07	112.7	113.0	112.9	8.34	8.38	8.36	1.83	1.84	1.84
			Middle																			
	17:47		Bottom	3.5	20.04	20.06	20.05	8.18	8.17	8.18	34.81	34.83	34.82	95.4	95.6	95.5	7.08	7.10	7.09	1.74	1.76	1.75
19/1/2024	7:50	Fine	Surface	1.0	20.97	20.98	20.98	8.28	8.30	8.29	34.30	34.32	34.31	114.3	114.5	114.4	8.34	8.36	8.35	1.38	1.39	1.39
			Middle																			
	7:54		Bottom	3.4	20.26	20.24	20.25	8.09	8.10	8.10	34.66	34.64	34.65	69.9	70.3	70.1	5.16	5.20	5.18	2.81	2.80	2.81

Water Monitoring Result at C1 - Cooling Water Intake at CUHK Marine Science Laboratory
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	6:10	Cloudy	Surface	1.0	23.84	23.84	23.84	8.65	8.65	8.65	31.50	31.50	31.50	113.3	113.5	113.4	8.01	8.03	8.02	0.91	0.93	0.92
			Middle																			
	6:14		Bottom	4.8	24.03	24.03	24.03	8.55	8.55	8.55	31.88	31.88	31.88	99.4	99.2	99.3	6.96	6.94	6.95	0.75	0.77	0.76
30/11/2023	7:56	Cloudy	Surface	1.0	24.09	24.09	24.09	8.83	8.83	8.83	31.18	31.18	31.18	111.8	112.0	111.9	7.91	7.93	7.92	1.02	1.04	1.03
			Middle																			
	8:00		Bottom	4.9	24.20	24.20	24.20	8.57	8.57	8.57	32.12	32.12	32.12	72.0	72.4	72.2	5.03	5.05	5.04	0.80	0.84	0.82
1/12/2023	8:58	Fine	Surface	1.0	23.79	23.79	23.79	8.82	8.82	8.82	31.05	31.05	31.05	112.5	112.3	112.4	7.96	7.94	7.95	1.04	1.01	1.03
			Middle																			
	9:02		Bottom	4.8	24.01	24.01	24.01	8.72	8.72	8.72	31.46	31.46	31.46	105.2	105.4	105.3	7.43	7.45	7.44	0.93	0.96	0.95
4/12/2023	8:04	Fine	Surface	1.0	23.48	23.45	23.47	8.69	8.66	8.68	31.30	31.29	31.30	106.2	106.4	106.3	7.54	7.56	7.55	1.68	1.70	1.69
			Middle																			
	8:08		Bottom	4.8	23.19	23.19	23.19	8.68	8.71	8.70	31.60	31.88	31.74	118.3	118.1	118.2	8.43	8.40	8.42	0.74	0.72	0.73
6/12/2023	13:23	Cloudy	Surface	1.0	23.68	23.68	23.68	8.75	8.75	8.75	31.85	31.85	31.85	90.6	90.8	90.7	6.36	6.38	6.37	0.90	0.92	0.91
			Middle																			
	13:27		Bottom	4.7	23.62	23.62	23.62	8.61	8.61	8.61	32.45	32.49	32.47	62.2	62.4	62.3	4.36	4.40	4.38	0.88	0.89	0.89
8/12/2023	14:23	Fine	Surface	1.0	22.59	22.59	22.59	8.94	8.94	8.94	31.92	31.92	31.92	105.4	105.6	105.5	7.58	7.60	7.59	0.71	0.74	0.73
			Middle																			
	14:27		Bottom	4.8	22.61	22.61	22.61	8.87	8.87	8.87	31.96	31.91	31.94	100.2	100.4	100.3	7.19	7.21	7.20	0.66	0.68	0.67
11/12/2023	6:22	Cloudy	Surface	1.0	23.66	23.66	23.66	9.00	9.00	9.00	31.98	31.98	31.98	121.5	121.3	121.4	8.56	8.54	8.55	0.55	0.58	0.57
			Middle																			
	6:26		Bottom	4.8	23.48	23.48	23.48	9.00	9.00	9.00	32.05	32.05	32.05	110.2	110.0	110.1	7.79	7.77	7.78	0.58	0.60	0.59
13/12/2023	6:24	Cloudy	Surface	1.0	24.21	24.21	24.21	8.34	8.34	8.34	32.14	32.14	32.14	112.8	112.9	112.9	7.87	7.88	7.88	0.70	0.71	0.71
			Middle																			
	6:28		Bottom	4.8	24.09	24.09	24.09	8.30	8.30	8.30	32.34	32.34	32.34	104.1	104.1	104.1	7.27	7.26	7.27	0.79	0.80	0.80
15/12/2023	8:49	Fine	Surface	1.0	24.12	24.13	24.13	8.32	8.33	8.33	31.03	31.04	31.04	127.8	127.9	127.9	8.98	8.99	8.99	0.38	0.37	0.38
			Middle																			
	8:53		Bottom	4.8	23.58	23.59	23.59	7.92	7.93	7.93	32.02	32.01	32.02	55.4	54.8	55.1	3.90	3.86	3.88	0.78	0.79	0.79
18/12/2023	10:23	Cloudy	Surface	1.0	22.30	22.30	22.30	8.22	8.22	8.22	32.47	32.47	32.47	89.7	89.9	89.8	6.46	6.48	6.47	0.46	0.50	0.48
			Middle																			
	10:27		Bottom	4.8	22.39	22.39	22.39	8.20	8.20	8.20	32.50	32.50	32.50	83.8	84.0	83.9	5.97	5.99	5.98	0.62	0.63	0.63
20/12/2023	13:43	Cloudy	Surface	1.0	21.13	21.09	21.11	8.02	8.04	8.03	33.79	33.77	33.78	87.7	87.5	87.6	6.40	6.38	6.39	1.59	1.60	1.60
			Middle																			
	13:47		Bottom	4.9	21.10	21.06	21.08	8.10	8.08	8.09	33.91	33.94	33.93	85.7	85.4	85.6	6.24	6.22	6.23	1.86	1.89	1.88
22/12/2023	14:12	Cloudy	Surface	1.0	19.20	19.19	19.20	8.07	8.08	8.08	33.97	33.98	33.98	92.6	92.7	92.7	6.99	6.99	6.99	1.69	1.68	1.69
			Middle																			
	14:16		Bottom	4.8	19.24	19.23	19.24	8.06	8.06	8.06	33.96	33.97	33.97	91.9	92.0	92.0	6.95	6.95	6.95	1.76	1.75	1.76
26/12/2023	6:08	Cloudy	Surface	1.0	17.81	17.81	17.81	8.16	8.16	8.16	33.92	33.91	33.92	108.3	108.4	108.4	8.41	8.41	8.41	1.89	1.88	1.89
			Middle																			
	6:12		Bottom	4.8	17.89	17.89	17.89	8.13	8.13	8.13	33.98	33.99	33.99	107.3	107.2	107.3	8.30	8.30	8.30	1.83	1.84	1.84
28/12/2023	13:21	Fine	Surface	1.0	18.40	18.40	18.40	8.15	8.13	8.14	33.48	33.52	33.50	113.4	113.9	113.7	8.72	8.78	8.75	1.46	1.49	1.48
			Middle																			
	13:25		Bottom	4.9	18.40	18.33	18.37	8.19	8.17	8.18	34.09	34.06	34.08	106.2	106.6	106.4	8.15	8.18	8.17	1.66	1.64	1.65
30/12/2023	9:55	Fine	Surface	1.0	19.60	19.63	19.62	8.24	8.25	8.25	33.63	33.66	33.65	116.3	116.2	116.3	8.71	8.69	8.70	1.32	1.34	1.33
			Middle																			
	9:59		Bottom	4.7	19.24	19.21	19.23	8.08	8.05	8.07	34.72	34.74	34.73	86.7	86.5	86.6	6.43	6.41	6.42	2.49	2.47	2.48
2/1/2024	14:07	Fine	Surface	1.0	19.81	19.81	19.81	8.25	8.25	8.25	34.13	34.13	34.13	109.6	109.8	109.7	8.18	8.20	8.19	1.09	1.11	1.10
			Middle																			
	14:11		Bottom	4.9	19.80	19.80	19.80	8.25	8.25	8.25	34.19	34.19	34.19	108.9	109.1	109.0	8.12	8.14	8.13	1.22	1.24	1.23
4/1/2024	11:53	Fine	Surface	1.0	19.39	19.39	19.39	8.17	8.17	8.17	33.95	33.95	33.95	108.0	108.2	108.1	8.12	8.14	8.13	1.33	1.35	1.34
			Middle																			
	11:57		Bottom	4.8	19.36	19.36	19.36	8.20	8.20	8.20	34.02	34.02	34.02	107.0	107.2	107.1	8.05	8.07	8.06	1.39	1.41	1.40
6/1/2024	14:37	Fine	Surface	1.0	19.80	19.83	19.82	8.20	8.18	8.19	33.92	33.94	33.93	114.5	114.7	114.6	8.56	8.59	8.58	1.34	1.36	1.35
			Middle																			
	14:41		Bottom	4.9	19.67	19.60	19.64	7.80	7.82	7.81	34.93	34.96	34.95	49.8	49.4	49.6	3.71	3.66	3.69	3.03	3.00	3.02
8/1/2024	14:12	Fine	Surface	1.0	19.88	19.88	19.88	8.21	8.21	8.21	34.26	34.26	34.26	106.2	106.0	106.1	7.89	7.87	7.88	1.10	1.08	1.09
			Middle																			
	14:16		Bottom	4.9	19.75	19.75	19.75	8.21	8.21	8.21	34.35	34.35	34.35	104.6	104.4	104.5	7.80	7.79	7.80	1.00	1.01	1.01
10/1/2024	14:58	Fine	Surface	1.0	20.15	20.15	20.15	8.23	8.23	8.23	34.30	34.30	34.30	107.8	107.6	107.7	7.99	7.97	7.98	1.35	1.33	1.34
			Middle																			
	15:02		Bottom	4.7	20.12	20.12	20.12	8.23	8.23	8.23	34.36	34.36	34.36	107.2	107.0	107.1	7.94	7.92	7.93	1.47	1.50	1.49
12/1/2024	19:17	Fine	Surface	1.0	20.58	20.52	20.55	8.25	8.23	8.24	33.85	33.90	33.88	116.5	116.7	116.6	8.59	8.62	8.61	1.33	1.36	1.35
			Middle																			
	19:21		Bottom	4.8	19.92	19.90	19.91	8.04	8.02	8.03	34.79	34.80	34.80	73.9	73.7	73.8	5.54	5.52	5.53	2.01	2.03	2.02
15/1/2024	10:30	Fine	Surface	1.0	20.86	20.84	20.85	8.25	8.23	8.24	33.40	33.38	33.39	121.6	121.8	121.7	8.94	8.96	8.95	1.98	2.00	1.99
			Middle																			
	10:34		Bottom	4.8	19.91	19.92	19.92	7.94	7.96	7.95	34.91	34.92	34.92	47.6	47.3	47.5	3.51	3.49	3.50	3.30	3.28	3.29
17/1/2024	12:01	Cloudy	Surface	1.0	20.39	20.37	20.38	8.26	8.24	8.25	34.09	34.07	34.08	109.6	109.7	109.7	8.09	8.10	8.10	1.66	1.68	1.67
			Middle																			
	12:05		Bottom	4.9	20.06	20.09	20.08	8.21	8.22	8.22	34.64	34.60	34.62	98.9	98.6	98.8	7.32	7.29	7.31	1.90	1.92	1.91
19/1/2024	13:37	Fine	Surface	1.0	21.04	21.02	21.03	8.30	8.28	8.29	33.77	33.79	33.78	117.2	116.8	117.0	8.56	8.47	8.52	2.13	2.16	2.15
			Middle																			
	13L41		Bottom	4.8	19.99	19.97	19.98	8.12	8.10	8.11	34.80	34.82	34.81	78.2	77.9	78.1	5.78	5.70	5.74	3.40	3.37	3.39

Water Monitoring Result at C1 - Cooling Water Intake at CUHK Marine Science Laboratory
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	12:08	Cloudy	Surface	1.0	23.84	23.84	23.84	8.62	8.62	8.62	31.53	31.53	31.53	112.5	112.7	112.6	7.93	7.95	7.94	0.95	1.00	0.98
			Middle																			
	12:12		Bottom	4.6	24.03	24.07	24.05	8.55	8.55	8.55	31.89	31.88	31.89	100.0	100.2	100.1	7.02	7.04	7.03	0.84	0.86	0.85
30/11/2023	13:13	Cloudy	Surface	1.0	24.69	24.69	24.69	8.83	8.83	8.83	31.18	31.18	31.18	111.2	111.4	111.3	7.85	7.87	7.86	1.09	1.11	1.10
			Middle																			
	13:17		Bottom	4.7	24.20	24.20	24.20	8.57	8.57	8.57	32.12	32.12	32.12	72.2	72.7	72.5	5.05	5.10	5.08	0.81	0.82	0.82
1/12/2023	15:27	Fine	Surface	1.0	23.83	23.83	23.83	8.81	8.81	8.81	31.08	31.08	31.08	113.0	113.0	113.0	7.98	7.98	7.98	1.11	1.11	1.11
			Middle																			
	15:31		Bottom	4.7	24.24	24.24	24.24	8.20	8.20	8.20	31.66	31.66	31.66	98.8	98.9	98.9	6.92	6.93	6.93	1.10	1.11	1.11
4/12/2023	16:24	Fine	Surface	1.0	23.38	23.37	23.38	8.75	8.76	8.76	31.35	31.33	31.34	113.0	113.3	113.2	8.04	8.08	8.06	1.53	1.57	1.55
			Middle																			
	16:28		Bottom	4.5	23.18	23.18	23.18	8.71	8.73	8.72	31.61	31.63	31.62	118.3	118.6	118.5	8.44	8.40	8.42	0.80	0.82	0.81
6/12/2023	6:51	Cloudy	Surface	1.0	23.68	23.68	23.68	8.74	8.74	8.74	31.84	31.84	31.84	92.1	92.4	92.3	6.50	6.53	6.52	0.88	0.90	0.89
			Middle																			
	6:55		Bottom	4.6	23.62	23.62	23.62	8.60	8.60	8.60	32.45	32.45	32.45	63.1	63.4	63.3	4.44	4.37	4.41	0.85	0.88	0.87
8/12/2023	7:52	Fine	Surface	1.0	22.61	22.61	22.61	8.92	8.92	8.92	31.94	31.94	31.94	104.4	104.6	104.5	7.51	7.53	7.52	0.68	0.70	0.69
			Middle																			
	7:56		Bottom	4.7	22.61	22.61	22.61	8.88	8.88	8.88	31.96	31.96	31.96	101.5	101.3	101.4	7.28	7.25	7.27	0.65	0.68	0.67
11/12/2023	11:18	Cloudy	Surface	1.0	23.60	23.60	23.60	8.99	8.99	8.99	31.99	31.99	31.99	114.4	114.6	114.5	8.10	8.12	8.11	0.61	0.63	0.62
			Middle																			
	11:22		Bottom	4.6	23.32	23.32	23.32	8.97	8.97	8.97	32.08	32.08	32.08	100.0	100.2	100.1	7.09	7.11	7.10	0.74	0.76	0.75
13/12/2023	11:12	Cloudy	Surface	1.0	24.21	24.21	24.21	8.34	8.34	8.34	32.14	32.14	32.14	112.4	112.2	112.3	7.84	7.82	7.83	0.54	0.56	0.55
			Middle																			
	11:16		Bottom	4.4	24.11	24.10	24.11	8.30	8.30	8.30	32.30	32.30	32.30	105.6	105.8	105.7	7.37	7.39	7.38	0.66	0.69	0.68
15/12/2023	13:35	Fine	Surface	1.0	24.32	24.31	24.32	8.38	8.39	8.39	30.92	30.93	30.93	134.6	134.9	134.8	9.44	9.46	9.45	0.40	0.41	0.41
			Middle																			
	13:39		Bottom	4.6	23.65	23.64	23.65	8.06	8.07	8.07	31.97	31.98	31.98	69.1	69.2	69.2	4.89	4.89	4.89	0.25	0.26	0.26
18/12/2023	14:37	Cloudy	Surface	1.0	22.29	22.29	22.29	8.20	8.20	8.20	32.53	32.53	32.53	87.4	87.0	87.2	6.31	6.29	6.30	0.42	0.44	0.43
			Middle																			
	14:41		Bottom	4.6	22.41	22.41	22.41	8.20	8.20	8.20	32.55	32.55	32.55	80.5	80.3	80.4	5.74	5.72	5.73	0.70	0.72	0.71
20/12/2023	7:42	Cloudy	Surface	1.0	21.18	21.19	21.19	8.06	8.07	8.07	33.81	33.79	33.80	89.7	89.6	89.7	6.58	6.57	6.58	1.59	1.57	1.58
			Middle																			
	7:46		Bottom	4.8	21.17	21.15	21.16	8.08	8.10	8.09	33.82	33.79	33.81	87.7	87.4	87.6	6.39	6.35	6.37	1.64	1.67	1.66
22/12/2023	7:56	Cloudy	Surface	1.0	19.24	19.24	19.24	8.12	8.11	8.12	33.94	33.94	33.94	95.9	95.7	95.8	7.24	7.23	7.24	1.61	1.63	1.62
			Middle																			
	8:00		Bottom	4.8	19.24	19.23	19.24	8.04	8.04	8.04	33.94	33.94	33.94	94.7	94.6	94.7	7.15	7.14	7.15	1.58	1.59	1.59
26/12/2023	11:11	Cloudy	Surface	1.0	18.81	18.80	18.81	8.17	8.17	8.17	33.91	33.90	33.91	109.8	109.9	109.9	8.51	8.51	8.51	1.71	1.72	1.72
			Middle																			
	11:15		Bottom	4.7	17.96	17.97	17.97	8.12	8.13	8.13	34.03	34.04	34.04	104.3	104.2	104.3	8.06	8.05	8.06	1.97	1.96	1.97
28/12/2023	9:08	Fine	Surface	1.0	18.30	18.29	18.30	8.19	8.20	8.20	33.17	33.19	33.18	112.7	112.6	112.7	8.70	8.66	8.68	1.46	1.44	1.45
			Middle																			
	9:12		Bottom	4.9	18.34	18.35	18.35	8.17	8.11	8.14	34.00	33.98	33.99	107.9	107.5	107.7	8.28	8.24	8.26	1.65	1.68	1.67
30/12/2023	14:37	Fine	Surface	1.0	19.61	19.59	19.60	8.19	8.16	8.18	33.52	33.50	33.51	115.5	115.3	115.4	8.67	8.62	8.65	1.35	1.38	1.37
			Middle																			
	14:41		Bottom	4.9	19.22	19.24	19.23	8.04	8.02	8.03	34.90	34.94	34.92	82.2	81.6	81.9	6.15	6.10	6.13	3.13	3.09	3.11
2/1/2024	6:53	Fine	Surface	1.0	19.82	19.82	19.82	8.26	8.26	8.26	34.12	34.12	34.12	109.7	109.5	109.6	8.18	8.16	8.17	1.15	1.17	1.16
			Middle																			
	6:57		Bottom	4.7	19.80	19.80	19.80	8.26	8.26	8.26	34.18	34.18	34.18	109.4	109.2	109.3	8.16	8.14	8.15	1.20	1.18	1.19
4/1/2024	17:53	Fine	Surface	1.0	19.40	19.40	19.40	8.19	8.19	8.19	33.95	33.95	33.95	107.8	107.6	107.7	7.09	7.07	7.08	1.40	1.38	1.39
			Middle																			
	17:57		Bottom	4.7	19.35	19.35	19.35	8.20	8.20	8.20	34.03	34.03	34.03	106.6	106.8	106.7	8.03	8.05	8.04	1.41	1.43	1.42
6/1/2024	8:28	Fine	Surface	1.0	19.77	19.79	19.78	8.19	8.17	8.18	33.90	33.92	33.91	112.9	113.1	113.0	8.44	8.45	8.45	1.38	1.42	1.40
			Middle																			
	8:32		Bottom	4.8	19.52	19.55	19.54	7.92	7.96	7.94	34.88	34.86	34.87	55.7	55.3	55.5	9.16	9.11	9.14	3.07	3.05	3.06
8/1/2024	9:08	Fine	Surface	1.0	20.02	20.02	20.02	8.20	8.20	8.20	34.24	34.24	34.24	105.8	105.6	105.7	7.86	7.84	7.85	1.04	1.08	1.06
			Middle																			
	9:12		Bottom	4.7	19.76	19.76	19.76	8.21	8.21	8.21	34.49	34.49	34.49	104.7	104.5	104.6	7.80	7.78	7.79	0.92	0.94	0.93
10/1/2024	10:38	Fine	Surface	1.0	20.14	20.14	20.14	8.23	8.23	8.23	34.31	34.31	34.31	107.6	107.4	107.5	7.97	7.95	7.96	1.24	1.26	1.25
			Middle																			
	10:42		Bottom	4.8	20.17	20.17	20.17	8.22	8.23	8.23	34.34	34.34	34.34	106.9	106.7	106.8	7.89	7.87	7.88	1.44	1.43	1.44
12/1/2024	13:35	Fine	Surface	1.0	20.67	20.68	20.68	8.27	8.25	8.26	33.73	33.71	33.72	119.6	119.4	119.5	8.81	8.79	8.80	1.38	1.34	1.36
			Middle																			
	13:39		Bottom	4.6	19.97	19.92	19.95	8.07	8.03	8.05	34.77	34.82	34.80	75.7	75.2	75.5	5.61	5.57	5.59	2.38	2.35	2.37
15/1/2024	16:05	Fine	Surface	1.0	20.91	20.96	20.94	8.27	8.29	8.28	33.42	33.44	33.43	121.0	119.7	120.4	8.88	8.85	8.87	2.01	2.02	2.02
			Middle																			
	16:09		Bottom	4.7	20.02	20.01	20.02	8.02	8.01	8.02	34.80	34.82	34.81	66.2	65.3	65.8	4.90	4.83	4.87	2.26	2.28	2.27
17/1/2024	18:03	Cloudy	Surface	1.0	20.48	20.49	20.49	8.27	8.25	8.26	34.12	34.14	34.13	108.6	108.8	108.7	8.01	8.03	8.02	1.59	1.61	1.60
			Middle																			
	18:07		Bottom	4.7	20.07	20.09	20.08	8.22	8.21	8.22	34.62	34.66	34.64	98.3	98.5	98.4	7.28	7.29	7.29	1.72	1.73	1.73
19/1/2024	8:10	Fine	Surface	1.0	21.03	21.06	21.05	8.27	8.28	8.28	33.72	33.74	33.73	116.4	116.8	116.6	8.50	8.52	8.51	2.16	2.14	2.15
			Middle																			
	8:14		Bottom	4.8	20.03	20.02	20.03	8.16	8.15	8.16	34.78	34.80	34.79	87.5	87.3	87.4	6.47	6.45	6.46	2.71	2.73	2.72

Water Monitoring Result at F1 - Yim Tin Tsai Fish Culture Zone
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	5:13	Cloudy	Surface	1.0	24.90	24.90	24.90	8.88	8.88	8.88	31.52	31.52	31.52	110.0	110.2	110.1	7.70	7.72	7.71	1.15	1.18	1.17
	5:15		Middle	3.0	24.10	24.10	24.10	8.81	8.81	8.81	31.66	31.66	31.66	110.4	110.6	110.5	7.71	7.73	7.72	0.92	0.94	0.93
	5:17		Bottom	6.0	24.10	24.10	24.10	8.71	8.71	8.71	31.99	31.99	31.99	100.1	100.3	100.2	6.99	7.02	7.01	1.01	1.04	1.03
30/11/2023	7:00	Cloudy	Surface	1.0	24.04	24.04	24.04	8.60	8.60	8.60	31.58	31.58	31.58	100.2	100.4	100.3	7.04	7.06	7.05	0.81	0.83	0.82
	7:02		Middle	3.1	23.82	23.82	23.82	8.77	8.77	8.77	32.09	32.09	32.09	96.4	96.6	96.5	6.76	6.78	6.77	0.74	0.76	0.75
	7:04		Bottom	6.2	23.93	23.93	23.93	8.61	8.61	8.61	32.48	32.48	32.48	64.1	64.3	64.2	4.48	4.50	4.49	2.06	2.08	2.07
1/12/2023	8:00	Fine	Surface	1.0	23.90	23.90	23.90	8.68	8.68	8.68	31.29	31.29	31.29	115.0	115.2	115.1	8.11	8.14	8.13	0.99	1.01	1.00
	8:02		Middle	3.5	23.99	23.99	23.99	8.78	8.78	8.78	31.58	31.58	31.58	105.6	105.8	105.7	7.39	7.40	7.40	0.74	0.76	0.75
	8:04		Bottom	6.0	24.02	24.02	24.02	8.55	8.55	8.55	32.31	32.31	32.31	57.9	58.1	58.0	4.08	4.10	4.09	1.05	1.03	1.04
4/12/2023	7:09	Fine	Surface	1.0	23.30	23.36	23.33	8.69	8.68	8.69	31.32	31.31	31.32	100.0	100.1	100.1	7.11	7.08	7.10	1.19	1.21	1.20
	7:11		Middle	3.5	23.31	23.31	23.31	8.94	8.96	8.95	31.52	31.49	31.51	113.9	113.6	113.8	8.11	8.07	8.09	0.94	0.96	0.95
	7:13		Bottom	6.0	23.64	23.65	23.65	8.60	8.58	8.59	32.46	32.49	32.48	103.2	103.4	103.3	7.26	7.29	7.28	1.15	1.10	1.13
6/12/2023	12:30	Cloudy	Surface	1.0	23.67	23.67	23.67	8.72	8.72	8.72	31.57	31.57	31.57	122.8	123.0	122.9	8.70	8.72	8.71	0.91	0.93	0.92
	12:32		Middle	3.5	23.62	23.62	23.62	8.72	8.69	8.71	32.07	32.07	32.07	84.5	84.7	84.6	5.97	5.99	5.98	0.73	0.76	0.75
	12:34		Bottom	6.0	23.54	23.54	23.54	8.65	8.65	8.65	32.76	32.76	32.76	58.4	58.8	58.6	4.11	4.15	4.13	0.83	0.81	0.82
8/12/2023	13:30	Fine	Surface	1.0	22.90	22.90	22.90	9.18	9.18	9.18	32.04	32.04	32.04	98.9	99.1	99.0	7.08	7.10	7.09	0.78	0.80	0.79
	13:32		Middle	3.5	23.04	23.04	23.04	9.09	9.09	9.09	32.22	32.22	32.22	88.0	88.2	88.1	6.30	6.32	6.31	0.76	0.77	0.77
	13:34		Bottom	6.0	23.24	23.24	23.24	8.95	8.95	8.95	32.41	32.41	32.41	66.0	66.4	66.2	4.68	4.72	4.70	0.91	0.95	0.93
11/12/2023	5:30	Cloudy	Surface	1.0	23.79	23.79	23.79	8.88	8.88	8.88	31.87	31.87	31.87	118.3	118.6	118.5	8.33	8.35	8.34	0.70	0.72	0.71
	5:32		Middle	3.5	23.63	23.63	23.63	8.95	8.95	8.95	32.00	32.00	32.00	112.5	112.7	112.6	7.94	7.96	7.95	0.61	0.63	0.62
	5:34		Bottom	6.0	23.51	23.51	23.51	8.87	8.87	8.87	32.22	32.22	32.22	100.1	100.4	100.3	7.06	7.09	7.08	0.84	0.86	0.85
13/12/2023	5:30	Cloudy	Surface	1.0	24.55	24.55	24.55	8.29	8.29	8.29	31.90	31.90	31.90	118.3	118.4	118.4	8.23	8.24	8.24	0.42	0.43	0.43
	5:32		Middle	3.5	24.48	24.48	24.48	8.29	8.29	8.29	32.08	32.08	32.08	112.7	112.5	112.6	7.84	7.82	7.83	0.51	0.52	0.52
	5:34		Bottom	6.0	24.16	24.16	24.16	8.26	8.26	8.26	32.34	32.34	32.34	107.3	107.1	107.2	7.49	7.47	7.48	0.66	0.67	0.67
15/12/2023	6:54	Fine	Surface	1.0	24.02	24.02	24.02	7.99	8.00	8.00	31.37	31.38	31.38	118.8	118.4	118.6	8.35	8.33	8.34	0.21	0.19	0.20
	6:56		Middle	3.5	23.65	23.68	23.67	8.11	8.12	8.12	31.56	31.57	31.57	98.0	98.4	98.2	6.88	6.89	6.89	0.16	0.15	0.16
	6:58		Bottom	6.0	23.42	23.41	23.42	7.98	7.99	7.99	32.13	32.15	32.14	74.5	74.8	74.7	5.27	5.28	5.28	0.22	0.21	0.22
18/12/2023	9:30	Cloudy	Surface	1.0	22.54	22.54	22.54	8.11	8.11	8.11	32.72	32.72	32.72	79.6	79.4	79.5	5.70	5.68	5.69	0.57	0.59	0.58
	9:32		Middle	3.5	22.55	22.55	22.55	8.10	8.10	8.10	32.72	32.72	32.72	79.1	78.9	79.0	5.67	5.65	5.66	0.62	0.63	0.63
	9:34		Bottom	6.0	22.56	22.56	22.56	8.10	8.10	8.10	32.74	32.74	32.74	78.5	78.3	78.4	5.63	5.61	5.62	0.71	0.72	0.72
20/12/2023	12:46	Cloudy	Surface	1.0	21.37	21.37	21.37	8.08	8.09	8.09	34.27	34.29	34.28	86.6	86.3	86.5	6.27	6.24	6.26	1.43	1.45	1.44
	12:48		Middle	3.5	21.36	21.34	21.35	8.11	8.13	8.12	34.31	34.33	34.32	86.1	86.2	86.2	6.21	6.23	6.22	1.50	1.51	1.51
	12:50		Bottom	5.9	21.37	21.38	21.38	8.07	8.05	8.06	34.28	34.26	34.27	85.7	85.5	85.6	6.19	6.17	6.18	1.29	1.31	1.30
22/12/2023	13:00	Cloudy	Surface	1.0	19.92	19.92	19.92	8.02	8.02	8.02	34.25	34.26	34.26	89.4	89.6	89.5	6.70	6.71	6.71	1.44	1.45	1.45
	13:02		Middle	3.5	19.92	19.92	19.92	8.01	8.01	8.01	34.26	34.26	34.26	87.9	88.0	88.0	6.55	6.56	6.56	1.64	1.63	1.64
	13:04		Bottom	6.0	19.95	19.96	19.96	7.98	7.99	7.99	34.26	34.26	34.26	87.4	87.5	87.5	6.50	6.51	6.51	1.79	1.80	1.80
26/12/2023	5:12	Cloudy	Surface	1.0	18.18	18.19	18.19	7.86	7.87	7.87	34.13	34.12	34.13	100.5	100.8	100.7	7.72	7.73	7.73	2.00	2.01	2.01
	5:14		Middle	3.5	18.26	18.27	18.27	7.95	7.94	7.95	34.16	34.16	34.16	98.7	98.9	98.8	7.58	7.59	7.59	1.93	1.94	1.94
	5:16		Bottom	6.0	18.33	18.33	18.33	7.99	7.98	7.99	34.19	34.19	34.19	97.8	97.5	97.7	7.49	7.47	7.48	1.92	1.90	1.91
28/12/2023	12:26	Fine	Surface	1.0	18.96	18.96	18.96	8.00	8.02	8.01	33.64	33.62	33.63	111.9	112.0	112.0	8.50	8.51	8.51	1.38	1.39	1.39
	12:28		Middle	3.6	18.78	18.79	18.79	8.07	8.06	8.07	34.25	34.28	34.27	103.0	102.3	102.7	7.89	7.82	7.86	1.55	1.56	1.56
	12:30		Bottom	6.1	18.77	18.76	18.77	8.10	8.12	8.11	34.21	34.20	34.21	90.6	90.8	90.7	6.90	6.92	6.91	1.51	1.53	1.52
30/12/2023	9:02	Fine	Surface	1.0	19.57	19.58	19.58	8.10	8.09	8.10	33.86	33.84	33.85	115.7	115.9	115.8	8.67	8.68	8.68	1.09	1.11	1.10
	9:04		Middle	3.6	19.32	19.34	19.33	8.19	8.16	8.18	34.12	34.16	34.14	111.3	111.6	111.5	8.38	8.41	8.40	1.25	1.27	1.26
	9:06		Bottom	6.1	19.20	19.21	19.21	8.11	8.12	8.12	34.63	34.61	34.62	95.0	95.2	95.1	7.16	7.19	7.18	1.97	1.96	1.97
2/1/2024	13:15	Fine	Surface	1.0	19.98	19.98	19.98	8.22	8.22	8.22	34.08	34.08	34.08	108.3	108.1	108.2	8.06	8.04	8.05	1.84	1.85	1.85
	13:17		Middle	3.5	19.93	19.93	19.93	8.24	8.24	8.24	34.07	34.07	34.07	110.5	110.7	110.6	8.23	8.25	8.24	1.53	1.55	1.54
	13:19		Bottom	6.0	19.92	19.92	19.92	8.24	8.24	8.24	34.09	34.09	34.09	109.9	109.7	109.8	8.19	8.17	8.18	1.51	1.53	1.52
4/1/2024	11:00	Fine	Surface	1.0	19.81	19.81	19.81	8.14	8.14	8.14	34.17	34.17	34.17	104.7	104.5	104.6	7.80	7.78	7.79	1.56	1.58	1.57
	11:02		Middle	3.5	19.89	19.89	19.89	8.13	8.13	8.13	34.40	34.40	34.40	107.4	107.6	107.5	7.99	8.01	8.00	1.18	1.20	1.19
	11:04		Bottom	6.0	19.89	19.89	19.89	8.12	8.12	8.12	34.43	34.43	34.43	103.5	103.3	103.4	7.68	7.65	7.67	1.56	1.58	1.57
6/1/2024	13:40	Fine	Surface	1.0	20.30	20.31	20.31	8.16	8.18	8.17	33.80	33.28	33.54	114.3	114.5	114.4	8.46	8.48	8.47	1.44	1.46	1.45
	13:42		Middle	3.6	20.03	20.05	20.04	8.12	8.10	8.11	34.21	34.24	34.23	101.3	100.9	101.1	7.53	7.48	7.51	1.38	1.41	1.40
	13:44		Bottom	6.1	19.30	19.32	19.31	8.01	8.02	8.02	34.94	34.97	34.96	76.4	76.2	76.3	5.72	5.71	5.72	2.93	2.96	2.95
8/1/2024	13:20	Fine	Surface	1.0	20.38	20.38	20.38	8.14	8.14	8.14	33.89	33.89	33.89	109.8	110.0	109.9	8.13	8.15	8.14	1.21	1.23	1.22
	13:22		Middle	3.6	20.18	20.18	20.18	8.70	8.70	8.70	34.01	34.01	34.01	108.1	108.3	108.2	8.01	8.03	8.02	1.39	1.41	1.40
	13:24		Bottom	6.2	19.92	19.92	19.92	8.16	8.16	8.16	34.40	34.40	34.40	95.0	95.2	95.1	7.06	7.08	7.07	1.19	1.21	1.20
10/1/2024	14:05	Fine	Surface	1.0	21.44	21.44	21.44	8.18	8.18	8.18	32.96	32.96	32.96	111.8	111.9	111.9	8.15	8.16	8.16	1.67	1.69	1.68
	14:07		Middle	3.5	20.91	20.91	20.91	8.24	8.24	8.24	33.87	33.87	33.87	114.8	114.6	114.7	8.41	8.39	8.40	1.57	1.60	1.59
	14:09		Bottom	6.0	20.35	20.35	20.35	8.24	8.24	8.24	34.33	34.33	34.33	113.0	113.2	113.1	8.33	8.35	8.34	1.30	1.32	1.31
12/1/2024	18:22	Fine	Surface	1.0	20.85	20.86	20.86	8.18	8.17	8.18	33.61	33.63	33.62	114.9	114.6	114.8	8.46	8.43	8.45	1.55	1.55	1.55
	18:24		Middle	3.6	20.24	20.26	20.25	8.17	8.15	8.16	34.38	34.40	34.39	103.6	103.8	103.7	7.66	7.69	7.68	1.28	1.25	1.27
	18:26		Bottom	6.1	19.69	19.64	19.67	8.03	8.05	8.04	34.92	34.90	34.91	78.9	78.6	78.8	5.90	5.88	5.89	5.15	5.13	5.14
15/1/2024	9:37	Fine	Surface	1.0	20.62	20.63	20.63	8.03	8.04	8.04	33.78	33.76	33.77	120.7	120.5	120.6	8.89	8.86	8.88	2.03	2.05	2.04
	9:39		Middle	3.6	20.07	20.09	20.08	8.14	8.15	8.15	34.54	34.50	34.52	98.7	99.0	98.9	7.30	7.34	7.32	2.06	2.04	2.05
	9:41		Bottom	6.2	19.80	19.78	19.79	8.10	8.12	8.11	34.90	34.88	34.89	88.7	88.4	88.6	6.59	6.56	6.58	2.49	2.47	2.48
17/1/2024	11:08	Cloudy	Surface	1.0	20.48	20.49	20.49	8.12	8.13	8.13	34.10	34.09	34.10	109.9	109.7	109.8	8.10	8.08	8.09	1.81	1.83	1.82
	11:10		Middle	3.6	20.31	20.29	20.30	8.27	8.26	8.27	34.26	34.28	34.27	107.2	107.0	107.1	7.92	7.90	7.91	1.86	1.85	1.86
	11:12		Bottom	6.2	20.03	20.04	20.04	8.20	8.18	8.19	34.70	34.72	34.71	98.4	98.5	98.5	7.27	7.29	7.28	1.91	1.93	1.92
19/1/2024	12:44	Fine	Surface	1.0	20.89	20.88	20.89	8.21	8.22	8.22	34.11	34.12	34.12	110.9	110.7	110.8	8.11	8.09	8.10	1.62	1.60	1.61
	12:46		Middle	3.6	20.40	20.41	20.41	8.20	8.19	8.20	34.55	34.56	34.56	98.2	98.4	98.3	7.23	7.24	7.24	1.69	1.71	1.70
	12:48		Bottom	6.1	19.96	19.98	19.97	8.10	8.11	8.11	34.83	34.85	34.84	82.9	82.5	82.7	6.13	6.11	6.12	2.67	2.65	2.66

Water Monitoring Result at F1 - Yim Tin Tsai Fish Culture Zone
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	11:15	Cloudy	Surface	1.0	24.91	24.91	24.91	8.88	8.88	8.88	31.53	31.53	31.53	114.4	114.0	114.2	7.99	7.95	7.97	1.21	1.24	1.23
	11:17		Middle	3.4	24.11	24.11	24.11	8.83	8.83	8.83	31.67	31.67	31.67	111.1	111.4	111.3	7.72	7.75	7.74	1.00	1.01	1.01
	11:19		Bottom	5.8	24.11	24.11	24.11	8.72	8.72	8.72	31.97	31.97	31.97	100.5	100.4	100.5	7.04	7.03	7.04	1.10	1.04	1.07
30/11/2023	14:04	Cloudy	Surface	1.0	24.04	24.04	24.04	8.60	8.60	8.60	31.60	31.60	31.60	100.5	100.6	100.6	7.07	7.08	7.08	0.85	0.87	0.86
	14:06		Middle	3.5	23.83	23.83	23.83	8.78	8.78	8.78	32.10	32.10	32.10	96.6	96.8	96.7	6.78	6.80	6.79	0.79	0.81	0.80
	14:08		Bottom	6.0	23.93	23.93	23.93	8.61	8.61	8.61	32.49	32.49	32.49	64.8	64.9	64.9	4.56	4.57	4.57	2.11	2.09	2.10
1/12/2023	16:25	Fine	Surface	1.0	23.93	23.93	23.93	8.80	8.80	8.80	31.29	31.29	31.29	116.2	116.0	116.1	8.18	8.16	8.17	1.01	1.01	1.01
	16:27		Middle	3.5	24.04	24.04	24.04	8.81	8.81	8.81	31.57	31.57	31.57	103.7	104.0	103.9	7.27	7.30	7.29	0.72	0.75	0.74
	16:29		Bottom	5.9	24.04	24.04	24.04	8.61	8.61	8.61	32.23	32.23	32.23	58.8	59.0	58.9	4.10	4.12	4.11	1.09	1.10	1.10
4/12/2023	15:29	Fine	Surface	1.0	23.45	23.46	23.46	8.83	8.84	8.84	31.29	31.27	31.28	101.4	101.6	101.5	7.21	7.23	7.22	1.25	1.29	1.27
	15:31		Middle	3.5	23.41	23.37	23.39	8.93	8.94	8.94	31.37	31.39	31.38	114.4	114.6	114.5	8.15	8.17	8.16	1.11	1.10	1.11
	15:33		Bottom	5.9	23.67	23.67	23.67	8.61	8.63	8.62	32.46	32.48	32.47	106.7	106.8	106.8	7.51	7.53	7.52	1.13	1.17	1.15
6/12/2023	6:00	Cloudy	Surface	1.0	23.65	23.65	23.65	8.61	8.61	8.61	31.58	31.58	31.58	123.0	123.0	123.0	8.68	8.68	8.68	0.98	0.98	0.98
	6:02		Middle	3.6	23.61	23.61	23.61	8.66	8.66	8.66	32.04	32.04	32.04	90.3	90.5	90.4	6.63	6.65	6.64	0.65	0.67	0.66
	6:04		Bottom	6.1	23.58	23.58	23.58	8.61	8.61	8.61	32.67	32.67	32.67	58.5	58.7	58.6	4.10	4.12	4.11	0.92	0.94	0.93
8/12/2023	7:00	Fine	Surface	1.0	22.90	22.90	22.90	9.11	9.11	9.11	32.04	32.04	32.04	102.1	102.3	102.2	7.29	7.31	7.30	0.74	0.76	0.75
	7:02		Middle	3.5	23.02	23.02	23.02	9.04	9.04	9.04	32.21	32.21	32.21	80.9	81.2	81.1	5.75	5.78	5.77	0.79	0.81	0.80
	7:04		Bottom	6.0	23.21	23.21	23.21	8.93	8.93	8.93	32.40	32.40	32.40	62.8	63.0	62.9	4.54	4.56	4.55	0.79	0.81	0.80
11/12/2023	12:08	Cloudy	Surface	1.0	23.69	23.69	23.69	9.03	9.03	9.03	31.89	31.89	31.89	115.1	115.0	115.1	8.12	8.11	8.12	0.66	0.68	0.67
	12:10		Middle	3.0	23.58	23.58	23.58	7.79	7.79	7.79	32.02	32.02	32.02	110.5	110.3	110.4	7.80	7.77	7.79	0.60	0.62	0.61
	12:12		Bottom	5.0	23.48	23.48	23.48	8.89	8.89	8.89	32.21	32.21	32.21	93.7	93.5	93.6	6.62	6.60	6.61	0.90	0.95	0.93
13/12/2023	10:30	Cloudy	Surface	1.0	24.55	24.55	24.55	8.36	8.36	8.36	31.87	31.87	31.87	118.6	118.4	118.5	8.25	8.23	8.24	0.41	0.42	0.42
	10:32		Middle	3.0	24.38	24.38	24.38	8.29	8.29	8.29	32.12	32.12	32.12	108.9	108.7	108.8	7.58	7.57	7.58	0.58	0.59	0.59
	10:34		Bottom	5.0	24.05	24.05	24.05	8.27	8.27	8.27	32.35	32.35	32.35	105.3	105.5	105.4	7.36	7.38	7.37	0.72	0.73	0.73
15/12/2023	11:59	Fine	Surface	1.0	24.08	24.09	24.09	8.00	8.00	8.00	31.39	31.40	31.40	120.1	120.0	120.1	8.47	8.46	8.47	0.31	0.28	0.30
	12:01		Middle	3.4	23.61	23.62	23.62	8.13	8.14	8.14	31.58	31.59	31.59	98.9	98.8	98.9	6.93	6.93	6.93	0.19	0.18	0.19
	12:03		Bottom	5.8	23.40	23.42	23.41	7.99	7.98	7.99	32.16	32.17	32.17	74.1	73.9	74.0	5.24	5.22	5.23	0.17	0.18	0.18
18/12/2023	13:40	Cloudy	Surface	1.0	22.59	22.59	22.59	7.93	7.93	7.93	32.74	32.74	32.74	76.1	76.0	76.1	5.44	5.43	5.44	0.58	0.60	0.59
	13:42		Middle	3.4	22.59	22.59	22.59	7.96	7.96	7.96	32.73	32.73	32.73	75.7	75.5	75.6	5.42	5.40	5.41	0.53	0.55	0.54
	13:44		Bottom	5.8	22.57	22.57	22.57	8.07	8.07	8.07	32.75	32.75	32.75	79.6	79.4	79.5	5.70	5.68	5.69	0.68	0.69	0.69
20/12/2023	6:46	Cloudy	Surface	1.0	21.29	21.28	21.29	7.98	7.97	7.98	34.25	34.28	34.27	91.9	91.7	91.8	6.74	6.73	6.74	1.40	1.42	1.41
	6:48		Middle	4.0	21.29	21.30	21.30	8.01	8.00	8.01	34.25	34.26	34.26	87.4	87.2	87.3	6.34	6.31	6.33	1.35	1.36	1.36
	6:50		Bottom	7.0	21.31	21.33	21.32	8.03	8.05	8.04	34.22	34.20	34.21	87.1	86.8	87.0	6.30	6.27	6.29	1.47	1.49	1.48
22/12/2023	6:31	Cloudy	Surface	1.0	19.85	19.86	19.86	7.75	7.75	7.75	34.27	34.27	34.27	92.6	92.5	92.6	6.89	6.89	6.89	1.69	1.71	1.70
	6:33		Middle	3.5	19.93	19.93	19.93	7.89	7.89	7.89	34.26	34.25	34.26	88.1	88.0	88.1	6.56	6.54	6.55	1.84	1.82	1.83
	6:35		Bottom	6.0	19.94	19.94	19.94	7.96	7.96	7.96	34.25	34.26	34.26	87.1	87.3	87.2	6.48	6.49	6.49	2.64	2.58	2.61
26/12/2023	10:10	Cloudy	Surface	1.0	18.22	18.21	18.22	8.05	8.05	8.05	34.13	34.12	34.13	100.4	100.6	100.5	7.72	7.73	7.73	1.98	1.93	1.96
	10:12		Middle	3.5	18.24	18.25	18.25	8.04	8.04	8.04	34.14	34.15	34.15	99.3	99.0	99.2	7.62	7.60	7.61	1.95	1.94	1.95
	10:14		Bottom	6.0	18.32	18.31	18.32	8.01	8.00	8.01	34.18	34.18	34.18	97.3	97.2	97.3	7.45	7.45	7.45	1.97	1.98	1.98
28/12/2023	8:15	Fine	Surface	1.0	18.93	18.98	18.96	8.08	8.09	8.09	33.61	33.60	33.61	112.7	112.8	112.8	8.56	8.57	8.57	1.42	1.44	1.43
	8:17		Middle	3.5	18.79	18.79	18.79	8.06	8.03	8.05	34.24	34.21	34.23	98.3	98.1	98.2	7.47	7.45	7.46	1.56	1.59	1.58
	8:19		Bottom	6.0	18.76	18.76	18.76	8.10	8.14	8.12	34.17	34.15	34.16	95.9	96.4	96.2	7.29	7.33	7.31	1.49	1.52	1.51
30/12/2023	13:45	Fine	Surface	1.0	19.66	19.68	19.67	8.18	8.19	8.19	33.88	33.84	33.86	115.8	115.4	115.6	8.66	8.63	8.65	1.15	1.17	1.16
	13:47		Middle	3.5	19.35	19.37	19.36	8.17	8.15	8.16	34.05	34.03	34.04	112.8	112.6	112.7	8.47	8.44	8.46	1.39	1.37	1.38
	13:49		Bottom	6.0	19.14	19.12	19.13	8.11	8.14	8.13	34.66	34.64	34.65	97.4	97.8	97.6	7.30	7.37	7.34	1.77	1.75	1.76
2/1/2024	6:00	Fine	Surface	1.0	20.07	20.04	20.06	8.18	8.18	8.18	33.95	33.95	33.95	108.9	108.7	108.8	8.09	8.07	8.08	1.69	1.67	1.68
	6:02		Middle	3.7	19.93	19.93	19.93	8.23	8.23	8.23	34.08	34.08	34.08	109.8	109.6	109.7	8.19	8.17	8.18	1.60	1.62	1.61
	6:04		Bottom	6.4	19.93	19.93	19.93	8.22	8.22	8.22	34.18	34.18	34.18	107.2	107.4	107.3	7.98	8.00	7.99	1.61	1.63	1.62
4/1/2024	17:00	Fine	Surface	1.0	19.81	19.81	19.81	8.14	8.14	8.14	34.29	34.29	34.29	103.5	103.4	103.5	7.70	7.69	7.70	1.74	1.75	1.75
	17:02		Middle	3.6	19.91	19.91	19.91	8.15	8.15	8.15	34.40	34.40	34.40	107.0	107.2	107.1	7.96	7.98	7.97	1.11	1.14	1.13
	17:04		Bottom	6.2	19.89	19.89	19.89	8.12	8.12	8.12	34.43	34.43	34.43	102.7	103.0	102.9	7.62	7.65	7.64	1.50	1.51	1.51
6/1/2024	7:34	Fine	Surface	1.0	20.35	20.35	20.35	8.06	8.04	8.05	33.87	33.85	33.86	113.1	113.0	113.1	8.37	8.35	8.36	1.45	1.48	1.47
	7:36		Middle	3.5	20.01	20.02	20.02	8.12	8.14	8.13	34.19	34.15	34.17	98.7	99.0	98.9	7.38	7.42	7.40	1.29	1.26	1.28
	7:38		Bottom	6.0	19.46	19.48	19.47	8.08	8.07	8.08	34.82	34.88	34.85	92.4	92.1	92.3	6.89	6.87	6.88	2.54	2.51	2.53
8/1/2024	8:15	Fine	Surface	1.0	20.36	20.36	20.36	8.13	8.13	8.13	33.89	33.89	33.89	109.5	109.3	109.4	8.10	8.08	8.09	1.18	1.20	1.19
	8:17		Middle	3.4	20.16	20.16	20.16	8.17	8.17	8.17	34.01	34.01	34.01	109.0	108.7	108.9	8.08	8.05	8.07	0.98	1.00	0.99
	8:19		Bottom	5.8	19.93	19.93	19.93	8.16	8.16	8.16	34.50	34.50	34.50	96.8	96.6	96.7	7.19	7.17	7.18	1.39	1.41	1.40
10/1/2024	9:45	Fine	Surface	1.0	21.40	21.40	21.40	8.18	8.18	8.18	32.96	32.96	32.96	111.5	111.3	111.4	8.14	8.12	8.13	1.65	1.67	1.66
	9:47		Middle	3.6	20.72	20.72	20.72	8.44	8.44	8.44	34.03	34.05	34.04	114.8	114.6	114.7	8.43	8.41	8.42	1.58	1.60	1.59
	9:49		Bottom	6.2	20.37	20.37	20.37	8.24	8.24	8.24	34.31	34.31	34.31	113.5	113.3	113.4	8.36	8.34	8.35	1.29	1.30	1.30
12/1/2024	12:40	Fine	Surface	1.0	20.64	20.65	20.65	7.94	7.95	7.95	33.65	33.63	33.64	112.4	112.7	112.6	8.29	8.31	8.30	1.54	1.56	1.55
	12:42		Middle	3.5	20.20	20.19	20.20	8.16	8.15	8.16	34.43	34.41	34.42	100.4	100.6	100.5	7.42	7.46	7.44	1.30	1.28	1.29
	12:44		Bottom	6.0	19.88	19.82	19.85	8.08	8.10	8.09	34.75	34.76	34.76	90.1	90.5	90.3	6.89	6.72	6.81	1.81	1.76	1.79
15/1/2024	15:12	Fine	Surface	1.0	20.74	20.76	20.75	8.15	8.17	8.16	33.89	33.91	33.90	118.3	118.0	118.2	8.69	8.67	8.68	1.88	1.86	1.87
	15:14		Middle	3.4	20.15	20.16	20.16	8.17	8.18	8.18	34.56	34.58	34.57	101.9	102.1	102.0	7.54	7.56	7.55	2.10	2.12	2.11
	15:16		Bottom	5.8	19.78	19.74	19.76	8.06	8.04	8.05	34.87	34.84	34.86	85.9	86.3	86.1	6.39	6.44	6.42	2.32	2.31	2.32
17/1/2024	17:10	Cloudy	Surface	1.0	20.53	20.52	20.53	8.23	8.22	8.23	34.13	34.12	34.13	112.1	112.4	112.3	8.26	8.30	8.28	1.89	1.91	1.90
	17:12		Middle	3.5	20.25	20.27	20.26	8.26	8.24	8.25	34.25	34.29	34.27	107.4	107.6	107.5	7.94	7.97	7.96	1.80	1.78	1.79
	17:14		Bottom	6.0	20.15	20.17	20.16	8.20	8.19	8.20	34.62	34.60	34.61	97.6	97.4	97.5	7.22	7.20	7.21	1.93	1.95	1.94
19/1/2024	7:17	Fine	Surface	1.0	20.87	20.86	20.87	8.19	8.20	8.20	34.22	34.24	34.23	108.0	108.4	108.2	7.91	7.93	7.92	1.58	1.56	1.57
	7:19		Middle	3.4	20.28	20.29	20.29	8.16	8.15	8.16	34.57	34.59	34.58	91.6	91.8	91.7	6.72	6.74	6.73	1.75	1.74	1.75
	7:21		Bottom	5.8	19.97	19.95	19.96	8.11	8.13	8.12	34.82	34.80	34.81	80.5	80.4	80.5	5.96	5.95	5.96	2.56	2.58	2.57

Water Monitoring Result at F2 -Yim Tin Tsai (East) Fish Culture Zone
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	7:08	Cloudy	Surface	1.0	23.75	23.75	23.75	8.49	8.49	8.49	31.90	31.80	31.85	92.8	92.5	92.7	6.53	6.50	6.52	0.80	0.84	0.82
			Middle																			
	7:12		Bottom	4.2	23.78	23.78	23.78	8.51	8.51	8.51	31.81	31.81	31.81	90.1	90.3	90.2	6.34	6.36	6.35	0.98	1.00	0.99
30/11/2023	8:59	Cloudy	Surface	1.0	23.74	23.74	23.74	8.36	8.36	8.36	31.61	31.61	31.61	85.2	85.4	85.3	6.01	6.03	6.02	0.48	0.50	0.49
			Middle																			
	9:03		Bottom	4.4	23.94	23.94	23.94	8.42	8.42	8.42	32.05	32.05	32.05	82.4	82.6	82.5	5.75	5.77	5.76	1.39	1.40	1.40
1/12/2023	10:11	Fine	Surface	1.0	23.66	23.66	23.66	8.40	8.40	8.40	31.90	31.90	31.90	83.9	83.7	83.8	5.90	5.87	5.89	0.63	0.65	0.64
			Middle																			
	10:15		Bottom	4.2	23.74	23.74	23.74	8.36	8.36	8.36	31.97	31.97	31.97	82.1	82.3	82.2	5.78	5.81	5.80	2.13	2.11	2.12
4/12/2023	9:17	Fine	Surface	1.0	23.42	23.42	23.42	8.31	8.34	8.33	31.95	31.99	31.97	92.6	92.3	92.5	6.57	6.59	6.58	0.93	0.96	0.95
			Middle																			
	9:21		Bottom	4.2	23.59	23.56	23.58	8.26	8.33	8.30	32.11	32.18	32.15	71.5	72.1	71.8	5.06	5.10	5.08	3.96	4.03	4.00
6/12/2023	14:27	Cloudy	Surface	1.0	23.60	23.60	23.60	8.48	8.48	8.48	31.90	31.90	31.90	87.7	87.9	87.8	6.20	6.22	6.21	0.40	0.43	0.42
			Middle																			
	14:31		Bottom	4.3	23.64	23.64	23.64	8.42	8.42	8.42	32.00	32.00	32.00	72.4	72.6	72.5	5.10	5.12	5.11	1.00	1.02	1.01
8/12/2023	15:28	Fine	Surface	1.0	23.10	23.10	23.10	8.66	8.66	8.66	32.17	32.17	32.17	84.6	84.8	84.7	6.00	6.02	6.01	0.54	0.56	0.55
			Middle																			
	15:32		Bottom	4.2	23.02	23.02	23.02	8.64	8.64	8.64	32.19	32.19	32.19	80.3	80.5	80.4	5.72	5.74	5.73	0.48	0.50	0.49
11/12/2023	7:26	Cloudy	Surface	1.0	23.93	23.93	23.93	8.57	8.57	8.57	32.13	32.13	32.13	97.7	97.5	97.6	6.86	6.84	6.85	0.33	0.35	0.34
			Middle																			
	7:30		Bottom	4.2	23.80	23.80	23.80	8.54	8.54	8.54	32.16	32.16	32.16	95.2	95.4	95.3	6.69	6.71	6.70	0.35	0.37	0.36
13/12/2023	8:26	Cloudy	Surface	1.0	24.29	24.29	24.29	8.12	8.12	8.12	32.26	32.26	32.26	90.8	90.6	90.7	6.32	6.30	6.31	0.40	0.42	0.41
			Middle																			
	8:30		Bottom	4.2	23.93	23.93	23.93	8.24	8.24	8.24	32.49	32.49	32.49	96.2	96.0	96.1	6.71	6.69	6.70	0.70	0.72	0.71
15/12/2023	10:42	Fine	Surface	1.0	23.94	23.93	23.94	8.23	8.23	8.23	31.52	31.56	31.54	114.4	114.2	114.3	8.05	8.03	8.04	0.10	0.12	0.11
			Middle																			
	10:46		Bottom	4.2	23.58	23.57	23.58	8.05	8.04	8.05	31.98	31.99	31.99	77.0	77.3	77.2	5.43	5.44	5.44	1.52	1.48	1.50
18/12/2023	11:26	Cloudy	Surface	1.0	22.02	22.02	22.02	8.17	8.17	8.17	32.71	32.71	32.71	84.2	84.0	84.1	6.09	6.07	6.08	0.52	0.51	0.52
			Middle																			
	11:30		Bottom	4.2	22.03	22.03	22.03	8.17	8.17	8.17	32.71	32.71	32.71	84.2	84.4	84.3	6.08	6.10	6.09	0.80	0.79	0.80
20/12/2023	14:46	Cloudy	Surface	1.0	21.22	21.18	21.20	8.05	8.09	8.07	34.17	34.11	34.14	82.3	82.1	82.2	5.98	5.96	5.97	2.63	2.64	2.64
			Middle																			
	14:50		Bottom	4.4	21.20	21.17	21.19	8.06	8.08	8.07	34.18	34.21	34.20	81.8	81.5	81.7	5.93	5.91	5.92	2.50	2.40	2.45
22/12/2023	15:27	Cloudy	Surface	1.0	19.70	19.71	19.71	8.02	8.03	8.03	34.20	34.21	34.21	87.4	87.5	87.5	6.53	6.53	6.53	2.51	2.52	2.52
			Middle																			
	15:31		Bottom	4.2	19.70	19.70	19.70	8.00	8.00	8.00	34.22	34.22	34.22	87.9	87.8	87.9	6.56	6.56	6.56	2.75	2.74	2.75
26/12/2023	7:12	Cloudy	Surface	1.0	17.99	17.98	17.99	8.05	8.06	8.06	34.12	34.14	34.13	101.1	101.2	101.2	7.77	7.78	7.78	1.78	1.77	1.78
			Middle																			
	7:16		Bottom	4.2	17.95	17.96	17.96	8.06	8.06	8.06	34.15	34.16	34.16	96.8	97.0	96.9	7.48	7.49	7.49	1.84	1.85	1.85
28/12/2023	14:22	Fine	Surface	1.0	18.57	18.56	18.57	8.01	8.03	8.02	33.84	33.87	33.86	98.6	98.9	98.8	7.56	7.58	7.57	1.82	1.81	1.82
			Middle																			
	14:26		Bottom	4.4	18.39	18.40	18.40	8.08	8.06	8.07	34.12	34.14	34.13	97.0	97.7	97.4	7.42	7.48	7.45	1.60	1.62	1.61
30/12/2023	10:58	Fine	Surface	1.0	19.21	19.20	19.21	8.21	8.19	8.20	33.91	33.86	33.89	115.3	115.8	115.6	8.74	8.82	8.78	1.20	1.24	1.22
			Middle																			
	11:02		Bottom	4.3	19.17	19.19	19.18	8.13	8.15	8.14	34.76	34.80	34.78	99.4	99.6	99.5	7.56	7.57	7.57	1.93	2.01	1.97
2/1/2024	15:12	Fine	Surface	1.0	19.93	19.93	19.93	8.11	8.11	8.11	34.07	34.07	34.07	100.0	99.8	99.9	7.45	7.43	7.44	1.16	1.18	1.17
			Middle																			
	15:16		Bottom	4.3	19.88	19.88	19.88	8.14	8.14	8.14	34.08	34.08	34.08	100.3	100.5	100.4	7.49	7.51	7.50	1.20	1.22	1.21
4/1/2024	12:58	Fine	Surface	1.0	19.63	19.63	19.63	8.07	8.07	8.07	34.16	34.16	34.16	98.8	98.6	98.7	7.39	7.37	7.38	1.17	1.19	1.18
			Middle																			
	13:02		Bottom	4.4	19.66	19.66	19.66	8.11	8.11	8.11	34.25	34.25	34.25	98.5	98.8	98.7	7.37	7.40	7.39	1.29	1.31	1.30
6/1/2024	15:41	Fine	Surface	1.0	19.83	19.87	19.85	8.23	8.25	8.24	34.11	34.07	34.09	113.1	113.5	113.3	8.44	8.50	8.47	1.15	1.17	1.16
			Middle																			
	15:45		Bottom	4.3	19.26	19.24	19.25	8.15	8.12	8.14	34.91	34.90	34.91	97.5	97.3	97.4	7.33	7.30	7.32	1.35	1.36	1.36
8/1/2024	15:14	Fine	Surface	1.0	20.16	20.16	20.16	8.12	8.12	8.12	34.33	34.33	34.33	95.9	95.7	95.8	7.10	7.08	7.09	0.82	0.84	0.83
			Middle																			
	15:18		Bottom	4.3	19.96	19.96	19.96	8.14	8.14	8.14	34.44	34.44	34.44	94.6	94.4	94.5	7.02	7.00	7.01	1.20	1.22	1.21
10/1/2024	16:03	Fine	Surface	1.0	20.53	20.53	20.53	8.12	8.12	8.12	34.42	34.42	34.42	100.1	100.3	100.2	7.35	7.38	7.37	1.60	1.62	1.61
			Middle																			
	16:07		Bottom	4.4	20.46	20.46	20.46	8.16	8.16	8.16	34.43	34.43	34.43	99.5	99.7	99.6	7.37	7.39	7.38	1.91	1.93	1.92
12/1/2024	20:19	Fine	Surface	1.0	20.61	20.57	20.59	8.27	8.29	8.28	34.07	34.10	34.09	116.5	116.0	116.3	8.56	8.53	8.55	1.23	1.25	1.24
			Middle																			
	20:23		Bottom	4.5	19.78	19.76	19.77	8.14	8.12	8.13	34.80	34.83	34.82	95.5	95.7	95.6	7.10	7.14	7.12	1.69	1.66	1.68
15/1/2024	11:34	Fine	Surface	1.0	21.24	21.26	21.25	8.30	8.29	8.30	33.57	33.59	33.58	123.8	124.0	123.9	9.04	9.06	9.05	1.49	1.51	1.50
			Middle																			
	11:38		Bottom	4.5	19.89	19.92	19.91	8.15	8.13	8.14	34.81	34.80	34.81	90.0	89.7	89.9	6.68	6.61	6.65	1.62	1.64	1.63
17/1/2024	12:02	Cloudy	Surface	1.0	20.31	20.35	20.33	8.26	8.25	8.26	34.34	34.36	34.35	110.6	110.0	110.3	8.17	8.11	8.14	1.65	1.67	1.66
			Middle																			
	12:06		Bottom	4.3	20.21	20.18	20.20	8.21	8.19	8.20	34.68	34.69	34.69	99.0	98.8	98.9	7.31	7.29	7.30	2.11	2.08	2.10
19/1/2024	14:41	Fine	Surface	1.0	21.41	21.42	21.42	8.28	8.29	8.29	33.91	33.92	33.92	114.8	115.0	114.9	8.33	8.35	8.34	1.40	1.42	1.41
			Middle																			
	14:45		Bottom	4.4	19.96	19.92	19.94	8.15	8.16	8.16	34.75	34.73	34.74	85.6	86.8	86.2	6.31	6.42	6.37	1.74	1.72	1.73

Water Monitoring Result at F2 -Yim Tin Tsai (East) Fish Culture Zone
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	13:10	Cloudy	Surface	1.0	23.77	23.77	23.77	8.50	8.50	8.50	31.84	31.84	31.84	93.1	93.4	93.3	6.55	6.58	6.57	0.93	0.91	0.92
			Middle																			
	13:14		Bottom	4.0	23.78	23.78	23.78	8.53	8.53	8.53	31.85	31.85	31.85	89.5	89.6	89.6	6.27	6.28	6.28	1.06	1.04	1.05
30/11/2023	12:18	Cloudy	Surface	1.0	23.79	23.79	23.79	8.37	8.37	8.37	31.64	31.64	31.64	84.2	84.4	84.3	5.91	5.93	5.92	0.60	0.62	0.61
			Middle																			
	12:22		Bottom	4.3	23.98	23.98	23.98	8.44	8.44	8.44	32.06	32.06	32.06	80.8	81.0	80.9	5.67	5.69	5.68	1.45	1.47	1.46
1/12/2023	14:29	Fine	Surface	1.0	23.75	23.75	23.75	8.42	8.42	8.42	31.88	31.88	31.88	82.5	82.8	82.7	5.81	5.84	5.83	0.66	0.65	0.66
			Middle																			
	14:33		Bottom	4.0	23.71	23.71	23.71	8.42	8.42	8.42	31.96	31.96	31.96	81.5	81.8	81.7	5.73	5.76	5.75	2.20	2.18	2.19
4/12/2023	17:36	Fine	Surface	1.0	23.44	23.44	23.44	8.30	8.28	8.29	31.87	31.90	31.89	93.4	93.2	93.3	6.61	6.57	6.59	0.77	0.79	0.78
			Middle																			
	17:40		Bottom	4.1	23.51	23.52	23.52	8.28	8.26	8.27	32.14	32.10	32.12	73.6	73.2	73.4	5.20	5.19	5.20	3.63	3.60	3.62
6/12/2023	7:53	Cloudy	Surface	1.0	23.49	23.49	23.49	8.52	8.52	8.52	31.94	31.94	31.94	88.8	88.9	88.9	6.28	6.29	6.29	0.49	0.51	0.50
			Middle																			
	7:57		Bottom	4.2	23.63	23.63	23.63	8.41	8.41	8.41	31.99	31.91	31.95	79.1	79.3	79.2	5.59	5.61	5.60	0.93	0.95	0.94
8/12/2023	8:56	Fine	Surface	1.0	23.04	23.04	23.04	8.67	8.67	8.67	32.17	32.17	32.17	85.2	85.4	85.3	6.07	6.09	6.08	0.61	0.63	0.62
			Middle																			
	9:00		Bottom	4.0	23.14	23.14	23.14	8.66	8.66	8.66	32.29	32.29	32.29	81.5	81.7	81.6	5.79	5.81	5.80	0.52	0.54	0.53
11/12/2023	10:18	Cloudy	Surface	1.0	23.90	23.90	23.90	8.57	8.57	8.57	32.14	32.14	32.14	98.1	98.4	98.3	6.89	6.91	6.90	0.38	0.40	0.39
			Middle																			
	10:22		Bottom	4.0	23.80	23.80	23.80	8.53	8.53	8.53	32.17	32.17	32.17	94.4	94.2	94.3	6.63	6.61	6.62	0.40	0.42	0.41
13/12/2023	12:16	Cloudy	Surface	1.0	24.31	24.31	24.31	8.12	8.12	8.12	32.26	32.26	32.26	90.2	90.3	90.3	6.28	6.29	6.29	0.39	0.40	0.40
			Middle																			
	12:20		Bottom	4.0	23.86	23.86	23.86	8.22	8.22	8.22	32.58	32.58	32.58	92.9	93.0	93.0	6.53	6.54	6.54	0.64	0.65	0.65
15/12/2023	15:09	Fine	Surface	1.0	23.88	23.89	23.89	8.23	8.24	8.24	31.54	31.55	31.55	111.3	111.8	111.6	7.84	7.87	7.86	0.35	0.36	0.36
			Middle																			
	15:13		Bottom	3.9	23.68	23.69	23.69	8.05	8.06	8.06	31.91	31.92	31.92	71.2	71.3	71.3	5.02	5.03	5.03	2.04	2.03	2.04
18/12/2023	15:41	Cloudy	Surface	1.0	22.05	22.05	22.05	8.17	8.17	8.17	32.73	32.73	32.73	84.5	84.7	84.6	6.10	6.12	6.11	0.46	0.47	0.47
			Middle																			
	15:45		Bottom	4.0	22.02	22.02	22.02	8.17	8.17	8.17	32.72	32.72	32.72	84.5	84.7	84.6	6.10	6.12	6.11	0.73	0.74	0.74
20/12/2023	8:47	Cloudy	Surface	1.0	21.28	21.29	21.29	8.00	7.99	8.00	34.19	34.21	34.20	84.4	84.3	84.4	6.14	6.12	6.13	2.60	2.58	2.59
			Middle																			
	8:51		Bottom	4.3	21.33	21.36	21.35	8.01	8.04	8.03	34.17	34.15	34.16	84.0	83.7	83.9	6.10	6.08	6.09	2.52	2.54	2.53
22/12/2023	9:22	Cloudy	Surface	1.0	19.61	19.61	19.61	8.00	7.99	8.00	34.22	34.21	34.22	95.0	95.2	95.1	7.11	7.12	7.12	2.50	2.51	2.51
			Middle																			
	9:26		Bottom	4.2	19.69	19.69	19.69	7.98	7.99	7.99	34.23	34.22	34.23	88.4	88.2	88.3	6.61	6.59	6.60	2.77	2.80	2.79
26/12/2023	12:15	Cloudy	Surface	1.0	18.02	18.01	18.02	8.05	8.06	8.06	34.14	34.15	34.15	95.3	95.5	95.4	7.36	7.37	7.37	1.84	1.80	1.82
			Middle																			
	12:19		Bottom	4.1	17.86	17.87	17.87	8.07	8.07	8.07	34.10	34.11	34.11	96.0	95.8	95.9	7.43	7.42	7.43	1.97	1.96	1.97
28/12/2023	10:13	Fine	Surface	1.0	18.65	18.64	18.65	8.04	8.01	8.03	33.88	33.89	33.89	98.4	99.2	98.8	7.56	7.61	7.59	1.16	1.19	1.18
			Middle																			
	10:17		Bottom	4.3	18.44	18.43	18.44	8.09	8.11	8.10	34.06	34.08	34.07	99.0	99.4	99.2	7.58	7.64	7.61	1.40	1.43	1.42
30/12/2023	15:39	Fine	Surface	1.0	19.23	19.25	19.24	8.21	8.20	8.21	34.08	34.13	34.11	112.4	112.6	112.5	8.49	8.51	8.50	1.16	1.15	1.16
			Middle																			
	15:43		Bottom	4.2	19.15	19.13	19.14	8.13	8.15	8.14	34.76	34.78	34.77	97.4	96.7	97.1	7.31	7.26	7.29	1.62	1.64	1.63
2/1/2024	7:57	Fine	Surface	1.0	19.94	19.94	19.94	8.09	8.09	8.09	34.07	34.07	34.07	100.3	100.5	100.4	7.47	7.49	7.48	1.14	1.17	1.16
			Middle																			
	8:01		Bottom	4.1	19.90	19.90	19.90	8.13	8.13	8.13	34.08	34.08	34.08	100.4	100.6	100.5	7.48	7.50	7.49	1.17	1.20	1.19
4/1/2024	16:58	Fine	Surface	1.0	19.64	19.64	19.64	8.09	8.09	8.09	34.16	34.16	34.16	98.5	98.3	98.4	7.37	7.35	7.36	1.20	1.22	1.21
			Middle																			
	17:02		Bottom	4.0	19.67	19.69	19.68	8.12	8.12	8.12	34.30	34.40	34.35	98.2	98.4	98.3	7.34	7.36	7.35	1.44	1.46	1.45
6/1/2024	9:31	Fine	Surface	1.0	19.70	19.69	19.70	8.24	8.25	8.25	33.91	33.90	33.91	112.4	112.6	112.5	8.41	8.44	8.43	1.19	1.20	1.20
			Middle																			
	9:35		Bottom	4.3	19.25	19.27	19.26	8.13	8.11	8.12	34.89	34.86	34.88	96.6	96.2	96.4	7.24	7.20	7.22	1.37	1.41	1.39
8/1/2024	10:02	Fine	Surface	1.0	20.16	20.16	20.16	8.12	8.12	8.12	34.33	34.33	34.33	95.7	95.9	95.8	7.09	7.11	7.10	0.78	0.79	0.79
			Middle																			
	10:06		Bottom	4.2	19.97	19.97	19.97	8.13	8.13	8.13	34.44	34.44	34.44	94.1	93.9	94.0	7.00	7.08	7.04	1.12	1.14	1.13
10/1/2024	11:42	Fine	Surface	1.0	20.53	20.53	20.53	8.09	8.09	8.09	34.42	34.42	34.42	100.5	100.7	100.6	7.38	7.40	7.39	1.51	1.53	1.52
			Middle																			
	11:46		Bottom	4.3	20.46	20.46	20.46	8.16	8.16	8.16	34.44	34.44	34.44	99.1	99.3	99.2	7.28	7.30	7.29	1.89	1.90	1.90
12/1/2024	14:38	Fine	Surface	1.0	20.46	20.42	20.44	8.23	8.25	8.24	34.10	34.07	34.09	112.7	113.0	112.9	8.31	8.36	8.34	1.23	1.25	1.24
			Middle																			
	14:42		Bottom	4.3	19.87	19.88	19.88	8.15	8.13	8.14	34.75	34.72	34.74	97.2	97.4	97.3	7.22	7.25	7.24	1.51	1.53	1.52
15/1/2024	17:10	Fine	Surface	1.0	21.09	21.07	21.08	8.32	8.27	8.30	33.60	33.61	33.61	125.5	125.0	125.3	9.17	9.13	9.15	1.50	1.52	1.51
			Middle																			
	17:14		Bottom	4.2	19.89	19.87	19.88	8.13	8.12	8.13	34.81	34.79	34.80	91.2	91.5	91.4	6.76	6.80	6.78	1.56	1.53	1.55
17/1/2024	19:08	Cloudy	Surface	1.0	20.32	20.30	20.31	8.30	8.31	8.31	34.33	34.35	34.34	112.0	112.2	112.1	8.34	8.36	8.35	1.64	1.62	1.63
			Middle																			
	19:12		Bottom	4.3	20.26	20.28	20.27	8.23	8.21	8.22	34.53	34.57	34.55	103.5	103.7	103.6	7.64	7.67	7.66	1.99	1.97	1.98
19/1/2024	9:14	Fine	Surface	1.0	21.41	21.40	21.41	8.28	8.26	8.27	33.91	33.88	33.90	114.9	114.6	114.8	8.34	8.28	8.31	1.27	1.25	1.26
			Middle																			
	9:18		Bottom	4.2	20.09	20.07	20.08	8.17	8.15	8.16	34.74	34.72	34.73	90.2	90.9	90.6	6.66	6.72	6.69	1.73	1.75	1.74

Water Monitoring Result at F3 - Yung Shue Au Fish Culture Zone / Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	7:36	Cloudy	Surface	1.0	23.63	23.63	23.63	8.57	8.58	8.58	32.13	32.13	32.13	93.6	93.8	93.7	6.58	6.60	6.59	1.11	1.13	1.12
			Middle																			
	7:40		Bottom	4.4	23.70	23.70	23.70	8.47	8.47	8.47	32.27	32.27	32.27	81.3	81.4	81.4	5.70	5.71	5.71	1.66	1.69	1.68
30/11/2023	9:47	Cloudy	Surface	1.0	24.08	24.08	24.08	8.44	8.44	8.44	31.91	31.91	31.91	107.8	107.7	107.8	7.53	7.52	7.53	0.58	0.60	0.59
			Middle																			
	9:51		Bottom	4.5	23.64	23.64	23.64	8.44	8.44	8.44	32.06	32.06	32.06	96.1	96.3	96.2	6.77	6.80	6.79	0.90	0.92	0.91
1/12/2023	10:47	Fine	Surface	1.0	23.67	23.67	23.67	8.51	8.57	8.54	32.15	32.15	32.15	90.3	90.0	90.2	6.35	6.34	6.35	0.88	0.85	0.87
			Middle																			
	10:51		Bottom	4.4	23.61	23.61	23.61	8.53	8.53	8.53	32.26	32.26	32.26	82.0	81.7	81.9	5.78	5.75	5.77	1.13	1.10	1.12
4/12/2023	10:04	Fine	Surface	1.0	23.46	23.45	23.46	8.26	8.29	8.28	32.32	32.35	32.34	84.8	84.6	84.7	5.98	5.94	5.96	0.98	1.02	1.00
			Middle																			
	10:08		Bottom	4.2	23.37	23.37	23.37	8.26	8.24	8.25	32.33	32.38	32.36	75.1	75.6	75.4	5.34	5.39	5.37	1.55	1.60	1.58
6/12/2023	15:00	Cloudy	Surface	1.0	23.10	23.10	23.10	8.78	8.78	8.78	31.83	31.83	31.83	102.4	102.6	102.5	7.30	7.32	7.31	0.95	0.98	0.97
			Middle																			
	15:04		Bottom	4.3	23.19	23.19	23.19	8.67	8.67	8.67	32.05	32.05	32.05	93.5	93.3	93.4	6.64	6.62	6.63	0.80	0.82	0.81
8/12/2023	16:23	Fine	Surface	1.0	22.70	22.70	22.70	9.00	9.00	9.00	31.94	31.94	31.94	125.8	125.6	125.7	9.01	8.99	9.00	1.10	1.12	1.11
			Middle																			
	16:27		Bottom	4.4	22.59	22.59	22.59	8.83	8.83	8.83	32.08	32.08	32.08	109.5	109.6	109.6	7.85	7.86	7.86	0.80	0.84	0.82
11/12/2023	8:13	Cloudy	Surface	1.0	23.84	23.84	23.84	8.57	8.57	8.57	32.52	32.52	32.52	108.6	108.8	108.7	7.61	7.62	7.62	0.91	0.93	0.92
			Middle																			
	8:17		Bottom	4.4	23.71	23.71	23.71	8.46	8.46	8.46	32.56	32.56	32.56	100.0	100.2	100.1	7.01	7.03	7.02	1.12	1.14	1.13
13/12/2023	9:10	Cloudy	Surface	1.0	23.51	23.51	23.51	8.21	8.21	8.21	32.87	32.87	32.87	93.2	93.0	93.1	6.55	6.53	6.54	0.62	0.60	0.61
			Middle																			
	9:14		Bottom	4.5	23.42	23.42	23.42	8.06	8.06	8.06	33.02	33.02	33.02	88.5	88.3	88.4	6.25	6.23	6.24	1.12	1.10	1.11
15/12/2023	11:30	Fine	Surface	1.0	23.88	23.87	23.88	8.22	8.23	8.23	31.59	31.58	31.59	107.4	107.2	107.3	7.55	7.53	7.54	0.16	0.14	0.15
			Middle																			
	11:34		Bottom	4.4	23.63	23.64	23.64	8.06	8.05	8.06	31.99	32.00	32.00	71.5	71.3	71.4	5.04	5.03	5.04	1.51	1.52	1.52
18/12/2023	12:17	Cloudy	Surface	1.0	21.91	21.91	21.91	8.28	8.28	8.28	32.74	32.74	32.74	98.1	98.0	98.1	7.08	7.07	7.08	0.54	0.56	0.55
			Middle																			
	12:21		Bottom	4.4	22.09	22.09	22.09	8.26	8.26	8.26	32.70	32.70	32.70	96.1	96.3	96.2	6.93	6.95	6.94	1.05	1.06	1.06
20/12/2023	15:34	Cloudy	Surface	1.0	21.48	21.50	21.49	8.11	8.13	8.12	34.17	34.16	34.17	90.3	89.4	89.9	6.48	6.46	6.47	1.27	1.29	1.28
			Middle																			
	15:38		Bottom	4.3	21.52	21.54	21.53	8.15	8.17	8.16	34.22	34.24	34.23	87.9	88.6	88.3	6.31	6.40	6.36	1.50	1.52	1.51
22/12/2023	16:25	Cloudy	Surface	1.0	19.73	19.72	19.73	8.03	8.02	8.03	34.22	34.23	34.23	87.7	87.6	87.7	6.54	6.54	6.54	2.69	2.67	2.68
			Middle																			
	16:29		Bottom	4.5	19.72	19.72	19.72	8.03	8.04	8.04	34.23	34.23	34.23	86.4	86.8	86.6	6.46	6.48	6.47	2.72	2.73	2.73
26/12/2023	8:11	Cloudy	Surface	1.0	17.97	17.98	17.98	8.03	8.04	8.04	34.12	34.11	34.12	95.8	95.9	95.9	7.39	7.39	7.39	1.85	1.81	1.83
			Middle																			
	8:15		Bottom	4.4	17.84	17.85	17.85	8.05	8.06	8.06	34.14	34.15	34.15	95.6	95.5	95.6	7.40	7.40	7.40	2.34	2.32	2.33
28/12/2023	15:08	Fine	Surface	1.0	18.85	18.85	18.85	8.17	8.14	8.16	34.20	34.26	34.23	109.1	108.6	108.9	8.28	8.23	8.26	1.33	1.35	1.34
			Middle																			
	15:12		Bottom	4.1	18.78	18.77	18.78	8.11	8.08	8.10	35.07	35.09	35.08	95.1	95.3	95.2	7.19	7.22	7.21	2.52	2.54	2.53
30/12/2023	11:35	Fine	Surface	1.0	19.44	19.46	19.45	8.14	8.16	8.15	34.22	34.25	34.24	103.9	104.3	104.1	7.86	7.84	7.85	1.18	1.20	1.19
			Middle																			
	11:39		Bottom	4.2	18.87	18.86	18.87	8.11	8.14	8.13	35.04	35.07	35.06	94.0	93.8	93.9	7.11	7.08	7.10	1.68	1.71	1.70
2/1/2024	16:00	Fine	Surface	1.0	19.48	19.48	19.48	8.21	8.21	8.21	34.72	34.72	34.72	105.1	105.3	105.2	7.88	7.90	7.89	1.50	1.51	1.51
			Middle																			
	16:04		Bottom	4.3	19.49	19.48	19.49	8.20	8.20	8.20	34.80	34.80	34.80	103.1	103.3	103.2	7.75	7.77	7.76	1.54	1.55	1.55
4/1/2024	13:50	Fine	Surface	1.0	19.16	19.16	19.16	8.05	8.05	8.05	34.62	34.62	34.62	103.8	103.6	103.7	7.83	7.81	7.82	1.22	1.24	1.23
			Middle																			
	13:54		Bottom	4.3	19.11	19.11	19.11	8.20	8.20	8.20	34.61	34.61	34.61	103.5	103.3	103.4	7.78	7.75	7.77	1.48	1.50	1.49
6/1/2024	16:26	Fine	Surface	1.0	19.91	19.97	19.94	8.23	8.25	8.24	33.97	33.95	33.96	112.0	112.2	112.1	8.36	8.39	8.38	1.22	1.25	1.24
			Middle																			
	16:30		Bottom	4.2	19.15	19.13	19.14	8.15	8.12	8.14	34.97	34.99	34.98	95.1	94.8	95.0	7.14	7.12	7.13	2.11	2.08	2.10
8/1/2024	16:03	Fine	Surface	1.0	19.41	19.41	19.41	8.21	8.21	8.21	34.70	34.70	34.70	99.4	99.2	99.3	7.45	7.43	7.44	1.08	1.10	1.09
			Middle																			
	16:07		Bottom	4.2	19.32	19.32	19.32	8.16	8.16	8.16	34.79	34.79	34.79	95.7	95.9	95.8	7.20	7.22	7.21	1.47	1.50	1.49
10/1/2024	16:51	Fine	Surface	1.0	20.44	20.44	20.44	8.17	8.17	8.17	34.42	34.42	34.42	99.7	99.5	99.6	7.35	7.33	7.34	1.49	1.51	1.50
			Middle																			
	16:55		Bottom	4.2	20.37	20.37	20.37	8.17	8.17	8.17	34.45	34.45	34.45	99.3	99.5	99.4	7.32	7.33	7.33	1.63	1.65	1.64
12/1/2024	21:05	Fine	Surface	1.0	20.67	20.62	20.65	8.24	8.26	8.25	33.70	33.68	33.69	114.3	114.6	114.5	8.44	8.47	8.46	1.54	1.51	1.53
			Middle																			
	21:09		Bottom	4.3	19.85	19.86	19.86	8.18	8.15	8.17	34.80	34.79	34.80	101.0	101.2	101.1	7.51	7.54	7.53	1.50	1.56	1.53
15/1/2024	12:21	Fine	Surface	1.0	20.85	20.86	20.86	8.28	8.25	8.27	33.41	33.43	33.42	119.5	119.9	119.7	8.79	8.82	8.81	1.49	1.47	1.48
			Middle																			
	12:25		Bottom	4.2	19.63	19.61	19.62	8.17	8.15	8.16	34.99	34.98	34.99	94.8	94.6	94.7	7.06	7.04	7.05	1.96	1.94	1.95
17/1/2024	12:48	Cloudy	Surface	1.0	20.29	20.31	20.30	8.26	8.27	8.27	34.53	34.51	34.52	105.7	105.9	105.8	7.80	7.81	7.81	2.11	2.12	2.12
			Middle																			
	12:52		Bottom	4.3	20.04	20.06	20.05	8.20	8.22	8.21	34.79	34.77	34.78	96.8	96.6	96.7	7.16	7.14	7.15	2.47	2.44	2.46
19/1/2024	15:28	Fine	Surface	1.0	20.46	20.47	20.47	8.26	8.28	8.27	34.44	34.40	34.42	106.7	106.9	106.8	7.85	7.89	7.87	1.53	1.51	1.52
			Middle																			
	15:32		Bottom	4.3	19.95	19.93	19.94	8.18	8.16	8.17	34.87	34.85	34.86	94.6	94.2	94.4	6.97	6.94	6.96	1.78	1.75	1.77

Water Monitoring Result at F3 - Yung Shue Au Fish Culture Zone / Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	13:34	Cloudy	Surface	1.0	23.65	23.65	23.65	8.55	8.55	8.55	32.15	32.15	32.15	94.0	94.2	94.1	6.62	6.64	6.63	1.15	1.17	1.16
			Middle																			
	13:38		Bottom	5.2	23.69	23.69	23.69	8.50	8.50	8.50	32.28	32.28	32.28	81.6	81.8	81.7	5.73	5.75	5.74	1.70	1.72	1.71
30/11/2023	11:25	Cloudy	Surface	1.0	24.08	24.08	24.08	8.44	8.44	8.44	31.92	31.92	31.92	107.0	107.4	107.2	7.45	7.49	7.47	0.62	0.65	0.64
			Middle																			
	11:29		Bottom	4.4	23.63	23.63	23.63	8.49	8.49	8.49	32.05	32.05	32.05	95.5	95.8	95.7	6.74	6.77	6.76	0.85	0.88	0.87
1/12/2023	13:44	Fine	Surface	1.0	23.73	23.73	23.73	8.57	8.57	8.57	32.14	32.14	32.14	91.1	91.3	91.2	6.41	6.43	6.42	0.87	0.89	0.88
			Middle																			
	13:48		Bottom	4.2	23.58	23.58	23.58	8.44	8.44	8.44	32.26	32.26	32.26	80.0	80.2	80.1	5.60	5.62	5.61	1.08	1.10	1.09
4/12/2023	18:24	Fine	Surface	1.0	23.57	23.56	23.57	8.24	8.22	8.23	32.29	32.27	32.28	86.8	86.5	86.7	6.07	6.04	6.06	0.68	0.65	0.67
			Middle																			
	18:28		Bottom	4.4	23.38	23.38	23.38	8.25	8.27	8.26	32.36	32.39	32.38	74.6	74.3	74.5	5.27	5.24	5.26	2.56	2.49	2.53
6/12/2023	8:15	Cloudy	Surface	1.0	23.03	23.03	23.03	8.70	8.70	8.70	31.85	31.85	31.85	107.5	107.7	107.6	7.66	7.68	7.67	0.70	0.74	0.72
			Middle																			
	8:19		Bottom	5.0	23.18	23.18	23.18	8.67	8.67	8.67	32.04	32.04	32.04	96.5	96.3	96.4	6.85	6.83	6.84	0.78	0.80	0.79
8/12/2023	9:47	Fine	Surface	1.0	22.66	22.66	22.66	9.03	9.03	9.03	31.93	31.93	31.93	127.0	127.2	127.1	9.11	9.13	9.12	1.09	1.06	1.08
			Middle																			
	9:51		Bottom	4.2	22.60	22.60	22.60	8.89	8.89	8.89	32.06	32.06	32.06	110.4	110.2	110.3	7.93	7.91	7.92	0.85	0.88	0.87
11/12/2023	9:30	Cloudy	Surface	1.0	23.81	23.81	23.81	8.58	8.58	8.58	32.52	32.52	32.52	109.2	109.4	109.3	7.66	7.70	7.68	1.04	1.06	1.05
			Middle																			
	9:34		Bottom	4.2	23.80	23.80	23.80	8.63	8.63	8.63	32.53	32.53	32.53	91.5	91.7	91.6	6.40	6.42	6.41	1.24	1.26	1.25
13/12/2023	13:06	Cloudy	Surface	1.0	23.52	23.52	23.52	8.21	8.21	8.21	32.87	32.87	32.87	91.1	90.9	91.0	6.42	6.40	6.41	0.54	0.56	0.55
			Middle																			
	13:10		Bottom	4.3	23.44	23.44	23.44	8.17	8.17	8.17	32.91	32.91	32.91	86.6	86.4	86.5	6.16	6.14	6.15	0.53	0.52	0.53
15/12/2023	16:07	Fine	Surface	1.0	23.84	23.85	23.85	8.24	8.25	8.25	31.59	31.58	31.59	111.9	112.6	112.3	7.88	7.94	7.91	0.18	0.19	0.19
			Middle																			
	16:11		Bottom	4.1	23.59	23.60	23.60	8.03	8.04	8.04	32.00	32.01	32.01	68.1	68.3	68.2	4.81	4.82	4.82	2.54	2.55	2.55
18/12/2023	16:30	Cloudy	Surface	1.0	22.03	22.03	22.03	8.27	8.27	8.27	32.71	32.71	32.71	97.1	97.2	97.2	7.02	7.03	7.03	0.69	0.68	0.69
			Middle																			
	16:34		Bottom	4.2	22.08	22.08	22.08	8.26	8.26	8.26	32.70	32.70	32.70	95.3	95.4	95.4	6.88	6.89	6.89	1.10	1.09	1.10
20/12/2023	9:32	Cloudy	Surface	1.0	21.27	21.25	21.26	8.15	8.20	8.18	34.12	34.10	34.11	91.6	91.8	91.7	6.54	6.57	6.56	1.26	1.24	1.25
			Middle																			
	9:36		Bottom	4.1	21.20	21.18	21.19	8.22	8.24	8.23	34.08	34.07	34.08	88.7	88.1	88.4	6.43	6.38	6.41	1.43	1.49	1.46
22/12/2023	10:14	Cloudy	Surface	1.0	19.70	19.71	19.71	8.03	8.03	8.03	34.21	34.21	34.21	87.1	87.4	87.3	6.51	6.52	6.52	2.57	2.55	2.56
			Middle																			
	10:18		Bottom	4.4	19.70	19.70	19.70	8.04	8.04	8.04	34.22	34.23	34.23	86.2	86.1	86.2	6.44	6.43	6.44	2.68	2.66	2.67
26/12/2023	13:12	Cloudy	Surface	1.0	18.01	18.02	18.02	8.04	8.04	8.04	34.13	34.12	34.13	95.6	95.4	95.5	7.38	7.37	7.38	1.84	1.85	1.85
			Middle																			
	13:16		Bottom	4.4	17.93	17.92	17.93	8.05	8.05	8.05	34.16	34.15	34.16	95.1	95.2	95.2	7.35	7.35	7.35	1.88	1.87	1.88
28/12/2023	11:02	Fine	Surface	1.0	18.84	18.84	18.84	8.18	8.20	8.19	34.22	34.25	34.24	109.4	110.2	109.8	8.30	8.39	8.35	1.20	1.19	1.20
			Middle																			
	11:06		Bottom	4.0	18.72	18.71	18.72	8.07	8.05	8.06	35.20	35.14	35.17	95.5	95.7	95.6	7.23	7.26	7.25	2.49	2.52	2.51
30/12/2023	16:26	Fine	Surface	1.0	19.40	19.36	19.38	8.12	8.11	8.12	34.26	34.24	34.25	105.6	105.7	105.7	7.94	7.96	7.95	1.13	1.15	1.14
			Middle																			
	16:30		Bottom	4.1	18.90	18.92	18.91	8.10	8.08	8.09	35.02	34.97	35.00	93.3	93.0	93.2	7.04	7.00	7.02	1.71	1.74	1.73
2/1/2024	8:49	Fine	Surface	1.0	19.53	19.53	19.53	8.19	8.19	8.19	34.78	34.78	34.78	103.9	103.7	103.8	7.81	7.79	7.80	1.60	1.62	1.61
			Middle																			
	8:53		Bottom	4.0	19.50	19.50	19.50	8.19	8.19	8.19	34.82	34.82	34.82	102.7	102.5	102.6	7.73	7.71	7.72	1.67	1.69	1.68
4/1/2024	17:49	Fine	Surface	1.0	19.16	19.16	19.16	8.06	8.06	8.06	34.63	34.63	34.63	103.1	103.3	103.2	7.77	7.79	7.78	1.32	1.34	1.33
			Middle																			
	17:53		Bottom	4.0	19.11	19.11	19.11	8.19	8.19	8.19	34.60	34.60	34.60	104.8	104.6	104.7	7.90	7.88	7.89	1.14	1.16	1.15
6/1/2024	10:17	Fine	Surface	1.0	19.89	19.87	19.88	8.20	8.17	8.19	33.91	33.94	33.93	111.7	111.1	111.4	8.33	8.26	8.30	1.20	1.23	1.22
			Middle																			
	10:21		Bottom	4.1	19.19	19.17	19.18	8.16	8.14	8.15	34.93	34.95	34.94	97.9	97.7	97.8	7.38	7.35	7.37	2.00	1.97	1.99
8/1/2024	10:52	Fine	Surface	1.0	19.38	19.38	19.38	8.17	8.17	8.17	34.75	34.75	34.75	100.3	100.5	100.4	7.50	7.52	7.51	1.14	1.16	1.15
			Middle																			
	10:56		Bottom	4.1	19.31	19.31	19.31	8.15	8.15	8.15	34.79	34.79	34.79	96.8	96.6	96.7	7.26	7.24	7.25	1.35	1.38	1.37
10/1/2024	12:29	Fine	Surface	1.0	20.45	20.45	20.45	8.17	8.17	8.17	34.39	34.39	34.39	100.0	100.2	100.1	7.40	7.42	7.41	1.44	1.45	1.45
			Middle																			
	12:33		Bottom	4.0	20.31	20.31	20.31	8.18	8.18	8.18	34.43	34.43	34.43	99.7	99.5	99.6	7.36	7.34	7.35	1.54	1.55	1.55
12/1/2024	15:24	Fine	Surface	1.0	20.68	20.70	20.69	8.23	8.21	8.22	33.73	33.71	33.72	114.1	114.3	114.2	8.40	8.44	8.42	1.59	1.61	1.60
			Middle																			
	15:28		Bottom	4.0	19.80	19.86	19.83	8.19	8.17	8.18	34.84	34.86	34.85	100.5	100.3	100.4	7.47	7.44	7.46	1.49	1.47	1.48
15/1/2024	18:01	Fine	Surface	1.0	20.77	20.74	20.76	8.30	8.31	8.31	33.52	33.55	33.54	120.5	120.7	120.6	8.86	8.89	8.88	1.44	1.42	1.43
			Middle																			
	18:05		Bottom	4.0	19.67	19.66	19.67	8.18	8.16	8.17	34.95	34.93	34.94	95.1	95.4	95.3	7.08	7.11	7.10	1.60	1.63	1.62
17/1/2024	19:55	Cloudy	Surface	1.0	20.28	20.26	20.27	8.25	8.23	8.24	34.50	34.48	34.49	107.4	107.6	107.5	7.92	7.94	7.93	2.10	2.13	2.12
			Middle																			
	19:59		Bottom	4.0	20.09	20.10	20.10	8.19	8.18	8.19	34.81	34.83	34.82	96.4	96.2	96.3	7.14	7.11	7.13	2.40	2.41	2.41
19/1/2024	10:00	Fine	Surface	1.0	20.48	20.45	20.47	8.25	8.27	8.26	34.42	34.44	34.43	104.8	105.0	104.9	7.71	7.73	7.72	1.58	1.56	1.57
			Middle																			
	10:04		Bottom	3.9	19.97	19.96	19.97	8.19	8.21	8.20	34.90	34.92	34.91	94.9	95.2	95.1	7.03	7.06	7.05	1.84	1.86	1.85

Water Monitoring Result at F4 - Lo Fu Wat Fish Culture Zone
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	7:48	Cloudy	Surface	1.0	23.60	23.60	23.60	8.65	8.65	8.65	32.27	32.27	32.27	105.2	105.0	105.1	7.41	7.39	7.40	0.63	0.65	0.64
	7:50		Middle	5.5	23.63	23.63	23.63	8.64	8.64	8.64	32.28	32.28	32.28	101.9	102.2	102.1	7.16	7.19	7.18	0.55	0.55	0.55
	7:52		Bottom	10.0	23.69	23.69	23.69	8.55	8.55	8.55	32.52	32.52	32.52	93.9	94.1	94.0	6.62	6.64	6.63	0.50	0.55	0.53
30/11/2023	9:20	Cloudy	Surface	1.0	23.60	23.60	23.60	8.52	8.52	8.52	32.33	32.33	32.33	93.9	93.7	93.8	6.61	6.59	6.60	0.77	0.80	0.79
	9:22		Middle	5.5	23.67	23.67	23.67	8.53	8.53	8.53	32.68	32.68	32.68	82.6	82.8	82.7	5.78	5.80	5.79	1.12	1.14	1.13
	9:24		Bottom	10.0	23.70	23.70	23.70	8.53	8.50	8.52	32.77	32.77	32.77	79.2	79.0	79.1	5.54	5.52	5.53	1.82	1.84	1.83
1/12/2023	10:34	Fine	Surface	1.0	23.52	23.52	23.52	8.71	8.71	8.71	32.41	32.41	32.41	95.3	95.1	95.2	6.72	6.70	6.71	0.61	0.59	0.60
	10:36		Middle	5.5	23.59	23.59	23.59	8.65	8.65	8.65	32.41	32.41	32.41	94.7	94.5	94.6	6.67	6.65	6.66	0.52	0.50	0.51
	10:38		Bottom	10.0	23.56	23.56	23.56	8.64	8.64	8.64	32.44	32.44	32.44	94.5	94.8	94.7	6.66	6.68	6.67	0.45	0.44	0.45
4/12/2023	9:40	Fine	Surface	1.0	23.41	23.39	23.40	8.44	8.43	8.44	32..3	32.33	32.33	103.4	103.6	103.5	7.32	7.35	7.34	0.46	0.48	0.47
	9:42		Middle	5.5	23.07	23.06	23.07	8.45	8.48	8.47	32.21	32.53	32.37	110.7	110.9	110.8	7.87	7.89	7.88	0.69	0.71	0.70
	9:44		Bottom	10.0	23.25	23.26	23.26	8.39	8.41	8.40	32.53	32.57	32.55	87.1	86.8	87.0	6.26	6.20	6.23	1.46	1.50	1.48
6/12/2023	14:49	Cloudy	Surface	1.0	23.14	23.14	23.14	8.62	8.62	8.62	32.27	32.27	32.27	102.4	102.6	102.5	7.28	7.30	7.29	0.41	0.44	0.43
	14:51		Middle	5.4	23.39	23.39	23.39	8.53	8.53	8.53	32.29	32.29	32.29	95.7	95.9	95.8	6.74	6.76	6.75	0.35	0.36	0.36
	14:53		Bottom	9.8	23.32	23.34	23.33	8.49	8.49	8.49	32.90	32.90	32.90	82.9	83.1	83.0	5.93	5.95	5.94	1.30	1.32	1.31
8/12/2023	15:56	Fine	Surface	1.0	22.72	22.72	22.72	8.72	8.72	8.72	32.25	32.25	32.25	100.4	100.2	100.3	7.19	7.17	7.18	0.43	0.45	0.44
	15:58		Middle	5.5	22.59	22.59	22.59	8.84	8.84	8.84	32.27	32.27	32.27	94.0	93.8	93.9	6.74	6.72	6.73	0.50	0.49	0.50
	16:00		Bottom	10.0	22.50	22.50	22.50	8.62	8.62	8.62	33.05	33.05	33.05	80.8	80.7	80.8	5.78	5.77	5.78	1.21	1.22	1.22
11/12/2023	7:48	Cloudy	Surface	1.0	23.91	23.91	23.91	8.60	8.60	8.60	32.33	32.33	32.33	104.0	103.7	103.9	7.29	7.24	7.27	1.01	1.04	1.03
	7:50		Middle	5.5	23.54	23.54	23.54	8.64	8.64	8.64	32.36	32.36	32.36	104.8	104.6	104.7	7.39	7.37	7.38	0.82	0.80	0.81
	7:52		Bottom	10.0	23.45	23.45	23.45	8.62	8.62	8.62	32.42	32.42	32.42	100.4	100.2	100.3	7.09	7.07	7.08	1.31	1.34	1.33
13/12/2023	8:48	Cloudy	Surface	1.0	23.86	23.86	23.86	8.27	8.27	8.27	32.82	32.83	32.83	101.3	101.4	101.4	7.07	7.08	7.08	0.52	0.53	0.53
	8:50		Middle	5.6	23.95	23.95	23.95	8.25	8.25	8.25	32.77	32.77	32.77	99.4	99.6	99.5	6.94	6.96	6.95	0.66	0.67	0.67
	8:52		Bottom	10.2	23.48	23.48	23.48	8.26	8.26	8.26	33.07	33.07	33.07	97.4	97.2	97.3	6.86	6.84	6.85	0.98	1.00	0.99
15/12/2023	11:08	Fine	Surface	1.0	23.76	23.77	23.77	8.21	8.22	8.22	31.76	31.77	31.77	108.0	108.3	108.2	7.62	7.63	7.63	0.12	0.11	0.12
	11:10		Middle	5.0	23.34	23.35	23.35	8.12	8.10	8.11	32.14	32.13	32.14	87.3	87.5	87.4	6.19	6.20	6.20	0.17	0.16	0.17
	11:12		Bottom	9.0	23.10	23.11	23.11	8.10	8.11	8.11	32.25	32.26	32.26	84.6	84.7	84.7	6.00	6.01	6.01	0.16	0.15	0.16
18/12/2023	11:49	Cloudy	Surface	1.0	22.05	22.05	22.05	8.25	8.25	8.25	32.68	32.68	32.68	94.7	94.9	94.8	6.85	6.87	6.86	0.62	0.63	0.63
	11:51		Middle	5.5	22.12	22.12	22.12	8.23	8.23	8.23	32.74	32.74	32.74	91.0	91.2	91.1	6.56	6.58	6.57	0.73	0.74	0.74
	11:53		Bottom	10.0	22.12	22.12	22.12	8.23	8.23	8.23	32.74	32.74	32.74	90.3	90.5	90.4	6.51	6.53	6.52	1.05	1.06	1.06
20/12/2023	15:09	Cloudy	Surface	1.0	21.25	21.28	21.27	8.11	8.12	8.12	34.03	34.02	34.03	94.1	93.8	94.0	6.83	6.77	6.80	1.35	1.37	1.36
	15:11		Middle	5.6	21.52	21.50	21.51	8.08	8.07	8.08	34.25	34.29	34.27	84.9	84.7	84.8	6.13	6.10	6.12	1.25	1.27	1.26
	15:13		Bottom	10.2	21.72	21.74	21.73	8.20	8.13	8.17	34.32	34.36	34.34	83.6	83.2	83.4	6.01	5.96	5.99	1.17	1.18	1.18
22/12/2023	15:56	Cloudy	Surface	1.0	20.16	20.15	20.16	8.06	8.05	8.06	34.37	34.37	34.37	93.4	93.5	93.5	6.90	6.91	6.91	1.71	1.73	1.72
	15:58		Middle	5.5	20.17	20.17	20.17	8.04	8.05	8.05	34.35	34.34	34.35	89.2	89.1	89.2	6.61	6.61	6.61	1.65	1.62	1.64
	16:00		Bottom	10.0	20.15	20.16	20.16	8.06	8.05	8.06	34.36	34.37	34.37	89.4	89.5	89.5	6.62	6.63	6.63	1.68	1.67	1.68
26/12/2023	7:42	Cloudy	Surface	1.0	17.97	17.96	17.97	8.17	8.17	8.17	33.68	33.69	33.69	111.9	112.1	112.0	8.67	8.68	8.68	1.31	1.33	1.32
	7:44		Middle	5.5	18.86	18.87	18.87	8.07	8.07	8.07	34.57	34.56	34.57	97.4	97.1	97.3	7.38	7.35	7.37	1.48	1.49	1.49
	7:46		Bottom	10.0	18.88	18.87	18.88	8.06	8.07	8.07	34.76	34.77	34.77	91.5	91.7	91.6	6.90	6.91	6.91	1.91	1.92	1.92
28/12/2023	14:45	Fine	Surface	1.0	18.91	18.90	18.91	8.17	8.19	8.18	34.19	34.16	34.18	109.2	109.6	109.4	8.28	8.31	8.30	1.28	1.30	1.29
	14:47		Middle	5.6	18.81	18.80	18.81	8.13	8.11	8.12	35.00	35.03	35.02	99.1	98.5	98.8	7.49	7.44	7.47	2.25	2.27	2.26
	14:49		Bottom	10.2	18.67	18.67	18.67	8.14	8.16	8.15	35.16	35.19	35.18	94.7	94.4	94.6	7.17	7.14	7.16	3.04	3.08	3.06
30/12/2023	11:20	Fine	Surface	1.0	19.01	19.03	19.02	8.11	8.14	8.13	34.60	34.63	34.62	105.5	105.9	105.7	7.96	8.04	8.00	1..36	1.34	1.34
	11:22		Middle	5.5	18.94	18.96	18.95	8.15	8.17	8.16	34.86	34.88	34.87	99.7	99.4	99.6	7.53	7.50	7.52	1.64	1.62	1.63
	11:24		Bottom	10.0	18.85	18.80	18.83	8.10	8.06	8.08	35.06	34.99	35.03	94.0	94.3	94.2	7.13	7.19	7.16	1.69	1.70	1.70
2/1/2024	15:35	Fine	Surface	1.0	19.55	19.55	19.55	8.19	8.19	8.19	34.61	34.61	34.61	107.3	107.1	107.2	8.02	8.00	8.01	1.34	1.36	1.35
	15:37		Middle	5.7	19.55	19.55	19.55	8.23	8.23	8.23	34.61	34.61	34.61	107.8	108.0	107.9	8.08	8.10	8.09	1.40	1.42	1.41
	15:39		Bottom	10.3	19.52	19.52	19.52	8.23	8.23	8.23	34.61	34.61	34.61	107.0	107.2	107.1	8.00	8.02	8.01	1.42	1.44	1.43
4/1/2024	13:18	Fine	Surface	1.0	19.56	19.56	19.56	8.19	8.19	8.19	33.99	33.99	33.99	108.9	108.7	108.8	8.17	8.15	8.16	1.40	1.42	1.41
	13:20		Middle	5.5	19.47	19.47	19.47	8.19	8.19	8.19	34.28	34.28	34.28	105.1	104.9	105.0	7.88	7.86	7.87	1.41	1.43	1.42
	13:22		Bottom	10.1	19.48	19.48	19.48	8.19	8.19	8.19	34.29	34.29	34.29	103.6	103.8	103.7	7.77	7.79	7.78	1.48	1.50	1.49
6/1/2024	16:03	Fine	Surface	1.0	19.94	19.91	19.93	8.18	8.17	8.18	33.99	33.98	33.99	110.5	110.3	110.4	8.22	8.21	8.22	1.20	1.22	1.21
	16:05		Middle	5.5	19.34	19.35	19.35	8.18	8.16	8.17	34.59	34.62	34.61	101.9	102.1	102.0	7.63	7.67	7.65	1.65	1.66	1.66
	16:07		Bottom	10.1	18.88	18.93	18.91	8.12	8.10	8.11	35.15	35.18	35.17	91.2	91.0	91.1	6.87	6.84	6.86	1.93	1.95	1.94
8/1/2024	15:36	Fine	Surface	1.0	19.81	19.81	19.81	8.21	8.21	8.21	34.62	34.62	34.62	104.5	104.3	104.4	7.82	7.80	7.81	0.99	1.02	1.01
	15:38		Middle	5.6	19.57	19.57	19.57	8.22	8.22	8.22	34.63	34.63	34.63	104.2	104.0	104.1	7.79	7.77	7.78	1.11	1.14	1.13
	15:40		Bottom	10.2	19.55	19.55	19.55	8.19	8.19	8.19	34.65	34.65	34.65	99.1	99.3	99.2	7.41	7.43	7.42	1.05	1.08	1.07
10/1/2024	16:25	Fine	Surface	1.0	19.86	19.86	19.86	8.21	8.21	8.21	34.61	34.61	34.61	103.3	103.5	103.4	7.69	7.71	7.70	1.12	1.15	1.14
	16:27		Middle	5.5	19.80	19.80	19.80	8.20	8.20	8.20	34.68	34.68	34.68	102.2	102.4	102.3	7.61	7.63	7.62	1.48	1.50	1.49
	16:29		Bottom	10.0	19.78	19.78	19.78	8.20	8.20	8.20	34.73	34.73	34.73	102.5	102.3	102.4	7.63	7.61	7.62	1.60	1.62	1.61
12/1/2024	20:42	Fine	Surface	1.0	20.53	20.51	20.52	8.22	8.19	8.21	33.91	33.94	33.93	114.4	114.6	114.5	8.44	8.45	8.45	1.49	1.47	1.48
	20:44		Middle	5.6	20.19	20.20	20.20	8.20	8.21	8.21	34.43	34.40	34.42	106.9	107.1	107.0	7.90	7.91	7.91	1.43	1.45	1.44
	20:46		Bottom	10.2	19.81	19.82	19.82	8.15	8.13	8.14	34.80	34.79	34.80	100.3	100.6	100.5	7.45	7.48	7.47	1.47	1.44	1.46
15/1/2024	11:56	Fine	Surface	1.0	20.97	20.98	20.98	8.23	8.25	8.24	33.17	33.15	33.16	115.0	115.2	115.1	8.46	8.48	8.47	1.54	1.57	1.56
	11:58		Middle	5.6	20.15	20.13	20.14	8.24	8.22	8.23	34.66	34.68	34.67	108.3	107.8	108.1	8.00	7.94	7.97	1.32	1.30	1.31
	12:00		Bottom	10.2	19.62	19.65	19.64	8.16	8.14	8.15	34.99	34.97	34.98	92.4	91.8	92.1	6.88	6.84	6.86	2.01	2.03	2.02
17/1/2024	12:24	Cloudy	Surface	1.0	20.26	20.25	20.26	8.24	8.22	8.23	34.47	34.46	34.47	108.1	108.5	108.3	7.98	8.06	8.02	2.09	2.11	2.10
	12:26		Middle	5.5	20.18	20.16	20.17	8.24	8.21	8.23	34.64	34.66	34.65	105.1	104.8	105.0	7.77	7.70	7.74	2.29	2.30	2.30
	12:28		Bottom	10.0	19.97	19.94	19.96	8.18	8.16	8.17	34.83	34.87	34.85	94.3	94.5	94.4	6.98	7.00	6.99	2.50	2.49	2.50
19/1/2024	15:03	Fine	Surface	1.0	20.26	20.24	20.25	8.25	8.26	8.26	34.50	34.52	34.51	106.0	106.2	106.1	7.83	7.84	7.84	1.56	1.58	1.57
	15:05		Middle	5.6	20.03	20.02	20.03	8.19	8.20	8.20	34.88	34.85	34.87	94.7	94.9	94.8	7.01	7.03	7.02	1.79	1.81	1.80
	15:07		Bottom	10.2	19.70	19.72	19.71	8.17	8.18	8.18	35.05	35.03	35.04	89.4	89.7	89.6	6.64	6.68	6.66	2.07	2.05	2.06

Water Monitoring Result at F4 - Lo Fu Wat Fish Culture Zone
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	13:46	Cloudy	Surface	1.0	23.61	23.62	23.62	8.65	8.65	8.65	32.29	32.29	32.29	104.5	104.6	104.6	7.34	7.35	7.35	0.70	0.72	0.71
	13:48		Middle	5.0	23.62	23.62	23.62	8.65	8.65	8.65	32.30	32.30	32.30	102.3	102.1	102.2	7.20	7.18	7.19	0.64	0.62	0.63
	13:50		Bottom	9.0	23.70	23.70	23.70	8.54	8.54	8.54	32.54	32.54	32.54	94.4	94.5	94.5	6.67	6.68	6.68	0.55	0.57	0.56
30/11/2023	11:49	Cloudy	Surface	1.0	23.60	23.60	23.60	8.52	8.52	8.52	32.33	32.33	32.33	92.8	93.0	92.9	6.51	6.53	6.52	0.80	0.84	0.82
	11:51		Middle	5.4	23.67	23.67	23.67	8.53	8.53	8.53	32.69	32.69	32.69	79.9	79.7	79.8	5.61	5.59	5.60	1.15	1.18	1.17
	11:53		Bottom	9.8	23.20	23.20	23.20	8.50	8.50	8.50	32.79	32.79	32.79	78.9	78.7	78.8	5.53	5.51	5.52	1.46	1.48	1.47
1/12/2023	13:58	Fine	Surface	1.0	23.52	23.52	23.52	8.51	8.51	8.51	32.36	32.36	32.36	94.7	94.9	94.8	6.68	6.70	6.69	0.89	0.90	0.90
	14:00		Middle	5.3	23.46	23.46	23.46	8.51	8.51	8.51	32.41	32.41	32.41	91.3	91.1	91.2	6.44	6.42	6.43	0.78	0.80	0.79
	14:02		Bottom	9.5	23.54	23.54	23.54	8.57	8.53	8.55	32.53	32.53	32.53	93.3	93.1	93.2	6.56	6.54	6.55	0.77	0.79	0.78
4/12/2023	17:59	Fine	Surface	1.0	23.41	23.41	23.41	8.43	8.45	8.44	32.28	32.26	32.27	104.3	104.7	104.5	7.37	7.40	7.39	0.47	0.45	0.46
	18:01		Middle	5.5	23.17	23.20	23.19	8.46	8.47	8.47	32.21	32.23	32.22	111.0	111.4	111.2	7.84	7.89	7.87	1.24	1.27	1.26
	18:03		Bottom	9.9	23.25	23.24	23.25	8.37	8.39	8.38	32.55	32.58	32.57	81.5	81.7	81.6	5.76	5.78	5.77	2.13	2.16	2.15
6/12/2023	8:32	Cloudy	Surface	1.0	23.14	23.14	23.14	8.62	8.62	8.62	32.26	32.26	32.26	101.8	102.0	101.9	7.22	7.24	7.23	0.40	0.43	0.42
	8:34		Middle	5.6	23.39	23.39	23.39	8.53	8.53	8.53	32.28	32.28	32.28	95.5	95.8	95.7	6.73	6.76	6.75	0.31	1.20	0.76
	8:36		Bottom	10.2	23.32	23.34	23.33	8.48	8.48	8.48	32.89	32.89	32.89	82.3	82.5	82.4	5.83	5.88	5.86	1.20	1.24	1.22
8/12/2023	9:20	Fine	Surface	1.0	22.80	22.80	22.80	8.88	8.88	8.88	32.23	32.23	32.23	101.0	101.3	101.2	7.22	7.25	7.24	0.40	0.42	0.41
	9:22		Middle	5.5	22.73	22.73	22.73	8.86	8.86	8.86	32.27	32.27	32.27	97.3	97.5	97.4	6.96	6.98	6.97	0.50	0.52	0.51
	9:24		Bottom	9.9	22.51	22.51	22.51	8.60	8.60	8.60	33.04	33.04	33.04	80.4	80.2	80.3	5.74	5.72	5.73	1.43	1.45	1.44
11/12/2023	9:56	Cloudy	Surface	1.0	23.67	23.67	23.67	8.63	8.63	8.63	32.32	32.32	32.32	105.2	105.0	105.1	7.41	7.39	7.40	0.88	0.90	0.89
	9:58		Middle	5.0	23.55	23.55	23.55	8.65	8.65	8.65	32.38	32.38	32.38	104.0	103.8	103.9	7.33	7.31	7.32	0.88	0.90	0.89
	10:00		Bottom	9.0	23.46	23.46	23.46	8.61	8.61	8.61	32.42	32.42	32.42	100.0	100.2	100.1	7.06	7.07	7.07	1.09	1.11	1.10
13/12/2023	12:39	Cloudy	Surface	1.0	23.94	23.94	23.94	8.25	8.25	8.25	32.78	32.78	32.78	100.9	100.8	100.9	7.08	7.07	7.08	0.65	0.66	0.66
	12:41		Middle	5.3	23.61	23.61	23.61	8.27	8.27	8.27	32.96	32.96	32.96	100.7	100.5	100.6	7.07	7.05	7.06	0.88	0.89	0.89
	12:43		Bottom	9.5	23.38	23.38	23.38	8.25	8.25	8.25	33.08	33.08	33.08	96.7	96.5	96.6	6.81	6.79	6.80	1.12	1.14	1.13
15/12/2023	15:38	Fine	Surface	1.0	23.71	23.70	23.71	8.19	8.20	8.20	31.98	31.97	31.98	108.7	108.9	108.8	7.66	7.67	7.67	0.14	0.13	0.14
	15:40		Middle	5.4	23.46	23.47	23.47	8.12	8.12	8.12	32.13	32.14	32.14	87.4	87.5	87.5	6.20	6.20	6.20	0.09	0.10	0.10
	15:42		Bottom	9.8	23.22	23.21	23.22	8.08	8.09	8.09	32.31	32.30	32.31	84.4	84.1	84.3	5.99	5.97	5.98	0.12	0.11	0.12
18/12/2023	16:04	Cloudy	Surface	1.0	22.05	22.05	22.05	8.28	8.28	8.28	32.70	32.70	32.70	95.3	95.1	95.2	6.90	6.88	6.89	0.43	0.41	0.42
	16:06		Middle	5.3	22.03	22.03	22.03	8.25	8.25	8.25	32.66	32.66	32.66	94.5	94.6	94.6	6.83	6.84	6.84	0.75	0.74	0.75
	16:08		Bottom	9.5	22.18	22.18	22.18	8.22	8.22	8.22	32.81	32.81	32.81	90.1	89.8	90.0	6.48	6.47	6.48	0.96	0.97	0.97
20/12/2023	9:09	Cloudy	Surface	1.0	21.35	21.36	21.36	8.08	8.06	8.07	34.17	34.14	34.16	91.3	91.1	91.2	6.63	6.60	6.62	1.32	1.34	1.33
	9:11		Middle	5.5	21.33	21.31	21.32	8.05	8.03	8.04	34.07	34.09	34.08	90.7	90.5	90.6	6.55	6.53	6.54	1.39	1.44	1.42
	9:13		Bottom	10.0	21.29	21.28	21.29	8.08	8.09	8.09	34.07	34.05	34.06	89.4	89.6	89.5	6.48	6.50	6.49	1.52	1.56	1.54
22/12/2023	9:47	Cloudy	Surface	1.0	20.12	20.13	20.13	8.05	8.06	8.06	34.35	34.36	34.36	92.9	92.6	92.8	6.88	6.86	6.87	1.81	1.80	1.81
	9:49		Middle	5.5	20.11	20.12	20.12	8.03	8.03	8.03	34.37	34.36	34.37	89.8	89.7	89.8	6.65	6.64	6.65	1.65	1.63	1.64
	9:51		Bottom	10.0	20.14	20.14	20.14	8.07	8.06	8.07	34.38	34.37	34.38	89.6	89.7	89.7	6.63	6.64	6.64	1.94	1.92	1.93
26/12/2023	12:41	Cloudy	Surface	1.0	17.66	17.65	17.66	8.18	8.19	8.19	33.34	33.35	33.35	109.0	109.1	109.1	8.51	8.51	8.51	1.33	1.30	1.32
	12:43		Middle	5.5	18.83	18.82	18.83	8.08	8.08	8.08	34.52	34.53	34.53	95.2	95.4	95.3	7.22	7.23	7.23	1.46	1.45	1.46
	12:45		Bottom	10.0	18.86	18.87	18.87	8.06	8.06	8.06	34.81	34.80	34.81	90.2	90.1	90.2	6.83	6.80	6.82	1.88	1.87	1.88
28/12/2023	10:35	Fine	Surface	1.0	18.92	18.92	18.92	8.17	8.14	8.16	34.11	34.12	34.12	109.3	108.7	109.0	8.29	8.27	8.28	1.26	1.24	1.25
	10:37		Middle	5.5	18.78	18.77	18.78	8.11	8.12	8.12	35.02	35.04	35.03	96.1	96.4	96.3	7.26	7.29	7.28	2.47	2.49	2.48
	10:39		Bottom	10.0	18.64	18.66	18.65	8.10	8.07	8.09	35.14	35.17	35.16	95.5	95.2	95.4	7.23	7.21	7.22	2.99	3.02	3.01
30/12/2023	16:01	Fine	Surface	1.0	19.02	19.04	19.03	8.18	8.19	8.19	34.50	34.48	34.49	105.6	105.8	105.7	7.97	8.01	7.99	1.33	1.37	1.35
	16:03		Middle	5.4	18.93	18.96	18.95	8.14	8.11	8.13	34.80	34.77	34.79	98.7	98.8	98.8	7.41	7.43	7.42	1.61	1.64	1.63
	16:05		Bottom	9.7	18.87	18.82	18.85	8.10	8.07	8.09	34.95	34.98	34.97	96.2	96.0	96.1	7.22	7.18	7.20	1.67	1.68	1.68
2/1/2024	8:23	Fine	Surface	1.0	19.56	19.56	19.56	8.03	8.03	8.03	34.61	34.61	34.61	107.4	107.6	107.5	8.03	8.05	8.04	1.25	1.27	1.26
	8:25		Middle	5.4	19.54	19.54	19.54	8.23	8.23	8.23	34.61	34.61	34.61	107.7	107.9	107.8	8.06	8.08	8.07	1.28	1.30	1.29
	8:27		Bottom	9.8	19.52	19.52	19.52	8.24	8.24	8.24	34.61	34.61	34.61	107.1	107.3	107.2	8.01	8.03	8.02	1.30	1.33	1.32
4/1/2024	17:21	Fine	Surface	1.0	19.55	19.55	19.55	8.21	8.21	8.21	34.01	34.01	34.01	109.0	108.8	108.9	8.18	8.16	8.17	1.34	1.36	1.35
	17:23		Middle	5.5	19.45	19.45	19.45	8.19	8.19	8.19	34.26	34.28	34.27	104.5	104.7	104.6	7.84	7.86	7.85	1.44	1.45	1.45
	17:25		Bottom	10.0	19.49	19.49	19.49	8.19	8.19	8.19	34.31	34.31	34.31	103.0	102.8	102.9	7.72	7.70	7.71	1.50	1.51	1.51
6/1/2024	9:53	Fine	Surface	1.0	19.95	19.98	19.97	8.21	8.18	8.20	33.92	33.95	33.94	110.7	110.5	110.6	8.25	8.23	8.24	1.16	1.14	1.15
	9:55		Middle	5.5	19.10	19.08	19.09	8.14	8.16	8.15	34.91	34.87	34.89	94.6	95.0	94.8	7.14	7.19	7.17	1.96	1.95	1.96
	9:57		Bottom	10.0	18.95	19.02	18.99	8.02	8.04	8.03	35.14	35.18	35.16	91.8	92.0	91.9	6.91	6.93	6.92	1.52	1.47	1.50
8/1/2024	10:25	Fine	Surface	1.0	19.74	19.74	19.74	8.20	8.20	8.20	34.58	34.58	34.58	105.1	104.9	105.0	7.83	7.81	7.82	0.94	0.96	0.95
	10:27		Middle	5.4	19.61	19.61	19.61	8.22	8.22	8.22	34.61	34.61	34.61	104.0	103.8	103.9	7.77	7.75	7.76	1.08	1.10	1.09
	10:29		Bottom	9.8	19.55	19.55	19.55	8.19	8.19	8.19	34.66	34.66	34.66	98.6	98.4	98.5	7.38	7.36	7.37	1.13	1.14	1.14
10/1/2024	12:04	Fine	Surface	1.0	19.90	19.90	19.90	8.20	8.20	8.20	34.69	34.69	34.69	103.8	103.6	103.7	7.71	7.69	7.70	1.34	1.36	1.35
	12:06		Middle	5.5	19.84	19.84	19.84	8.21	8.21	8.21	34.71	34.71	34.71	103.0	103.2	103.1	7.65	7.67	7.66	1.54	1.55	1.55
	12:08		Bottom	10.0	19.76	19.76	19.76	8.20	8.20	8.20	34.70	34.70	34.70	101.2	101.0	101.1	7.53	7.51	7.52	1.62	1.60	1.61
12/1/2024	15:00	Fine	Surface	1.0	20.58	20.52	20.55	8.23	8.25	8.24	33.80	33.78	33.79	114.7	114.4	114.6	8.45	8.41	8.43	1.53	1.50	1.52
	15:02		Middle	5.5	20.18	20.16	20.17	8.21	8.19	8.20	34.49	34.51	34.50	107.3	107.1	107.2	7.93	7.90	7.92	1.41	1.39	1.40
	15:04		Bottom	10.0	19.82	19.78	19.80	8.20	8.22	8.21	34.82	34.84	34.83	101.4	101.3	101.4	7.53	7.51	7.52	1.47	1.44	1.46
15/1/2024	17:33	Fine	Surface	1.0	20.77	20.78	20.78	8.29	8.30	8.30	33.30	33.28	33.29	119.1	118.9	119.0	8.76	8.74	8.75	1.46	1.45	1.46
	17:35		Middle	5.4	20.18	20.17	20.18	8.24	8.21	8.23	34.63	34.65	34.64	108.4	108.1	108.3	7.99	7.96	7.98	1.34	1.32	1.33
	17:37		Bottom	9.8	20.01	20.02	20.02	8.11	8.18	8.15	34.66	34.65	34.66	107.3	107.5	107.4	7.80	7.82	7.81	1.37	1.38	1.38
17/1/2024	19:30	Cloudy	Surface	1.0	20.28	20.29	20.29	8.26	8.24	8.25	34.50	34.48	34.49	107.6	107.8	107.7	7.94	7.96	7.95	2.11	2.09	2.10
	19:32		Middle	5.5	20.14	20.10	20.12	8.23	8.21	8.22	34.76	34.79	34.78	102.6	102.3	102.5	7.57	7.55	7.56	2.26	2.28	2.27
	19:34		Bottom	9.9	19.89	19.86	19.88	8.16	8.14	8.15	34.86	34.88	34.87	90.2	90.6	90.4	6.68	6.72	6.70	2.74	2.67	2.71
19/1/2024	9:36	Fine	Surface	1.0	20.34	20.35	20.35	8.27	8.29	8.28	34.40	34.37	34.39	109.4	109.6	109.5	8.07	8.09	8.08	1.59	1.61	1.60
	9:38		Middle	5.4	19.99	20.02	20.01	8.17	8.16	8.17	34.87	34.85	34.86	95.0	94.9	95.0	7.02	7.01	7.02	1.75	1.73	1.74
	9:40		Bottom	9.8	19.67	19.69	19.68	8.18	8.16	8.17	35.08	35.10	35.09	90.7	90.4	90.6	6.74	6.72	6.73	2.14	2.16	2.15

Water Monitoring Result at CR1 - Corals at Tai Po Industrial Estate
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	5:37	Cloudy	Surface	1.0	24.20	24.20	24.20	8.54	8.54	8.54	31.39	31.39	31.39	112.6	112.8	112.7	7.89	7.91	7.90	1.38	1.40	1.39
			Middle																			
	5:41		Bottom	4.2	24.20	24.20	24.20	8.62	8.62	8.62	31.39	31.39	31.39	113.1	112.9	113.0	7.93	7.91	7.92	1.11	1.10	1.11
30/11/2023	7:25	Cloudy	Surface	1.0	24.17	24.17	24.17	8.74	8.74	8.74	31.58	31.58	31.58	111.3	111.5	111.4	7.81	7.83	7.82	0.94	0.95	0.95
			Middle																			
	7:29		Bottom	4.3	24.11	24.11	24.11	8.53	8.53	8.53	32.27	32.27	32.27	61.1	61.2	61.2	4.29	4.30	4.30	1.08	1.10	1.09
1/12/2023	8:26	Fine	Surface	1.0	23.97	23.97	23.97	8.71	8.71	8.71	31.26	31.26	31.26	115.7	115.9	115.8	8.14	8.16	8.15	1.38	1.40	1.39
			Middle																			
	8:30		Bottom	4.2	24.08	24.08	24.08	8.72	8.72	8.72	32.05	32.05	32.05	89.6	89.8	89.7	6.26	6.28	6.27	0.71	0.73	0.72
4/12/2023	7:30	Fine	Surface	1.0	23.62	23.62	23.62	8.71	8.70	8.71	31.18	31.20	31.19	106.3	106.1	106.2	7.53	7.50	7.52	1.31	1.33	1.32
			Middle																			
	7:34		Bottom	4.3	23.92	23.93	23.93	8.30	8.28	8.29	32.38	32.34	32.36	40.7	40.9	40.8	2.85	2.88	2.87	1.08	1.09	1.09
6/12/2023	12:53	Cloudy	Surface	1.0	23.81	23.81	23.81	8.95	8.95	8.95	31.83	31.83	31.83	108.4	108.6	108.5	7.64	7.66	7.65	1.23	1.25	1.24
			Middle																			
	12:57		Bottom	4.2	23.89	23.88	23.89	8.60	8.60	8.60	32.48	32.48	32.48	46.0	46.3	46.2	3.20	3.23	3.22	1.14	1.00	1.07
8/12/2023	13:54	Fine	Surface	1.0	22.92	22.92	22.92	8.85	8.85	8.85	32.03	32.03	32.03	97.4	97.6	97.5	6.95	6.97	6.96	0.72	0.75	0.74
			Middle																			
	13:58		Bottom	4.2	22.95	22.95	22.95	8.86	8.86	8.86	32.08	32.08	32.08	82.8	83.0	82.9	5.88	5.90	5.89	1.63	1.66	1.65
11/12/2023	5:53	Cloudy	Surface	1.0	23.94	23.94	23.94	8.47	8.47	8.47	31.85	31.85	31.85	120.9	121.0	121.0	8.50	8.51	8.51	0.66	0.69	0.68
			Middle																			
	5:57		Bottom	4.2	23.59	23.59	23.59	9.04	9.04	9.04	31.98	31.98	31.98	118.6	118.8	118.7	8.36	8.38	8.37	0.51	0.54	0.53
13/12/2023	5:53	Cloudy	Surface	1.0	24.56	24.56	24.56	8.37	8.37	8.37	31.79	31.78	31.79	117.6	117.4	117.5	8.17	8.15	8.16	0.69	0.70	0.70
			Middle																			
	5:57		Bottom	4.2	24.51	24.51	24.51	8.36	8.36	8.36	31.92	31.92	31.92	115.6	115.4	115.5	8.03	8.01	8.02	0.95	0.94	0.95
15/12/2023	7:34	Fine	Surface	1.0	24.27	24.28	24.28	8.22	8.23	8.23	31.09	31.08	31.09	119.8	119.7	119.8	8.40	8.39	8.40	0.64	0.62	0.63
			Middle																			
	7:38		Bottom	4.2	23.68	23.69	23.69	8.04	8.03	8.04	31.92	31.93	31.93	69.1	69.2	69.2	4.85	4.86	4.86	1.25	1.26	1.26
18/12/2023	9:53	Cloudy	Surface	1.0	22.72	22.72	22.72	8.05	8.05	8.05	32.73	32.73	32.73	67.0	67.2	67.1	4.78	4.80	4.79	0.49	0.50	0.50
			Middle																			
	9:57		Bottom	4.2	22.89	22.89	22.89	8.05	8.05	8.05	32.84	32.84	32.84	66.8	66.6	66.7	4.75	4.73	4.74	0.67	0.68	0.68
20/12/2023	13:12	Cloudy	Surface	1.0	21.40	21.41	21.41	8.16	8.14	8.15	34.30	34.33	34.32	86.2	86.0	86.1	6.22	6.20	6.21	1.56	1.59	1.58
			Middle																			
	13:16		Bottom	4.3	21.38	21.37	21.38	8.07	8.08	8.08	34.27	34.25	34.26	86.7	86.5	86.6	6.28	6.28	6.28	1.44	1.45	1.45
22/12/2023	13:32	Cloudy	Surface	1.0	19.54	19.53	19.54	8.06	8.07	8.07	34.11	34.11	34.11	93.0	93.3	93.2	6.97	6.98	6.98	2.58	2.57	2.58
			Middle																			
	13:36		Bottom	4.2	19.56	19.55	19.56	8.06	8.06	8.06	34.10	34.10	34.10	91.4	91.2	91.3	6.85	6.84	6.85	2.41	2.40	2.41
26/12/2023	5:34	Cloudy	Surface	1.0	18.18	18.19	18.19	8.11	8.12	8.12	34.09	34.09	34.09	104.4	104.1	104.3	8.03	8.00	8.02	1.81	1.82	1.82
			Middle																			
	5:38		Bottom	4.2	18.25	18.25	18.25	8.08	8.07	8.08	34.08	34.09	34.09	100.1	99.5	99.8	7.69	7.64	7.67	2.31	2.30	2.31
28/12/2023	12:49	Fine	Surface	1.0	18.96	18.95	18.96	8.14	8.15	8.15	34.07	34.04	34.06	109.6	109.9	109.8	8.31	8.34	8.33	1.47	1.44	1.46
			Middle																			
	12:53		Bottom	4.3	19.06	19.06	19.06	7.97	7.98	7.98	34.55	34.52	34.54	74.7	75.0	74.9	5.63	5.66	5.65	3.14	3.16	3.15
30/12/2023	9:25	Fine	Surface	1.0	19.67	19.69	19.68	8.16	8.15	8.16	33.85	33.84	33.85	116.7	116.8	116.8	8.75	8.76	8.76	1.12	1.14	1.13
			Middle																			
	9:29		Bottom	4.3	19.17	19.15	19.16	8.10	8.14	8.12	34.65	34.68	34.67	90.6	90.8	90.7	6.82	6.86	6.84	1.80	1.82	1.81
2/1/2024	13:37	Fine	Surface	1.0	20.41	20.41	20.41	8.24	8.24	8.24	33.65	33.65	33.65	109.1	109.3	109.2	8.07	8.10	8.09	1.88	1.90	1.89
			Middle																			
	13:41		Bottom	4.4	20.42	20.42	20.42	8.23	8.23	8.23	33.65	33.65	33.65	108.9	109.1	109.0	8.06	8.09	8.08	2.00	2.01	2.01
4/1/2024	11:23	Fine	Surface	1.0	19.59	19.59	19.59	8.21	8.21	8.21	34.04	34.04	34.04	105.3	105.5	105.4	7.89	7.90	7.90	1.41	1.43	1.42
			Middle																			
	11:27		Bottom	4.2	19.90	19.90	19.90	8.17	8.17	8.17	34.40	34.40	34.40	105.1	105.3	105.2	7.82	7.84	7.83	1.98	2.00	1.99
6/1/2024	14:05	Fine	Surface	1.0	20.30	20.33	20.32	8.14	8.11	8.13	33.86	33.84	33.85	113.5	113.3	113.4	8.40	8.38	8.39	1.39	1.37	1.38
			Middle																			
	14:09		Bottom	4.3	19.34	19.37	19.36	8.02	8.06	8.04	34.92	34.98	34.95	77.4	77.1	77.3	5.82	5.80	5.81	2.79	2.76	2.78
8/1/2024	13:42	Fine	Surface	1.0	20.59	20.59	20.59	8.19	8.19	8.19	33.75	33.75	33.75	107.3	107.1	107.2	7.92	7.90	7.91	1.69	1.71	1.70
			Middle																			
	13:46		Bottom	4.2	20.20	20.20	20.20	8.23	8.23	8.23	33.98	33.98	33.98	106.3	106.3	106.3	7.88	7.90	7.89	1.51	1.53	1.52
10/1/2024	14:28	Fine	Surface	1.0	20.65	20.65	20.65	8.24	8.24	8.24	34.04	34.04	34.04	114.5	114.3	114.4	8.40	8.38	8.39	1.60	1.62	1.61
			Middle																			
	14:32		Bottom	4.2	20.12	20.12	20.12	8.18	8.18	8.18	34.36	34.36	34.36	106.1	106.3	106.2	7.84	7.86	7.85	1.51	1.53	1.52
12/1/2024	18:46	Fine	Surface	1.0	20.74	20.76	20.75	8.19	8.20	8.20	33.60	33.62	33.61	114.6	113.9	114.3	8.43	8.34	8.39	1.53	1.51	1.52
			Middle																			
	18:50		Bottom	4.4	19.64	19.61	19.63	8.02	8.05	8.04	34.87	34.83	34.85	73.2	73.0	73.1	5.45	5.42	5.44	5.96	5.94	5.95
15/1/2024	10:00	Fine	Surface	1.0	20.72	20.74	20.73	8.11	8.13	8.12	33.88	33.84	33.86	117.3	117.1	117.2	8.60	8.58	8.59	1.96	1.98	1.97
			Middle																			
	10:04		Bottom	4.3	19.73	19.74	19.74	8.07	8.05	8.06	34.86	34.85	34.86	85.6	85.4	85.5	6.36	6.32	6.34	2.43	2.46	2.45
17/1/2024	11:31	Cloudy	Surface	1.0	20.52	20.53	20.53	8.20	8.19	8.20	34.13	34.09	34.11	111.7	111.9	111.8	8.23	8.25	8.24	1.84	1.86	1.85
			Middle																			
	11:35		Bottom	4.2	20.01	19.99	20.00	8.18	8.16	8.17	34.69	34.67	34.68	98.3	98.6	98.5	7.28	7.33	7.31	1.87	1.88	1.88
19/1/2024	13:07	Fine	Surface	1.0	20.89	20.87	20.88	8.27	8.26	8.27	34.35	34.33	34.34	111.1	111.4	111.3	8.12	8.15	8.14	1.44	1.43	1.44
			Middle																			
	13:11		Bottom	4.4	20.23	20.21	20.22	8.02	8.05	8.04	34.67	34.65	34.66	67.3	67.2	67.3	4.97	4.96	4.97	3.22	3.24	3.23

Water Monitoring Result at CR1 - Corals at Tai Po Industrial Estate
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	11:36	Cloudy	Surface	1.0	24.20	24.20	24.20	8.55	8.55	8.55	31.40	31.40	31.40	113.1	113.4	113.3	7.93	7.96	7.95	1.41	1.40	1.41
			Middle																			
	11:40		Bottom	4.0	24.20	24.20	24.20	8.65	8.65	8.65	31.40	31.40	31.40	113.9	113.7	113.8	8.01	7.99	8.00	1.11	1.10	1.11
30/11/2023	13:43	Cloudy	Surface	1.0	24.17	24.17	24.17	8.75	8.75	8.75	31.60	31.60	31.60	111.8	112.0	111.9	7.86	7.88	7.87	0.91	0.93	0.92
			Middle																			
	13:47		Bottom	4.1	24.11	24.11	24.11	8.53	8.53	8.53	32.30	32.30	32.30	60.8	61.0	60.9	4.27	4.30	4.29	1.12	1.15	1.14
1/12/2023	16:00	Fine	Surface	1.0	23.97	23.97	23.97	8.71	8.71	8.71	31.26	31.26	31.26	115.9	116.3	116.1	8.16	8.20	8.18	1.40	1.41	1.41
			Middle																			
	16:04		Bottom	4.0	24.08	24.08	24.08	8.72	8.72	8.72	32.05	32.05	32.05	89.4	89.6	89.5	6.24	6.26	6.25	0.76	0.78	0.77
4/12/2023	15:51	Fine	Surface	1.0	23.58	23.55	23.57	8.73	8.76	8.75	31.21	31.25	31.23	106.2	106.4	106.3	7.53	7.56	7.55	1.30	1.33	1.32
			Middle																			
	15:55		Bottom	4.1	23.88	23.91	23.90	8.31	8.34	8.33	32.38	32.40	32.39	45.0	44.1	44.6	3.21	3.11	3.16	1.06	1.08	1.07
6/12/2023	6:21	Cloudy	Surface	1.0	23.81	23.81	23.81	8.99	8.99	8.99	31.85	31.85	31.85	107.9	107.6	107.8	7.58	7.55	7.57	1.19	1.20	1.20
			Middle																			
	6:25		Bottom	4.0	23.88	23.88	23.88	8.58	8.58	8.58	32.46	32.46	32.46	45.5	45.8	45.7	3.15	3.18	3.17	1.11	1.14	1.13
8/12/2023	7:23	Fine	Surface	1.0	22.91	22.91	22.91	8.97	8.97	8.97	32.02	32.02	32.02	98.2	98.4	98.3	7.03	7.05	7.04	0.74	0.75	0.75
			Middle																			
	7:27		Bottom	4.0	23.09	23.09	23.09	8.85	8.85	8.85	32.27	32.27	32.27	84.7	84.9	84.8	6.00	6.02	6.01	1.31	1.34	1.33
11/12/2023	11:48	Cloudy	Surface	1.0	23.70	23.70	23.70	9.07	9.07	9.07	31.88	31.88	31.88	119.2	119.4	119.3	8.40	8.42	8.41	0.65	0.65	0.65
			Middle																			
	11:52		Bottom	4.0	23.58	23.58	23.58	9.05	9.05	9.05	31.98	31.98	31.98	116.8	116.6	116.7	8.25	8.23	8.24	0.52	0.54	0.53
13/12/2023	10:42	Cloudy	Surface	1.0	24.57	24.57	24.57	8.37	8.37	8.37	31.78	31.78	31.78	117.5	117.3	117.4	8.16	8.14	8.15	0.61	0.62	0.62
			Middle																			
	10:46		Bottom	4.0	24.51	24.51	24.51	8.37	8.37	8.37	31.87	31.87	31.87	116.5	116.3	116.4	8.10	8.07	8.09	0.84	0.85	0.85
15/12/2023	12:41	Fine	Surface	1.0	24.13	24.12	24.13	8.28	8.29	8.29	31.24	31.25	31.25	113.4	113.5	113.5	7.96	7.98	7.97	0.47	0.42	0.45
			Middle																			
	12:45		Bottom	4.2	23.67	23.68	23.68	8.02	8.03	8.03	31.97	31.98	31.98	56.9	56.8	56.9	4.00	4.00	4.00	1.55	1.58	1.57
18/12/2023	14:07	Cloudy	Surface	1.0	22.56	22.51	22.54	8.06	8.06	8.06	32.68	32.68	32.68	71.0	71.2	71.1	5.08	5.10	5.09	0.44	0.45	0.45
			Middle																			
	14:11		Bottom	4.0	22.60	22.60	22.60	8.05	8.05	8.05	32.68	32.68	32.68	69.6	69.7	69.7	4.88	4.99	4.94	0.65	0.67	0.66
20/12/2023	7:11	Cloudy	Surface	1.0	21.29	21.29	21.29	8.08	8.09	8.09	34.26	34.28	34.27	87.1	86.7	86.9	6.31	6.26	6.29	1.38	1.42	1.40
			Middle																			
	7:15		Bottom	4.2	21.32	21.32	21.32	8.07	8.05	8.06	34.26	34.27	34.27	85.9	85.7	85.8	6.21	6.19	6.20	1.46	1.50	1.48
22/12/2023	7:06	Cloudy	Surface	1.0	19.57	19.58	19.58	8.10	8.10	8.10	34.10	34.11	34.11	94.3	94.0	94.2	7.06	7.05	7.06	2.37	2.30	2.34
			Middle																			
	7:10		Bottom	4.2	19.55	19.54	19.55	8.06	8.06	8.06	34.10	34.10	34.10	91.9	91.8	91.9	6.89	6.88	6.89	2.23	2.24	2.24
26/12/2023	10:33	Cloudy	Surface	1.0	18.25	18.26	18.26	8.08	8.07	8.08	34.07	34.08	34.08	103.4	103.6	103.5	7.95	7.95	7.95	1.81	1.82	1.82
			Middle																			
	10:37		Bottom	4.0	18.31	18.30	18.31	8.04	8.05	8.05	34.14	34.14	34.14	92.7	92.9	92.8	7.11	7.12	7.12	2.55	2.57	2.56
28/12/2023	8:38	Fine	Surface	1.0	18.86	18.87	18.87	8.13	8.16	8.15	34.02	34.03	34.03	106.9	106.7	106.8	8.26	8.24	8.25	1.46	1.48	1.47
			Middle																			
	8:42		Bottom	4.1	19.03	19.03	19.03	8.00	8.04	8.02	34.52	34.54	34.53	81.4	80.3	80.9	6.20	6.14	6.17	3.14	3.09	3.12
30/12/2023	14:05	Fine	Surface	1.0	19.72	19.74	19.73	8.20	8.18	8.19	33.87	33.86	33.87	117.0	116.8	116.9	8.90	8.88	8.89	1.18	1.16	1.17
			Middle																			
	14:09		Bottom	4.2	19.15	19.16	19.16	8.10	8.08	8.09	34.33	34.31	34.32	98.5	98.8	98.7	7.40	7.49	7.45	1.84	1.87	1.86
2/1/2024	6:23	Fine	Surface	1.0	20.44	20.44	20.44	8.21	8.21	8.21	33.64	33.64	33.64	108.6	108.4	108.5	8.03	8.01	8.02	1.85	1.87	1.86
			Middle																			
	6:27		Bottom	4.1	20.42	20.42	20.42	8.22	8.22	8.22	33.66	33.66	33.66	108.8	108.6	108.7	8.06	8.04	8.05	1.94	1.92	1.93
4/1/2024	17:23	Fine	Surface	1.0	19.73	19.73	19.73	8.18	8.18	8.18	34.00	34.00	34.00	106.2	106.5	106.4	7.94	7.96	7.95	1.59	1.60	1.60
			Middle																			
	17:27		Bottom	4.1	19.96	19.96	19.96	8.16	8.16	8.16	34.35	34.35	34.35	106.6	106.8	106.7	7.94	7.96	7.95	1.84	1.85	1.85
6/1/2024	7:58	Fine	Surface	1.0	20.33	20.35	20.34	8.11	8.13	8.12	33.83	33.82	33.83	113.7	113.4	113.6	8.41	8.37	8.39	1.50	1.54	1.52
			Middle																			
	8:02		Bottom	4.3	19.44	19.47	19.46	8.01	8.02	8.02	34.79	34.76	34.78	89.6	90.1	89.9	6.71	6.77	6.74	2.24	2.27	2.26
8/1/2024	8:38	Fine	Surface	1.0	20.59	20.59	20.59	8.13	8.13	8.13	33.74	33.74	33.74	106.8	106.6	106.7	7.88	7.86	7.87	1.59	1.60	1.60
			Middle																			
	8:42		Bottom	4.0	20.77	20.77	20.77	8.23	8.23	8.23	33.94	33.94	33.94	107.1	107.3	107.2	7.94	7.96	7.95	1.75	1.77	1.76
10/1/2024	10:08	Fine	Surface	1.0	21.22	21.22	21.22	8.22	8.22	8.22	33.41	33.41	33.41	115.3	115.1	115.2	8.37	8.35	8.36	1.45	1.47	1.46
			Middle																			
	10:12		Bottom	4.2	20.19	20.19	20.19	8.19	8.19	8.19	34.36	34.36	34.36	104.9	104.6	104.8	7.75	7.73	7.74	1.55	1.57	1.56
12/1/2024	13:04	Fine	Surface	1.0	20.68	20.69	20.69	8.10	8.09	8.10	33.65	33.60	33.63	114.5	114.3	114.4	8.43	8.41	8.42	1.57	1.59	1.58
			Middle																			
	13:08		Bottom	4.3	19.91	19.94	19.93	8.12	8.14	8.13	34.78	34.81	34.80	91.0	91.1	91.1	6.74	6.76	6.75	1.68	1.72	1.70
15/1/2024	15:35	Fine	Surface	1.0	20.69	20.67	20.68	8.16	8.17	8.17	33.95	33.96	33.96	115.9	116.1	116.0	8.50	8.52	8.51	1.88	1.90	1.89
			Middle																			
	15:39		Bottom	4.1	19.79	19.82	19.81	8.05	8.04	8.05	34.88	34.86	34.87	84.5	84.7	84.6	6.28	6.30	6.29	2.29	2.27	2.28
17/1/2024	17:33	Cloudy	Surface	1.0	20.54	20.56	20.55	8.26	8.24	8.25	34.07	34.06	34.07	112.5	112.7	112.6	8.30	8.34	8.32	1.83	1.85	1.84
			Middle																			
	17:37		Bottom	4.2	20.09	20.11	20.10	8.19	8.18	8.19	34.68	34.66	34.67	96.8	96.6	96.7	7.17	7.15	7.16	1.86	1.88	1.87
19/1/2024	7:40	Fine	Surface	1.0	20.94	20.95	20.95	8.26	8.24	8.25	34.34	34.32	34.33	113.1	113.3	113.2	8.26	8.28	8.27	1.48	1.50	1.49
			Middle																			
	7:44		Bottom	4.2	20.23	20.25	20.24	8.09	8.10	8.10	34.69	34.67	34.68	69.7	69.5	69.6	5.14	5.12	5.13	3.19	3.17	3.18

Water Monitoring Result at CR15 - Corals at Science Park
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	5:58	Cloudy	Surface	1.0	24.01	24.01	24.01	8.66	8.66	8.66	31.49	31.49	31.49	114.8	114.6	114.7	8.07	8.05	8.06	1.09	1.10	1.10
			Middle																			
	6:02		Bottom	4.9	24.45	24.45	24.45	8.16	8.16	8.16	32.29	32.29	32.29	104.8	104.7	104.8	7.30	7.29	7.30	1.00	1.04	1.02
30/11/2023	7:45	Cloudy	Surface	1.0	24.08	24.08	24.08	8.70	8.70	8.70	31.18	31.18	31.18	111.6	112.0	111.8	8.27	8.31	8.29	1.18	1.20	1.19
			Middle																			
	7:49		Bottom	3.5	24.30	24.30	24.30	8.18	8.18	8.18	32.46	32.46	32.46	70.9	71.2	71.1	4.96	4.99	4.98	0.82	0.80	0.81
1/12/2023	8:46	Fine	Surface	1.0	23.73	23.73	23.73	8.71	8.71	8.71	31.13	31.13	31.13	113.3	113.5	113.4	8.01	8.03	8.02	1.03	1.05	1.04
			Middle																			
	8:50		Bottom	4.9	24.19	24.19	24.19	8.62	8.62	8.62	31.66	31.66	31.66	95.2	95.4	95.3	6.67	6.69	6.68	1.13	1.10	1.12
4/12/2023	7:53	Fine	Surface	1.0	23.24	23.25	23.25	8.77	8.74	8.76	31.35	31.32	31.34	105.6	105.7	105.7	7.50	7.52	7.51	1.62	1.64	1.63
			Middle																			
	7:57		Bottom	4.9	23.19	23.20	23.20	8.68	8.66	8.67	31.63	31.64	31.64	118.7	118.9	118.8	8.46	8.49	8.48	0.71	0.74	0.73
6/12/2023	13:13	Cloudy	Surface	1.0	23.64	23.64	23.64	8.73	8.73	8.73	31.88	31.88	31.88	91.5	91.8	91.7	6.48	6.51	6.50	0.95	0.97	0.96
			Middle																			
	13:17		Bottom	4.8	23.63	23.63	23.63	8.60	8.60	8.60	32.47	32.47	32.47	61.5	61.7	61.6	4.32	4.34	4.33	0.80	0.82	0.81
8/12/2023	14:13	Fine	Surface	1.0	22.66	22.66	22.66	8.90	8.90	8.90	31.85	31.85	31.85	112.7	113.0	112.9	8.09	8.12	8.11	0.55	0.57	0.56
			Middle																			
	14:17		Bottom	4.9	22.60	22.60	22.60	8.90	8.90	8.90	31.85	31.85	31.85	108.5	108.9	108.7	7.80	7.84	7.82	0.69	0.72	0.71
11/12/2023	6:12	Cloudy	Surface	1.0	23.74	23.74	23.74	8.96	8.96	8.96	31.94	31.94	31.94	122.8	122.6	122.7	8.64	8.62	8.63	0.58	0.60	0.59
			Middle																			
	6:16		Bottom	4.9	23.52	23.52	23.52	9.00	9.00	9.00	32.04	32.04	32.04	111.2	111.0	111.1	7.86	7.84	7.85	0.66	0.68	0.67
13/12/2023	6:13	Cloudy	Surface	1.0	24.20	24.20	24.20	8.34	8.34	8.34	32.15	32.15	32.15	113.1	113.3	113.2	7.89	7.91	7.90	0.67	0.68	0.68
			Middle																			
	6:17		Bottom	4.9	24.12	24.12	24.12	8.30	8.30	8.30	32.32	32.32	32.32	103.6	103.4	103.5	7.24	7.22	7.23	0.84	0.85	0.85
15/12/2023	8:21	Fine	Surface	1.0	24.14	24.13	24.14	8.29	8.30	8.30	30.98	30.99	30.99	126.3	126.4	126.4	8.88	8.89	8.89	0.35	0.36	0.36
			Middle																			
	8:25		Bottom	4.9	23.59	23.60	23.60	7.93	7.94	7.94	32.05	32.04	32.05	57.2	56.8	57.0	4.03	3.99	4.01	0.79	0.82	0.81
18/12/2023	10:13	Cloudy	Surface	1.0	22.70	22.70	22.70	8.24	8.24	8.24	32.44	32.44	32.44	90.1	90.3	90.2	6.49	6.51	6.50	0.42	0.43	0.43
			Middle																			
	10:17		Bottom	4.9	22.37	22.37	22.37	8.21	8.21	8.21	32.51	32.51	32.51	84.3	84.5	84.4	6.06	6.09	6.08	0.58	0.60	0.59
20/12/2023	13:32	Cloudy	Surface	1.0	21.14	21.12	21.13	8.13	8.12	8.13	33.90	33.94	33.92	86.9	86.6	86.8	6.34	6.30	6.32	1.63	1.67	1.65
			Middle																			
	13:36		Bottom	4.8	21.13	21.16	21.15	8.15	8.17	8.16	33.91	33.88	33.90	86.5	86.3	86.4	6.28	6.25	6.27	1.77	1.79	1.78
22/12/2023	13:59	Cloudy	Surface	1.0	19.20	19.21	19.21	8.08	8.08	8.08	33.98	33.99	33.99	92.3	92.4	92.4	6.97	6.97	6.97	1.67	1.66	1.67
			Middle																			
	14:03		Bottom	4.9	19.22	19.23	19.23	8.06	8.06	8.06	33.98	33.98	33.98	92.0	91.8	91.9	6.94	6.93	6.94	1.86	1.88	1.87
26/12/2023	5:56	Cloudy	Surface	1.0	17.78	17.78	17.78	8.18	8.17	8.18	33.91	33.92	33.92	107.8	107.9	107.9	8.37	8.37	8.37	1.90	1.89	1.90
			Middle																			
	6:00		Bottom	4.9	17.90	17.90	17.90	8.13	8.14	8.14	33.97	33.97	33.97	108.3	108.0	108.2	8.38	8.36	8.37	1.88	1.82	1.85
28/12/2023	13:10	Fine	Surface	1.0	18.36	18.35	18.36	8.16	8.14	8.15	33.37	33.32	33.35	113.1	113.4	113.3	8.70	8.73	8.72	1.41	1.40	1.41
			Middle																			
	13:14		Bottom	4.8	18.36	18.37	18.37	8.17	8.20	8.19	34.08	34.10	34.09	107.6	107.1	107.4	8.25	8.21	8.23	1.69	1.67	1.68
30/12/2023	9:45	Fine	Surface	1.0	19.58	19.57	19.58	8.21	8.22	8.22	33.64	33.62	33.63	117.4	117.2	117.3	8.82	8.81	8.82	1.33	1.35	1.34
			Middle																			
	9:49		Bottom	4.9	19.25	19.23	19.24	8.10	8.07	8.09	34.51	34.54	34.53	91.4	90.9	91.2	6.86	6.79	6.83	2.17	2.11	2.14
2/1/2024	13:57	Fine	Surface	1.0	19.79	19.79	19.79	8.22	8.22	8.22	34.19	34.19	34.19	108.5	108.7	108.6	8.10	8.12	8.11	1.13	1.15	1.14
			Middle																			
	14:01		Bottom	4.8	19.81	19.81	19.81	8.24	8.24	8.24	34.17	34.17	34.17	109.0	109.2	109.1	8.13	8.15	8.14	1.17	1.20	1.19
4/1/2024	11:43	Fine	Surface	1.0	19.41	19.41	19.41	8.10	8.10	8.10	33.95	33.95	33.95	108.4	108.6	108.5	8.15	8.17	8.16	1.25	1.28	1.27
			Middle																			
	11:47		Bottom	4.9	19.36	19.36	19.36	8.20	8.20	8.20	33.99	33.99	33.99	107.8	108.0	107.9	8.12	8.14	8.13	1.35	1.37	1.36
6/1/2024	14:27	Fine	Surface	1.0	19.79	19.80	19.80	8.22	8.23	8.23	33.89	33.91	33.90	114.3	114.1	114.2	8.54	8.50	8.52	1.32	1.30	1.31
			Middle																			
	14:31		Bottom	4.9	19.53	19.57	19.55	7.89	7.91	7.90	34.92	34.95	34.94	50.4	50.2	50.3	3.76	3.74	3.75	3.06	3.02	3.04
8/1/2024	14:02	Fine	Surface	1.0	20.24	20.24	20.24	8.18	8.18	8.18	34.24	34.24	34.24	105.7	105.5	105.6	7.85	7.83	7.84	0.99	0.97	0.98
			Middle																			
	14:06		Bottom	4.8	19.89	19.89	19.89	8.22	8.22	8.22	34.28	34.28	34.28	105.9	105.7	105.8	7.88	7.86	7.87	0.95	0.97	0.96
10/1/2024	14:48	Fine	Surface	1.0	20.35	20.35	20.35	8.24	8.24	8.24	34.25	34.25	34.25	108.8	108.6	108.7	8.05	8.03	8.04	1.40	1.42	1.41
			Middle																			
	14:52		Bottom	4.9	20.11	20.11	20.11	8.23	8.23	8.23	34.36	34.36	34.36	106.9	106.7	106.8	7.93	7.91	7.92	1.30	1.32	1.31
12/1/2024	19:07	Fine	Surface	1.0	20.60	20.62	20.61	8.26	8.24	8.25	33.88	33.86	33.87	114.3	114.6	114.5	8.43	8.46	8.45	1.45	1.43	1.44
			Middle																			
	19:11		Bottom	4.8	19.96	19.94	19.95	8.07	8.05	8.06	34.74	34.72	34.73	82.4	82.2	82.3	6.08	6.06	6.07	2.26	2.24	2.25
15/1/2024	10:20	Fine	Surface	1.0	20.87	20.89	20.88	8.24	8.25	8.25	33.41	33.40	33.41	121.2	121.4	121.3	8.91	8.94	8.93	1.96	1.94	1.95
			Middle																			
	10:24		Bottom	4.8	19.96	19.94	19.95	7.93	7.91	7.92	34.88	34.86	34.87	56.2	56.0	56.1	4.16	4.14	4.15	2.85	2.84	2.85
17/1/2024	11:51	Cloudy	Surface	1.0	20.45	20.47	20.46	8.28	8.27	8.28	34.15	34.17	34.16	1092.0	109.0	600.5	8.05	8.04	8.05	1.62	1.65	1.64
			Middle																			
	11:55		Bottom	4.9	20.07	20.08	20.08	8.20	8.18	8.19	34.66	34.68	34.67	99.4	99.6	99.5	7.36	7.39	7.38	1.83	1.85	1.84
19/1/2024	13:27	Fine	Surface	1.0	21.04	21.06	21.05	8.30	8.31	8.31	33.75	33.76	33.76	117.3	117.5	117.4	8.57	8.59	8.58	2.12	2.11	2.12
			Middle																			
	13:31		Bottom	4.9	20.04	20.02	20.03	8.17	8.15	8.16	34.75	34.72	34.74	86.9	86.5	86.7	6.42	6.40	6.41	3.03	3.01	3.02

Water Monitoring Result at CR15 - Corals at Science Park
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	11:57	Cloudy	Surface	1.0	24.01	24.01	24.01	8.68	8.68	8.68	31.51	31.51	31.51	115.0	115.2	115.1	8.09	8.11	8.10	1.11	1.12	1.12
			Middle																			
	12:01		Bottom	4.8	24.45	24.45	24.45	8.16	8.16	8.16	32.29	32.30	32.30	103.9	103.8	103.9	7.21	7.20	7.21	1.00	1.01	1.01
30/11/2023	13:23	Cloudy	Surface	1.0	24.08	24.08	24.08	8.71	8.71	8.71	31.20	31.20	31.20	111.2	111.5	111.4	8.21	8.24	8.23	1.15	1.17	1.16
			Middle																			
	13:27		Bottom	4.8	24.30	24.30	24.30	8.19	8.19	8.19	32.49	32.49	32.49	71.2	71.4	71.3	4.99	5.01	5.00	0.85	0.87	0.86
1/12/2023	15:38	Fine	Surface	1.0	23.75	23.75	23.75	8.76	8.76	8.76	31.15	31.15	31.15	114.2	114.0	114.1	8.10	8.09	8.10	1.00	1.02	1.01
			Middle																			
	15:42		Bottom	4.7	23.87	23.87	23.87	8.76	8.76	8.76	31.64	31.64	31.64	101.3	101.2	101.3	7.13	7.11	7.12	1.21	1.23	1.22
4/12/2023	16:13	Fine	Surface	1.0	23.41	23.40	23.41	8.72	8.74	8.73	31.33	31.35	31.34	111.1	110.9	111.0	7.90	7.87	7.89	1.71	1.73	1.72
			Middle																			
	16:17		Bottom	4.6	23.16	23.17	23.17	8.70	8.71	8.71	31.61	31.64	31.63	118.0	118.2	118.1	8.41	8.42	8.42	0.76	0.79	0.78
6/12/2023	6:41	Cloudy	Surface	1.0	23.65	23.65	23.65	8.74	8.74	8.74	31.86	31.86	31.86	99.4	99.1	99.3	6.73	6.70	6.72	0.91	0.89	0.90
			Middle																			
	6:45		Bottom	4.7	23.61	23.61	23.61	8.58	8.58	8.58	32.48	32.48	32.48	64.8	64.9	64.9	4.55	4.56	4.56	0.78	0.79	0.79
8/12/2023	7:42	Fine	Surface	1.0	22.65	22.65	22.65	8.81	8.81	8.81	31.86	31.86	31.86	112.3	112.5	112.4	8.07	8.09	8.08	0.60	0.62	0.61
			Middle																			
	7:46		Bottom	4.8	22.59	22.59	22.59	8.92	8.92	8.92	31.86	31.86	31.86	111.8	111.6	111.7	8.04	8.02	8.03	0.74	0.75	0.75
11/12/2023	11:28	Cloudy	Surface	1.0	23.70	23.70	23.70	9.03	9.03	9.03	31.97	31.97	31.97	119.4	119.2	119.3	8.41	8.40	8.41	0.48	0.50	0.49
			Middle																			
	11:32		Bottom	4.7	23.35	23.35	23.35	8.98	8.98	8.98	32.07	32.07	32.07	102.6	102.8	102.7	7.26	7.28	7.27	0.81	0.83	0.82
13/12/2023	11:02	Cloudy	Surface	1.0	24.09	24.09	24.09	8.34	8.34	8.34	32.20	32.20	32.20	112.6	112.4	112.5	7.86	7.84	7.85	0.64	0.66	0.65
			Middle																			
	11:06		Bottom	4.5	24.09	24.09	24.09	8.28	8.28	8.28	32.31	32.37	32.34	104.3	104.1	104.2	7.29	7.27	7.28	0.81	0.82	0.82
15/12/2023	13:14	Fine	Surface	1.0	24.29	24.30	24.30	8.37	8.38	8.38	31.10	31.12	31.11	132.7	133.2	133.0	9.31	9.34	9.33	0.28	0.27	0.28
			Middle																			
	13:18		Bottom	4.6	23.64	23.64	23.64	8.05	8.04	8.05	31.95	31.94	31.95	67.7	67.5	67.6	4.77	4.76	4.77	0.22	0.23	0.23
18/12/2023	14:27	Cloudy	Surface	1.0	22.27	22.27	22.27	8.22	8.22	8.22	32.47	32.47	32.47	88.2	88.4	88.3	6.35	6.37	6.36	0.40	0.42	0.41
			Middle																			
	14:31		Bottom	4.7	22.47	22.47	22.47	8.19	8.19	8.19	32.48	32.48	32.48	83.3	83.1	83.2	5.99	5.97	5.98	0.60	0.62	0.61
20/12/2023	7:31	Cloudy	Surface	1.0	21.16	21.18	21.17	8.08	8.07	8.08	33.85	33.84	33.85	91.4	91.0	91.2	6.66	6.61	6.64	1.67	1.71	1.69
			Middle																			
	7:35		Bottom	4.8	21.16	21.15	21.16	8.04	8.02	8.03	33.87	33.88	33.88	88.1	88.3	88.2	6.42	6.45	6.44	1.64	1.62	1.63
22/12/2023	7:40	Cloudy	Surface	1.0	19.23	19.24	19.24	8.14	8.14	8.14	33.93	33.94	33.94	96.6	96.3	96.5	7.28	7.26	7.27	1.68	1.70	1.69
			Middle																			
	7:44		Bottom	4.9	19.23	19.22	19.23	8.03	8.04	8.04	33.94	33.94	33.94	94.2	94.4	94.3	7.12	7.13	7.13	1.64	1.65	1.65
26/12/2023	10:56	Cloudy	Surface	1.0	18.82	18.82	18.82	8.16	8.17	8.17	33.92	33.91	33.92	109.5	109.6	109.6	8.49	8.50	8.50	1.75	1.76	1.76
			Middle																			
	11:00		Bottom	4.8	17.94	17.95	17.95	8.13	8.13	8.13	34.05	34.04	34.05	104.8	104.5	104.7	8.09	8.07	8.08	1.96	1.95	1.96
28/12/2023	8:58	Fine	Surface	1.0	18.33	18.33	18.33	8.18	8.15	8.17	33.55	33.50	33.53	112.0	112.1	112.1	8.64	8.63	8.64	1.38	1.35	1.37
			Middle																			
	9:02		Bottom	4.9	18.34	18.35	18.35	8.13	8.11	8.12	34.01	34.03	34.02	107.8	107.5	107.7	8.26	8.23	8.25	1.72	1.75	1.74
30/12/2023	14:27	Fine	Surface	1.0	19.62	19.60	19.61	8.20	8.22	8.21	33.56	33.58	33.57	110.2	110.4	110.3	8.31	8.35	8.33	1.29	1.27	1.28
			Middle																			
	14:31		Bottom	4.9	19.24	19.26	19.25	8.15	8.13	8.14	34.44	34.41	34.43	104.3	104.1	104.2	7.85	7.83	7.84	1.58	1.54	1.56
2/1/2024	6:43	Fine	Surface	1.0	19.78	19.78	19.78	8.29	8.29	8.29	34.18	34.18	34.18	107.2	107.4	107.3	8.01	8.03	8.02	1.18	1.20	1.19
			Middle																			
	6:47		Bottom	4.7	19.80	19.80	19.80	8.22	8.22	8.22	34.19	34.19	34.19	108.8	108.6	108.7	8.12	8.10	8.11	1.14	1.16	1.15
4/1/2024	17:43	Fine	Surface	1.0	19.41	19.41	19.41	8.14	8.14	8.14	33.94	33.94	33.94	108.0	107.8	107.9	8.12	8.10	8.11	1.29	1.31	1.30
			Middle																			
	17:47		Bottom	4.8	19.37	19.37	19.37	8.21	8.21	8.21	33.98	33.98	33.98	107.8	107.6	107.7	8.11	8.09	8.10	1.32	1.35	1.34
6/1/2024	8:18	Fine	Surface	1.0	19.74	19.73	19.74	8.22	8.20	8.21	33.87	33.84	33.86	111.5	111.7	111.6	8.34	8.36	8.35	1.38	1.36	1.37
			Middle																			
	8:22		Bottom	4.9	19.49	19.46	19.48	7.93	7.91	7.92	34.91	34.99	34.95	61.8	61.5	61.7	4.59	4.54	4.57	3.13	3.11	3.12
8/1/2024	8:58	Fine	Surface	1.0	20.05	20.05	20.05	8.10	8.10	8.10	34.21	34.21	34.21	105.3	105.2	105.3	7.82	7.81	7.82	1.27	1.30	1.29
			Middle																			
	9:02		Bottom	4.9	19.91	19.91	19.91	8.22	8.22	8.22	34.26	34.26	34.26	105.9	105.7	105.8	7.88	7.86	7.87	0.94	0.96	0.95
10/1/2024	10:28	Fine	Surface	1.0	20.19	20.19	20.19	8.23	8.23	8.23	34.26	34.26	34.26	106.8	106.6	106.7	7.88	7.86	7.87	1.33	1.35	1.34
			Middle																			
	10:32		Bottom	4.8	20.09	20.09	20.09	8.23	8.23	8.23	34.36	34.36	34.36	105.3	105.1	105.2	7.81	7.79	7.80	1.36	1.38	1.37
12/1/2024	13:24	Fine	Surface	1.0	20.59	20.61	20.60	8.27	8.26	8.27	33.77	33.74	33.76	119.3	119.1	119.2	8.78	8.76	8.77	1.40	1.42	1.41
			Middle																			
	13:28		Bottom	4.9	19.96	19.95	19.96	8.08	8.05	8.07	34.71	34.74	34.73	79.0	79.4	79.2	5.85	5.87	5.86	2.06	2.09	2.08
15/1/2024	15:55	Fine	Surface	1.0	20.93	20.95	20.94	8.26	8.27	8.27	33.37	33.35	33.36	121.7	121.9	121.8	8.93	8.95	8.94	1.95	1.94	1.95
			Middle																			
	15:59		Bottom	4.9	19.93	19.91	19.92	7.90	7.88	7.89	34.91	34.93	34.92	45.4	45.0	45.2	3.44	3.40	3.42	4.46	4.42	4.44
17/1/2024	17:53	Cloudy	Surface	1.0	20.43	20.44	20.44	8.28	8.26	8.27	34.11	34.13	34.12	107.8	107.6	107.7	7.97	7.95	7.96	1.57	1.59	1.58
			Middle																			
	17:57		Bottom	4.8	20.05	20.03	20.04	8.21	8.20	8.21	34.62	34.64	34.63	99.0	99.3	99.2	7.33	7.37	7.35	1.85	1.87	1.86
19/1/2024	8:00	Fine	Surface	1.0	20.97	20.96	20.97	8.29	8.31	8.30	33.64	33.62	33.63	114.4	114.8	114.6	8.40	8.43	8.42	2.20	2.19	2.20
			Middle																			
	8:04		Bottom	4.8	20.08	20.07	20.08	8.20	8.18	8.19	34.77	34.79	34.78	97.4	97.0	97.2	7.14	7.11	7.13	2.60	2.62	2.61

Water Monitoring Result at CR16 - Corals at Sha Tin Hoi North
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	6:22	Cloudy	Surface	1.0	23.82	23.82	23.82	8.69	8.69	8.69	31.48	31.48	31.48	114.6	114.5	114.6	8.09	8.07	8.08	0.93	0.94	0.94
	6:24		Middle	3.5	23.99	23.99	23.99	8.62	8.62	8.62	31.78	31.78	31.78	105.7	105.6	105.7	7.40	7.39	7.40	0.83	0.84	0.84
	6:26		Bottom	6.0	24.24	24.24	24.24	8.41	8.41	8.41	33.00	33.00	33.00	82.1	82.3	82.2	5.70	5.72	5.71	1.23	1.22	1.23
30/11/2023	8:06	Cloudy	Surface	1.0	24.08	24.09	24.09	8.78	8.78	8.78	31.24	31.24	31.24	111.8	112.0	111.9	8.34	8.36	8.35	1.03	1.05	1.04
	8:08		Middle	3.0	24.09	24.09	24.09	8.58	8.58	8.58	31.81	31.81	31.81	101.9	101.7	101.8	7.16	7.14	7.15	0.76	0.78	0.77
	8:10		Bottom	6.0	24.16	24.16	24.16	8.23	8.23	8.23	32.54	32.54	32.54	39.8	40.0	39.9	7.77	7.79	7.78	0.80	0.84	0.82
1/12/2023	9:10	Fine	Surface	1.0	23.66	23.66	23.66	8.71	8.71	8.71	31.41	31.41	31.41	104.7	104.9	104.8	7.40	7.42	7.41	0.90	0.93	0.92
	9:12		Middle	3.0	23.72	23.72	23.72	8.64	8.64	8.64	31.38	31.38	31.38	103.3	103.5	103.4	7.30	7.32	7.31	0.88	0.90	0.89
	9:14		Bottom	6.0	24.04	24.04	24.04	8.51	8.51	8.51	31.89	31.89	31.89	77.3	77.5	77.4	5.39	5.41	5.40	0.85	0.87	0.86
4/12/2023	8:16	Fine	Surface	1.0	23.20	23.20	23.20	8.60	8.62	8.61	31.52	31.56	31.54	110.7	110.9	110.8	7.88	7.91	7.90	0.85	0.87	0.86
	8:18		Middle	3.5	23.16	23.15	23.16	8.58	8.56	8.57	31.63	31.66	31.65	116.9	116.8	116.9	8.34	8.32	8.33	0.69	0.67	0.68
	8:20		Bottom	6.0	23.73	23.73	23.73	8.33	8.31	8.32	32.11	32.15	32.13	67.7	67.9	67.8	4.76	4.79	4.78	0.65	0.63	0.64
6/12/2023	13:33	Cloudy	Surface	1.0	23.31	23.31	23.31	8.84	8.84	8.84	31.45	31.45	31.45	116.3	116.5	116.4	8.27	8.29	8.28	0.92	0.93	0.93
	13:35		Middle	3.4	23.37	23.37	23.37	8.78	8.78	8.78	31.61	31.61	31.61	106.8	107.0	106.9	7.58	7.60	7.59	0.75	0.78	0.77
	13:37		Bottom	5.8	23.73	23.72	23.73	8.40	8.40	8.40	32.38	32.38	32.38	55.0	55.2	55.1	3.87	3.89	3.88	0.78	0.80	0.79
8/12/2023	14:33	Fine	Surface	1.0	23.00	23.00	23.00	8.79	8.79	8.79	32.11	32.11	32.11	105.5	105.7	105.6	7.51	7.53	7.52	0.81	0.84	0.83
	14:35		Middle	3.5	22.62	22.62	22.62	8.81	8.81	8.81	31.95	31.95	31.95	97.5	97.4	97.5	7.00	6.99	7.00	0.70	0.69	0.70
	14:37		Bottom	6.0	23.45	23.45	23.45	8.50	8.50	8.50	32.62	32.62	32.62	58.4	58.2	58.3	4.12	4.10	4.11	0.96	0.99	0.98
11/12/2023	6:32	Cloudy	Surface	1.0	24.05	24.05	24.05	8.77	8.77	8.77	31.75	31.75	31.75	118.2	118.0	118.1	8.32	8.30	8.31	0.61	0.63	0.62
	6:34		Middle	3.5	23.46	23.40	23.43	8.70	8.70	8.70	32.11	32.11	32.11	102.7	102.5	102.6	7.27	7.25	7.26	0.80	0.82	0.81
	6:36		Bottom	6.0	23.45	23.45	23.45	8.68	8.68	8.68	32.18	32.18	32.18	89.2	89.4	89.3	6.42	6.44	6.43	1.11	1.10	1.11
13/12/2023	6:34	Cloudy	Surface	1.0	24.04	24.04	24.04	8.37	8.37	8.37	31.94	31.94	31.94	114.1	114.0	114.1	7.99	7.98	7.99	0.44	0.45	0.45
	6:36		Middle	3.5	24.11	24.11	24.11	8.34	8.34	8.34	32.37	32.37	32.37	111.0	111.2	111.1	7.75	7.77	7.76	0.61	0.62	0.62
	6:38		Bottom	6.0	23.70	23.70	23.70	7.97	7.97	7.97	32.79	32.79	32.79	93.0	92.8	92.9	6.53	6.51	6.52	0.84	0.85	0.85
15/12/2023	9:07	Fine	Surface	1.0	24.07	24.08	24.08	8.34	8.35	8.35	31.16	31.17	31.17	124.5	124.9	124.7	8.75	8.78	8.77	0.30	0.32	0.31
	9:09		Middle	3.5	23.70	23.69	23.70	8.16	8.16	8.16	31.81	31.82	31.82	85.7	86.2	86.0	6.05	6.09	6.07	0.05	0.06	0.06
	9:11		Bottom	6.0	23.56	23.57	23.57	7.87	7.88	7.88	32.10	32.12	32.11	38.9	38.7	38.8	2.74	2.72	2.73	1.38	1.39	1.39
18/12/2023	10:33	Cloudy	Surface	1.0	22.05	22.05	22.05	8.29	8.29	8.29	32.20	32.20	32.20	97.2	97.4	97.3	7.05	7.07	7.06	0.40	0.41	0.41
	10:35		Middle	3.5	21.97	21.97	21.97	8.29	8.29	8.29	32.31	32.31	32.31	96.0	96.2	96.1	6.98	7.00	6.99	0.48	0.50	0.49
	10:37		Bottom	6.0	22.00	22.00	22.00	8.29	8.29	8.29	32.21	32.21	32.21	96.7	96.9	96.8	7.01	7.03	7.02	0.68	0.70	0.69
20/12/2023	13:53	Cloudy	Surface	1.0	21.10	21.08	21.09	8.15	8.17	8.16	33.88	33.86	33.87	88.1	88.3	88.2	6.43	6.46	6.45	1.63	1.62	1.63
	13:55		Middle	3.6	21.09	21.06	21.08	8.14	8.11	8.13	33.87	33.86	33.87	86.7	86.5	86.6	6.35	6.32	6.34	1.58	1.56	1.57
	13:57		Bottom	6.1	21.03	20.98	21.01	8.09	8.06	8.08	33.81	33.85	33.83	85.8	85.7	85.8	6.29	6.28	6.29	1.77	1.75	1.76
22/12/2023	14:24	Cloudy	Surface	1.0	19.23	19.22	19.23	8.04	8.05	8.05	33.91	33.92	33.92	92.4	92.5	92.5	6.96	6.97	6.97	1.63	1.62	1.63
	14:26		Middle	3.5	19.24	19.24	19.24	8.07	8.06	8.07	33.94	33.94	33.94	91.8	91.9	91.9	6.93	6.93	6.93	1.52	1.54	1.53
	14:28		Bottom	6.0	19.20	19.19	19.20	8.07	8.07	8.07	33.95	33.95	33.95	92.7	92.9	92.8	6.98	6.99	6.99	1.43	1.44	1.44
26/12/2023	6:19	Cloudy	Surface	1.0	17.82	17.81	17.82	8.15	8.15	8.15	33.95	33.94	33.95	109.9	110.2	110.1	8.51	8.52	8.52	1.67	1.68	1.68
	6:21		Middle	3.5	17.87	17.86	17.87	8.15	8.14	8.15	33.96	33.97	33.97	107.1	107.4	107.3	8.30	8.32	8.31	1.81	1.79	1.80
	6:23		Bottom	6.0	17.95	17.96	17.96	8.13	8.13	8.13	34.02	34.03	34.03	104.3	104.0	104.2	8.05	8.03	8.04	2.17	2.16	2.17
28/12/2023	13:31	Fine	Surface	1.0	18.37	18.39	18.38	8.15	8.16	8.16	33.96	33.92	33.94	108.9	108.6	108.8	8.31	8.29	8.30	1.56	1.52	1.54
	13:33		Middle	3.5	18.69	18.68	18.69	8.10	8.09	8.10	34.28	34.30	34.29	86.9	87.8	87.4	6.63	6.68	6.66	2.16	2.19	2.18
	13:35		Bottom	6.1	19.14	19.13	19.14	7.94	7.92	7.93	34.75	34.77	34.76	65.6	64.4	65.0	4.91	4.83	4.87	3.36	3.39	3.38
30/12/2023	10:05	Fine	Surface	1.0	19.54	19.52	19.53	8.21	8.22	8.22	33.74	33.76	33.75	116.8	116.9	116.9	8.28	8.80	8.54	1.28	1.25	1.27
	10:07		Middle	3.5	19.33	19.35	19.34	8.19	8.16	8.18	34.04	34.07	34.06	112.2	112.0	112.1	8.45	8.42	8.44	1.33	1.35	1.34
	10:09		Bottom	5.9	19.20	19.19	19.20	8.13	8.11	8.12	34.60	34.57	34.59	91.6	91.8	91.7	6.90	6.93	6.92	3.36	3.38	3.37
2/1/2024	14:18	Fine	Surface	1.0	19.88	19.88	19.88	8.17	8.17	8.17	34.14	34.14	34.14	110.3	110.5	110.4	8.22	8.25	8.24	1.22	1.24	1.23
	14:20		Middle	3.6	19.89	19.89	19.89	8.22	8.22	8.22	34.14	34.14	34.14	110.9	110.7	110.8	8.28	8.26	8.27	1.24	1.26	1.25
	14:22		Bottom	6.2	19.78	19.78	19.78	8.23	8.23	8.23	34.29	34.29	34.29	108.2	108.0	108.1	8.06	8.04	8.05	1.42	1.44	1.43
4/1/2024	12:03	Fine	Surface	1.0	19.34	19.34	19.34	8.26	8.26	8.26	33.86	33.86	33.86	107.9	107.7	107.8	8.14	8.12	8.13	1.41	1.43	1.42
	12:05		Middle	3.5	19.35	19.35	19.35	8.22	8.22	8.22	33.86	33.86	33.86	108.6	108.4	108.5	8.18	8.16	8.17	1.35	1.36	1.36
	12:07		Bottom	6.0	19.35	19.35	19.35	8.21	8.21	8.21	34.11	34.11	34.11	107.5	107.6	107.6	8.09	8.10	8.10	1.38	1.39	1.39
6/1/2024	14:47	Fine	Surface	1.0	19.82	19.84	19.83	8.23	8.25	8.24	33.89	33.86	33.88	114.9	114.6	114.8	8.59	8.54	8.57	1.31	1.35	1.33
	14:49		Middle	3.4	19.93	19.95	19.94	8.22	8.21	8.22	34.23	34.26	34.25	109.8	110.0	109.9	8.17	8.18	8.18	1.49	1.47	1.48
	14:51		Bottom	5.8	19.55	19.54	19.55	7.80	7.79	7.80	34.85	34.77	34.81	50.2	50.4	50.3	3.75	3.77	3.76	3.14	3.19	3.17
8/1/2024	14:22	Fine	Surface	1.0	20.10	20.10	20.10	8.18	8.18	8.18	34.00	34.00	34.00	99.4	99.6	99.5	7.38	7.40	7.39	1.23	1.25	1.24
	14:24		Middle	3.5	20.17	20.17	20.17	8.21	8.21	8.21	34.15	34.15	34.15	103.1	103.3	103.2	7.65	7.67	7.66	1.31	1.33	1.32
	14:26		Bottom	6.0	20.10	20.10	20.10	8.19	8.19	8.19	34.29	34.29	34.29	98.8	98.6	98.7	7.33	7.32	7.33	1.45	1.48	1.47
10/1/2024	15:08	Fine	Surface	1.0	20.26	20.26	20.26	8.23	8.23	8.23	34.24	34.24	34.24	108.2	108.0	108.1	8.02	8.00	8.01	1.26	1.30	1.28
	15:10		Middle	3.5	20.16	20.16	20.16	8.23	8.23	8.23	34.30	34.30	34.30	108.0	107.8	107.9	8.00	7.98	7.99	1.34	1.35	1.35
	15:12		Bottom	6.1	20.05	20.05	20.05	8.23	8.23	8.23	34.40	34.40	34.40	107.0	107.2	107.1	7.93	7.95	7.94	1.54	1.55	1.55
12/1/2024	19:27	Fine	Surface	1.0	20.51	20.53	20.52	8.25	8.27	8.26	33.96	33.98	33.97	117.2	117.4	117.3	8.65	8.68	8.67	1.30	1.33	1.32
	19:29		Middle	3.5	20.49	20.52	20.51	8.22	8.20	8.21	34.42	34.45	34.44	104.9	105.4	105.2	7.71	7.76	7.74	1.19	1.21	1.20
	19:31		Bottom	6.0	19.96	19.93	19.95	8.08	8.05	8.07	34.73	34.70	34.72	78.2	78.4	78.3	5.80	5.82	5.81	2.04	2.06	2.05
15/1/2024	10:40	Fine	Surface	1.0	20.76	20.74	20.75	8.27	8.26	8.27	33.93	33.92	33.93	119.0	118.8	118.9	8.73	8.71	8.72	1.58	1.55	1.57
	10:42		Middle	3.6	20.18	20.17	20.18	8.21	8.19	8.20	34.57	34.56	34.57	100.4	101.0	100.7	7.43	7.50	7.47	1.56	1.54	1.55
	10:44		Bottom	6.2	19.99	19.97	19.98	7.97	7.95	7.96	34.86	34.84	34.85	58.1	58.4	58.3	4.31	4.34	4.33	2.27	2.25	2.26
17/1/2024	11:41	Cloudy	Surface	1.0	20.47	20.49	20.48	8.29	8.30	8.30	34.07	34.05	34.06	110.1	110.2	110.2	8.13	8.14	8.14	1.67	1.69	1.68
	11:43		Middle	3.6	20.34	20.32	20.33	8.30	8.31	8.31	34.20	34.18	34.19	112.5	112.3	112.4	8.30	8.28	8.29	1.86	1.84	1.85
	11:45		Bottom	6.2	20.21	20.20	20.21	8.24	8.22	8.23	34.60	34.62	34.61	103.2	102.9	103.1	7.62	7.60	7.61	2.23	2.21	2.22
19/1/2024	13:47	Fine	Surface	1.0	21.07	21.08	21.08	8.30	8.31	8.31	33.79	33.76	33.78	117.5	117.2	117.4	8.59	8.56	8.58	2.10	2.12	2.11
	13:49		Middle	3.5	20.43	20.45	20.44	8.20	8.22	8.21	34.49	34.46	34.48	93.1	93.5	93.3	6.86	6.89	6.88	2.37	2.35	2.36
	13:51		Bottom	6.0	20.05	20.07	20.06	8.10	8.09	8.10	34.79	34.77	34.78	78.2	78.4	78.3	5.79	5.81	5.80	3.17	3.19	3.18

Water Monitoring Result at CR16 - Corals at Sha Tin Hoi North
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	12:19	Cloudy	Surface	1.0	23.84	23.84	23.84	8.70	8.70	8.70	31.50	31.50	31.50	115.4	115.6	115.5	8.17	8.19	8.18	0.99	1.00	1.00
	12:21		Middle	3.4	24.00	24.00	24.00	8.63	8.63	8.63	31.88	31.88	31.88	106.1	106.3	106.2	7.44	7.46	7.45	0.90	0.88	0.89
	12:23		Bottom	5.8	24.25	24.25	24.25	8.42	8.42	8.42	33.02	33.02	33.02	81.8	81.9	81.9	5.68	5.69	5.69	1.34	1.35	1.35
30/11/2023	13:01	Cloudy	Surface	1.0	24.07	24.07	24.07	8.79	8.79	8.79	31.16	31.16	31.16	118.8	119.0	118.9	8.42	8.44	8.43	1.22	1.25	1.24
	13:03		Middle	3.5	23.92	23.92	23.92	8.76	8.76	8.76	31.57	31.57	31.57	114.8	115.0	114.9	8.09	8.11	8.10	0.92	0.95	0.94
	13:05		Bottom	5.9	24.21	24.21	24.21	8.34	8.34	8.34	32.43	32.43	32.43	41.4	41.5	41.5	2.85	2.86	2.86	0.82	0.84	0.83
1/12/2023	15:15	Fine	Surface	1.0	23.75	23.75	23.75	8.71	8.71	8.71	31.31	31.31	31.31	105.4	105.6	105.5	7.47	7.49	7.48	0.98	1.00	0.99
	15:17		Middle	3.4	23.75	23.75	23.75	8.69	8.69	8.69	31.36	31.36	31.36	100.0	100.0	100.0	7.09	7.07	7.08	0.90	0.86	0.88
	15:19		Bottom	5.8	24.01	24.01	24.01	8.54	8.54	8.54	31.75	31.75	31.75	80.7	80.9	80.8	5.65	5.67	5.66	0.84	0.87	0.86
4/12/2023	16:35	Fine	Surface	1.0	23.29	23.30	23.30	8.58	8.56	8.57	31.50	31.48	31.49	111.2	111.5	111.4	7.98	8.02	8.00	0.83	0.86	0.85
	16:37		Middle	3.5	23.13	23.13	23.13	8.62	8.64	8.63	31.65	31.69	31.67	117.2	117.0	117.1	8.35	8.33	8.34	0.70	0.66	0.68
	16:39		Bottom	6.0	23.74	23.73	23.74	8.33	8.35	8.34	32.07	32.10	32.09	67.7	67.4	67.6	4.78	4.72	4.75	0.69	0.66	0.68
6/12/2023	7:00	Cloudy	Surface	1.0	23.30	23.30	23.30	8.83	8.83	8.83	31.44	31.44	31.44	115.5	115.8	115.7	8.23	8.20	8.22	0.84	0.86	0.85
	7:02		Middle	3.5	23.69	23.69	23.69	8.45	8.45	8.45	32.05	32.05	32.05	106.3	106.5	106.4	7.55	7.57	7.56	0.72	0.74	0.73
	7:04		Bottom	6.0	23.69	23.69	23.69	8.38	8.38	8.38	32.56	32.56	32.56	57.1	57.3	57.2	4.00	4.02	4.01	0.83	0.85	0.84
8/12/2023	8:02	Fine	Surface	1.0	22.96	22.96	22.96	8.78	8.78	8.78	32.04	32.04	32.04	106.5	106.3	106.4	7.60	7.57	7.59	0.77	0.74	0.76
	8:04		Middle	3.4	22.65	22.65	22.65	8.83	8.83	8.83	31.98	31.98	31.98	98.4	98.6	98.5	7.07	7.09	7.08	0.65	0.67	0.66
	8:06		Bottom	5.8	23.40	23.40	23.40	8.49	8.49	8.49	32.63	32.63	32.63	59.0	59.4	59.2	4.16	4.20	4.18	0.95	0.99	0.97
11/12/2023	11:06	Cloudy	Surface	1.0	23.86	23.86	23.86	8.78	8.78	8.78	31.79	31.79	31.79	120.0	119.9	120.0	8.45	8.43	8.44	0.55	0.58	0.57
	11:08		Middle	3.4	23.45	23.45	23.45	8.70	8.70	8.70	32.12	32.12	32.12	101.6	101.4	101.5	7.19	7.17	7.18	0.84	0.87	0.86
	11:10		Bottom	5.8	23.45	23.45	23.45	8.58	8.58	8.58	32.21	32.21	32.21	86.0	86.2	86.1	6.10	6.12	6.11	1.09	1.12	1.11
13/12/2023	11:22	Cloudy	Surface	1.0	24.06	24.06	24.06	8.35	8.35	8.35	31.77	31.77	31.77	112.4	112.2	112.3	7.88	7.86	7.87	0.53	0.55	0.54
	11:24		Middle	3.4	24.11	24.11	24.11	8.32	8.33	8.33	32.37	32.37	32.37	110.4	110.3	110.4	7.70	7.69	7.70	0.64	0.65	0.65
	11:26		Bottom	5.8	23.93	23.93	23.93	8.27	8.27	8.27	32.48	32.48	32.48	97.5	97.3	97.4	6.84	6.82	6.83	0.84	0.83	0.84
15/12/2023	13:52	Fine	Surface	1.0	24.04	24.05	24.05	8.32	8.33	8.33	31.29	31.30	31.30	119.7	119.9	119.8	8.43	8.45	8.44	0.29	0.27	0.28
	13:54		Middle	3.3	23.81	23.82	23.82	8.14	8.15	8.15	31.48	31.49	31.49	84.8	85.0	84.9	5.98	5.99	5.99	0.13	0.14	0.14
	13:56		Bottom	5.6	23.65	23.66	23.66	8.02	8.01	8.02	31.79	31.77	31.78	39.7	39.6	39.7	2.81	2.80	2.81	1.78	1.79	1.79
18/12/2023	14:50	Cloudy	Surface	1.0	21.96	21.96	21.96	8.30	8.30	8.30	32.19	32.19	32.19	97.8	98.0	97.9	7.11	7.13	7.12	0.62	0.63	0.63
	14:52		Middle	3.4	22.11	22.11	22.11	8.26	8.26	8.26	32.28	32.28	32.28	95.7	95.9	95.8	6.87	6.89	6.88	0.72	0.74	0.73
	14:54		Bottom	5.8	22.82	22.82	22.82	8.12	8.12	8.12	32.67	32.67	32.67	72.4	72.6	72.5	5.14	5.16	5.15	0.88	0.91	0.90
20/12/2023	7:52	Cloudy	Surface	1.0	21.17	21.19	21.18	8.10	8.12	8.11	33.88	33.91	33.90	87.1	87.0	87.1	6.35	6.34	6.35	1.75	1.77	1.76
	7:54		Middle	3.5	21.15	21.15	21.15	8.08	8.07	8.08	33.86	33.85	33.86	86.7	86.5	86.6	6.30	6.28	6.29	1.67	1.69	1.68
	7:46		Bottom	6.0	21.10	21.10	21.10	8.05	8.05	8.05	33.93	33.94	33.94	84.3	84.2	84.3	6.16	6.15	6.16	1.83	1.85	1.84
22/12/2023	8:11	Cloudy	Surface	1.0	19.21	19.22	19.22	8.06	8.06	8.06	33.97	33.97	33.97	92.1	92.3	92.2	6.96	6.97	6.97	1.71	1.72	1.72
	8:13		Middle	3.5	19.25	19.24	19.25	8.06	8.07	8.07	33.96	33.97	33.97	91.5	91.6	91.6	6.91	6.91	6.91	1.70	1.68	1.69
	8:15		Bottom	6.0	19.21	19.22	19.22	8.05	8.05	8.05	33.91	33.92	33.92	92.2	92.4	92.3	6.95	6.96	6.96	1.80	1.81	1.81
26/12/2023	11:23	Cloudy	Surface	1.0	17.81	17.81	17.81	8.17	8.17	8.17	33.91	33.90	33.91	110.0	110.1	110.1	8.53	8.54	8.54	1.78	1.77	1.78
	11:25		Middle	3.4	17.91	17.92	17.92	8.14	8.15	8.15	33.98	33.99	33.99	106.9	107.3	107.1	8.28	8.30	8.29	1.86	1.85	1.86
	11:27		Bottom	5.8	18.17	18.17	18.17	8.11	8.10	8.11	34.10	34.10	34.10	99.8	99.7	99.8	7.68	7.67	7.68	2.46	2.45	2.46
28/12/2023	9:18	Fine	Surface	1.0	18.37	18.38	18.38	8.18	8.16	8.17	33.98	33.95	33.97	108.9	109.1	109.0	8.34	8.36	8.35	1.50	1.52	1.51
	9:20		Middle	3.5	18.34	18.35	18.35	8.07	8.09	8.08	34.11	34.09	34.10	100.3	100.1	100.2	8.17	8.14	8.16	1.77	1.74	1.76
	9:22		Bottom	5.9	19.02	19.02	19.02	7.99	7.97	7.98	34.61	34.63	34.62	77.3	76.9	77.1	5.83	5.78	5.81	2.75	2.73	2.74
30/12/2023	14:47	Fine	Surface	1.0	19.65	19.66	19.66	8.24	8.26	8.25	33.60	33.64	33.62	117.2	117.6	117.4	8.80	8.89	8.85	1.33	1.33	1.33
	14:49		Middle	3.4	19.32	19.31	19.32	8.07	8.13	8.10	33.99	34.02	34.01	109.6	109.4	109.5	8.26	8.23	8.25	1.42	1.44	1.43
	14:51		Bottom	5.8	19.23	19.25	19.24	8.08	8.05	8.07	34.50	34.54	34.52	87.7	87.4	87.6	6.59	6.52	6.56	2.22	2.20	2.21
2/1/2024	7:03	Fine	Surface	1.0	19.89	19.89	19.89	8.10	8.10	8.10	34.14	34.14	34.14	109.9	110.0	110.0	8.19	8.20	8.20	1.25	1.27	1.26
	7:05		Middle	3.5	19.89	19.89	19.89	8.20	8.20	8.20	34.14	34.14	34.14	110.5	110.7	110.6	8.23	8.25	8.24	1.20	1.21	1.21
	7:07		Bottom	6.0	19.84	19.84	19.84	8.23	8.23	8.23	34.19	34.19	34.19	109.5	109.7	109.6	8.16	8.18	8.17	1.23	1.25	1.24
4/1/2024	16:03	Fine	Surface	1.0	19.34	19.34	19.34	8.22	8.22	8.22	33.86	33.86	33.86	108.4	108.6	108.5	8.17	8.19	8.18	1.36	1.38	1.37
	16:05		Middle	3.4	19.33	19.33	19.33	8.22	8.22	8.22	33.85	33.85	33.85	108.0	108.2	108.1	8.13	8.15	8.14	1.40	1.41	1.41
	16:07		Bottom	5.8	19.37	19.37	19.37	8.21	8.21	8.21	34.13	34.13	34.13	107.3	107.5	107.4	8.06	8.08	8.07	1.38	1.40	1.39
6/1/2024	8:38	Fine	Surface	1.0	19.78	19.80	19.79	8.23	8.24	8.24	33.93	33.96	33.95	113.8	114.0	113.9	8.50	8.54	8.52	1.34	1.36	1.35
	8:40		Middle	3.5	20.04	20.02	20.03	8.18	8.16	8.17	34.36	34.32	34.34	101.4	101.6	101.5	7.52	7.55	7.54	1.38	1.35	1.37
	8:42		Bottom	5.9	19.50	19.53	19.52	7.90	7.86	7.88	34.94	34.92	34.93	53.8	53.5	53.7	4.01	3.99	4.00	3.06	3.04	3.05
8/1/2024	9:18	Fine	Surface	1.0	20.09	20.09	20.09	8.20	8.20	8.20	34.00	34.00	34.00	100.5	100.3	100.4	7.46	7.45	7.46	1.31	1.34	1.33
	9:20		Middle	3.5	20.16	20.16	20.16	8.20	8.20	8.20	34.13	34.13	34.13	102.0	101.9	102.0	7.57	7.56	7.57	1.28	1.31	1.30
	9:22		Bottom	6.0	20.10	20.10	20.10	8.18	8.18	8.18	34.28	34.28	34.28	99.2	99.0	99.1	7.35	7.33	7.34	1.47	1.49	1.48
10/1/2024	10:48	Fine	Surface	1.0	20.37	20.37	20.37	8.19	8.19	8.19	34.29	34.29	34.29	107.5	107.7	107.6	7.93	7.94	7.94	1.12	1.14	1.13
	10:50		Middle	3.5	20.29	20.29	20.29	8.21	8.21	8.21	34.31	34.31	34.31	107.4	107.2	107.3	7.93	7.91	7.92	1.22	1.23	1.23
	10:52		Bottom	6.0	20.14	20.14	20.14	8.22	8.22	8.22	34.36	34.36	34.36	107.3	107.1	107.2	7.95	7.93	7.94	1.11	1.10	1.11
12/1/2024	13:45	Fine	Surface	1.0	20.59	20.63	20.61	8.27	8.25	8.26	33.70	33.68	33.69	119.4	119.1	119.3	8.80	8.76	8.78	1.35	1.32	1.34
	13:47		Middle	3.5	20.51	20.49	20.50	8.22	8.20	8.21	34.43	34.40	34.42	109.0	109.3	109.2	8.01	8.04	8.03	1.17	1.15	1.16
	13:49		Bottom	5.9	19.87	19.85	19.86	8.02	8.01	8.02	34.77	34.76	34.77	66.0	65.9	66.0	4.89	4.88	4.89	2.71	2.68	2.70
15/1/2024	16:15	Fine	Surface	1.0	20.29	20.31	20.30	8.29	8.27	8.28	34.25	34.29	34.27	120.7	120.5	120.6	8.91	8.88	8.90	1.54	1.55	1.55
	16:17		Middle	3.4	20.21	20.19	20.20	8.22	8.20	8.21	34.58	34.56	34.57	104.3	104.9	104.6	7.71	7.76	7.74	1.59	1.62	1.61
	16:19		Bottom	5.8	19.98	19.95	19.97	7.95	7.93	7.94	34.86	34.82	34.84	54.1	55.0	54.6	4.03	4.10	4.07	2.35	2.32	2.34
17/1/2024	18:13	Cloudy	Surface	1.0	20.49	20.50	20.50	8.30	8.29	8.30	34.15	34.17	34.16	111.4	111.6	111.5	8.24	8.26	8.25	1.57	1.58	1.58
	18:15		Middle	3.5	20.33	20.31	20.32	8.30	8.31	8.31	34.20	34.24	34.22	111.1	109.7	110.4	8.21	8.17	8.19	1.83	1.82	1.83
	18:17		Bottom	5.9	20.34	20.33	20.34	8.24	8.22	8.23	34.43	34.46	34.45	103.2	103.4	103.3	7.61	7.64	7.63	1.98	1.97	1.98
19/1/2024	8:20	Fine	Surface	1.0	21.03	21.06	21.05	8.30	8.28	8.29	33.78	33.80	33.79	116.2	116.0	116.1	8.48	8.46	8.47	2.10	2.12	2.11
	8:22		Middle	3.5	20.49	20.46	20.48	8.23	8.21	8.22	34.51	34.53	34.52	97.7	97.2	97.5	7.19	7.15	7.17	2.60	2.61	2.61
	8:24		Bottom	6.0	19.97	19.98	19.98	8.09	8.07	8.08	34.75	34.78	34.77	75.9	76.1	76.0	5.65	5.68	5.67	2.97	2.99	2.98

Water Monitoring Result at CR17 - Corals at Sha Tin Hoi South
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	6:34	Cloudy	Surface	1.0	24.02	24.02	24.02	8.57	8.57	8.57	30.99	30.99	30.99	106.2	106.4	106.3	7.48	7.50	7.49	1.31	1.34	1.33
			Middle																			
	6:38		Bottom	4.3	23.95	23.95	23.95	8.59	8.59	8.59	31.46	31.46	31.46	99.5	99.4	99.5	6.98	6.97	6.98	1.15	1.18	1.17
30/11/2023	8:19	Cloudy	Surface	1.0	23.93	23.93	23.93	8.70	8.70	8.70	30.31	31.31	30.81	115.9	115.7	115.8	8.21	8.19	8.20	2.26	2.24	2.25
			Middle																			
	8:23		Bottom	4.4	24.09	24.09	24.09	8.70	8.70	8.70	31.61	31.61	31.61	103.8	103.9	103.9	7.26	7.28	7.27	1.01	1.04	1.03
1/12/2023	9:22	Fine	Surface	1.0	23.72	23.72	23.72	8.50	8.50	8.50	31.11	31.11	31.11	99.2	99.4	99.3	7.01	7.03	7.02	1.32	1.34	1.33
			Middle																			
	9:26		Bottom	4.3	23.66	23.66	23.66	8.61	8.61	8.61	31.17	31.17	31.17	104.0	104.0	104.0	7.36	7.38	7.37	1.07	1.10	1.09
4/12/2023	8:28	Fine	Surface	1.0	23.68	23.68	23.68	8.56	8.59	8.58	31.47	31.52	31.50	110.5	110.8	110.7	7.80	7.84	7.82	1.16	1.18	1.17
			Middle																			
	8:34		Bottom	4.3	23.79	23.79	23.79	8.33	8.32	8.33	32.04	32.06	32.05	87.2	87.6	87.4	5.83	5.88	5.86	0.78	0.76	0.77
6/12/2023	13:45	Cloudy	Surface	1.0	22.90	22.90	22.90	8.80	8.80	8.80	31.10	31.10	31.10	115.4	115.6	115.5	8.30	8.32	8.31	0.80	0.82	0.81
			Middle																			
	13:49		Bottom	4.4	23.40	23.40	23.40	8.59	8.59	8.59	31.84	31.84	31.84	87.9	88.0	88.0	6.24	6.25	6.25	0.66	0.68	0.67
8/12/2023	14:45	Fine	Surface	1.0	22.75	22.75	22.75	8.82	8.82	8.82	31.99	31.99	31.99	101.8	101.6	101.7	7.29	7.27	7.28	0.90	0.91	0.91
			Middle																			
	14:49		Bottom	4.3	23.43	23.43	23.43	8.51	8.51	8.51	32.65	32.65	32.65	59.0	59.2	59.1	4.16	4.18	4.17	0.90	0.94	0.92
11/12/2023	6:44	Cloudy	Surface	1.0	23.68	23.68	23.68	8.78	8.78	8.78	32.02	32.02	32.02	117.2	117.4	117.3	8.25	8.27	8.26	0.50	0.53	0.52
			Middle																			
	6:48		Bottom	4.3	23.44	23.44	23.44	8.64	8.64	8.64	32.19	32.19	32.19	92.3	92.4	92.4	6.52	6.53	6.53	0.71	0.73	0.72
13/12/2023	6:46	Cloudy	Surface	1.0	23.97	23.97	23.97	8.33	8.33	8.33	31.48	31.48	31.48	108.0	108.2	108.1	7.60	7.62	7.61	0.58	0.59	0.59
			Middle																			
	6:50		Bottom	4.3	24.11	24.11	24.11	8.31	8.31	8.31	32.29	32.29	32.29	103.0	103.2	103.1	7.20	7.22	7.21	0.73	0.74	0.74
15/12/2023	9:26	Fine	Surface	1.0	24.18	24.17	24.18	8.34	8.35	8.35	31.08	31.09	31.09	129.8	130.2	130.0	9.13	9.15	9.14	0.26	0.27	0.27
			Middle																			
	9:30		Bottom	4.3	23.60	23.61	23.61	7.87	7.87	7.87	32.10	32.10	32.10	40.5	40.1	40.3	2.85	2.83	2.84	0.93	0.94	0.94
18/12/2023	10:45	Cloudy	Surface	1.0	21.99	21.99	21.99	8.30	8.30	8.30	32.19	32.19	32.19	97.7	97.9	97.8	7.09	7.11	7.10	0.44	0.46	0.45
			Middle																			
	10:49		Bottom	4.3	22.02	22.02	22.02	8.29	8.29	8.29	32.22	32.22	32.22	96.1	96.2	96.2	6.96	6.98	6.97	0.64	0.65	0.65
20/12/2023	14:05	Cloudy	Surface	1.0	21.07	21.06	21.07	8.13	8.16	8.15	33.77	33.78	33.78	88.6	88.5	88.6	6.47	6.46	6.47	1.60	1.62	1.61
			Middle																			
	14:09		Bottom	4.5	21.03	21.01	21.02	8.19	8.18	8.19	33.89	33.87	33.88	87.4	87.6	87.5	6.32	6.35	6.34	1.69	1.71	1.70
22/12/2023	14:39	Cloudy	Surface	1.0	19.23	19.22	19.23	8.08	8.07	8.08	33.99	33.98	33.99	92.6	92.8	92.7	6.97	6.98	6.98	1.51	1.53	1.52
			Middle																			
	14:43		Bottom	4.3	19.25	19.26	19.26	8.06	8.06	8.06	33.96	33.97	33.97	92.2	92.2	92.2	6.95	6.95	6.95	1.54	1.52	1.53
26/12/2023	6:31	Cloudy	Surface	1.0	17.82	17.83	17.83	8.16	8.16	8.16	33.91	33.22	33.57	109.6	109.8	109.7	8.49	8.50	8.50	1.79	1.81	1.80
			Middle																			
	6:35		Bottom	4.3	17.97	17.98	17.98	8.11	8.12	8.12	34.02	34.01	34.02	102.7	102.8	102.8	7.94	7.95	7.95	1.94	1.93	1.94
28/12/2023	13:43	Fine	Surface	1.0	18.39	18.38	18.39	8.19	8.23	8.21	33.98	34.03	34.01	110.4	110.6	110.5	8.46	8.49	8.48	1.60	1.64	1.62
			Middle																			
	13:47		Bottom	4.5	19.20	19.19	19.20	7.91	7.90	7.91	34.70	34.72	34.71	64.9	65.2	65.1	4.88	4.91	4.90	3.54	3.59	3.57
30/12/2023	10:17	Fine	Surface	1.0	19.53	19.50	19.52	8.22	8.24	8.23	33.78	33.80	33.79	117.0	117.3	117.2	8.80	8.86	8.83	1.24	1.22	1.23
			Middle																			
	10:21		Bottom	4.2	19.22	19.24	19.23	8.14	8.16	8.15	34.59	34.64	34.62	93.5	93.8	93.7	7.05	7.09	7.07	1.74	1.77	1.76
2/1/2024	14:31	Fine	Surface	1.0	19.98	19.98	19.98	8.16	8.16	8.16	33.81	33.81	33.81	110.8	110.6	110.7	8.26	8.24	8.25	1.26	1.30	1.28
			Middle																			
	14:35		Bottom	4.3	19.86	19.86	19.86	8.22	8.22	8.22	34.27	34.27	34.27	109.1	108.9	109.0	8.19	8.17	8.18	1.50	1.52	1.51
4/1/2024	12:16	Fine	Surface	1.0	19.34	19.34	19.34	8.24	8.24	8.24	33.64	33.64	33.64	106.6	106.8	106.7	8.05	8.07	8.06	1.51	1.53	1.52
			Middle																			
	12:20		Bottom	4.4	19.42	19.42	19.42	8.21	8.21	8.21	33.71	33.71	33.71	106.2	106.4	106.3	8.00	8.00	8.00	1.49	1.50	1.50
6/1/2024	14:59	Fine	Surface	1.0	19.76	19.73	19.75	8.19	8.17	8.18	33.86	33.82	33.84	115.2	115.4	115.3	8.62	8.65	8.64	1.33	1.36	1.35
			Middle																			
	15:03		Bottom	4.1	19.51	19.49	19.50	7.92	7.96	7.94	34.96	34.97	34.97	53.4	53.6	53.5	3.97	4.00	3.99	3.10	3.08	3.09
8/1/2024	14:34	Fine	Surface	1.0	20.05	20.05	20.05	8.17	8.17	8.17	33.98	33.98	33.98	98.0	97.9	98.0	7.29	7.28	7.29	1.47	1.50	1.49
			Middle																			
	14:38		Bottom	4.5	20.06	20.06	20.06	8.21	8.21	8.21	34.12	34.12	34.12	95.2	95.4	95.3	7.05	7.07	7.06	1.32	1.34	1.33
10/1/2024	15:21	Fine	Surface	1.0	20.38	20.38	20.38	8.24	8.24	8.24	34.27	34.27	34.27	108.0	108.2	108.1	7.99	8.01	8.00	1.41	1.43	1.42
			Middle																			
	15:25		Bottom	4.4	20.19	20.19	20.19	8.22	8.22	8.22	34.32	34.32	34.32	106.4	106.2	106.3	7.90	7.88	7.89	1.64	1.62	1.63
12/1/2024	19:39	Fine	Surface	1.0	20.49	20.47	20.48	8.26	8.23	8.25	33.90	33.88	33.89	117.0	116.8	116.9	8.64	8.60	8.62	1.32	1.30	1.31
			Middle																			
	19:43		Bottom	4.3	19.96	19.98	19.97	8.08	8.10	8.09	34.72	34.68	34.70	78.8	78.9	78.9	5.85	5.86	5.86	2.00	1.97	1.99
15/1/2024	10:53	Fine	Surface	1.0	20.77	20.75	20.76	8.25	8.23	8.24	33.96	33.98	33.97	117.5	117.3	117.4	8.64	8.62	8.63	1.63	1.65	1.64
			Middle																			
	10:57		Bottom	4.4	19.95	19.94	19.95	7.98	8.00	7.99	34.84	34.82	34.83	59.3	59.7	59.5	4.39	4.43	4.41	2.22	2.20	2.21
17/1/2024	11:54	Cloudy	Surface	1.0	20.42	20.40	20.41	8.28	8.26	8.27	34.01	34.03	34.02	110.4	110.7	110.6	8.14	8.19	8.17	1.72	1.74	1.73
			Middle																			
	11:58		Bottom	4.4	20.26	20.27	20.27	8.22	8.21	8.22	34.56	34.54	34.55	101.3	101.1	101.2	7.48	7.46	7.47	2.10	2.08	2.09
19/1/2024	14:00	Fine	Surface	1.0	21.04	21.02	21.03	8.27	8.28	8.28	33.70	33.69	33.70	116.9	116.7	116.8	8.52	8.51	8.52	2.08	2.07	2.08
			Middle																			
	14:04		Bottom	4.5	20.02	20.06	20.04	8.13	8.10	8.12	34.77	34.72	34.75	82.7	82.8	82.8	6.12	6.13	6.13	3.00	3.02	3.01

Water Monitoring Result at CR17 - Corals at Sha Tin Hoi South
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	12:29	Cloudy	Surface	1.0	24.05	24.05	24.05	8.60	8.60	8.60	31.00	31.00	31.00	106.6	106.8	106.7	7.52	7.54	7.53	1.35	1.38	1.37
			Middle																			
	12:33		Bottom	4.1	24.00	24.00	24.00	8.60	8.60	8.60	31.50	31.50	31.50	99.9	99.8	99.9	7.02	7.01	7.02	1.21	1.23	1.22
30/11/2023	12:50	Cloudy	Surface	1.0	24.00	24.00	24.00	8.70	8.70	8.70	30.31	30.31	30.31	116.2	116.4	116.3	8.23	8.24	8.24	2.30	2.31	2.31
			Middle																			
	12:54		Bottom	4.2	24.09	24.09	24.09	8.70	8.70	8.70	31.61	31.61	31.61	104.0	104.2	104.1	7.28	7.30	7.29	1.00	1.03	1.02
1/12/2023	15:03	Fine	Surface	1.0	23.72	23.72	23.72	8.50	8.50	8.50	31.11	31.11	31.11	99.0	99.2	99.1	6.99	7.02	7.01	1.30	1.28	1.29
			Middle																			
	15:07		Bottom	4.1	23.66	23.66	23.66	8.61	8.61	8.61	31.17	31.17	31.17	104.2	104.2	104.2	7.38	7.38	7.38	1.05	1.02	1.04
4/12/2023	16:47	Fine	Surface	1.0	23.77	23.77	23.77	8.56	8.54	8.55	31.39	31.37	31.38	112.6	112.9	112.8	7.94	7.98	7.96	1.26	1.24	1.25
			Middle																			
	16:51		Bottom	4.2	23.82	23.82	23.82	8.28	8.25	8.27	32.16	32.19	32.18	68.4	68.7	68.6	4.80	4.83	4.82	0.72	0.70	0.71
6/12/2023	7:12	Cloudy	Surface	1.0	22.90	22.90	22.90	8.78	8.78	8.78	31.08	31.08	31.08	116.6	116.4	116.5	8.38	8.36	8.37	0.78	0.80	0.79
			Middle																			
	7:16		Bottom	4.2	23.40	23.40	23.40	8.58	8.58	8.58	31.80	31.80	31.80	87.5	87.7	87.6	6.20	6.22	6.21	0.62	0.64	0.63
8/12/2023	8:14	Fine	Surface	1.0	22.98	22.98	22.98	8.81	8.81	8.81	31.98	31.98	31.98	102.9	102.7	102.8	7.34	7.32	7.33	0.84	0.86	0.85
			Middle																			
	8:18		Bottom	4.2	23.37	23.37	23.37	8.52	8.52	8.52	32.61	32.61	32.61	61.0	61.2	61.1	4.30	4.32	4.31	0.98	1.00	0.99
11/12/2023	10:56	Cloudy	Surface	1.0	23.67	23.67	23.67	8.78	8.78	8.78	32.02	32.02	32.02	116.7	116.9	116.8	8.22	8.24	8.23	0.47	0.50	0.49
			Middle																			
	11:00		Bottom	5.0	23.45	23.45	23.45	8.59	8.59	8.59	32.20	32.20	32.20	86.7	86.9	86.8	6.13	6.15	6.14	0.85	0.87	0.86
13/12/2023	11:34	Cloudy	Surface	1.0	24.16	24.16	24.16	8.33	8.33	8.33	32.01	32.01	32.01	109.2	109.0	109.1	7.65	7.63	7.64	0.64	0.66	0.65
			Middle																			
	11:38		Bottom	4.0	24.08	24.08	24.08	8.30	8.30	8.30	32.29	32.29	32.29	101.8	101.6	101.7	7.11	7.09	7.10	0.95	0.98	0.97
15/12/2023	14:10	Fine	Surface	1.0	24.01	24.02	24.02	8.35	8.34	8.35	31.33	31.33	31.33	120.7	120.9	120.8	8.50	8.51	8.51	0.26	0.28	0.27
			Middle																			
	14:14		Bottom	4.1	23.70	23.71	23.71	8.03	8.04	8.04	31.95	31.96	31.96	60.9	60.7	60.8	4.29	4.28	4.29	0.89	0.88	0.89
18/12/2023	15:00	Cloudy	Surface	1.0	22.01	22.01	22.01	8.29	8.29	8.29	32.20	32.20	32.20	96.4	96.6	96.5	7.00	7.02	7.01	0.44	0.46	0.45
			Middle																			
	15:04		Bottom	4.1	22.84	22.84	22.84	8.12	8.12	8.12	32.70	32.70	32.70	74.0	74.2	74.1	5.29	5.31	5.30	0.82	0.83	0.83
20/12/2023	8:05	Cloudy	Surface	1.0	21.17	21.15	21.16	8.12	8.14	8.13	33.85	33.83	33.84	87.7	87.4	87.6	6.40	6.37	6.39	1.58	1.56	1.57
			Middle																			
	8:09		Bottom	4.4	21.13	21.12	21.13	8.11	8.09	8.10	33.86	33.89	33.88	88.0	88.2	88.1	6.42	6.44	6.43	1.61	1.63	1.62
22/12/2023	8:29	Cloudy	Surface	1.0	19.20	19.21	19.21	8.07	8.06	8.07	33.97	33.98	33.98	92.3	92.5	92.4	6.96	6.97	6.97	1.75	1.74	1.75
			Middle																			
	8:33		Bottom	4.3	19.24	19.23	19.24	8.06	8.06	8.06	33.90	33.91	33.91	92.1	92.4	92.3	6.96	6.98	6.97	1.75	1.71	1.73
26/12/2023	11:37	Cloudy	Surface	1.0	17.82	17.82	17.82	8.17	8.16	8.17	33.92	33.92	33.92	109.7	109.8	109.8	8.51	8.51	8.51	1.77	1.76	1.77
			Middle																			
	11:41		Bottom	4.5	18.00	18.01	18.01	8.13	8.14	8.14	34.04	34.04	34.04	103.6	103.5	103.6	7.99	7.99	7.99	1.86	1.88	1.87
28/12/2023	9:30	Fine	Surface	1.0	18.41	18.42	18.42	8.17	8.15	8.16	33.97	34.01	33.99	109.4	109.7	109.6	8.38	8.43	8.41	1.58	1.61	1.60
			Middle																			
	9:34		Bottom	4.2	19.00	19.00	19.00	7.98	8.00	7.99	34.59	34.57	34.58	74.4	74.2	74.3	5.61	5.58	5.60	2.88	2.90	2.89
30/12/2023	14:59	Fine	Surface	1.0	19.61	19.63	19.62	8.18	8.16	8.17	33.57	33.55	33.56	117.3	117.0	117.2	8.81	8.76	8.79	1.30	1.26	1.28
			Middle																			
	15:03		Bottom	4.1	19.28	19.29	19.29	8.07	8.04	8.06	34.53	34.51	34.52	89.2	88.8	89.0	6.90	6.84	6.87	1.90	1.94	1.92
2/1/2024	7:15	Fine	Surface	1.0	19.98	19.98	19.98	8.14	8.14	8.14	33.80	33.80	33.80	110.4	110.2	110.3	8.23	8.21	8.22	1.28	1.30	1.29
			Middle																			
	7:19		Bottom	4.3	19.90	19.90	19.90	8.24	8.24	8.24	34.19	34.19	34.19	112.8	113.0	112.9	8.40	8.42	8.41	1.48	1.50	1.49
4/1/2024	16:16	Fine	Surface	1.0	19.34	19.34	19.34	8.22	8.22	8.22	33.64	33.64	33.64	106.9	106.7	106.8	8.07	8.05	8.06	1.58	1.59	1.59
			Middle																			
	16:20		Bottom	4.2	19.43	19.43	19.43	8.21	8.21	8.21	33.69	33.67	33.68	105.9	105.7	105.8	7.96	7.94	7.95	1.53	1.55	1.54
6/1/2024	8:50	Fine	Surface	1.0	19.75	19.73	19.74	8.21	8.18	8.20	33.92	33.85	33.89	112.7	112.5	112.6	8.40	8.38	8.39	1.38	1.41	1.40
			Middle																			
	8:54		Bottom	4.2	19.53	19.56	19.55	7.83	7.85	7.84	34.91	34.94	34.93	52.0	51.8	51.9	3.88	3.86	3.87	3.11	3.13	3.12
8/1/2024	9:21	Fine	Surface	1.0	20.04	20.04	20.04	8.19	8.19	8.19	34.01	34.01	34.01	98.3	98.1	98.2	7.30	7.28	7.29	1.44	1.45	1.45
			Middle																			
	9:25		Bottom	4.3	20.08	20.08	20.08	8.15	8.15	8.15	34.19	34.19	34.19	100.7	100.5	100.6	7.48	7.46	7.47	1.54	1.56	1.55
10/1/2024	11:01	Fine	Surface	1.0	20.33	20.33	20.33	8.24	8.24	8.24	34.25	34.25	34.25	108.7	108.5	108.6	8.02	8.00	8.01	1.32	1.35	1.34
			Middle																			
	11:05		Bottom	4.3	20.04	20.04	20.04	8.22	8.22	8.22	34.42	34.42	34.42	106.0	106.2	106.1	7.86	7.88	7.87	1.61	1.63	1.62
12/1/2024	13:57	Fine	Surface	1.0	20.55	20.56	20.56	8.26	8.23	8.25	33.71	33.75	33.73	119.2	118.7	119.0	8.80	8.71	8.76	1.36	1.39	1.38
			Middle																			
	14:01		Bottom	4.2	19.83	19.81	19.82	8.01	7.98	8.00	34.81	34.83	34.82	63.6	63.4	63.5	4.72	4.69	4.71	2.62	2.60	2.61
15/1/2024	16:28	Fine	Surface	1.0	20.35	20.37	20.36	8.27	8.30	8.29	34.24	34.20	34.22	120.8	120.6	120.7	8.92	8.90	8.91	1.55	1.57	1.56
			Middle																			
	16:32		Bottom	4.2	20.01	20.03	20.02	8.01	8.03	8.02	34.81	34.85	34.83	63.2	63.0	63.1	4.62	4.60	4.61	2.51	2.53	2.52
17/1/2024	18:26	Cloudy	Surface	1.0	20.37	20.33	20.35	8.26	8.24	8.25	34.13	34.11	34.12	112.1	112.3	112.2	8.28	8.30	8.29	1.53	1.51	1.52
			Middle																			
	18:30		Bottom	4.3	20.35	20.33	20.34	8.22	8.21	8.22	34.50	34.52	34.51	102.2	102.1	102.2	7.54	7.52	7.53	2.00	2.02	2.01
19/1/2024	8:33	Fine	Surface	1.0	21.06	21.09	21.08	8.31	8.28	8.30	33.95	33.94	33.95	116.7	116.8	116.8	8.53	8.55	8.54	2.13	2.15	2.14
			Middle																			
	8:37		Bottom	4.2	20.02	20.04	20.03	8.13	8.15	8.14	34.79	34.81	34.80	80.9	81.1	81.0	5.99	6.02	6.01	2.94	2.92	2.93

Water Monitoring Result at G1 - Potential Subzone of Yim Tin Tsai Fish Culture Zone / Gradient Station
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	6:58	Cloudy	Surface	1.0	23.82	23.82	23.82	8.68	8.68	8.68	31.67	31.67	31.67	115.9	115.7	115.8	8.17	8.15	8.16	0.99	1.02	1.01
	7:00		Middle	3.9	23.81	23.81	23.81	8.67	8.67	8.67	31.84	31.84	31.84	111.3	111.4	111.4	7.83	7.84	7.84	0.77	0.75	0.76
	7:02		Bottom	6.7	23.98	23.98	23.98	8.54	8.54	8.54	32.14	32.14	32.14	92.4	92.6	92.5	6.46	6.48	6.47	0.60	0.64	0.62
30/11/2023	8:41	Cloudy	Surface	1.0	24.04	24.04	24.04	8.74	8.74	8.74	31.34	31.34	31.34	124.8	124.6	124.7	8.79	8.77	8.78	1.18	1.20	1.19
	8:43		Middle	3.9	23.95	23.95	23.95	8.71	8.71	8.71	31.87	31.87	31.87	107.6	107.8	107.7	7.52	7.54	7.53	0.67	0.69	0.68
	8:45		Bottom	6.8	23.88	23.88	23.88	8.56	8.56	8.56	32.25	32.25	32.25	84.8	84.6	84.7	5.98	5.96	5.97	0.50	0.52	0.51
1/12/2023	9:48	Fine	Surface	1.0	23.81	23.81	23.81	8.80	8.80	8.80	30.92	30.92	30.92	122.1	122.3	122.2	8.64	8.65	8.65	1.12	1.09	1.11
	9:50		Middle	3.9	23.86	23.86	23.86	8.66	8.66	8.66	31.56	31.56	31.56	113.0	113.2	113.1	7.98	8.00	7.99	0.96	0.98	0.97
	9:52		Bottom	6.7	23.77	23.77	23.77	8.57	8.57	8.57	31.99	31.99	31.99	89.6	89.4	89.5	6.30	6.28	6.29	0.85	0.88	0.87
4/12/2023	8:53	Fine	Surface	1.0	23.20	23.21	23.21	8.66	8.64	8.65	31.34	31.36	31.35	117.1	117.3	117.2	8.34	8.36	8.35	0.95	0.97	0.96
	8:55		Middle	3.6	23.13	23.13	23.13	8.58	8.60	8.59	31.63	31.66	31.65	113.0	112.7	112.9	8.08	8.04	8.06	0.67	0.69	0.68
	8:57		Bottom	6.6	23.63	23.63	23.63	8.24	8.26	8.25	32.57	32.59	32.58	66.7	66.9	66.8	4.70	4.73	4.72	1.49	1.52	1.51
6/12/2023	14:05	Cloudy	Surface	1.0	23.45	23.45	23.45	8.75	8.75	8.75	31.53	31.53	31.53	114.3	114.5	114.4	8.13	8.13	8.13	0.92	0.94	0.93
	14:07		Middle	4.0	23.46	23.46	23.46	8.78	8.78	8.78	31.56	31.56	31.56	114.5	114.6	114.6	8.14	8.14	8.14	0.88	0.89	0.89
	14:09		Bottom	7.0	23.53	23.53	23.53	8.49	8.49	8.49	32.58	32.58	32.58	66.0	66.4	66.2	4.65	4.67	4.66	0.49	0.51	0.50
8/12/2023	15:07	Fine	Surface	1.0	22.80	22.80	22.80	8.85	8.85	8.85	31.84	31.84	31.84	117.8	117.6	117.7	8.43	8.41	8.42	0.75	0.72	0.74
	15:09		Middle	3.9	22.55	22.55	22.55	8.83	8.83	8.83	31.88	31.88	31.88	112.1	112.4	112.3	8.08	8.12	8.10	0.77	0.79	0.78
	15:11		Bottom	6.7	23.38	23.38	23.38	8.47	8.47	8.47	32.77	32.77	32.77	60.3	60.5	60.4	4.25	4.27	4.26	0.70	0.72	0.71
11/12/2023	7:04	Cloudy	Surface	1.0	23.74	23.74	23.74	8.66	8.66	8.66	32.06	32.06	32.06	114.5	114.9	114.7	8.08	8.09	8.09	0.37	0.39	0.38
	7:06		Middle	3.9	23.63	23.63	23.63	8.73	8.73	8.73	32.05	32.05	32.05	117.7	117.5	117.6	8.30	8.28	8.29	0.47	0.50	0.49
	7:08		Bottom	6.7	23.59	23.59	23.59	8.70	8.70	8.70	32.23	32.23	32.23	109.5	109.3	109.4	7.72	7.70	7.71	0.53	0.55	0.54
13/12/2023	7:06	Cloudy	Surface	1.0	24.00	24.00	24.00	8.35	8.35	8.35	32.20	32.20	32.20	111.4	111.2	111.3	7.80	7.78	7.79	0.36	0.38	0.37
	7:08		Middle	3.9	23.99	23.99	23.99	8.34	8.34	8.34	32.20	32.20	32.20	110.9	110.7	110.8	7.77	7.75	7.76	0.54	0.55	0.55
	7:10		Bottom	6.7	23.93	23.93	23.93	8.32	8.32	8.32	32.28	32.28	32.28	105.8	105.6	105.7	7.42	7.40	7.41	0.82	0.83	0.83
15/12/2023	10:06	Fine	Surface	1.0	24.00	24.01	24.01	8.28	8.29	8.29	31.25	31.26	31.26	119.2	119.6	119.4	8.40	8.42	8.41	0.15	0.16	0.16
	10:08		Middle	3.9	23.74	23.73	23.74	8.29	8.28	8.29	31.66	31.67	31.67	107.3	107.7	107.5	7.56	7.52	7.54	0.06	0.05	0.06
	10:10		Bottom	6.7	23.54	23.56	23.55	8.05	8.04	8.05	32.05	32.04	32.05	71.8	71.3	71.6	5.06	5.03	5.05	0.08	0.09	0.09
18/12/2023	11:05	Cloudy	Surface	1.0	22.34	22.34	22.34	8.23	8.23	8.23	32.63	32.63	32.63	90.0	89.8	89.9	6.47	6.45	6.46	0.38	0.40	0.39
	11:07		Middle	3.9	22.34	22.34	22.34	8.23	8.23	8.23	32.63	32.63	32.63	89.7	89.5	89.6	6.45	6.42	6.44	0.47	0.48	0.48
	11:09		Bottom	6.7	22.35	22.35	22.35	8.22	8.22	8.22	32.64	32.64	32.64	88.0	87.9	88.0	6.32	6.30	6.31	0.59	0.60	0.60
20/12/2023	14:25	Cloudy	Surface	1.0	21.38	21.37	21.38	8.07	8.06	8.07	34.11	34.13	34.12	88.2	88.0	88.1	6.41	6.40	6.41	1.51	1.50	1.51
	14:27		Middle	3.9	21.41	21.44	21.43	8.08	8.09	8.09	34.19	34.21	34.20	86.2	86.4	86.3	6.24	6.25	6.25	1.47	1.46	1.47
	14:29		Bottom	6.8	21.49	21.50	21.50	8.13	8.15	8.14	34.22	34.24	34.23	86.1	85.7	85.9	6.20	6.18	6.19	1.63	1.66	1.65
22/12/2023	15:04	Cloudy	Surface	1.0	19.46	19.47	19.47	8.08	8.07	8.08	34.03	34.05	34.04	95.2	95.5	95.4	7.15	7.17	7.16	1.66	1.63	1.65
	15:06		Middle	3.9	19.49	19.49	19.49	8.06	8.06	8.06	34.06	34.07	34.07	94.9	94.9	94.9	7.13	7.13	7.13	1.77	1.75	1.76
	15:08		Bottom	6.7	19.46	19.47	19.47	8.05	8.06	8.06	34.05	34.06	34.06	94.7	94.5	94.6	7.11	7.10	7.11	1.75	1.74	1.75
26/12/2023	6:53	Cloudy	Surface	1.0	18.11	18.12	18.12	8.17	8.17	8.17	34.02	34.01	34.02	107.6	107.9	107.8	8.29	8.30	8.30	2.28	2.29	2.29
	6:55		Middle	3.8	18.42	18.43	18.43	8.14	8.13	8.14	34.19	34.17	34.18	105.8	105.3	105.6	8.09	8.05	8.07	2.17	2.14	2.16
	6:57		Bottom	6.7	18.45	18.45	18.45	8.10	8.11	8.11	34.23	34.22	34.23	98.6	98.7	98.7	7.50	7.51	7.51	2.41	2.40	2.41
28/12/2023	14:03	Fine	Surface	1.0	18.69	18.69	18.69	8.08	8.09	8.09	33.98	33.99	33.99	109.1	108.9	109.0	8.31	8.29	8.30	1.37	1.39	1.38
	14:05		Middle	3.9	18.95	18.96	18.96	8.07	8.06	8.07	34.57	34.54	34.56	90.5	89.9	90.2	6.83	6.78	6.81	1.72	1.74	1.73
	14:07		Bottom	6.8	18.97	18.97	18.97	8.09	8.07	8.08	34.90	34.88	34.89	88.7	88.5	88.6	6.68	6.66	6.67	1.81	1.84	1.83
30/12/2023	10:38	Fine	Surface	1.0	19.26	19.28	19.27	8.21	8.24	8.23	33.86	33.89	33.88	114.3	114.2	114.3	8.63	8.60	8.62	1.21	1.24	1.23
	10:40		Middle	3.8	19.15	19.17	19.16	8.20	8.18	8.19	34.26	34.21	34.24	108.9	109.9	109.4	8.24	8.30	8.27	1.27	1.29	1.28
	10:42		Bottom	6.7	19.14	19.12	19.13	8.11	8.09	8.10	34.69	34.67	34.68	97.8	98.0	97.9	7.39	7.43	7.41	1.54	1.56	1.55
2/1/2024	14:51	Fine	Surface	1.0	19.70	19.70	19.70	8.10	8.10	8.10	34.23	34.23	34.23	108.7	108.5	108.6	8.12	8.10	8.11	1.54	1.56	1.55
	14:53		Middle	4.0	19.62	19.62	19.62	8.23	8.23	8.23	34.28	34.28	34.28	109.5	109.3	109.4	8.19	8.17	8.18	1.70	1.72	1.71
	14:55		Bottom	7.0	19.50	19.50	19.50	8.22	8.22	8.22	34.50	34.50	34.50	107.2	107.0	107.1	8.01	7.99	8.00	1.74	1.76	1.75
4/1/2024	12:36	Fine	Surface	1.0	19.59	19.59	19.59	8.13	8.13	8.13	34.00	34.00	34.00	109.3	109.5	109.4	8.20	8.22	8.21	1.75	1.77	1.76
	12:38		Middle	3.9	19.47	19.47	19.47	8.21	8.21	8.21	34.12	34.12	34.12	108.4	108.6	108.5	8.15	8.17	8.16	1.34	1.36	1.35
	12:40		Bottom	6.8	19.46	19.48	19.47	8.19	8.19	8.19	34.33	34.33	34.33	102.9	103.1	103.0	7.72	7.75	7.74	1.36	1.38	1.37
6/1/2024	15:22	Fine	Surface	1.0	19.72	19.74	19.73	8.23	8.24	8.24	34.10	34.08	34.09	112.9	112.6	112.8	8.42	8.37	8.40	1.18	1.15	1.17
	15:24		Middle	3.9	19.67	19.63	19.65	8.18	8.16	8.17	34.41	34.44	34.43	104.5	104.8	104.7	7.79	7.82	7.81	1.28	1.26	1.27
	15:26		Bottom	6.8	19.31	19.30	19.31	8.16	8.14	8.15	34.88	34.85	34.87	101.2	100.7	101.0	7.63	7.58	7.61	1.31	1.33	1.32
8/1/2024	14:54	Fine	Surface	1.0	20.00	20.00	20.00	8.17	8.17	8.17	34.16	34.16	34.16	108.6	108.4	108.5	8.07	8.05	8.06	1.00	0.98	0.99
	14:56		Middle	4.0	19.87	19.87	19.87	8.21	8.21	8.21	34.25	34.25	34.25	107.5	107.7	107.6	8.01	8.03	8.02	0.99	1.01	1.00
	14:58		Bottom	7.0	19.62	19.62	19.62	8.20	8.20	8.20	34.60	34.60	34.60	103.0	103.2	103.1	7.68	7.70	7.69	1.02	1.04	1.03
10/1/2024	15:42	Fine	Surface	1.0	20.33	20.33	20.33	8.20	8.20	8.20	34.32	34.32	34.32	107.0	107.2	107.1	7.90	7.92	7.91	1.15	1.17	1.16
	15:44		Middle	4.0	20.00	20.00	20.00	8.20	8.20	8.20	34.56	34.56	34.56	103.0	103.2	103.1	7.64	7.66	7.65	1.30	1.31	1.31
	15:46		Bottom	7.0	20.00	20.00	20.00	8.19	8.19	8.19	34.55	34.55	34.55	100.8	101.0	100.9	7.48	7.50	7.49	1.41	1.42	1.42
12/1/2024	20:00	Fine	Surface	1.0	20.54	20.56	20.55	8.25	8.27	8.26	34.05	34.03	34.04	114.3	114.6	114.5	8.41	8.46	8.44	1.22	1.24	1.23
	20:02		Middle	3.9	20.08	20.10	20.09	8.18	8.16	8.17	34.62	34.60	34.61	101.1	101.3	101.2	7.49	7.52	7.51	1.28	1.29	1.29
	20:04		Bottom	6.9	19.85	19.82	19.84	8.16	8.15	8.16	34.81	34.83	34.82	97.7	97.3	97.5	7.28	7.20	7.24	1.73	1.71	1.72
15/1/2024	11:13	Fine	Surface	1.0	21.19	21.22	21.21	8.29	8.27	8.28	33.47	33.45	33.46	120.9	121.4	121.2	8.84	8.87	8.86	1.54	1.56	1.55
	11:15		Middle	4.0	20.34	20.36	20.35	8.29	8.30	8.30	34.22	34.25	34.24	114.7	115.2	115.0	8.47	8.51	8.49	1.33	1.31	1.32
	11:17		Bottom	7.0	19.88	19.87	19.88	8.16	8.17	8.17	34.84	34.82	34.83	90.4	90.6	90.5	6.71	6.73	6.72	1.58	1.60	1.59
17/1/2024	11:41	Cloudy	Surface	1.0	20.30	20.33	20.32	8.27	8.25	8.26	34.35	34.33	34.34	110.5	110.7	110.6	8.16	8.18	8.17	1.66	1.68	1.67
	11:43		Middle	3.9	20.25	20.24	20.25	8.26	8.24	8.25	34.43	34.49	34.46	106.9	106.7	106.8	7.89	7.86	7.88	1.77	1.75	1.76
	11:45		Bottom	6.8	20.20	20.19	20.20	8.23	8.21	8.22	34.66	34.65	34.66	101.8	101.3	101.6	7.51	7.48	7.50	2.22	2.21	2.22
19/1/2024	14:20	Fine	Surface	1.0	21.37	21.39	21.38	8.29	8.28	8.29	33.91	33.89	33.90	112.1	112.4	112.3	8.15	8.17	8.16	1.39	1.37	1.38
	14:22		Middle	4.0	20.39	20.40	20.40	8.24	8.23	8.24	34.61	34.62	34.62	101.1	101.3	101.2	7.45	7.46	7.46	1.49	1.51	1.50
	14:24		Bottom	7.0	20.06	20.04	20.05	8.14	8.16	8.15	34.85	34.87	34.86	75.4	74.0	74.7	5.52	5.48	5.50	1.93	2.01	1.97

Water Monitoring Result at G1 - Potential Subzone of Yim Tin Tsai Fish Culture Zone / Gradient Station
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	12:51	Cloudy	Surface	1.0	23.85	23.85	23.85	8.70	8.70	8.70	31.84	31.84	31.84	114.3	114.5	114.4	8.01	8.03	8.02	1.00	1.05	1.03
	12:53		Middle	3.8	23.82	23.82	23.82	8.69	8.69	8.69	31.85	31.85	31.85	111.5	111.3	111.4	7.85	7.83	7.84	0.74	0.76	0.75
	12:55		Bottom	6.5	23.99	23.99	23.99	8.53	8.53	8.53	32.11	32.11	32.11	93.2	93.0	93.1	6.54	6.52	6.53	0.59	0.62	0.61
30/11/2023	12:29	Cloudy	Surface	1.0	24.00	24.00	24.00	8.79	8.79	8.79	31.46	31.46	31.46	122.7	123.0	122.9	8.66	8.69	8.68	1.15	1.17	1.16
	12:31		Middle	3.9	23.90	23.90	23.90	8.66	8.66	8.66	31.91	31.91	31.91	100.2	100.4	100.3	7.06	7.08	7.07	0.67	0.69	0.68
	12:33		Bottom	6.7	23.86	23.86	23.86	8.57	8.57	8.57	32.25	32.25	32.25	86.9	86.7	86.8	6.08	6.06	6.07	0.54	0.56	0.55
1/12/2023	14:40	Fine	Surface	1.0	23.82	23.89	23.86	8.65	8.65	8.65	30.87	30.87	30.87	119.6	119.8	119.7	8.48	8.50	8.49	1.08	1.10	1.09
	14:42		Middle	3.8	23.89	23.89	23.89	8.69	8.69	8.69	31.53	31.53	31.53	116.6	116.8	116.7	8.20	8.22	8.21	0.94	0.96	0.95
	14:44		Bottom	6.5	23.87	23.87	23.87	8.48	8.48	8.48	32.20	32.20	32.20	79.6	79.8	79.7	5.53	5.55	5.54	0.62	0.64	0.63
4/12/2023	17:11	Fine	Surface	1.0	23.30	23.30	23.30	8.61	8.63	8.62	31.24	31.27	31.26	120.0	119.7	119.9	8.55	8.51	8.53	1.00	1.02	1.01
	17:13		Middle	3.8	23.12	23.13	23.13	8.60	8.64	8.62	31.63	31.68	31.66	113.4	113.7	113.6	8.02	8.08	8.05	0.68	0.70	0.69
	17:15		Bottom	6.5	23.63	23.62	23.63	8.25	8.22	8.24	32.57	32.50	32.54	68.2	67.8	68.0	4.83	4.76	4.80	1.37	1.42	1.40
6/12/2023	7:33	Cloudy	Surface	1.0	23.44	23.44	23.44	8.71	8.71	8.71	31.54	31.54	31.54	113.5	113.7	113.6	8.06	8.07	8.07	0.90	0.85	0.88
	7:35		Middle	3.8	23.46	23.46	23.46	8.77	8.77	8.77	31.57	31.57	31.57	113.9	114.0	114.0	8.07	8.08	8.08	0.89	0.90	0.90
	7:37		Bottom	6.5	23.56	23.56	23.56	8.47	8.47	8.47	32.60	32.58	32.59	65.7	65.5	65.6	4.62	4.60	4.61	0.53	0.55	0.54
8/12/2023	8:34	Fine	Surface	1.0	22.77	22.77	22.77	8.91	8.91	8.91	31.85	31.85	31.85	117.6	117.4	117.5	8.42	8.40	8.41	0.72	0.74	0.73
	8:36		Middle	3.8	22.54	22.54	22.54	8.83	8.83	8.83	31.87	31.87	31.87	111.5	111.7	111.6	8.03	8.05	8.04	0.73	0.75	0.74
	8:38		Bottom	6.5	23.35	23.35	23.35	8.45	8.45	8.45	32.77	32.77	32.77	61.9	61.7	61.8	4.35	4.33	4.34	0.66	0.68	0.67
11/12/2023	10:36	Cloudy	Surface	1.0	23.71	23.71	23.71	8.71	8.71	8.71	32.06	32.06	32.06	115.2	115.4	115.3	8.11	8.13	8.12	0.35	0.36	0.36
	10:38		Middle	3.8	23.62	23.62	23.62	8.73	8.73	8.73	32.05	32.05	32.05	118.1	117.9	118.0	8.33	8.31	8.32	0.51	0.54	0.53
	10:40		Bottom	6.5	23.47	23.47	23.47	8.60	8.60	8.60	32.43	32.43	32.43	97.1	96.9	97.0	6.85	6.83	6.84	0.63	0.66	0.65
13/12/2023	11:54	Cloudy	Surface	1.0	24.00	24.00	24.00	8.37	8.37	8.37	32.11	32.11	32.11	114.7	114.5	114.6	8.04	8.02	8.03	0.43	0.44	0.44
	11:56		Middle	3.8	24.01	24.01	24.01	8.35	8.35	8.35	32.21	32.21	32.21	111.6	111.4	111.5	7.81	7.79	7.80	0.51	0.52	0.52
	11:58		Bottom	6.5	23.91	23.91	23.91	8.31	8.31	8.31	32.34	32.34	32.34	104.2	104.0	104.1	7.30	7.29	7.30	0.75	0.77	0.76
15/12/2023	14:44	Fine	Surface	1.0	24.00	24.01	24.01	8.29	8.30	8.30	31.26	31.25	31.26	117.9	118.4	118.2	8.30	8.34	8.32	0.19	0.21	0.20
	14:46		Middle	3.9	23.69	23.76	23.73	8.22	8.23	8.23	31.62	31.63	31.63	102.5	102.9	102.7	7.24	7.27	7.26	0.10	0.12	0.11
	14:48		Bottom	6.8	23.53	23.54	23.54	8.02	8.03	8.03	32.07	32.08	32.08	66.8	66.9	66.9	4.72	4.72	4.72	0.08	0.09	0.09
18/12/2023	15:20	Cloudy	Surface	1.0	22.31	22.31	22.31	8.24	8.24	8.24	32.64	32.64	32.64	91.4	91.6	91.5	6.57	6.59	6.58	0.41	0.42	0.42
	15:22		Middle	3.8	22.33	22.33	22.33	8.23	8.23	8.23	32.63	32.63	32.63	90.1	90.3	90.2	6.47	6.49	6.48	0.50	0.51	0.51
	15:24		Bottom	6.5	22.34	22.34	22.34	8.23	8.23	8.23	32.64	32.64	32.64	88.8	90.0	89.4	6.38	6.40	6.39	0.67	0.68	0.68
20/12/2023	8:26	Cloudy	Surface	1.0	21.37	21.38	21.38	8.05	8.03	8.04	34.18	34.17	34.18	90.9	90.7	90.8	6.58	6.58	6.58	1.71	1.68	1.70
	8:28		Middle	3.9	21.40	21.41	21.41	8.03	8.01	8.02	34.20	34.22	34.21	88.5	88.3	88.4	6.41	6.39	6.40	1.73	1.75	1.74
	8:30		Bottom	6.7	21.39	21.38	21.39	8.04	8.05	8.05	34.16	34.14	34.15	88.1	88.2	88.2	6.37	6.38	6.38	1.81	1.83	1.82
22/12/2023	8:55	Cloudy	Surface	1.0	19.39	19.38	19.39	8.06	8.07	8.07	33.98	33.98	33.98	98.8	98.4	98.6	7.42	7.40	7.41	1.88	1.87	1.88
	8:57		Middle	3.9	19.47	19.48	19.48	8.03	8.02	8.03	34.03	34.02	34.03	96.0	96.2	96.1	7.21	7.23	7.22	1.83	1.84	1.84
	8:59		Bottom	6.7	19.47	19.47	19.47	8.03	8.04	8.04	34.04	34.03	34.04	95.1	95.4	95.3	7.14	7.16	7.15	1.61	1.60	1.61
26/12/2023	12:02	Cloudy	Surface	1.0	18.16	18.17	18.17	8.16	8.15	8.16	34.06	34.05	34.06	107.3	107.7	107.5	8.26	8.29	8.28	2.18	2.17	2.18
	12:04		Middle	3.8	18.30	18.31	18.31	8.14	8.15	8.15	34.14	34.13	34.14	104.4	104.8	104.6	8.01	8.05	8.03	2.14	2.13	2.14
	12:06		Bottom	6.6	18.45	18.46	18.46	8.07	8.08	8.08	34.22	34.23	34.23	97.2	97.6	97.4	7.44	7.46	7.45	2.53	2.50	2.52
28/12/2023	9:51	Fine	Surface	1.0	18.86	18.86	18.86	8.09	8.11	8.10	34.40	34.41	34.41	102.0	101.9	102.0	7.76	7.74	7.75	1.48	1.50	1.49
	9:53		Middle	3.9	19.00	19.00	19.00	8.05	8.03	8.04	34.60	34.63	34.62	88.1	87.7	87.9	6.66	6.62	6.64	1.87	1.85	1.86
	9:55		Bottom	6.7	19.00	18.99	19.00	8.06	8.04	8.05	34.93	34.97	34.95	87.4	87.0	87.2	6.59	6.54	6.57	2.01	1.98	2.00
30/12/2023	15:20	Fine	Surface	1.0	19.25	19.28	19.27	8.23	8.24	8.24	34.04	34.07	34.06	113.9	113.6	113.8	8.57	8.51	8.54	1.18	1.14	1.16
	15:22		Middle	3.8	19.20	19.19	19.20	8.20	8.17	8.19	34.24	34.27	34.26	113.2	112.9	113.1	8.50	8.46	8.48	1.24	1.22	1.23
	15:24		Bottom	6.6	19.16	19.17	19.17	8.14	8.11	8.13	34.72	34.75	34.74	101.0	100.6	100.8	7.59	7.54	7.57	1.57	1.62	1.60
2/1/2024	7:35	Fine	Surface	1.0	19.73	19.73	19.73	8.11	8.11	8.11	34.22	34.22	34.22	108.4	108.2	108.3	8.10	8.08	8.09	1.65	1.67	1.66
	7:37		Middle	3.9	19.61	19.61	19.61	8.22	8.22	8.22	34.31	34.31	34.31	108.4	108.8	108.6	8.18	8.26	8.22	1.65	1.67	1.66
	7:39		Bottom	6.8	19.58	19.58	19.58	8.14	8.14	8.14	34.56	34.56	34.56	108.3	108.0	108.2	8.08	8.05	8.07	1.77	1.79	1.78
4/1/2024	16:36	Fine	Surface	1.0	19.58	19.58	19.58	8.18	8.18	8.18	33.99	33.99	33.99	109.0	109.1	109.1	8.17	8.18	8.18	1.52	1.54	1.53
	16:38		Middle	3.7	19.43	19.43	19.43	8.22	8.22	8.22	34.11	34.11	34.11	108.0	108.2	108.1	7.10	7.12	7.11	1.47	1.49	1.48
	16:40		Bottom	6.4	19.44	19.44	19.44	8.18	8.18	8.18	34.41	34.41	34.41	102.6	102.8	102.7	7.68	7.69	7.69	1.58	1.60	1.59
6/1/2024	9:11	Fine	Surface	1.0	19.76	19.73	19.75	8.23	8.21	8.22	34.01	34.03	34.02	109.6	109.4	109.5	8.19	8.16	8.18	1.19	1.17	1.18
	9:13		Middle	3.8	19.60	19.62	19.61	8.17	8.14	8.16	34.33	34.36	34.35	102.9	103.2	103.1	7.67	7.71	7.69	1.28	1.26	1.27
	9:15		Bottom	6.7	19.26	19.23	19.25	8.15	8.13	8.14	34.87	34.82	34.85	96.8	96.7	96.8	7.26	7.25	7.26	1.33	1.36	1.35
8/1/2024	9:41	Fine	Surface	1.0	19.99	19.99	19.99	8.11	8.11	8.11	34.15	34.15	34.15	108.2	108.4	108.3	8.05	8.07	8.06	0.97	0.99	0.98
	9:43		Middle	3.7	19.87	19.87	19.87	8.20	8.20	8.20	34.26	34.26	34.26	108.0	107.8	107.9	8.03	8.01	8.02	0.92	0.94	0.93
	9:45		Bottom	6.4	19.63	19.63	19.63	8.19	8.19	8.19	34.60	34.60	34.60	103.4	103.5	103.5	7.72	7.73	7.73	1.00	1.02	1.01
10/1/2024	11:21	Fine	Surface	1.0	20.31	20.31	20.31	8.17	8.17	8.17	34.32	34.32	34.32	106.9	106.7	106.8	7.89	7.87	7.88	1.17	1.20	1.19
	11:23		Middle	3.8	20.29	20.29	20.29	8.21	8.21	8.21	34.32	34.32	34.32	102.6	102.8	102.7	7.60	7.62	7.61	1.20	1.21	1.21
	11:25		Bottom	6.6	19.95	19.95	19.95	8.19	8.19	8.19	34.56	34.56	34.56	100.4	100.2	100.3	7.45	7.43	7.44	1.40	1.42	1.41
12/1/2024	14:18	Fine	Surface	1.0	20.49	20.51	20.50	8.23	8.21	8.22	34.18	34.16	34.17	111.3	111.5	111.4	8.20	8.22	8.21	1.26	1.28	1.27
	14:20		Middle	3.8	19.94	19.99	19.97	8.18	8.20	8.19	34.61	34.63	34.62	100.2	100.4	100.3	7.41	7.44	7.43	1.32	1.31	1.32
	14:22		Bottom	6.7	19.83	19.85	19.84	8.17	8.16	8.17	34.77	34.74	34.76	96.0	96.2	96.1	7.13	7.15	7.14	1.62	1.64	1.63
15/1/2024	16:49	Fine	Surface	1.0	21.15	21.14	21.15	8.30	8.31	8.31	33.64	33.65	33.65	125.1	125.3	125.2	9.14	9.16	9.15	1.48	1.46	1.47
	16:51		Middle	3.7	20.35	20.38	20.37	8.29	8.27	8.28	34.24	34.29	34.27	118.8	119.1	119.0	8.78	8.80	8.79	1.33	1.35	1.34
	16:53		Bottom	6.4	19.93	19.91	19.92	8.16	8.14	8.15	34.85	34.83	34.84	96.6	96.0	96.3	7.13	7.11	7.12	1.50	1.48	1.49
17/1/2024	18:47	Cloudy	Surface	1.0	20.36	20.38	20.37	8.29	8.27	8.28	34.34	34.35	34.35	111.0	109.6	110.3	8.20	8.16	8.18	1.71	1.73	1.72
	18:49		Middle	3.8	20.28	20.26	20.27	8.26	8.25	8.26	34.44	34.46	34.45	107.2	107.1	107.2	7.91	7.89	7.90	1.79	1.81	1.80
	18:51		Bottom	6.7	20.25	20.23	20.24	8.24	8.22	8.23	34.50	34.52	34.51	102.9	103.1	103.0	7.60	7.62	7.61	1.94	1.96	1.95
19/1/2024	8:53	Fine	Surface	1.0	21.42	21.44	21.43	8.28	8.25	8.27	33.93	33.95	33.94	115.3	115.5	115.4	8.36	8.38	8.37	1.40	1.38	1.39
	8:55		Middle	3.8	20.34	20.36	20.35	8.24	8.22	8.23	34.62	34.64	34.63	101.6	101.7	101.7	7.49	7.51	7.50	1.52	1.54	1.53
	8:57		Bottom	6.6	20.16	20.14	20.15	8.20	8.18	8.19	34.79	34.77	34.78	91.0	90.4	90.7	6.73	6.68	6.71	1.88	1.86	1.87

Water Monitoring Result at CR9 - Gruff Head Corals (Control Station)
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	8:00	Cloudy	Surface	1.0	23.61	23.61	23.61	8.56	8.56	8.56	32.54	32.54	32.54	101.2	101.3	101.3	7.12	7.13	7.13	1.38	1.40	1.39
	8:02		Middle	11.0	23.62	23.62	23.62	8.60	8.60	8.60	32.71	32.71	32.71	94.0	94.4	94.2	6.61	6.65	6.63	0.56	0.58	0.57
	8:04		Bottom	21.0	23.60	23.60	23.60	8.60	8.60	8.60	32.73	32.73	32.73	90.4	90.6	90.5	6.35	6.37	6.36	0.88	0.89	0.89
30/11/2023	9:34	Cloudy	Surface	1.0	23.66	23.66	23.66	8.43	8.43	8.43	32.32	32.32	32.32	100.6	100.4	100.5	7.06	7.04	7.05	0.53	0.54	0.54
	9:36		Middle	12.0	23.69	23.69	23.69	8.43	8.43	8.43	32.41	32.41	32.41	95.1	95.3	95.2	6.68	6.70	6.69	0.60	0.62	0.61
	9:38		Bottom	23.0	23.73	23.73	23.73	8.40	8.40	8.40	32.50	32.50	32.50	87.6	87.9	87.8	6.16	6.19	6.18	0.74	0.75	0.75
1/12/2023	11:00	Fine	Surface	1.0	23.51	23.51	23.51	8.50	8.50	8.50	32.35	32.35	32.35	95.0	95.3	95.2	6.70	6.73	6.72	0.72	0.74	0.73
	11:02		Middle	11.5	23.54	23.54	23.54	8.52	8.52	8.52	32.43	32.43	32.43	92.8	93.0	92.9	6.54	6.56	6.55	0.61	0.60	0.61
	11:04		Bottom	22.0	23.54	23.54	23.54	8.51	8.51	8.51	32.57	32.57	32.57	87.0	87.2	87.1	6.15	6.17	6.16	1.03	1.05	1.04
4/12/2023	9:52	Fine	Surface	1.0	23.39	23.40	23.40	8.41	8.45	8.43	32.27	32.25	32.26	103.9	103.6	103.8	7.35	7.31	7.33	0.40	0.42	0.41
	9:54		Middle	12.0	23.10	23.11	23.11	8.46	8.48	8.47	32.18	32.16	32.17	110.0	110.3	110.2	7.83	7.88	7.86	0.70	0.73	0.72
	9:56		Bottom	23.0	23.23	23.24	23.24	8.41	8.43	8.42	32.42	32.46	32.44	89.0	88.4	88.7	6.44	6.38	6.41	1.83	1.80	1.82
6/12/2023	15:12	Cloudy	Surface	1.0	23.14	23.14	23.14	8.60	8.60	8.60	32.27	32.27	32.27	103.4	103.6	103.5	7.34	7.36	7.35	0.44	0.45	0.45
	15:14		Middle	11.0	23.41	23.41	23.41	8.58	8.58	8.58	32.27	32.27	32.27	92.2	92.5	92.4	6.52	6.55	6.54	0.51	0.55	0.53
	15:16		Bottom	21.0	23.22	23.22	23.22	8.49	8.49	8.49	32.90	32.90	32.90	78.1	78.4	78.3	5.54	5.57	5.56	1.41	1.38	1.40
8/12/2023	16:10	Fine	Surface	1.0	22.71	22.71	22.71	8.75	8.75	8.75	32.18	32.18	32.18	101.4	101.6	101.5	7.28	7.30	7.29	0.41	0.44	0.43
	16:12		Middle	12.0	23.01	23.01	23.01	8.61	8.61	8.61	32.84	32.84	32.84	84.9	85.1	85.0	6.02	6.03	6.03	0.44	0.46	0.45
	16:14		Bottom	23.0	22.90	22.90	22.90	8.57	8.57	8.57	32.97	32.97	32.97	82.5	82.4	82.5	5.86	5.85	5.86	0.49	0.50	0.50
11/12/2023	8:00	Cloudy	Surface	1.0	23.73	23.73	23.73	8.61	8.61	8.61	32.33	32.33	32.33	104.8	104.6	104.7	7.37	7.35	7.36	0.40	0.42	0.41
	8:02		Middle	12.0	23.49	23.49	23.49	8.63	8.63	8.63	32.38	32.38	32.38	101.8	101.6	101.7	7.18	7.16	7.17	0.34	0.32	0.33
	8:04		Bottom	23.0	23.30	23.30	23.30	8.46	8.46	8.46	32.86	32.86	32.86	75.0	74.8	74.9	5.30	5.28	5.29	0.33	0.35	0.34
13/12/2023	8:58	Cloudy	Surface	1.0	23.82	23.82	23.82	8.30	8.30	8.30	32.79	32.79	32.79	106.3	106.1	106.2	7.46	7.44	7.45	0.40	0.41	0.41
	9:00		Middle	11.0	23.81	23.81	23.81	8.30	8.30	8.30	32.79	32.79	32.79	105.0	105.1	105.1	7.35	7.36	7.36	0.55	0.56	0.56
	9:02		Bottom	21.0	23.77	23.77	23.77	8.29	8.29	8.29	32.79	32.79	32.79	104.3	104.1	104.2	7.31	7.29	7.30	0.84	0.89	0.87
15/12/2023	11:19	Fine	Surface	1.0	23.83	23.82	23.83	8.21	8.21	8.21	31.72	31.74	31.73	109.7	109.8	109.8	7.73	7.73	7.73	0.15	0.14	0.15
	11:21		Middle	12.0	23.35	23.35	23.35	8.10	8.11	8.11	32.11	32.10	32.11	87.7	87.8	87.8	6.21	6.22	6.22	0.12	0.14	0.13
	11:23		Bottom	23.0	23.13	23.14	23.14	8.10	8.09	8.10	32.28	32.29	32.29	84.4	84.2	84.3	5.99	5.98	5.99	0.18	0.19	0.19
18/12/2023	12:04	Cloudy	Surface	1.0	22.04	22.04	22.04	8.25	8.25	8.25	32.67	32.67	32.67	94.9	95.0	95.0	6.86	6.87	6.87	0.43	0.44	0.44
	12:06		Middle	12.0	22.12	22.12	22.12	8.23	8.23	8.23	32.76	32.76	32.76	91.2	91.4	91.3	6.58	6.60	6.59	0.50	0.51	0.51
	12:08		Bottom	23.0	22.14	22.14	22.14	8.22	8.22	8.22	32.85	32.85	32.85	91.1	91.3	91.2	6.57	6.60	6.59	0.69	0.70	0.70
20/12/2023	15:21	Cloudy	Surface	1.0	21.21	21.23	21.22	8.15	8.14	8.15	34.07	34.11	34.09	93.6	93.1	93.4	6.80	6.76	6.78	1.40	1.39	1.40
	15:23		Middle	11.8	21.53	21.57	21.55	8.21	8.20	8.21	34.22	34.20	34.21	85.0	85.3	85.2	6.13	6.17	6.15	1.24	1.20	1.22
	15:25		Bottom	22.6	21.79	21.80	21.80	8.11	8.08	8.10	34.28	34.29	34.29	83.1	82.7	82.9	5.91	5.86	5.89	1.22	1.25	1.24
22/12/2023	16:10	Cloudy	Surface	1.0	20.18	20.18	20.18	8.03	8.04	8.04	34.38	34.38	34.38	92.0	91.8	91.9	6.81	6.80	6.81	1.42	1.43	1.43
	16:12		Middle	12.0	20.15	20.16	20.16	8.04	8.04	8.04	34.39	34.39	34.39	90.5	90.6	90.6	6.70	6.70	6.70	1.49	1.48	1.49
	16:14		Bottom	23.0	20.17	20.18	20.18	8.05	8.04	8.05	34.38	34.38	34.38	89.9	89.7	89.8	6.65	6.64	6.65	1.52	1.54	1.53
26/12/2023	7:56	Cloudy	Surface	1.0	17.95	17.96	17.96	8.19	8.18	8.19	33.65	33.66	33.66	110.9	110.8	110.9	8.60	8.59	8.60	1.18	1.21	1.20
	7:58		Middle	12.0	19.00	19.01	19.01	8.05	8.05	8.05	34.86	34.88	34.87	90.7	90.6	90.7	6.83	6.83	6.83	1.74	1.73	1.74
	8:00		Bottom	23.0	19.13	19.12	19.13	8.04	8.03	8.04	34.90	34.91	34.91	89.1	89.3	89.2	6.73	6.74	6.74	1.82	1.81	1.82
28/12/2023	14:56	Fine	Surface	1.0	18.69	18.69	18.69	8.15	8.19	8.17	34.20	34.18	34.19	108.5	108.9	108.7	8.25	8.30	8.28	2.00	1.98	1.99
	14:58		Middle	11.8	18.81	18.80	18.81	8.12	8.14	8.13	34.76	34.78	34.77	98.7	98.5	98.6	7.47	7.44	7.46	1.64	1.69	1.67
	15:00		Bottom	22.6	18.79	18.78	18.79	8.14	8.15	8.15	35.01	34.99	35.00	91.4	91.8	91.6	6.91	6.95	6.93	2.29	2.39	2.34
30/12/2023	11:32	Fine	Surface	1.0	19.02	19.04	19.03	8.16	8.19	8.18	34.58	34.54	34.56	105.7	106.1	105.9	7.98	8.02	8.00	1.40	1.42	1.41
	11:34		Middle	12.0	18.93	18.87	18.90	8.10	8.08	8.09	34.90	34.91	34.91	99.1	99.3	99.2	7.48	7.51	7.50	1.54	1.56	1.55
	11:36		Bottom	22.3	18.81	18.82	18.82	8.12	8.14	8.13	35.02	35.01	35.02	93.2	93.6	93.4	7.05	7.09	7.07	1.74	1.77	1.76
2/1/2024	15:48	Fine	Surface	1.0	19.27	19.27	19.27	8.14	8.14	8.14	34.76	34.76	34.76	109.4	109.6	109.5	8.17	8.19	8.18	1.57	1.60	1.59
	15:50		Middle	12.0	19.27	19.27	19.27	8.18	8.18	8.18	34.76	34.76	34.76	105.7	106.0	105.9	7.93	7.96	7.95	1.60	1.62	1.61
	15:52		Bottom	23.0	19.11	19.11	19.11	8.17	8.17	8.17	34.83	34.83	34.83	100.9	101.1	101.0	7.60	7.62	7.61	1.87	1.89	1.88
4/1/2024	13:35	Fine	Surface	1.0	19.16	19.16	19.16	8.06	8.06	8.06	34.64	34.64	34.64	105.3	105.5	105.4	7.93	7.95	7.94	1.11	1.13	1.12
	13:37		Middle	11.9	19.21	19.21	19.21	8.15	8.15	8.15	34.64	34.64	34.64	105.7	105.5	105.6	7.95	7.93	7.94	1.08	1.10	1.09
	13:39		Bottom	22.8	19.02	19.02	19.02	8.18	8.18	8.18	34.62	34.62	34.62	104.6	104.4	104.5	7.89	7.87	7.88	1.13	1.15	1.14
6/1/2024	16:15	Fine	Surface	1.0	19.89	19.88	19.89	8.23	8.21	8.22	33.97	33.92	33.95	112.7	112.6	112.7	8.44	8.42	8.43	1.15	1.13	1.14
	16:17		Middle	11.0	19.33	19.39	19.36	8.18	8.16	8.17	34.60	34.64	34.62	102.2	102.7	102.5	7.68	7.74	7.71	1.72	1.75	1.74
	16:19		Bottom	21.2	18.95	18.97	18.96	8.09	8.06	8.08	35.17	35.18	35.18	90.8	90.6	90.7	6.84	6.82	6.83	1.65	1.63	1.64
8/1/2024	15:49	Fine	Surface	1.0	19.70	19.70	19.70	8.15	8.15	8.15	34.58	34.58	34.58	105.8	105.6	105.7	7.89	7.87	7.88	0.88	0.91	0.90
	15:51		Middle	11.7	19.32	19.32	19.32	8.15	8.15	8.15	34.80	34.80	34.80	98.5	98.3	98.4	7.39	7.37	7.38	1.19	1.21	1.20
	15:53		Bottom	22.4	19.25	19.25	19.25	8.15	8.15	8.15	34.83	34.83	34.83	96.2	96.4	96.3	7.22	7.24	7.23	1.58	1.60	1.59
10/1/2024	16:38	Fine	Surface	1.0	20.15	20.15	20.15	8.20	8.20	8.20	34.45	34.45	34.45	103.6	103.3	103.5	7.67	7.64	7.66	1.22	1.24	1.23
	16:40		Middle	11.8	20.00	20.00	20.00	8.19	8.19	8.19	34.55	34.55	34.55	101.8	102.0	101.9	7.55	7.58	7.57	1.36	1.39	1.38
	16:42		Bottom	22.6	20.02	20.02	20.02	8.19	8.19	8.19	34.56	34.56	34.56	100.8	100.6	100.7	7.47	7.45	7.46	1.46	1.48	1.47
12/1/2024	20:54	Fine	Surface	1.0	20.52	20.53	20.53	8.24	8.23	8.24	33.97	33.95	33.96	115.0	115.2	115.1	8.48	8.50	8.49	1.54	1.56	1.55
	20:56		Middle	12.0	20.24	20.26	20.25	8.22	8.21	8.22	34.32	34.30	34.31	108.8	108.6	108.7	8.04	8.02	8.03	1.45	1.47	1.46
	20:58		Bottom	24.0	19.85	19.87	19.86	8.19	8.20	8.20	34.81	34.85	34.83	100.1	99.4	99.8	7.43	7.36	7.40	1.54	1.56	1.55
15/1/2024	12:09	Fine	Surface	1.0	20.92	20.91	20.92	8.24	8.25	8.25	33.41	33.40	33.41	117.9	118.2	118.1	8.67	8.70	8.69	1.46	1.48	1.47
	12:11		Middle	11.6	20.12	20.10	20.11	8.21	8.20	8.21	34.61	34.62	34.62	107.9	107.7	107.8	7.91	7.88	7.90	1.41	1.38	1.40
	12:13		Bottom	22.2	19.64	19.67	19.66	8.18	8.19	8.19	34.98	34.96	34.97	92.3	91.6	92.0	6.88	6.80	6.84	2.07	2.09	2.08
17/1/2024	12:36	Cloudy	Surface	1.0	20.27	20.30	20.29	8.27	8.29	8.28	34.53	34.55	34.54	107.7	107.8	107.8	7.94	7.95	7.95	2.08	2.12	2.10
	12:38		Middle	11.9	20.12	20.10	20.11	8.23	8.20	8.22	34.67	34.71	34.69	104.4	104.5	104.5	7.64	7.65	7.65	2.19	2.24	2.22
	12:40		Bottom	22.8	20.00	20.02	20.01	8.19	8.18	8.19	34.82	34.85	34.84	95.6	95.9	95.8	7.07	7.11	7.09	2.45	2.43	2.44
19/1/2024	15:16	Fine	Surface	1.0	20.28	20.27	20.28	8.26	8.24	8.25	34.39	34.37	34.38	109.3	109.4	109.4	8.06	8.07	8.07	1.52	1.51	1.52
	15:18		Middle	11.5	20.01	20.00	20.01	8.21	8.20	8.21	34.89	34.90	34.90	95.1	95.3	95.2	7.04	7.06	7.05	1.74	1.72	1.73
	15:20		Bottom	22.0	19.75	19.77	19.76	8.15	8.14	8.15	35.03	34.98	35.01	89.6	90.1	89.9	6.68	6.74	6.71	2.23	2.25	2.24

FUGRO

Water Monitoring Result at CR9 - Gruff Head Corals (Control Station)
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	13:59	Cloudy	Surface	1.0	23.62	23.62	23.62	8.60	8.60	8.60	32.55	32.55	32.55	100.0	100.4	100.2	7.00	7.04	7.02	1.43	1.44	1.44
	14:01		Middle	10.0	23.63	23.63	23.63	8.61	8.61	8.61	32.72	32.72	32.72	95.6	95.7	95.7	6.77	6.78	6.78	0.60	0.62	0.61
	14:03		Bottom	19.0	23.62	23.62	23.62	8.61	8.61	8.61	32.72	32.72	32.72	90.0	89.7	89.9	6.31	6.29	6.30	0.92	0.90	0.91
30/11/2023	11:37	Cloudy	Surface	1.0	23.66	23.66	23.66	8.45	8.45	8.45	32.33	32.33	32.33	98.6	98.8	98.7	6.86	6.88	6.87	0.50	0.53	0.52
	11:39		Middle	12.0	23.69	23.69	23.69	8.45	8.45	8.45	32.44	32.44	32.44	94.8	94.9	94.9	6.65	6.66	6.66	0.54	0.58	0.56
	11:41		Bottom	23.0	23.63	23.63	23.63	8.42	8.42	8.42	32.55	32.55	32.55	85.8	85.6	85.7	6.03	6.01	6.02	0.64	0.65	0.65
1/12/2023	13:30	Fine	Surface	1.0	23.50	23.50	23.50	8.50	8.50	8.50	32.36	32.36	32.36	95.2	95.4	95.3	6.72	6.74	6.73	0.83	0.80	0.82
	13:32		Middle	10.5	23.34	23.34	23.34	8.49	8.49	8.49	32.36	32.36	32.36	89.2	89.4	89.3	6.31	6.33	6.32	1.05	1.03	1.04
	13:34		Bottom	20.0	23.54	23.54	23.54	8.47	8.47	8.47	32.58	32.58	32.58	86.4	86.6	86.5	6.08	6.10	6.09	1.12	1.14	1.13
4/12/2023	18:12	Fine	Surface	1.0	23.42	23.42	23.42	8.47	8.49	8.48	32.28	32.31	32.30	104.4	105.0	104.7	7.38	7.43	7.41	0.38	0.35	0.37
	18:14		Middle	9.5	23.12	23.13	23.13	8.46	8.50	8.48	32.27	32.33	32.30	111.8	112.3	112.1	8.01	8.06	8.04	1.34	1.36	1.35
	18:16		Bottom	18.0	23.25	23.25	23.25	8.35	8.33	8.34	32.56	32.59	32.58	80.7	80.4	80.6	5.71	5.66	5.69	2.10	2.08	2.09
6/12/2023	8:47	Cloudy	Surface	1.0	23.11	23.11	23.11	8.60	8.60	8.60	32.25	32.25	32.25	103.1	103.5	103.3	7.33	7.35	7.34	0.39	0.42	0.41
	8:49		Middle	11.0	23.40	23.40	23.40	8.57	8.57	8.57	32.27	32.27	32.27	92.0	92.4	92.2	6.50	6.54	6.52	0.43	0.45	0.44
	8:51		Bottom	21.0	23.22	23.22	23.22	8.48	8.48	8.48	32.89	32.89	32.89	77.4	77.2	77.3	5.47	5.45	5.46	1.30	1.31	1.31
8/12/2023	9:34	Fine	Surface	1.0	22.73	22.73	22.73	8.77	8.77	8.77	32.20	32.20	32.20	102.1	102.3	102.2	7.34	7.36	7.35	0.50	0.54	0.52
	9:36		Middle	11.5	23.02	23.02	23.02	8.62	8.62	8.62	32.80	32.80	32.80	85.4	85.6	85.5	6.06	6.08	6.07	0.51	0.53	0.52
	9:38		Bottom	22.0	22.89	22.89	22.89	8.53	8.53	8.53	32.97	32.97	32.97	82.8	82.5	82.7	5.88	5.85	5.87	0.46	0.49	0.48
11/12/2023	9:43	Cloudy	Surface	1.0	23.77	23.77	23.77	8.60	8.60	8.60	32.34	32.34	32.34	105.0	105.2	105.1	7.37	7.39	7.38	0.30	0.34	0.32
	9:45		Middle	11.5	23.54	23.54	23.54	8.63	8.63	8.63	32.38	32.38	32.38	103.1	102.9	103.0	7.27	7.25	7.26	0.34	0.35	0.35
	9:47		Bottom	22.0	23.26	23.26	23.26	8.45	8.45	8.45	32.82	32.82	32.82	72.2	72.0	72.1	5.10	5.08	5.09	0.35	0.38	0.37
13/12/2023	12:52	Cloudy	Surface	1.0	23.81	23.81	23.81	8.30	8.30	8.30	32.79	32.79	32.79	106.2	106.4	106.3	7.43	7.45	7.44	0.69	0.67	0.68
	12:54		Middle	11.5	23.81	23.81	23.81	8.30	8.30	8.30	32.79	32.79	32.79	105.4	105.2	105.3	7.39	7.59	7.49	0.74	0.73	0.74
	12:56		Bottom	22.0	23.76	23.76	23.76	8.29	8.29	8.29	32.79	32.79	32.79	103.8	103.6	103.7	7.28	7.26	7.27	0.95	0.96	0.96
15/12/2023	15:52	Fine	Surface	1.0	23.77	23.76	23.77	8.22	8.21	8.22	31.83	31.82	31.83	109.2	109.4	109.3	7.70	7.71	7.71	0.11	0.12	0.12
	15:54		Middle	11.5	23.40	23.41	23.41	8.09	8.09	8.09	32.10	32.08	32.09	88.3	88.1	88.2	6.25	6.24	6.25	0.14	0.16	0.15
	15:56		Bottom	22.0	23.11	23.10	23.11	8.08	8.09	8.09	32.19	32.20	32.20	84.0	83.5	83.8	5.97	5.95	5.96	0.15	0.14	0.15
18/12/2023	16:17	Cloudy	Surface	1.0	22.04	22.04	22.04	8.24	8.24	8.24	32.66	32.66	32.66	96.1	95.9	96.0	6.98	6.96	6.97	0.43	0.44	0.44
	16:19		Middle	11.8	21.09	21.09	21.09	8.24	8.24	8.24	32.76	32.76	32.76	93.0	93.2	93.1	6.70	6.72	6.71	0.55	0.56	0.56
	16:21		Bottom	22.5	22.16	22.16	22.16	8.22	8.22	8.22	32.84	32.84	32.84	90.7	90.5	90.6	6.55	6.53	6.54	0.71	0.70	0.71
20/12/2023	9:20	Cloudy	Surface	1.0	21.42	21.44	21.43	8.10	8.12	8.11	34.18	34.20	34.19	88.0	88.3	88.2	6.39	6.41	6.40	1.28	1.26	1.27
	9:22		Middle	12.0	21.43	21.47	21.45	8.14	8.16	8.15	34.26	34.21	34.24	89.7	90.0	89.9	6.48	6.50	6.49	1.30	1.31	1.31
	9:24		Bottom	22.3	21.38	21.36	21.37	8.15	8.11	8.13	34.28	34.29	34.29	87.3	87.1	87.2	6.32	6.30	6.31	1.42	1.44	1.43
22/12/2023	10:01	Cloudy	Surface	1.0	20.11	20.11	20.11	8.05	8.05	8.05	34.36	34.35	34.36	92.3	92.0	92.2	6.83	6.81	6.82	1.71	1.70	1.71
	10:03		Middle	12.0	20.12	20.12	20.12	8.02	8.03	8.03	34.33	34.34	34.34	89.9	90.2	90.1	6.65	6.67	6.66	2.02	2.03	2.03
	10:05		Bottom	23.0	20.13	20.14	20.14	8.05	8.06	8.06	34.36	34.37	34.37	89.3	89.0	89.2	6.62	6.61	6.62	1.90	1.91	1.91
26/12/2023	12:56	Cloudy	Surface	1.0	17.67	17.68	17.68	8.19	8.19	8.19	33.33	33.32	33.33	108.4	108.5	108.5	8.48	8.49	8.49	1.28	1.29	1.29
	12:58		Middle	12.0	18.98	18.99	18.99	8.05	8.04	8.05	34.77	34.78	34.78	90.5	90.7	90.6	6.85	6.86	6.86	1.93	1.95	1.94
	13:00		Bottom	23.0	19.15	19.15	19.15	8.03	8.03	8.03	34.90	34.90	34.90	89.5	89.7	89.6	6.77	6.79	6.78	1.71	1.74	1.73
28/12/2023	10:47	Fine	Surface	1.0	18.72	18.72	18.72	8.14	8.12	8.13	34.22	34.19	34.21	108.4	108.6	108.5	8.25	8.27	8.26	1.67	1.64	1.66
	10:49		Middle	12.0	18.86	18.86	18.86	8.09	8.07	8.08	34.81	34.80	34.81	94.6	94.2	94.4	7.15	7.11	7.13	1.60	1.58	1.59
	10:51		Bottom	23.0	18.78	18.79	18.79	8.09	8.13	8.11	35.08	35.14	35.11	90.9	90.6	90.8	6.87	6.85	6.86	2.32	2.36	2.34
30/12/2023	16:13	Fine	Surface	1.0	19.07	19.10	19.09	8.17	8.21	8.19	34.42	34.40	34.41	105.3	105.1	105.2	7.94	7.90	7.92	1.39	1.42	1.41
	16:15		Middle	11.0	18.94	18.99	18.97	8.15	8.17	8.16	34.89	34.84	34.87	99.0	98.9	99.0	7.47	7.45	7.46	1.55	1.57	1.56
	16:17		Bottom	21.0	18.88	18.86	18.87	8.11	8.10	8.11	35.03	35.05	35.04	94.2	94.0	94.1	7.11	7.07	7.09	1.75	1.78	1.77
2/1/2024	8:36	Fine	Surface	1.0	19.28	19.28	19.28	8.11	8.11	8.11	34.76	34.76	34.76	109.3	109.5	109.4	8.16	8.18	8.17	1.56	1.58	1.57
	8:38		Middle	11.3	19.21	19.21	19.21	8.16	8.16	8.16	34.78	34.78	34.78	105.3	105.6	105.5	7.91	7.94	7.93	1.57	1.60	1.59
	8:40		Bottom	21.6	19.12	19.12	19.12	8.17	8.17	8.17	34.81	34.81	34.81	102.4	102.6	102.5	7.70	7.72	7.71	1.77	1.79	1.78
4/1/2024	17:35	Fine	Surface	1.0	19.24	19.24	19.24	8.12	8.12	8.12	34.63	34.63	34.63	105.8	106.0	105.9	7.95	7.97	7.96	1.11	1.13	1.12
	17:37		Middle	11.0	19.11	19.11	19.11	8.17	8.17	8.17	34.63	34.63	34.63	105.2	105.5	105.4	7.92	7.94	7.93	1.15	1.18	1.17
	17:39		Bottom	21.0	19.08	19.08	19.08	8.19	8.19	8.19	34.63	34.63	34.63	104.8	105.0	104.9	7.90	7.92	7.91	1.13	1.15	1.14
6/1/2024	10:05	Fine	Surface	1.0	19.93	19.90	19.92	8.19	8.17	8.18	33.96	33.98	33.97	111.0	111.3	111.2	8.27	8.31	8.29	1.18	1.21	1.20
	10:07		Middle	12.0	19.15	19.17	19.16	8.16	8.17	8.17	34.92	34.94	34.93	94.0	93.6	93.8	7.07	7.00	7.04	1.80	1.76	1.78
	10:09		Bottom	22.3	18.94	18.97	18.96	8.13	8.15	8.14	35.17	35.20	35.19	93.3	93.5	93.4	7.02	7.05	7.04	1.53	1.56	1.55
8/1/2024	10:39	Fine	Surface	1.0	19.68	19.68	19.68	8.10	8.10	8.10	34.57	34.57	34.57	105.3	105.1	105.2	7.86	7.84	7.85	0.92	0.95	0.94
	10:41		Middle	11.2	19.39	19.39	19.39	8.15	8.15	8.15	34.77	34.77	34.77	101.0	101.2	101.1	7.55	7.57	7.56	1.24	1.25	1.25
	10:43		Bottom	21.4	19.29	19.29	19.29	8.16	8.16	8.16	34.80	34.80	34.80	95.7	95.9	95.8	7.19	7.21	7.20	1.55	1.57	1.56
10/1/2024	12:17	Fine	Surface	1.0	20.20	20.20	20.20	8.21	8.21	8.21	34.41	34.41	34.41	104.1	104.2	104.2	7.71	7.72	7.72	1.19	1.20	1.20
	12:19		Middle	11.0	19.99	19.99	19.99	8.19	8.19	8.19	34.55	34.55	34.55	102.0	102.3	102.2	7.57	7.60	7.59	1.31	1.34	1.33
	12:21		Bottom	21.0	20.03	20.03	20.03	8.19	8.19	8.19	34.54	34.54	34.54	101.0	101.2	101.1	7.50	7.52	7.51	1.40	1.41	1.41
12/1/2024	15:12	Fine	Surface	1.0	20.57	20.55	20.56	8.24	8.20	8.22	33.84	33.86	33.85	114.9	115.0	115.0	8.47	8.49	8.48	1.55	1.57	1.56
	15:14		Middle	12.0	20.20	20.17	20.19	8.21	8.22	8.22	34.50	34.54	34.52	107.5	107.8	107.7	7.94	7.96	7.95	1.45	1.46	1.46
	15:16		Bottom	22.3	19.80	19.78	19.79	8.19	8.17	8.18	34.81	34.80	34.81	100.9	100.7	100.8	7.50	7.47	7.49	1.54	1.56	1.55
15/1/2024	17:48	Fine	Surface	1.0	20.81	20.83	20.82	8.30	8.28	8.29	33.54	33.56	33.55	120.7	120.4	120.6	8.88	8.83	8.86	1.42	1.38	1.40
	17:50		Middle	11.5	20.13	20.16	20.15	8.24	8.20	8.22	34.67	34.69	34.68	108.2	107.7	108.0	7.99	7.91	7.95	1.30	1.28	1.29
	17:52		Bottom	22.0	20.01	20.03	20.02	8.21	8.23	8.22	33.81	33.83	33.82	106.1	106.4	106.3	7.85	7.87	7.86	1.37	1.34	1.36
17/1/2024	19:43	Cloudy	Surface	1.0	20.23	20.21	20.22	8.25	8.26	8.26	34.52	34.54	34.53	107.9	108.2	108.1	7.97	8.00	7.99	2.07	2.05	2.06
	19:45		Middle	11.3	20.09	20.07	20.08	8.23	8.22	8.23	34.69	34.66	34.68	102.9	103.0	103.0	7.60	7.61	7.61	2.23	2.28	2.26
	19:47		Bottom	21.6	19.97	19.99	19.98	8.18	8.17	8.18	34.83	34.82	34.83	94.0	94.2	94.1	6.96	6.98	6.97	2.53	2.55	2.54
19/1/2024	9:48	Fine	Surface	1.0	20.31	20.30	20.31	8.27	8.25	8.26	34.41	34.43	34.42	109.1	109.2	109.2	8.06	8.07	8.07	1.57	1.55	1.56
	9:50		Middle	11.0	19.91	19.93	19.92	8.20	8.21	8.21	34.90	34.92	34.91	94.6	94.2	94.4	7.00	6.96	6.98	1.79	1.82	1.81
	9:52		Bottom	21.0	19.66	19.64	19.65	8.18	8.17	8.18	35.06	35.03	35.05	89.3	89.1	89.2	6.64	6.61	6.63	2.11	2.09	2.10

Water Monitoring Result at G1* -Gradient Station
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	5:25	Cloudy	Surface	1.0	24.16	24.16	24.16	8.68	8.68	8.68	31.45	31.45	31.45	115.4	115.6	115.5	8.09	8.11	8.10	1.21	1.23	1.22
			Middle																			
	5:29		Bottom	4.8	24.04	24.04	24.04	8.78	8.78	8.78	31.47	31.47	31.47	117.2	117.4	117.3	8.23	8.25	8.24	0.83	0.84	0.84
30/11/2023	7:14	Cloudy	Surface	1.0	24.05	24.05	24.05	8.89	8.89	8.89	31.62	31.62	31.62	112.6	112.4	112.5	7.92	7.90	7.91	0.94	0.96	0.95
			Middle																			
	7:18		Bottom	4.9	24.05	24.05	24.05	8.56	8.56	8.56	32.41	32.41	32.41	60.5	60.7	60.6	4.26	4.28	4.27	0.92	0.94	0.93
1/12/2023	8:13	Fine	Surface	1.0	24.04	24.04	24.04	8.90	8.90	8.90	31.47	31.50	31.49	113.6	113.8	113.7	7.98	8.00	7.99	1.24	1.26	1.25
			Middle																			
	8:17		Bottom	4.8	24.12	24.12	24.12	8.87	8.87	8.87	31.64	31.64	31.64	107.0	107.4	107.2	7.50	7.54	7.52	0.94	0.98	0.96
4/12/2023	7:19	Fine	Surface	1.0	23.58	23.59	23.59	8.92	8.91	8.92	30.82	30.84	30.83	102.3	102.2	102.3	7.24	7.22	7.23	1.28	1.30	1.29
			Middle																			
	7:23		Bottom	4.8	23.87	23.88	23.88	8.45	8.47	8.46	32.43	32.49	32.46	46.3	46.6	46.5	3.17	3.22	3.20	1.59	1.57	1.58
6/12/2023	12:43	Cloudy	Surface	1.0	23.80	23.82	23.81	8.87	8.87	8.87	31.90	31.90	31.90	112.2	112.5	112.4	7.81	7.84	7.83	1.20	1.19	1.20
			Middle																			
	12:47		Bottom	4.8	23.65	23.79	23.72	8.72	8.71	8.72	32.35	32.33	32.34	60.2	60.4	60.3	4.22	4.24	4.23	0.80	0.82	0.81
8/12/2023	13:44	Fine	Surface	1.0	22.94	22.94	22.94	9.14	9.14	9.14	32.06	32.06	32.06	96.5	96.8	96.7	6.80	6.83	6.82	0.70	0.72	0.71
			Middle																			
	13:48		Bottom	4.8	23.05	23.05	23.05	8.95	8.95	8.95	32.25	32.25	32.25	78.6	78.9	78.8	5.60	5.63	5.62	0.81	0.84	0.83
11/12/2023	5:43	Cloudy	Surface	1.0	23.78	23.78	23.78	8.96	8.96	8.96	31.88	31.88	31.88	119.3	119.6	119.5	8.40	8.42	8.41	0.64	0.65	0.65
			Middle																			
	5:47		Bottom	4.8	23.42	23.42	23.42	8.94	8.94	8.94	32.15	32.15	32.15	93.5	93.8	93.7	6.62	6.65	6.64	0.71	0.73	0.72
13/12/2023	5:43	Cloudy	Surface	1.0	24.40	24.40	24.40	8.30	8.30	8.30	32.09	32.09	32.09	112.6	112.4	112.5	7.82	7.82	7.82	0.48	0.49	0.49
			Middle																			
	5:47		Bottom	4.8	24.39	24.39	24.39	8.30	8.30	8.30	32.06	32.06	32.06	106.1	106.3	106.2	7.39	7.41	7.40	0.70	0.71	0.71
15/12/2023	7:09	Fine	Surface	1.0	24.04	24.03	24.04	8.26	8.25	8.26	31.31	31.30	31.31	110.5	110.6	110.6	7.77	7.78	7.78	0.29	0.28	0.29
			Middle																			
	7:13		Bottom	4.8	23.48	23.49	23.49	7.97	7.98	7.98	32.10	32.12	32.11	65.5	65.7	65.6	4.63	4.65	4.64	0.25	0.26	0.26
18/12/2023	9:43	Cloudy	Surface	1.0	22.55	22.55	22.55	8.11	8.11	8.11	32.73	32.73	32.73	79.6	79.4	79.5	5.70	5.68	5.69	0.57	0.60	0.59
			Middle																			
	9:47		Bottom	4.8	22.56	22.56	22.56	8.09	8.09	8.09	32.77	32.77	32.77	77.4	77.2	77.3	5.54	5.52	5.53	0.66	0.68	0.67
20/12/2023	12:59	Cloudy	Surface	1.0	21.37	21.35	21.36	8.09	8.11	8.10	34.29	34.30	34.30	87.0	86.8	86.9	6.30	6.27	6.29	1.41	1.40	1.41
			Middle																			
	13:03		Bottom	4.9	21.39	21.38	21.39	8.12	8.13	8.13	34.33	34.35	34.34	86.4	86.6	86.5	6.25	6.28	6.27	1.43	1.47	1.45
22/12/2023	13:17	Cloudy	Surface	1.0	19.92	19.92	19.92	8.03	8.02	8.03	34.26	34.26	34.26	87.3	87.5	87.4	6.49	6.50	6.50	1.61	1.60	1.61
			Middle																			
	13:21		Bottom	4.8	19.93	19.92	19.93	8.00	8.01	8.01	34.26	34.26	34.26	87.5	87.7	87.6	6.51	6.52	6.52	1.68	1.67	1.68
26/12/2023	5:23	Cloudy	Surface	1.0	18.19	18.18	18.19	7.87	7.86	7.87	34.11	34.13	34.12	101.2	101.5	101.4	7.75	7.77	7.76	1.96	1.89	1.93
			Middle																			
	5:27		Bottom	4.8	18.28	18.27	18.28	7.95	7.95	7.95	34.15	34.16	34.16	98.5	98.3	98.4	7.56	7.55	7.56	1.95	1.96	1.96
28/12/2023	12:39	Fine	Surface	1.0	18.96	18.97	18.97	8.05	8.04	8.05	33.66	33.68	33.67	112.5	112.3	112.4	8.55	8.53	8.54	1.34	1.36	1.35
			Middle																			
	12:43		Bottom	4.9	18.79	18.79	18.79	8.06	8.08	8.07	34.24	34.27	34.26	99.7	99.5	99.6	7.57	7.54	7.56	1.51	1.53	1.52
30/12/2023	9:15	Fine	Surface	1.0	19.64	19.64	19.64	8.14	8.15	8.15	33.88	33.89	33.89	116.0	116.3	116.2	8.70	8.72	8.71	1.11	1.13	1.12
			Middle																			
	9:19		Bottom	4.9	19.24	19.27	19.26	8.08	8.06	8.07	34.60	34.58	34.59	88.7	88.5	88.6	6.67	6.64	6.66	1.75	1.77	1.76
2/1/2024	13:27	Fine	Surface	1.0	19.90	19.90	19.90	8.20	8.20	8.20	34.15	34.17	34.16	108.9	108.7	108.8	8.11	8.09	8.10	1.68	1.70	1.69
			Middle																			
	13;31		Bottom	4.9	19.93	19.93	19.93	8.24	8.24	8.24	34.09	34.09	34.09	109.4	109.6	109.5	8.12	8.14	8.13	1.71	1.73	1.72
4/1/2024	11:13	Fine	Surface	1.0	19.66	19.66	19.66	8.03	8.03	8.03	34.08	34.08	34.08	107.1	107.3	107.2	8.02	8.05	8.04	1.43	1.45	1.44
			Middle																			
	11:17		Bottom	4.8	19.88	19.88	19.88	8.11	8.11	8.11	34.40	34.40	34.40	106.8	106.6	106.7	7.95	7.93	7.94	1.25	1.28	1.27
6/1/2024	13:55	Fine	Surface	1.0	20.29	20.27	20.28	8.17	8.15	8.16	33.89	33.92	33.91	115.5	115.6	115.6	8.55	8.57	8.56	1.42	1.45	1.44
			Middle																			
	13:59		Bottom	4.9	19.33	19.36	19.35	8.03	8.05	8.04	34.90	34.88	34.89	75.2	75.0	75.1	5.63	5.61	5.62	2.95	2.91	2.93
8/1/2024	13:32	Fine	Surface	1.0	20.27	20.27	20.27	8.23	8.23	8.23	33.93	33.93	33.93	108.8	108.6	108.7	8.06	8.04	8.05	1.22	1.24	1.23
			Middle																			
	13:36		Bottom	4.9	20.11	20.11	20.11	8.21	8.21	8.21	34.09	34.09	34.09	106.9	106.7	106.8	7.92	7.90	7.91	1.62	1.64	1.63
10/1/2024	14:18	Fine	Surface	1.0	20.88	20.88	20.88	8.23	8.23	8.23	33.91	33.91	33.91	115.0	115.2	115.1	8.45	8.47	8.46	1.60	1.62	1.61
			Middle																			
	14:22		Bottom	4.8	20.31	20.31	20.31	8.23	8.23	8.23	34.31	34.31	34.31	112.8	112.6	112.7	8.31	8.29	8.30	1.43	1.45	1.44
12/1/2024	18:35	Fine	Surface	1.0	20.70	20.71	20.71	8.18	8.15	8.17	33.56	33.58	33.57	114.5	114.1	114.3	8.42	8.37	8.40	1.56	1.58	1.57
			Middle																			
	18:39		Bottom	4.9	19.68	19.72	19.70	8.01	7.99	8.00	34.90	34.86	34.88	75.1	74.6	74.9	5.60	5.54	5.57	5.50	5.52	5.51
15/1/2024	9:50	Fine	Surface	1.0	20.70	20.71	20.71	8.08	8.07	8.08	33.89	33.90	33.90	117.6	117.5	117.6	8.64	8.62	8.63	1.91	1.90	1.91
			Middle																			
	9:54		Bottom	4.9	19.77	19.75	19.76	8.06	8.07	8.07	34.88	34.84	34.86	86.4	86.1	86.3	6.41	6.39	6.40	2.48	2.51	2.50
17/1/2024	11:21	Cloudy	Surface	1.0	20.50	20.51	20.51	8.17	8.16	8.17	34.11	34.13	34.12	111.1	111.0	111.1	8.19	8.17	8.18	1.79	1.77	1.78
			Middle																			
	11:25		Bottom	4.9	20.01	20.04	20.03	8.19	8.18	8.19	34.71	34.73	34.72	97.9	97.6	97.8	7.24	7.21	7.23	1.90	1.94	1.92
19/1/2024	12:57	Fine	Surface	1.0	20.92	20.93	20.93	8.22	8.24	8.23	34.19	34.20	34.20	110.6	110.4	110.5	8.08	8.05	8.07	1.67	1.69	1.68
			Middle																			
	13:01		Bottom	4.8	19.95	19.96	19.96	8.09	8.08	8.09	34.84	34.86	34.85	80.7	80.6	80.7	5.98	5.96	5.97	2.49	2.51	2.50

Water Monitoring Result at G1* -Gradient Station
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	11:26	Cloudy	Surface	1.0	24.18	24.18	24.18	8.66	8.66	8.66	31.45	31.45	31.45	114.4	115.1	114.8	8.04	8.06	8.05	1.30	1.29	1.30
			Middle																			
	11:30		Bottom	4.6	24.06	24.06	24.06	8.77	8.77	8.77	31.46	31.46	31.46	117.8	117.9	117.9	8.29	8.30	8.30	0.90	0.92	0.91
30/11/2023	13:53	Cloudy	Surface	1.0	24.05	24.05	24.05	8.90	8.90	8.90	31.64	31.64	31.64	112.4	112.6	112.5	7.90	7.92	7.91	1.00	1.04	1.02
			Middle																			
	13:54		Bottom	4.8	24.05	24.05	24.05	8.56	8.56	8.56	32.41	32.41	32.41	60.9	61.1	61.0	4.30	4.32	4.31	1.01	1.04	1.03
1/12/2023	16:12	Fine	Surface	1.0	24.10	24.10	24.10	8.86	8.86	8.86	31.45	31.45	31.45	115.2	115.4	115.3	8.09	8.11	8.10	1.24	1.26	1.25
			Middle																			
	16:16		Bottom	4.7	24.13	24.13	24.13	8.88	8.88	8.88	31.64	31.64	31.64	106.3	106.5	106.4	7.45	7.47	7.46	0.91	0.93	0.92
4/12/2023	15:40	Fine	Surface	1.0	23.62	23.62	23.62	8.90	8.88	8.89	30.83	30.85	30.84	104.0	103.6	103.8	7.36	7.33	7.35	1.27	1.30	1.29
			Middle																			
	15:44		Bottom	4.7	23.89	23.88	23.89	8.41	8.43	8.42	32.43	32.47	32.45	42.6	42.4	42.5	3.01	2.98	3.00	1.59	1.62	1.61
6/12/2023	6:11	Cloudy	Surface	1.0	23.75	23.75	23.75	8.99	8.99	8.99	31.70	31.70	31.70	115.5	115.7	115.6	8.15	8.17	8.16	1.53	1.55	1.54
			Middle																			
	6:15		Bottom	4.7	23.82	23.82	23.82	8.64	8.64	8.64	32.38	32.38	32.38	54.8	54.6	54.7	3.85	3.83	3.84	0.88	0.90	0.89
8/12/2023	7:13	Fine	Surface	1.0	22.90	22.90	22.90	9.17	9.17	9.17	32.04	32.04	32.04	101.4	101.2	101.3	7.25	7.23	7.24	0.68	0.70	0.69
			Middle																			
	7:17		Bottom	4.7	23.05	23.05	23.05	9.03	9.03	9.03	32.23	32.23	32.23	77.9	78.2	78.1	5.55	5.58	5.57	0.74	0.76	0.75
11/12/2023	11:58	Cloudy	Surface	1.0	23.78	23.78	23.78	8.97	8.97	8.97	31.88	31.88	31.88	121.3	121.5	121.4	8.55	8.57	8.56	0.65	0.66	0.66
			Middle																			
	12:02		Bottom	4.6	23.42	23.42	23.42	8.94	8.94	8.94	32.17	32.17	32.17	96.4	96.6	96.5	6.82	6.84	6.83	0.90	0.93	0.92
13/12/2023	10:32	Cloudy	Surface	1.0	24.37	24.37	24.37	8.29	8.29	8.29	32.11	32.11	32.11	111.0	110.8	110.9	7.72	7.70	7.71	0.51	0.52	0.52
			Middle																			
	10:36		Bottom	4.6	24.43	24.43	24.43	8.31	8.31	8.31	32.01	32.01	32.01	108.9	108.7	108.8	7.58	7.56	7.57	0.74	0.75	0.75
15/12/2023	12:12	Fine	Surface	1.0	24.01	24.02	24.02	8.23	8.24	8.24	31.32	31.33	31.33	111.2	111.4	111.3	7.81	7.82	7.82	0.43	0.42	0.43
			Middle																			
	12:16		Bottom	4.7	23.42	23.43	23.43	7.99	8.00	8.00	32.08	32.07	32.08	65.9	66.2	66.1	4.66	4.67	4.67	0.34	0.32	0.33
18/12/2023	13:53	Cloudy	Surface	1.0	22.57	22.57	22.57	8.07	8.07	8.07	32.71	32.71	32.71	76.4	76.2	76.3	5.47	5.45	5.46	0.54	0.56	0.55
			Middle																			
	13:57		Bottom	4.6	22.57	22.57	22.57	8.08	8.08	8.08	32.73	32.73	32.73	78.2	78.4	78.3	5.59	5.61	5.60	0.63	0.65	0.64
20/12/2023	6:59	Cloudy	Surface	1.0	21.30	21.30	21.30	8.04	8.02	8.03	34.22	34.26	34.24	89.5	89.4	89.5	6.49	6.47	6.48	1.46	1.44	1.45
			Middle																			
	7:03		Bottom	4.8	21.30	21.32	21.31	8.04	8.07	8.06	34.26	34.25	34.26	87.0	86.8	86.9	6.31	6.29	6.30	1.47	1.49	1.48
22/12/2023	6:49	Cloudy	Surface	1.0	19.89	19.90	19.90	7.77	7.77	7.77	34.26	34.26	34.26	90.1	90.0	90.1	6.70	6.69	6.70	1.78	1.76	1.77
			Middle																			
	6:53		Bottom	4.8	19.94	19.95	19.95	7.93	7.94	7.94	34.28	34.29	34.29	87.7	87.5	87.6	6.53	6.52	6.53	2.01	2.00	2.01
26/12/2023	10:22	Cloudy	Surface	1.0	18.20	18.21	18.21	8.04	8.05	8.05	34.15	34.14	34.15	100.5	100.8	100.7	7.73	7.75	7.74	1.92	1.91	1.92
			Middle																			
	10:26		Bottom	4.7	18.23	18.24	18.24	8.04	8.03	8.04	34.14	34.14	34.14	99.2	99.3	99.3	7.63	7.63	7.63	2.00	2.02	2.01
28/12/2023	8:28	Fine	Surface	1.0	18.98	18.99	18.99	8.10	8.12	8.11	33.69	33.72	33.71	112.9	113.0	113.0	8.58	8.60	8.59	1.47	1.49	1.48
			Middle																			
	8:32		Bottom	4.9	18.78	18.79	18.79	8.07	8.05	8.06	34.20	34.18	34.19	98.4	98.6	98.5	7.49	7.52	7.51	1.54	1.52	1.53
30/12/2023	13:55	Fine	Surface	1.0	19.62	19.59	19.61	8.19	8.20	8.20	33.83	33.81	33.82	116.2	116.4	116.3	8.78	8.80	8.79	1.12	1.13	1.13
			Middle																			
	13:59		Bottom	4.8	19.16	19.19	19.18	8.13	8.12	8.13	34.74	34.75	34.75	98.4	98.6	98.5	7.41	7.44	7.43	1.88	1.85	1.87
2/1/2024	6:13	Fine	Surface	1.0	19.90	19.90	19.90	8.20	8.20	8.20	34.13	34.13	34.13	106.2	106.4	106.3	7.90	7.92	7.91	1.70	1.71	1.71
			Middle																			
	6:17		Bottom	4.6	19.92	19.92	19.92	8.25	8.25	8.25	34.08	34.08	34.08	110.1	110.3	110.2	8.20	8.22	8.21	1.62	1.64	1.63
4/1/2024	17:13	Fine	Surface	1.0	19.67	19.67	19.67	8.10	8.10	8.10	34.11	34.11	34.11	106.7	106.5	106.6	7.98	7.96	7.97	1.43	1.45	1.44
			Middle																			
	17:17		Bottom	4.7	19.88	19.88	19.88	8.12	8.12	8.12	34.40	34.40	34.40	107.1	107.3	107.2	7.97	8.00	7.99	1.11	1.13	1.12
6/1/2024	7:47	Fine	Surface	1.0	20.32	20.33	20.33	8.09	8.08	8.09	33.88	33.89	33.89	113.9	114.0	114.0	8.43	8.45	8.44	1.49	1.52	1.51
			Middle																			
	7:51		Bottom	4.9	19.41	19.42	19.42	8.03	8.04	8.04	34.81	34.77	34.79	89.0	89.2	89.1	6.66	6.69	6.68	2.30	2.28	2.29
8/1/2024	8:28	Fine	Surface	1.0	20.25	20.25	20.25	8.23	8.23	8.23	33.93	33.93	33.93	107.7	107.9	107.8	7.99	8.01	8.00	1.36	1.38	1.37
			Middle																			
	8:32		Bottom	4.6	20.11	20.11	20.11	8.20	8.20	8.20	34.09	34.09	34.09	106.3	106.1	106.2	7.88	7.86	7.87	1.59	1.61	1.60
10/1/2024	9:58	Fine	Surface	1.0	21.16	21.16	21.16	8.23	8.23	8.23	33.51	33.51	33.51	114.7	114.5	114.6	8.35	8.33	8.34	1.56	1.54	1.55
			Middle																			
	10:02		Bottom	4.8	20.18	20.18	20.18	8.21	8.21	8.21	34.38	34.38	34.38	104.4	104.2	104.3	7.73	7.71	7.72	1.51	1.53	1.52
12/1/2024	12:53	Fine	Surface	1.0	20.69	20.70	20.70	8.05	8.07	8.06	33.66	33.68	33.67	113.8	113.9	113.9	8.37	8.40	8.39	1.52	1.50	1.51
			Middle																			
	12:57		Bottom	4.9	19.90	19.93	19.92	8.11	8.13	8.12	34.72	34.70	34.71	91.7	91.9	91.8	6.81	6.83	6.82	1.61	1.66	1.64
15/1/2024	15:25	Fine	Surface	1.0	20.68	20.66	20.67	8.14	8.12	8.13	33.94	33.96	33.95	115.6	115.4	115.5	8.49	8.47	8.48	1.94	1.97	1.96
			Middle																			
	15:29		Bottom	4.8	19.72	19.70	19.71	8.08	8.10	8.09	34.80	34.83	34.82	85.1	84.9	85.0	6.33	6.31	6.32	2.30	2.33	2.32
17/1/2024	17:23	Cloudy	Surface	1.0	20.50	20.48	20.49	8.25	8.26	8.26	34.09	34.08	34.09	112.3	112.6	112.5	8.28	8.32	8.30	1.80	1.81	1.81
			Middle																			
	17:27		Bottom	4.8	19.99	19.97	19.98	8.19	8.17	8.18	34.71	34.73	34.72	97.8	98.1	98.0	7.25	7.32	7.29	2.21	2.24	2.23
19/1/2024	7:30	Fine	Surface	1.0	20.83	20.84	20.84	8.21	8.20	8.21	34.03	34.06	34.05	110.7	110.8	110.8	8.10	8.11	8.11	1.63	1.61	1.62
			Middle																			
	7:34		Bottom	4.7	20.01	20.03	20.02	8.10	8.09	8.10	34.81	34.79	34.80	79.5	79.7	79.6	5.89	5.90	5.90	2.50	2.48	2.49

Water Monitoring Result at C1* - Pak Sha Tau Corals
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	7:20	Cloudy	Surface	1.0	23.60	23.60	23.60	8.61	8.61	8.61	32.20	32.20	32.20	102.9	103.1	103.0	7.25	7.27	7.26	0.81	0.83	0.82
	7:22		Middle	3.4	23.67	23.67	23.67	8.60	8.60	8.60	32.25	32.25	32.25	95.6	95.8	95.7	6.72	6.74	6.73	1.52	1.53	1.53
	7:24		Bottom	5.7	23.72	23.72	23.72	8.51	8.51	8.51	32.46	32.46	32.46	82.6	82.8	82.7	5.80	5.82	5.81	1.17	1.19	1.18
30/11/2023	9:10	Cloudy	Surface	1.0	23.10	23.10	23.10	8.40	8.40	8.40	32.25	32.25	32.25	93.8	94.0	93.9	6.56	6.58	6.57	0.73	0.75	0.74
	9:12		Middle	3.4	23.70	23.70	23.70	8.43	8.43	8.43	32.25	32.25	32.25	92.2	92.4	92.3	6.45	6.47	6.46	0.64	0.66	0.65
	9:14		Bottom	5.8	23.73	23.73	23.73	8.40	8.40	8.40	32.46	32.46	32.46	81.5	81.8	81.7	5.72	5.75	5.74	0.87	0.89	0.88
1/12/2023	10:23	Fine	Surface	1.0	23.55	23.55	23.55	8.67	8.67	8.67	32.22	32.22	32.22	96.7	96.8	96.8	6.81	6.82	6.82	0.74	0.76	0.75
	10:25		Middle	3.4	23.58	23.58	23.58	8.60	8.60	8.60	32.28	32.28	32.28	91.0	91.2	91.1	6.38	6.40	6.39	0.69	0.71	0.70
	10:27		Bottom	5.7	23.58	23.58	23.58	8.50	8.50	8.50	32.28	32.28	32.28	87.7	87.3	87.5	6.18	6.20	6.19	0.93	0.95	0.94
4/12/2023	9:29	Fine	Surface	1.0	23.34	23.35	23.35	8.44	8.47	8.46	32.18	32.23	32.21	104.2	104.3	104.3	7.38	7.40	7.39	0.60	0.63	0.62
	9:31		Middle	3.4	23.32	23.33	23.33	8.50	8.52	8.51	32.16	32.18	32.17	112.7	112.5	112.6	7.98	7.96	7.97	0.57	0.59	0.58
	9:33		Bottom	5.7	23.36	23.36	23.36	8.38	8.36	8.37	32.54	32.57	32.56	106.1	106.3	106.2	7.49	7.52	7.51	1.01	1.03	1.02
6/12/2023	14:37	Cloudy	Surface	1.0	23.30	23.30	23.30	8.60	8.60	8.60	32.30	32.30	32.30	93.1	93.1	93.1	6.60	6.62	6.61	0.60	0.64	0.62
	14:39		Middle	3.5	23.38	23.38	23.38	8.57	8.57	8.57	32.57	32.57	32.57	81.7	82.0	81.9	5.77	5.80	5.79	0.47	0.50	0.49
	14:41		Bottom	6.0	23.36	23.36	23.36	8.50	8.50	8.50	32.80	32.80	32.80	74.8	75.0	74.9	5.28	5.30	5.29	0.52	0.54	0.53
8/12/2023	15:42	Fine	Surface	1.0	22.69	22.69	22.69	8.70	8.70	8.70	32.23	32.23	32.23	99.8	100.0	99.9	7.15	7.17	7.16	0.40	0.43	0.42
	15:44		Middle	3.4	22.62	22.62	22.62	8.70	8.70	8.70	32.40	32.40	32.40	93.1	93.4	93.3	6.67	6.70	6.69	0.48	0.52	0.50
	15:46		Bottom	5.7	23.02	23.02	23.02	8.60	8.60	8.60	32.84	32.84	32.84	83.7	83.9	83.8	5.93	5.95	5.94	0.54	0.57	0.56
11/12/2023	7:36	Cloudy	Surface	1.0	23.97	23.97	23.97	8.54	8.54	8.54	32.40	32.40	32.40	102.5	102.8	102.7	7.15	7.18	7.17	0.43	0.45	0.44
	7:38		Middle	3.4	23.57	23.57	23.57	8.64	8.64	8.64	32.36	32.36	32.36	104.5	104.3	104.4	7.37	7.35	7.36	0.56	0.58	0.57
	7:40		Bottom	5.7	23.47	23.47	23.47	8.62	8.62	8.62	32.41	32.41	32.41	101.2	101.0	101.1	7.14	7.12	7.13	0.62	0.65	0.64
13/12/2023	8:36	Cloudy	Surface	1.0	23.80	23.80	23.80	8.27	8.27	8.27	32.80	32.80	32.80	105.9	106.0	106.0	7.41	7.42	7.42	0.43	0.44	0.44
	8:38		Middle	3.5	23.79	23.79	23.79	8.29	8.29	8.29	32.78	32.78	32.78	105.1	104.9	105.0	7.36	7.35	7.36	0.58	0.59	0.59
	8:40		Bottom	6.0	23.70	23.70	23.70	8.28	8.28	8.28	32.80	33.80	33.30	103.0	103.2	103.1	7.23	7.25	7.24	0.84	0.85	0.85
15/12/2023	10:51	Fine	Surface	1.0	23.66	23.65	23.66	8.19	8.20	8.20	31.81	31.82	31.82	107.7	107.5	107.6	7.60	7.59	7.60	0.07	0.08	0.08
	10:53		Middle	3.4	23.44	23.42	23.43	8.18	8.18	8.18	32.02	32.03	32.03	99.0	99.3	99.2	7.00	7.01	7.01	0.10	0.12	0.11
	10:55		Bottom	5.7	23.41	23.40	23.41	8.16	8.17	8.17	32.04	32.05	32.05	96.6	96.4	96.5	6.84	6.82	6.83	0.12	0.13	0.13
18/12/2023	11:36	Cloudy	Surface	1.0	22.03	22.03	22.03	8.27	8.27	8.27	32.67	32.67	32.67	94.4	94.6	94.5	6.84	6.86	6.85	0.43	0.45	0.44
	11:38		Middle	3.4	22.09	22.09	22.09	8.24	8.24	8.24	32.71	32.71	32.71	92.3	92.5	92.4	6.66	6.68	6.67	0.66	0.67	0.67
	11:40		Bottom	5.7	22.01	22.01	22.01	8.25	8.25	8.25	32.69	32.69	32.69	92.5	92.7	92.6	6.71	6.73	6.72	0.83	0.84	0.84
20/12/2023	14:57	Cloudy	Surface	1.0	21.51	21.47	21.49	8.16	8.18	8.17	34.06	34.09	34.08	94.4	94.2	94.3	6.86	6.84	6.85	1.31	1.33	1.32
	14:59		Middle	3.5	21.58	21.55	21.57	8.11	8.08	8.10	34.27	34.30	34.29	85.1	85.4	85.3	6.14	6.17	6.16	1.30	1.28	1.29
	15:01		Bottom	5.9	21.63	21.66	21.65	8.13	8.17	8.15	34.33	34.35	34.34	84.0	83.7	83.9	6.06	6.03	6.05	1.47	1.44	1.46
22/12/2023	15:41	Cloudy	Surface	1.0	20.18	20.17	20.18	8.05	8.06	8.06	34.38	34.39	34.39	93.5	93.6	93.6	6.93	6.93	6.93	1.68	1.67	1.68
	15:43		Middle	3.4	20.15	20.16	20.16	8.07	8.06	8.07	34.36	34.37	34.37	90.7	90.6	90.7	6.71	6.70	6.71	1.61	1.60	1.61
	15:45		Bottom	5.7	20.19	20.18	20.19	8.05	8.05	8.05	34.36	34.36	34.36	90.2	90.4	90.3	6.68	6.69	6.69	1.48	1.49	1.49
26/12/2023	7:27	Cloudy	Surface	1.0	17.97	17.97	17.97	8.18	8.17	8.18	33.68	33.67	33.68	111.6	111.8	111.7	8.64	8.65	8.65	1.30	1.29	1.30
	7:29		Middle	3.3	18.61	18.62	18.62	8.09	8.08	8.09	34.34	34.35	34.35	104.0	104.2	104.1	7.92	7.93	7.93	1.38	1.37	1.38
	7:31		Bottom	5.7	18.85	18.85	18.85	8.07	8.08	8.08	34.57	34.58	34.58	98.2	98.5	98.4	7.43	7.44	7.44	1.52	1.51	1.52
28/12/2023	14:35	Fine	Surface	1.0	18.67	18.68	18.68	8.16	8.18	8.17	34.22	34.26	34.24	107.8	107.5	107.7	8.21	8.18	8.20	2.16	2.14	2.15
	14:37		Middle	3.5	18.82	18.83	18.83	8.11	8.09	8.10	34.72	34.76	34.74	100.1	99.9	100.0	7.59	7.56	7.58	1.67	1.68	1.68
	14:39		Bottom	5.9	18.78	18.78	18.78	8.06	8.04	8.05	35.06	35.02	35.04	90.6	91.1	90.9	6.85	6.90	6.88	2.21	2.24	2.23
30/12/2023	11:08	Fine	Surface	1.0	19.00	18.98	18.99	8.17	8.15	8.16	34.61	34.59	34.60	105.1	104.8	105.0	7.94	7.88	7.91	1.39	1.37	1.38
	11:10		Middle	3.4	18.92	18.91	18.92	8.14	8.12	8.13	34.82	34.85	34.84	101.1	100.8	101.0	7.62	7.58	7.60	1.49	1.51	1.50
	11:12		Bottom	5.7	18.87	18.85	18.86	8.11	8.07	8.09	35.07	35.09	35.08	93.1	92.6	92.9	7.03	6.92	6.98	1.72	1.75	1.74
2/1/2024	15:22	Fine	Surface	1.0	19.54	19.54	19.54	8.16	8.16	8.16	34.60	34.60	34.60	107.0	107.2	107.1	8.00	8.02	8.01	1.15	1.17	1.16
	15:24		Middle	3.5	19.55	19.55	19.55	8.22	8.22	8.22	34.61	34.61	34.61	107.5	107.7	107.6	8.04	8.06	8.05	1.21	1.23	1.22
	15:26		Bottom	6.0	19.53	19.53	19.53	8.23	8.23	8.23	34.61	34.61	34.61	107.2	107.0	107.1	8.01	7.99	8.00	1.28	1.30	1.29
4/1/2024	13:08	Fine	Surface	1.0	19.35	19.35	19.35	8.15	8.15	8.15	34.63	34.63	34.63	105.5	105.7	105.6	7.92	7.93	7.93	1.08	1.10	1.09
	13:10		Middle	3.6	19.30	19.30	19.30	8.15	8.15	8.15	34.65	34.65	34.65	105.3	105.4	105.4	7.91	7.91	7.91	1.18	1.20	1.19
	13:12		Bottom	6.2	19.23	19.23	19.23	8.16	8.16	8.16	34.70	34.70	34.70	104.8	104.6	104.7	7.88	7.86	7.87	1.23	1.24	1.24
6/1/2024	15:51	Fine	Surface	1.0	20.00	20.04	20.02	8.24	8.25	8.25	33.95	33.97	33.96	111.6	111.8	111.7	8.31	8.34	8.33	1.19	1.23	1.21
	15:53		Middle	3.8	19.16	19.30	19.23	8.16	8.18	8.17	34.58	34.60	34.59	99.9	100.3	100.1	7.49	7.52	7.51	1.60	1.62	1.61
	15:55		Bottom	6.6	18.96	18.95	18.96	8.13	8.11	8.12	35.13	35.09	35.11	92.5	92.3	92.4	6.97	6.95	6.96	1.68	1.70	1.69
8/1/2024	15:24	Fine	Surface	1.0	19.72	19.72	19.72	8.19	8.19	8.19	34.58	34.58	34.58	105.1	105.3	105.2	7.83	7.85	7.84	1.00	1.01	1.01
	15:26		Middle	3.5	19.59	19.59	19.59	8.21	8.21	8.21	34.61	34.61	34.61	104.0	104.2	104.1	7.76	7.78	7.77	1.08	1.10	1.09
	15:28		Bottom	6.0	19.52	19.52	19.52	8.21	8.21	8.21	34.68	34.68	34.68	103.0	103.2	103.1	7.70	7.72	7.71	1.10	1.12	1.11
10/1/2024	16:13	Fine	Surface	1.0	19.99	19.99	19.99	8.15	8.15	8.15	34.65	34.65	34.65	104.3	104.1	104.2	7.74	7.72	7.73	1.11	1.15	1.13
	16:15		Middle	3.7	19.96	19.96	19.96	8.19	8.19	8.19	34.65	34.65	34.65	104.2	104.1	104.2	7.73	7.72	7.73	1.18	1.20	1.19
	16:17		Bottom	6.4	19.93	19.93	19.93	8.20	8.20	8.20	34.66	34.66	34.66	104.0	103.8	103.9	7.72	7.70	7.71	1.21	1.22	1.22
12/1/2024	20:30	Fine	Surface	1.0	20.54	20.52	20.53	8.23	8.21	8.22	33.90	33.88	33.89	111.9	112.2	112.1	8.26	8.29	8.28	1.58	1.55	1.57
	20:32		Middle	3.5	20.14	20.16	20.15	8.20	8.19	8.20	34.51	34.50	34.51	105.6	105.9	105.8	7.80	7.83	7.82	1.37	1.35	1.36
	20:34		Bottom	6.0	19.78	19.76	19.77	8.18	8.15	8.17	34.82	34.84	34.83	100.0	99.6	99.8	7.44	7.38	7.41	1.53	1.51	1.52
15/1/2024	11:44	Fine	Surface	1.0	20.94	20.96	20.95	8.21	8.23	8.22	33.05	33.06	33.06	112.9	113.5	113.2	8.29	8.35	8.32	1.55	1.59	1.57
	11:46		Middle	3.6	20.17	20.16	20.17	8.24	8.26	8.25	34.65	34.64	34.65	108.6	108.4	108.5	8.02	8.01	8.02	1.37	1.35	1.36
	11:48		Bottom	6.2	19.67	19.65	19.66	8.17	8.15	8.16	34.96	35.00	34.98	93.4	93.1	93.3	6.95	6.92	6.94	1.82	1.84	1.83
17/1/2024	12:12	Cloudy	Surface	1.0	20.24	20.22	20.23	8.26	8.27	8.27	34.52	34.51	34.52	108.0	108.3	108.2	7.97	8.03	8.00	2.07	2.04	2.06
	12:14		Middle	3.7	20.15	20.13	20.14	8.25	8.23	8.24	34.69	34.66	34.68	105.2	105.0	105.1	7.78	7.76	7.77	2.24	2.27	2.26
	12:16		Bottom	6.4	19.96	19.94	19.95	8.19	8.17	8.18	34.82	34.80	34.81	95.5	95.7	95.6	7.07	7.09	7.08	2.52	2.54	2.53
19/1/2024	14:51	Fine	Surface	1.0	20.27	20.25	20.26	8.26	8.24	8.25	34.47	34.45	34.46	104.3	104.6	104.5	7.70	7.72	7.71	1.52	1.54	1.53
	14:53		Middle	3.7	20.01	19.99	20.00	8.18	8.17	8.18	34.89	34.86	34.88	93.2	93.8	93.5	6.90	6.94	6.92	1.76	1.78	1.77
	14:55		Bottom	6.4	19.66	19.67	19.67	8.17	8.15	8.16	35.06	34.99	35.03	89.0	89.2	89.1	6.62	6.64	6.63	2.10	2.08	2.09

Water Monitoring Result at C1* - Pak Sha Tau Corals
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	13:21	Cloudy	Surface	1.0	23.65	23.65	23.65	8.61	8.61	8.61	32.24	32.24	32.24	102.2	102.0	102.1	7.18	7.16	7.17	0.86	0.87	0.87
	13:23		Middle	3.3	23.68	23.68	23.68	8.61	8.61	8.61	32.24	32.24	32.24	95.1	95.3	95.2	6.67	6.69	6.68	1.54	1.51	1.53
	13:25		Bottom	5.5	23.71	23.71	23.71	8.52	8.52	8.52	32.45	32.45	32.45	81.9	82.1	82.0	5.72	5.75	5.74	1.21	1.20	1.21
30/11/2023	12:00	Cloudy	Surface	1.0	23.72	23.72	23.72	8.41	8.41	8.41	32.24	32.24	32.24	93.3	93.5	93.4	6.56	6.58	6.57	0.70	0.72	0.71
	12:02		Middle	3.4	23.71	23.71	23.71	8.44	8.44	8.44	32.26	32.26	32.26	91.9	91.7	91.8	6.40	6.57	6.49	0.62	0.64	0.63
	12:04		Bottom	5.7	23.73	23.73	23.73	8.40	8.40	8.40	32.46	32.46	32.46	80.2	80.4	80.3	5.63	5.65	5.64	0.77	0.79	0.78
1/12/2023	14:10	Fine	Surface	1.0	23.59	23.59	23.59	8.53	8.53	8.53	32.23	32.23	32.23	93.8	93.6	93.7	6.62	6.60	6.61	0.83	0.81	0.82
	14:12		Middle	3.3	23.58	23.58	23.58	8.56	8.56	8.56	32.27	32.27	32.27	90.1	90.3	90.2	6.35	6.37	6.36	0.71	0.72	0.72
	14:14		Bottom	5.5	23.58	23.58	23.58	8.50	8.50	8.50	32.27	32.27	32.27	88.0	88.3	88.2	6.20	6.23	6.22	0.70	0.72	0.71
4/12/2023	17:47	Fine	Surface	1.0	23.48	23.54	23.51	8.47	8.46	8.47	32.00	32.01	32.01	103.9	103.6	103.8	7.36	7.32	7.34	0.43	0.46	0.45
	17:49		Middle	3.3	23.32	23.30	23.31	8.50	8.52	8.51	32.16	32.18	32.17	102.2	102.4	102.3	7.24	7.26	7.25	0.61	0.63	0.62
	17:51		Bottom	5.6	23.35	23.36	23.36	8.40	8.42	8.41	32.53	32.55	32.54	106.1	106.2	106.2	7.50	7.53	7.52	1.39	1.37	1.38
6/12/2023	8:03	Cloudy	Surface	1.0	23.29	23.29	23.29	8.59	8.59	8.59	32.36	32.36	32.36	92.3	92.5	92.4	6.53	6.54	6.54	0.55	0.58	0.57
	8:05		Middle	3.3	23.38	23.38	23.38	8.56	8.56	8.56	32.55	32.55	32.55	84.1	84.4	84.3	5.94	5.97	5.96	0.57	0.61	0.59
	8:07		Bottom	5.6	23.39	23.39	23.39	8.50	8.50	8.50	32.67	32.67	32.67	76.4	76.6	76.5	5.39	5.41	5.40	0.45	0.48	0.47
8/12/2023	9:06	Fine	Surface	1.0	22.77	22.77	22.77	8.80	8.80	8.80	32.24	32.23	32.24	100.8	100.9	100.9	7.21	7.22	7.22	0.37	0.40	0.39
	9:08		Middle	3.3	22.71	22.71	22.71	8.80	8.80	8.80	32.28	32.28	32.28	96.3	96.5	96.4	6.88	6.90	6.89	0.58	0.55	0.57
	9:10		Bottom	5.5	22.85	22.85	22.85	8.59	8.59	8.59	32.87	32.87	32.87	81.9	82.1	82.0	5.85	5.88	5.87	0.52	0.50	0.51
11/12/2023	10:08	Cloudy	Surface	1.0	23.67	23.67	23.67	8.64	8.64	8.64	32.39	32.39	32.39	104.8	104.6	104.7	7.37	7.35	7.36	0.34	0.35	0.35
	10:10		Middle	3.3	23.69	23.69	23.69	8.61	8.61	8.61	32.33	32.33	32.33	105.1	104.9	105.0	7.39	7.37	7.38	0.62	0.64	0.63
	10:12		Bottom	5.5	23.62	23.62	23.62	8.63	8.63	8.63	32.36	32.36	32.36	105.0	105.4	105.2	7.40	7.44	7.42	0.68	0.70	0.69
13/12/2023	12:26	Cloudy	Surface	1.0	23.76	23.76	23.76	8.29	8.29	8.29	32.79	32.79	32.79	105.1	105.0	105.1	7.36	7.35	7.36	0.54	0.55	0.55
	12:28		Middle	3.3	23.81	23.81	23.81	8.29	8.29	8.29	32.80	32.80	32.80	104.6	104.6	104.6	7.30	7.31	7.31	0.61	0.62	0.62
	12:30		Bottom	5.5	23.76	23.76	23.76	8.29	8.29	8.29	32.80	32.80	32.80	102.4	102.2	102.3	7.15	7.13	7.14	0.84	0.85	0.85
15/12/2023	15:22	Fine	Surface	1.0	23.65	23.66	23.66	8.20	8.20	8.20	31.97	31.96	31.97	106.8	106.9	106.9	7.55	7.56	7.56	0.09	0.10	0.10
	15:24		Middle	3.2	23.47	23.48	23.48	8.15	8.16	8.16	32.08	32.09	32.09	99.5	99.4	99.5	7.02	7.02	7.02	0.14	0.17	0.16
	15:26		Bottom	5.4	23.26	23.25	23.26	8.15	8.15	8.15	32.13	32.14	32.14	95.7	95.9	95.8	6.79	6.78	6.79	0.23	0.21	0.22
18/12/2023	15:51	Cloudy	Surface	1.0	22.04	22.04	22.04	8.24	8.24	8.24	32.74	32.74	32.74	93.8	93.6	93.7	6.78	6.76	6.77	0.62	0.63	0.63
	15:53		Middle	3.3	22.04	22.04	22.04	8.24	8.24	8.24	32.74	32.74	32.74	93.2	93.1	93.2	6.71	6.70	6.71	0.71	0.72	0.72
	15:55		Bottom	5.5	22.14	22.14	22.14	8.23	8.23	8.23	32.85	32.85	32.85	90.4	90.2	90.3	6.50	6.48	6.49	0.93	0.95	0.94
20/12/2023	8:57	Cloudy	Surface	1.0	21.22	21.23	21.23	8.10	8.12	8.11	34.09	34.08	34.09	96.3	96.1	96.2	6.99	6.96	6.98	1.37	1.41	1.39
	8:59		Middle	3.4	21.25	21.27	21.26	8.08	8.07	8.08	34.11	34.13	34.12	94.5	94.3	94.4	6.85	6.82	6.84	1.38	1.35	1.37
	9:01		Bottom	5.7	21.33	21.32	21.33	8.15	8.17	8.16	34.16	34.18	34.17	93.6	93.8	93.7	6.77	6.79	6.78	1.45	1.47	1.46
22/12/2023	9:33	Cloudy	Surface	1.0	20.13	20.14	20.14	8.07	8.08	8.08	34.36	34.36	34.36	93.7	93.3	93.5	6.94	6.91	6.93	1.84	1.83	1.84
	9:35		Middle	3.4	20.13	20.13	20.13	8.03	8.04	8.04	34.35	34.35	34.35	90.3	90.5	90.4	6.69	6.70	6.70	1.68	1.66	1.67
	9:37		Bottom	5.7	20.15	20.16	20.16	8.06	8.06	8.06	34.37	34.37	34.37	89.8	89.5	89.7	6.65	6.63	6.64	1.93	1.94	1.94
26/12/2023	12:26	Cloudy	Surface	1.0	17.57	17.56	17.57	8.17	8.18	8.18	33.29	33.30	33.30	109.4	109.6	109.5	8.52	8.53	8.53	1.27	1.28	1.28
	12:28		Middle	3.4	18.64	18.63	18.64	8.10	8.11	8.11	34.36	34.37	34.37	98.2	98.3	98.3	7.48	7.49	7.49	1.44	1.43	1.44
	12:30		Bottom	5.7	18.84	18.83	18.84	8.09	8.08	8.09	34.54	34.55	34.55	95.3	95.6	95.5	7.22	7.24	7.23	1.50	1.49	1.50
28/12/2023	10:23	Fine	Surface	1.0	18.70	18.70	18.70	8.16	8.19	8.18	34.28	34.29	34.29	108.0	108.2	108.1	8.21	8.23	8.22	1.82	1.84	1.83
	10:25		Middle	3.4	18.81	18.82	18.82	8.10	8.12	8.11	34.86	34.89	34.88	95.2	95.0	95.1	7.20	7.18	7.19	1.64	1.62	1.63
	10:27		Bottom	5.7	18.76	18.75	18.76	8.09	8.07	8.08	35.14	35.19	35.17	91.6	91.2	91.4	6.92	6.89	6.91	2.37	2.34	2.36
30/12/2023	15:49	Fine	Surface	1.0	19.06	19.08	19.07	8.16	8.15	8.16	34.47	34.44	34.46	104.5	104.3	104.4	7.89	7.85	7.87	1.32	1.34	1.33
	15:51		Middle	3.7	18.91	18.95	18.93	8.10	8.09	8.10	34.85	34.87	34.86	99.6	99.7	99.7	7.52	7.56	7.54	1.51	1.53	1.52
	15:53		Bottom	6.5	18.90	18.88	18.89	8.13	8.15	8.14	34.94	34.96	34.95	96.7	96.3	96.5	7.30	7.24	7.27	1.62	1.65	1.64
2/1/2024	8:10	Fine	Surface	1.0	19.53	19.53	19.53	8.09	8.09	8.09	34.60	34.60	34.60	106.7	106.5	106.6	7.98	7.96	7.97	1.20	1.23	1.22
	8:12		Middle	3.5	19.54	19.54	19.54	8.21	8.21	8.21	34.61	34.61	34.61	107.3	107.2	107.3	8.02	8.01	8.02	1.22	1.24	1.23
	8:14		Bottom	6.0	19.53	19.53	19.53	8.23	8.23	8.23	34.61	34.61	34.61	107.2	107.0	107.1	8.02	8.00	8.01	1.22	1.23	1.23
4/1/2024	17:08	Fine	Surface	1.0	19.35	19.35	19.35	8.19	8.19	8.19	34.60	34.60	34.60	105.6	105.5	105.6	7.92	7.92	7.92	1.09	1.10	1.10
	17:10		Middle	3.5	19.26	19.26	19.26	8.19	8.19	8.19	34.66	34.66	34.66	105.5	105.3	105.4	7.92	7.90	7.91	1.15	1.16	1.16
	17:12		Bottom	6.0	19.21	19.21	19.21	8.18	8.18	8.18	34.68	34.68	34.68	105.0	104.9	105.0	7.89	7.89	7.89	1.17	1.19	1.18
6/1/2024	9:41	Fine	Surface	1.0	19.97	19.93	19.95	8.23	8.22	8.23	33.93	33.90	33.92	107.7	108.0	107.9	8.01	8.07	8.04	1.19	1.17	1.18
	9:43		Middle	3.4	19.12	19.14	19.13	8.13	8.15	8.14	34.98	34.91	34.95	94.1	94.4	94.3	7.08	7.10	7.09	1.87	1.79	1.83
	9:45		Bottom	5.7	18.91	18.88	18.90	8.12	8.10	8.11	35.10	35.07	35.09	91.3	91.1	91.2	6.88	6.86	6.87	1.60	1.57	1.59
8/1/2024	10:12	Fine	Surface	1.0	19.68	19.68	19.68	8.18	8.18	8.18	34.59	34.59	34.59	104.7	104.5	104.6	7.81	7.79	7.80	0.95	0.98	0.97
	10:14		Middle	3.5	19.61	19.61	19.61	8.20	8.20	8.20	34.61	34.61	34.61	104.5	104.3	104.4	7.80	7.78	7.79	0.99	1.00	1.00
	10:16		Bottom	6.0	19.52	19.52	19.52	8.21	8.21	8.21	34.66	34.66	34.66	103.5	103.3	103.4	7.74	7.72	7.73	1.08	1.10	1.09
10/1/2024	11:52	Fine	Surface	1.0	20.00	20.00	20.00	8.11	8.11	8.11	34.65	34.65	34.65	103.9	103.7	103.8	7.71	7.69	7.70	1.08	1.10	1.09
	11:54		Middle	3.5	19.95	19.95	19.95	8.19	8.19	8.19	34.65	34.65	34.65	104.1	104.3	104.2	7.72	7.74	7.73	1.10	1.12	1.11
	11:56		Bottom	6.0	19.91	19.91	19.91	8.20	8.20	8.20	34.67	34.67	34.67	103.9	103.7	103.8	7.71	7.69	7.70	1.18	1.20	1.19
12/1/2024	14:48	Fine	Surface	1.0	20.55	20.56	20.56	8.22	8.24	8.23	33.90	33.92	33.91	115.0	115.2	115.1	8.48	8.50	8.49	1.55	1.57	1.56
	14:50		Middle	3.5	20.23	20.26	20.25	8.21	8.20	8.21	34.42	34.45	34.44	108.4	108.0	108.2	8.02	7.99	8.01	1.41	1.43	1.42
	14:52		Bottom	5.9	19.84	19.81	19.83	8.19	8.17	8.18	34.81	34.86	34.84	103.7	103.5	103.6	7.70	7.68	7.69	1.50	1.52	1.51
15/1/2024	17:20	Fine	Surface	1.0	20.79	20.80	20.80	8.28	8.29	8.29	33.57	33.59	33.58	120.8	120.6	120.7	8.89	8.88	8.89	1.39	1.40	1.40
	17:22		Middle	3.5	20.11	20.09	20.10	8.24	8.22	8.23	34.58	34.57	34.58	108.7	109.1	108.9	8.03	8.05	8.04	1.38	1.36	1.37
	17:24		Bottom	6.0	19.71	19.72	19.72	8.31	8.34	8.33	34.61	34.63	34.62	107.7	107.9	107.8	7.99	7.97	7.98	1.35	1.37	1.36
17/1/2024	19:18	Cloudy	Surface	1.0	20.25	20.26	20.26	8.29	8.28	8.29	34.51	34.52	34.52	106.7	106.6	106.7	7.89	7.88	7.89	2.12	2.14	2.13
	19:20		Middle	3.4	20.15	20.13	20.14	8.24	8.22	8.23	34.68	34.72	34.70	104.2	103.9	104.1	7.62	7.61	7.62	2.22	2.24	2.23
	19:22		Bottom	5.8	19.94	19.92	19.93	8.19	8.17	8.18	34.83	34.86	34.85	93.3	92.8	93.1	6.92	6.89	6.91	3.17	3.15	3.16
19/1/2024	9:24	Fine	Surface	1.0	20.30	20.29	20.30	8.26	8.23	8.25	34.42	34.40	34.41	108.5	107.8	108.2	8.01	7.97	7.99	1.51	1.53	1.52
	9:26		Middle	3.5	19.97	19.95	19.96	8.18	8.16	8.17	34.89	34.86	34.88	94.8	95.7	95.3	7.04	7.13	7.09	1.86	1.85	1.86
	9:28		Bottom	6.0	19.79	19.76	19.78	8.19	8.18	8.19	35.09	35.07	35.08	94.4	94.0	94.2	7.02	6.97	7.00	2.13	2.11	2.12

Water Monitoring Result at TPLMB - Tai Po Lung Mei Beach
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	7:00	Cloudy	Surface																			
			Middle	1.0	24.02	24.02	24.02	8.53	8.53	8.53	31.93	31.93	31.93	93.7	93.5	93.6	6.57	6.58	6.58	0.66	0.69	0.68
			Bottom																			
30/11/2023	8:53	Cloudy	Surface																			
			Middle	1.0	24.02	24.02	24.02	8.46	8.46	8.46	31.95	31.95	31.95	75.9	76.1	76.0	5.37	5.39	5.38	0.66	0.68	0.67
			Bottom																			
1/12/2023	10:00	Fine	Surface																			
			Middle	1.0	23.70	23.70	23.70	8.65	8.65	8.65	31.95	31.95	31.95	92.5	92.8	92.7	6.52	6.55	6.54	0.76	0.73	0.75
			Bottom																			
4/12/2023	9:05	Fine	Surface																			
			Middle	1.0	23.42	23.42	23.42	8.43	8.45	8.44	31.97	31.95	31.96	94.2	94.1	94.2	6.66	6.64	6.65	0.46	0.48	0.47
			Bottom																			
6/12/2023	14:18	Cloudy	Surface																			
			Middle	1.0	23.73	23.74	23.74	8.56	8.51	8.54	31.95	31.98	31.97	97.0	96.8	96.9	6.83	6.82	6.83	0.40	0.44	0.42
			Bottom																			
8/12/2023	15:20	Fine	Surface																			
			Middle	1.0	23.06	23.06	23.06	8.58	8.58	8.58	32.16	32.16	32.16	81.0	81.2	81.1	5.77	5.79	5.78	0.54	0.56	0.55
			Bottom																			
11/12/2023	7:18	Cloudy	Surface																			
			Middle	1.0	24.17	24.17	24.17	8.44	8.44	8.44	32.03	32.03	32.03	96.0	96.2	96.1	6.71	6.73	6.72	0.34	0.36	0.35
			Bottom																			
13/12/2023	7:19	Cloudy	Surface																			
			Middle	1.0	24.25	24.25	24.25	8.14	8.14	8.14	32.29	32.29	32.29	92.1	92.3	92.2	6.42	6.44	6.43	0.46	0.50	0.48
			Bottom																			
15/12/2023	10:27	Fine	Surface																			
			Middle	1.0	23.91	23.90	23.91	8.20	8.21	8.21	31.61	31.62	31.62	108.6	108.9	108.8	7.65	7.67	7.66	0.13	0.14	0.14
			Bottom																			
18/12/2023	11:18	Cloudy	Surface																			
			Middle	1.0	22.04	22.04	22.04	8.17	8.17	8.17	32.73	32.73	32.73	84.8	85.0	84.9	6.13	6.15	6.14	0.39	0.41	0.40
			Bottom																			
20/12/2023	14:38	Cloudy	Surface																			
			Middle	1.1	21.27	21.25	21.26	8.04	8.06	8.05	34.18	34.14	34.16	82.9	82.5	82.7	6.02	5.97	6.00	2.53	2.56	2.55
			Bottom																			
22/12/2023	15:18	Cloudy	Surface																			
			Middle	1.0	19.68	19.68	19.68	8.03	8.03	8.03	34.22	34.22	34.22	87.6	87.8	87.7	6.54	6.55	6.55	2.71	2.70	2.71
			Bottom																			
26/12/2023	7:05	Cloudy	Surface																			
			Middle	1.0	18.18	18.19	18.19	8.07	8.07	8.07	34.17	34.18	34.18	103.8	103.7	103.8	7.98	7.98	7.98	1.64	1.65	1.65
			Bottom																			
28/12/2023	14:16	Fine	Surface																			
			Middle	1.0	18.78	18.79	18.79	7.78	7.75	7.77	33.85	33.86	33.86	98.7	98.5	98.6	7.54	7.52	7.53	1.93	1.97	1.95
			Bottom																			
30/12/2023	10:49	Fine	Surface																			
			Middle	1.1	19.24	19.22	19.23	8.23	8.21	8.22	33.95	33.97	33.96	114.7	115.0	114.9	8.68	8.72	8.70	1.15	1.13	1.14
			Bottom																			
2/1/2024	15:03	Fine	Surface																			
			Middle	1.2	19.93	19.93	19.93	8.06	8.06	8.06	34.07	34.07	34.07	100.4	100.2	100.3	7.47	7.45	7.46	1.14	1.15	1.15
			Bottom																			
4/1/2024	12:49	Fine	Surface																			
			Middle	1.0	19.64	19.64	19.64	8.00	8.00	8.00	34.15	34.15	34.15	99.2	99.4	99.3	7.42	7.44	7.43	1.26	1.28	1.27
			Bottom																			
6/1/2024	15:33	Fine	Surface																			
			Middle	1.3	19.84	19.86	19.85	8.22	8.19	8.21	34.12	34.14	34.13	113.0	113.2	113.1	8.43	8.45	8.44	1.19	1.21	1.20
			Bottom																			
8/1/2024	15:06	Fine	Surface																			
			Middle	1.2	20.17	20.17	20.17	8.07	8.07	8.07	34.33	34.33	34.33	96.0	96.2	96.1	7.10	7.12	7.11	0.82	0.80	0.81
			Bottom																			
10/1/2024	15:55	Fine	Surface																			
			Middle	1.3	20.51	20.51	20.51	8.15	8.15	8.15	34.41	34.41	34.41	99.6	99.5	99.6	7.33	7.32	7.33	1.41	1.43	1.42
			Bottom																			
12/1/2024	20:11	Fine	Surface																			
			Middle	1.2	20.64	20.66	20.65	8.27	8.28	8.28	34.03	34.01	34.02	116.9	116.7	116.8	8.60	8.58	8.59	1.21	1.18	1.20
			Bottom																			
15/1/2024	11:26	Fine	Surface																			
			Middle	1.3	21.20	21.22	21.21	8.28	8.26	8.27	33.44	33.40	33.42	122.5	122.6	122.6	8.94	8.96	8.95	1.53	1.51	1.52
			Bottom																			
17/1/2024	11:54	Cloudy	Surface																			
			Middle	1.3	20.32	20.34	20.33	8.28	8.29	8.29	34.33	34.31	34.32	110.9	111.2	111.1	8.19	8.21	8.20	1.69	1.71	1.70
			Bottom																			
19/1/2024	14:33	Fine	Surface																			
			Middle	1.2	21.40	21.41	21.41	8.27	8.25	8.26	33.88	33.86	33.87	114.0	114.2	114.1	8.27	8.29	8.28	1.36	1.39	1.38
			Bottom																			

Water Monitoring Result at TPLMB - Tai Po Lung Mei Beach
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity		
			m		°C			-			ppt			%			mg/L			NTU		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2023	13:02	Cloudy	Surface																			
			Middle	0.9	24.05	24.05	24.05	8.53	8.53	8.53	31.95	31.95	31.95	94.1	94.3	94.2	6.61	6.63	6.62	0.74	0.75	0.75
			Bottom																			
30/11/2023	12:12	Cloudy	Surface																			
			Middle	0.9	24.02	24.02	24.02	8.46	8.46	8.46	31.95	31.95	31.95	79.6	79.8	79.7	5.59	5.61	5.60	0.77	0.79	0.78
			Bottom																			
1/12/2023	14:23	Fine	Surface																			
			Middle	0.4	23.74	23.74	23.74	8.59	8.59	8.59	31.93	31.93	31.93	91.7	91.5	91.6	6.44	6.42	6.43	0.75	0.73	0.74
			Bottom																			
4/12/2023	17:24	Fine	Surface																			
			Middle	1.0	23.41	23.41	23.41	8.34	8.37	8.36	31.92	31.96	31.94	94.4	94.7	94.6	6.70	6.74	6.72	0.48	0.50	0.49
			Bottom																			
6/12/2023	7:45	Cloudy	Surface																			
			Middle	1.0	23.54	23.54	23.54	8.69	8.69	8.69	32.05	32.05	32.05	97.1	97.3	97.2	6.84	6.87	6.86	0.43	0.45	0.44
			Bottom																			
8/12/2023	8:48	Fine	Surface																			
			Middle	0.8	23.00	23.00	23.00	8.60	8.60	8.60	32.16	32.16	32.16	80.4	80.2	80.3	5.73	5.71	5.72	0.62	0.65	0.64
			Bottom																			
11/12/2023	10:26	Cloudy	Surface																			
			Middle	1.0	24.29	24.29	24.29	8.50	8.50	8.50	32.00	32.00	32.00	96.5	96.3	96.4	6.73	6.71	6.72	0.41	0.42	0.42
			Bottom																			
13/12/2023	12:06	Cloudy	Surface																			
			Middle	0.4	24.33	24.33	24.33	8.13	8.13	8.13	32.25	32.25	32.25	91.1	91.3	91.2	6.33	6.35	6.34	0.38	0.41	0.40
			Bottom																			
15/12/2023	14:59	Fine	Surface																			
			Middle	0.7	23.90	23.91	23.91	8.23	8.24	8.24	31.49	31.50	31.50	114.5	114.6	114.6	8.05	8.06	8.06	0.12	0.08	0.10
			Bottom																			
18/12/2023	15:33	Cloudy	Surface																			
			Middle	1.0	22.02	22.02	22.02	8.17	8.17	8.17	32.74	32.74	32.74	84.5	84.7	84.6	6.10	6.12	6.11	0.44	0.43	0.44
			Bottom																			
20/12/2023	8:39	Cloudy	Surface																			
			Middle	1.0	21.23	21.25	21.24	8.02	8.03	8.03	34.17	34.15	34.16	85.8	85.7	85.8	6.22	6.21	6.22	2.67	2.64	2.66
			Bottom																			
22/12/2023	9:13	Cloudy	Surface																			
			Middle	1.0	19.62	19.63	19.63	8.00	8.01	8.01	34.20	34.40	34.30	99.1	99.4	99.3	7.43	7.46	7.45	2.56	2.54	2.55
			Bottom																			
26/12/2023	12:09	Cloudy	Surface																			
			Middle	1.0	18.00	18.01	18.01	8.06	8.07	8.07	34.12	34.12	34.12	103.2	103.5	103.4	7.94	7.96	7.95	1.81	1.83	1.82
			Bottom																			
28/12/2023	10:04	Fine	Surface																			
			Middle	1.0	18.87	18.87	18.87	8.03	8.05	8.04	33.82	33.87	33.85	98.2	97.6	97.9	7.45	7.37	7.41	1.80	1.78	1.79
			Bottom																			
30/12/2023	15:31	Fine	Surface																			
			Middle	1.0	19.22	19.19	19.21	8.14	8.16	8.15	34.05	34.09	34.07	114.9	114.2	114.6	8.67	8.61	8.64	1.17	1.22	1.20
			Bottom																			
2/1/2024	7:48	Fine	Surface																			
			Middle	1.0	19.94	19.94	19.94	8.00	8.00	8.00	34.06	34.06	34.06	100.8	100.6	100.7	7.50	7.48	7.49	1.13	1.15	1.14
			Bottom																			
4/1/2024	16:50	Fine	Surface																			
			Middle	1.0	19.64	19.64	19.64	8.03	8.03	8.03	34.15	34.15	34.15	99.0	99.2	99.1	7.40	7.42	7.41	1.22	1.23	1.23
			Bottom																			
6/1/2024	9:22	Fine	Surface																			
			Middle	1.2	19.79	19.78	19.79	8.22	8.19	8.21	33.95	33.93	33.94	111.7	111.8	111.8	8.36	8.37	8.37	1.15	1.13	1.14
			Bottom																			
8/1/2024	9:54	Fine	Surface																			
			Middle	1.0	20.17	20.17	20.17	8.02	8.02	8.02	34.33	34.33	34.33	96.4	96.6	96.5	7.14	7.16	7.15	0.83	0.85	0.84
			Bottom																			
10/1/2024	11:34	Fine	Surface																			
			Middle	1.2	20.54	20.54	20.54	8.14	8.14	8.14	34.43	34.43	34.43	99.6	99.9	99.8	7.31	7.34	7.33	1.38	1.35	1.37
			Bottom																			
12/1/2024	14:29	Fine	Surface																			
			Middle	1.0	20.47	20.43	20.45	8.21	8.20	8.21	34.13	34.11	34.12	112.4	112.6	112.5	8.29	8.31	8.30	1.22	1.21	1.22
			Bottom																			
15/1/2024	17:02	Fine	Surface																			
			Middle	1.0	21.12	21.13	21.13	8.28	8.26	8.27	33.66	33.67	33.67	125.4	125.6	125.5	9.17	9.19	9.18	1.45	1.43	1.44
			Bottom																			
17/1/2024	19:00	Cloudy	Surface																			
			Middle	1.1	20.31	20.29	20.30	8.28	8.26	8.27	34.30	34.27	34.29	111.4	111.6	111.5	8.26	8.29	8.28	1.68	1.66	1.67
			Bottom																			
19/1/2024	9:06	Fine	Surface																			
			Middle	1.0	21.47	21.46	21.47	8.26	8.24	8.25	33.94	33.91	33.93	115.1	114.7	114.9	8.35	8.30	8.33	1.37	1.35	1.36
			Bottom																			

Water Monitoring Result at W1 - WSD Seawater Intake at Sha Tin
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	6:44	Cloudy	Surface	1.0	7	7	7	0.18	0.18	0.15	<0.005	<0.005	<0.005	0.23	0.23	0.20	0.038	0.038	0.031	0.047	0.047	0.05	3	3	3	14	9	170	170	200
			Middle																											
	6:48		Bottom	4.8	7	7		0.11	0.11		<0.005	<0.005		0.17	0.17		0.024	0.024		0.059	0.059		3	3		3		230	230	
30/11/2023	8:29	Cloudy	Surface	1.0	6	6	6	0.27	0.27	0.27	0.03	0.03	0.03	0.53	0.53	0.56	0.047	0.047	0.046	0.229	0.229	0.26	2	2	2	2	2	230	230	175
			Middle																											
	8:33		Bottom	4.9	6	6		0.26	0.26		0.03	0.03		0.58	0.58		0.045	0.045		0.294	0.294		2	2		2		120	120	
1/12/2023	9:34	Fine	Surface	1.0	8	8	8	0.08	0.08	0.09	0.01	0.01	0.01	0.15	0.15	0.15	0.010	0.010	0.012	0.066	0.066	0.06	3	3	3	8	9	180	180	210
			Middle																											
	9:38		Bottom	4.8	8	8		0.09	0.09		0.01	0.01		0.15	0.15		0.014	0.014		0.051	0.051		3	3		10		240	240	
4/12/2023	8:41	Fine	Surface	1.0	6	6	7	0.03	0.03	0.03	0.01	0.01	0.01	0.07	0.07	0.06	0.004	0.004	0.004	0.027	0.027	0.03	3	3	3	10	12	0	0	0
			Middle																											
	8:45		Bottom	4.8	7	7		0.03	0.03		0.01	0.01		0.06	0.06		0.003	0.003		0.026	0.026		3	3		15		0	0	
6/12/2023	13:55	Cloudy	Surface	1.0	6	6	7	0.02	0.02	0.03	0.02	0.02	0.01	0.07	0.07	0.06	0.005	0.005	0.005	0.028	0.028	0.03	4	4	4	15	13	58	58	54
			Middle																											
	13:59		Bottom	4.9	7	7		0.03	0.03		0.01	0.01		0.06	0.06		0.004	0.004		0.022	0.022		3	3		10		49	49	
8/12/2023	14:55	Fine	Surface	1.0	5	5	5	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.008	0.008	0.007	0.013	0.013	0.01	2	2	2	1	1	2	2	1
			Middle																											
	14:59		Bottom	4.8	4	4		0.04	0.04		0.01	0.01		0.06	0.06		0.005	0.005		0.013	0.013		2	2		0		0	0	
11/12/2023	6:54	Cloudy	Surface	1.0	4	4	5	0.03	0.03	0.05	0.01	0.01	0.01	0.07	0.07	0.09	0.005	0.005	0.008	0.035	0.035	0.04	2	2	2	5	4	0	0	0
			Middle																											
	6:58		Bottom	4.8	5	5		0.07	0.07		0.01	0.01		0.11	0.11		0.010	0.010		0.036	0.036		2	2		4		0	0	
13/12/2023	6:56	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.06	0.01	0.01	0.01	0.05	0.05	0.09	0.002	0.002	0.005	0.024	0.024	0.03	2	2	2	9	9	110	110	115
			Middle																											
	7:00		Bottom	4.8	4	4		0.09	0.09		0.01	0.01		0.12	0.12		0.007	0.007		0.028	0.028		2	2		8		120	120	
15/12/2023	9:48	Fine	Surface	1.0	3	3	4	0.11	0.11	0.15	0.01	0.01	0.01	0.14	0.14	0.19	0.009	0.009	0.008	0.026	0.026	0.03	2	2	2	10	10	7	7	9
			Middle																											
	9:52		Bottom	4.8	4	4		0.19	0.19		0.01	0.01		0.23	0.23		0.006	0.006		0.034	0.034		2	2		9		11	11	
18/12/2023	10:55	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.06	0.002	0.002	0.003	0.019	0.019	0.01	3	3	2	6	6	2	2	3
			Middle																											
	10:59		Bottom	4.8	4	4		0.05	0.05		<0.005	<0.005		0.07	0.07		0.003	0.003		0.01	0.01		2	2		5		3	3	
20/12/2023	14:15	Cloudy	Surface	1.0	7	7	7	0.03	0.03	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.001	0.001	0.002	0.024	0.024	0.02	2	2	2	4	4	28	28	26
			Middle																											
	14:19		Bottom	4.9	7	7		0.04	0.04		0.01	0.01		0.07	0.07		0.002	0.002		0.025	0.025		2	2		5		23	23	
22/12/2023	14:53	Cloudy	Surface	1.0	4	4	4	0.11	0.11	0.10	0.01	0.01	0.01	0.14	0.14	0.13	0.004	0.004	0.004	0.019	0.019	0.02	1	1	1	9	9	3	3	5
			Middle																											
	14:57		Bottom	4.8	4	4		0.09	0.09		0.01	0.01		0.11	0.11		0.003	0.003		0.02	0.02		2	2		9		7	7	
26/12/2023	6:42	Cloudy	Surface	1.0	5	5	6	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	2	2	1	6	5	30	30	34
			Middle																											
	6:46		Bottom	4.8	6	6		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		5		38	38	
28/12/2023	13:53	Fine	Surface	1.0	6	6	6	0.07	0.07	0.06	<0.005	<0.005	<0.005	0.09	0.09	0.08	0.003	0.003	0.002	0.013	0.013	0.01	<1	<1	<1	1	1	2	2	2
			Middle																											
	13:57		Bottom	4.9	6	6		0.05	0.05		<0.005	<0.005		0.07	0.07		0.001	0.001		0.014	0.014		<1	<1		1		2	2	
30/12/2023	10:27	Fine	Surface	1.0	3	3	3	0.16	0.16	0.12	0.01	0.01	0.01	0.20	0.20	0.17	0.007	0.007	0.006	0.038	0.038	0.04	2	2	2	1	1	43	43	54
			Middle																											
	10:31		Bottom	4.7	3	3		0.08	0.08		0.01	0.01		0.13	0.13		0.004	0.004		0.046	0.046		2	2		1		65	65	
2/1/2024	14:41	Fine	Surface	1.0	4	4	4	0.02	0.02	0.03	0.01	0.01	0.01	0.05	0.05	0.06	0.001	0.001	0.002	0.025	0.025	0.03	2	2	2	6	5	42	42	41
			Middle																											
	14:45		Bottom	4.8	4	4		0.04	0.04		0.01	0.01		0.07	0.07		0.002	0.002		0.033	0.033		2	2		4		40	40	
4/1/2024	12:26	Fine	Surface	1.0	5	5	5	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.001	0.001	0.001	0.013	0.013	0.01	2	2	2	4	4	9	9	9
			Middle																											
	12:30		Bottom	4.8	5	5		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.013	0.013		2	2		4		9	9	
6/1/2024	15:10	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	0.01	0.02	0.02	0.04	<0.001	<0.001	<0.001	<0.005	<0.005	0.03	2	2	2	4	4	110	110	135
			Middle																											
	15:14		Bottom	4.6	3	3		0.03	0.03		0.01	0.01		0.07	0.07		<0.001	<0.001		0.027	0.027		2	2		4		160	160	
8/1/2024	14:44	Fine	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	0.01	0.03	0.03	0.04	<0.001	<0.001	<0.001	0.012	0.012	0.01	2	2	2	4	4	1	1	2
			Middle																											
	14:48		Bottom	4.8	4	4		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.013	0.013		2	2		4		3	3	
10/1/2024	15:32	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.012	0.012	0.01	2	2	1	3	2	1	1	1
			Middle																											
	15:36		Bottom	4.7	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.015	0.015		1	1		2		1	1	
12/1/2024	19:49	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.07	0.002	0.002	0.002	0.02	0.02	0.02	2	2	2	3	3	0	0	3
			Middle																											
	19:53		Bottom	4.9	4	4		0.04	0.04		0.01	0.01		0.07	0.07		0.001	0.001		0.022	0.022		2	2		3		6	6	
15/1/2024	11:03	Fine	Surface	1.0	4	4	4	<0.01	<0.01	0.01	<0.005	<0.005	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.013	0.013	0.01	2	2	2	4	3	120	120	110
			Middle																											
	11:07		Bottom	4.8	4	4		0.01	0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		0.008	0.008		2	2		2		100	100	
17/1/2024	12:04	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.015	0.015	0.02	2	2	2	3	3	7	7	8
			Middle																											
	12:08		Bottom	4.7	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.015	0.015		2	2		3		9	9	
19/1/2024	14:10	Fine	Surface	1.0	4	4	4	0.06	0.06	0.07	0.01	0.01	0.01	0.12	0.12	0.12	0.004	0.004	0.004	0.047	0.047	0.05	1	1	1	6	5	2	2	3
			Middle																											
	14:14		Bottom	4.7	4	4		0.07	0.07		<0.005	<0.005		0.12	0.12		0.003	0.003		0.047	0.047		1	1		4		3	3	

Water Monitoring Result at W1 - WSD Seawater Intake at Sha Tin
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	12:41	Cloudy	Surface	1.0	5	5	5	0.12	0.12	0.12	<0.005	<0.005	<0.005	0.15	0.15	0.15	0.025	0.025	0.022	0.020	0.020	0.02	1	1	2	4	3	190	190	180
			Middle																											
	12:45		Bottom	4.6	4	4		0.11	0.11		<0.005	<0.005		0.14	0.14		0.018	0.018		0.022	0.022		2	2		3		170	170	
30/11/2023	12:40	Cloudy	Surface	1.0	4	4	4	0.17	0.17	0.18	0.02	0.02	0.02	0.38	0.38	0.38	0.030	0.030	0.031	0.187	0.187	0.18	2	2	2	4	5	120	120	140
			Middle																											
	12:44		Bottom	4.7	4	4		0.18	0.18		0.02	0.02		0.37	0.37		0.032	0.032		0.174	0.174		2	2		6		160	160	
1/12/2023	14:52	Fine	Surface	1.0	7	7	6	0.03	0.03	0.04	0.01	0.01	0.01	0.07	0.07	0.07	0.004	0.004	0.005	0.03	0.03	0.03	2	2	3	1	3	170	170	200
			Middle																											
	14:56		Bottom	4.7	5	5		0.04	0.04		0.01	0.01		0.08	0.08		0.006	0.006		0.036	0.036		4	4		6		230	230	
4/12/2023	16:59	Fine	Surface	1.0	5	5	5	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.005	0.005	0.004	0.0.12	0.0.12	0.01	3	3	3	0	1	1	1	1
			Middle																											
	17:03		Bottom	4.6	5	5		0.04	0.04		<0.005	<0.005		0.06	0.06		0.003	0.003		0.014	0.014		2	2		1		0	0	
6/12/2023	7:22	Cloudy	Surface	1.0	5	5	5	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.02	0.02	0.03	0.002	0.002	0.003	<0.005	<0.005	0.01	2	2	2	2	2	46	46	46
			Middle																											
	7:26		Bottom	4.6	5	5		0.02	0.02		<0.005	<0.005		0.04	0.04		0.003	0.003		0.013	0.013		3	3		2		45	45	
8/12/2023	8:24	Fine	Surface	1.0	3	3	4	0.02	0.02	0.08	<0.005	<0.005	<0.005	0.04	0.04	0.10	0.005	0.005	0.011	0.008	0.008	0.02	1	1	2	3	4	4	4	2
			Middle																											
	8:28		Bottom	4.6	4	4		0.13	0.13		<0.005	<0.005		0.16	0.16		0.016	0.016		0.022	0.022		2	2		5		0	0	
11/12/2023	10:46	Cloudy	Surface	1.0	5	5	5	0.13	0.13	0.10	<0.005	<0.005	<0.005	0.15	0.15	0.12	0.026	0.026	0.018	0.017	0.017	0.02	2	2	1	4	3	1	1	1
			Middle																											
	10:50		Bottom	4.7	4	4		0.06	0.06		<0.005	<0.005		0.08	0.08		0.009	0.009		0.015	0.015		1	1		3		0	0	
13/12/2023	11:44	Cloudy	Surface	1.0	4	4	4	0.15	0.15	0.14	0.01	0.01	0.01	0.18	0.18	0.17	0.012	0.012	0.011	0.029	0.029	0.03	2	2	2	5	6	81	81	96
			Middle																											
	11:48		Bottom	4.6	4	4		0.12	0.12		0.01	0.01		0.16	0.16		0.009	0.009		0.033	0.033		2	2		7		110	110	
15/12/2023	14:27	Fine	Surface	1.0	5	5	5	0.16	0.16	0.19	0.01	0.01	0.01	0.19	0.19	0.22	0.015	0.015	0.012	0.026	0.026	0.03	2	2	2	10	10	5	5	7
			Middle																											
	14:31		Bottom	4.5	5	5		0.21	0.21		<0.005	<0.005		0.24	0.24		0.008	0.008		0.027	0.027		2	2		10		8	8	
18/12/2023	15:10	Cloudy	Surface	1.0	4	4	5	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.003	0.003	0.003	0.007	0.007	0.01	2	2	2	5	6	2	2	2
			Middle																											
	15:14		Bottom	4.7	5	5		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.007	0.007		2	2		7		1	1	
20/12/2023	8:15	Cloudy	Surface	1.0	5	5	5	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.04	<0.001	<0.001	0.001	0.014	0.014	0.01	1	1	1	13	9	27	27	25
			Middle																											
	8:19		Bottom	4.8	5	5		0.02	0.02		0.01	0.01		0.04	0.04		0.001	0.001		0.011	0.011		1	1		5		23	23	
22/12/2023	8:42	Cloudy	Surface	1.0	6	6	6	0.09	0.09	0.09	0.01	0.01	0.01	0.11	0.11	0.11	0.003	0.003	0.003	0.014	0.014	0.01	2	2	2	9	8	10	10	10
			Middle																											
	8:46		Bottom	4.8	5	5		0.08	0.08		0.01	0.01		0.10	0.10		0.003	0.003		0.015	0.015		2	2		6		10	10	
26/12/2023	11:49	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.03	<0.005	<0.005	<0.005	0.02	0.02	0.04	<0.001	<0.001	0.002	<0.005	<0.005	<0.005	1	1	1	3	2	37	37	33
			Middle																											
	11:53		Bottom	4.6	3	3		0.05	0.05		<0.005	<0.005		0.06	0.06		0.002	0.002		<0.005	<0.005		1	1		2		29	29	
28/12/2023	9:40	Fine	Surface	1.0	4	4	4	0.05	0.05	0.05	0.01	0.01	0.01	0.08	0.08	0.07	0.002	0.002	0.002	0.005	0.005	0.01	1	1	1	3	3	0	0	1
			Middle																											
	9:44		Bottom	4.7	3	3		0.04	0.04		0.01	0.01		0.05	0.05		<0.001	<0.001		0.005	0.005		1	1		2		2	2	
30/12/2023	15:09	Fine	Surface	1.0	4	4	4	0.21	0.21	0.16	<0.005	<0.005	0.01	0.23	0.23	0.18	0.010	0.010	0.007	0.019	0.019	0.02	2	2	2	2	2	24	24	25
			Middle																											
	15:13		Bottom	4.6	3	3		0.10	0.10		0.01	0.01		0.13	0.13		0.003	0.003		0.018	0.018		2	2		2		26	26	
2/1/2024	7:25	Fine	Surface	1.0	3	3	4	0.04	0.04	0.04	0.01	0.01	0.01	0.08	0.08	0.07	0.002	0.002	0.002	0.025	0.025	0.03	2	2	2	7	6	48	48	39
			Middle																											
	7:29		Bottom	4.6	4	4		0.04	0.04		0.01	0.01		0.07	0.07		0.002	0.002		0.026	0.026		2	2		5		30	30	
4/1/2024	16:26	Fine	Surface	1.0	4	4	4	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.011	0.011	0.01	2	2	2	6	5	9	9	8
			Middle																											
	16:30		Bottom	4.6	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.013	0.013		2	2		4		6	6	
6/1/2024	9:00	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.016	0.016	0.02	2	2	2	4	4	140	140	120
			Middle																											
	9:04		Bottom	4.7	3	3		0.03	0.03		0.01	0.01		0.05	0.05		<0.001	<0.001		0.015	0.015		2	2		4		100	100	
8/1/2024	9:31	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.002	0.002	0.002	0.018	0.018	0.02	2	2	2	3	3	1	1	1
			Middle																											
	9:35		Bottom	4.6	4	4		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.019	0.019		2	2		3		0	0	
10/1/2024	11:11	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.002	0.002	0.002	0.011	0.011	0.01	2	2	2	2	2	0	0	0
			Middle																											
	11:15		Bottom	4.7	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.012	0.012		2	2		2		0	0	
12/1/2024	14:07	Fine	Surface	1.0	3	3	4	0.06	0.06	0.06	<0.005	<0.005	0.01	0.09	0.09	0.08	0.004	0.004	0.003	0.025	0.025	0.02	2	2	2	7	5	21	21	25
			Middle																											
	14:11		Bottom	4.7	4	4		0.05	0.05		0.01	0.01		0.08	0.08		0.002	0.002		0.022	0.022		2	2		3		28	28	
15/1/2024	16:39	Fine	Surface	1.0	4	4	4	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.04	<0.001	<0.001	<0.001	0.015	0.015	0.01	2	2	2	3	3	5	5	6
			Middle																											
	16:43		Bottom	4.6	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.012	0.012		2	2		3		7	7	
17/1/2024	18:37	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.012	0.012	0.01	2	2	2	5	4	8	8	7
			Middle																											
	18:41		Bottom	4.7	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.014	0.014		2	2		3		6	6	
19/1/2024	8:43	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	0.01	0.01	0.01	0.10	0.10	0.11	0.002	0.002	0.002	0.061	0.061	0.06	2	2	2	6	7	6	6	5
			Middle																											
	8:47		Bottom	4.7	3	3		0.04	0.04		0.01	0.01		0.11	0.11		0.002	0.002		0.061	0.061		2	2		8		3	3	

Water Monitoring Result at W2 - WSD Seawater Intake at Tai Po
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	5:49	Cloudy	Surface	1.0	6	6	6	0.20	0.20	0.18	<0.005	<0.005	<0.005	0.26	0.26	0.23	0.330	0.330	0.245	0.058	0.058	0.05	3	3	3	1	1	150	150	170
			Middle																											
	5:51		Bottom	3.4	6	6		0.15	0.15		<0.005	<0.005		0.19	0.19		0.160	0.160		0.034	0.034		3	3		1		190	190	
30/11/2023	7:33	Cloudy	Surface	1.0	6	6	6	1.90	1.90	1.40	0.04	0.04	0.03	2.00	2.00	1.50	0.394	0.394	0.263	0.125	0.125	0.10	2	2	2	1	2	130	130	125
			Middle																											
	7:34		Bottom	3.5	5	5		0.90	0.90		0.02	0.02		1.00	1.00		0.131	0.131		0.073	0.073		2	2		2		120	120	
1/12/2023	8:34	Fine	Surface	1.0	6	6	6	0.10	0.10	0.10	0.01	0.01	0.01	0.13	0.13	0.13	0.021	0.021	0.020	0.023	0.023	0.02	3	3	3	11	13	320	320	295
			Middle																											
	8:38		Bottom	3.4	6	6		0.10	0.10		0.01	0.01		0.13	0.13		0.018	0.018		0.021	0.021		3	3		14		270	270	
4/12/2023	7:41	Fine	Surface	1.0	7	7	6	0.12	0.12	0.12	<0.005	<0.005	<0.005	0.16	0.16	0.16	0.021	0.021	0.015	0.037	0.037	0.03	2	2	2	7	7	20	20	18
			Middle																											
	7:45		Bottom	3.4	4	4		0.12	0.12		<0.005	<0.005		0.15	0.15		0.009	0.009		0.027	0.027		2	2		6		15	15	
6/12/2023	13:03	Cloudy	Surface	1.0	8	8	8	0.02	0.02	0.03	0.01	0.01	0.01	0.04	0.04	0.05	0.004	0.004	0.005	0.02	0.02	0.02	3	3	3	4	9	100	100	155
			Middle																											
	13:07		Bottom	3.5	7	7		0.03	0.03		0.01	0.01		0.06	0.06		0.005	0.005		0.023	0.023		3	3		14		210	210	
8/12/2023	14:04	Fine	Surface	1.0	5	5	5	0.05	0.05	0.04	0.01	0.01	0.01	0.08	0.08	0.06	0.013	0.013	0.010	0.018	0.018	0.02	1	1	1	5	5	53	53	51
			Middle																											
	14:08		Bottom	3.4	5	5		0.03	0.03		0.01	0.01		0.05	0.05		0.006	0.006		0.016	0.016		1	1		5		48	48	
11/12/2023	6:03	Cloudy	Surface	1.0	5	5	5	0.01	0.01	0.18	0.01	0.01	0.01	0.04	0.04	0.22	0.005	0.005	0.053	0.024	0.024	0.03	2	2	2	10	9	9	9	9
			Middle																											
	6:07		Bottom	3.4	4	4		0.34	0.34		0.01	0.01		0.39	0.39		0.100	0.100		0.042	0.042		2	2		7		8	8	
13/12/2023	6:03	Cloudy	Surface	1.0	5	5	5	0.02	0.02	0.05	0.01	0.01	0.01	0.05	0.05	0.08	0.002	0.002	0.005	0.021	0.021	0.02	2	2	2	3	6	110	110	170
			Middle																											
	6:07		Bottom	3.4	4	4		0.08	0.08		0.01	0.01		0.11	0.11		0.007	0.007		0.027	0.027		2	2		9		230	230	
15/12/2023	8:03	Fine	Surface	1.0	5	5	5	0.18	0.18	0.21	0.01	0.01	0.01	0.28	0.28	0.30	0.014	0.014	0.012	0.089	0.089	0.08	2	2	2	8	8	160	160	150
			Middle																											
	8:07		Bottom	3.4	5	5		0.24	0.24		0.01	0.01		0.32	0.32		0.010	0.010		0.074	0.074		2	2		7		140	140	
18/12/2023	10:03	Cloudy	Surface	1.0	5	5	6	0.09	0.09	0.09	0.01	0.01	0.01	0.15	0.15	0.15	0.004	0.004	0.004	0.05	0.05	0.05	1	1	1	13	9	120	120	135
			Middle																											
	10:07		Bottom	3.4	6	6		0.09	0.09		0.01	0.01		0.15	0.15		0.004	0.004		0.053	0.053		1	1		5		150	150	
20/12/2023	13:22	Cloudy	Surface	1.0	6	6	5	0.03	0.03	0.04	0.01	0.01	0.01	0.08	0.08	0.08	0.001	0.001	0.001	0.037	0.037	0.04	2	2	1	2	3	3	3	4
			Middle																											
	13:26		Bottom	3.3	4	4		0.04	0.04		0.01	0.01		0.09	0.09		0.001	0.001		0.036	0.036		1	1		4		5	5	
22/12/2023	13:44	Cloudy	Surface	1.0	7	7	7	0.13	0.13	0.13	0.01	0.01	0.01	0.16	0.16	0.16	0.005	0.005	0.005	0.018	0.018	0.02	2	2	2	9	9	32	32	31
			Middle																											
	13:48		Bottom	3.4	6	6		0.12	0.12		0.01	0.01		0.15	0.15		0.004	0.004		0.019	0.019		2	2		9		29	29	
26/12/2023	5:45	Cloudy	Surface	1.0	7	7	6	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.03	<0001	<0001	<0.001	0.012	0.012	0.01	1	1	1	6	6	46	46	47
			Middle																											
	5:49		Bottom	3.4	5	5		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.007	0.007		1	1		7		48	48	
28/12/2023	13:00	Fine	Surface	1.0	5	5	5	0.13	0.13	0.10	0.01	0.01	0.01	0.23	0.23	0.15	0.005	0.005	0.004	0.094	0.094	0.06	1	1	1	2	4	450	450	475
			Middle																											
	13:04		Bottom	3.3	4	4		0.06	0.06		0.01	0.01		0.08	0.08		0.002	0.002		0.016	0.016		1	1		5		500	500	
30/12/2023	9:35	Fine	Surface	1.0	3	3	3	0.16	0.16	0.18	0.01	0.01	0.01	0.19	0.19	0.21	0.007	0.007	0.007	0.006	0.006	0.01	2	2	2	5	3	180	180	185
			Middle																											
	9:39		Bottom	3.5	3	3		0.19	0.19		<0.005	<0.005		0.22	0.22		0.007	0.007		<0.005	<0.005		2	2		1		190	190	
2/1/2024	13:47	Fine	Surface	1.0	5	5	5	0.06	0.06	0.06	0.01	0.01	0.01	0.10	0.10	0.09	0.003	0.003	0.003	0.033	0.033	0.03	2	2	2	5	4	12	12	9
			Middle																											
	13:51		Bottom	3.6	4	4		0.06	0.06		0.01	0.01		0.09	0.09		0.003	0.003		0.028	0.028		2	2		4		6	6	
4/1/2024	11:33	Fine	Surface	1.0	4	4	4	0.27	0.27	0.28	0.01	0.01	0.01	0.31	0.31	0.32	0.012	0.012	0.013	0.033	0.033	0.03	1	1	1	3	2	100	100	76
			Middle																											
	11:37		Bottom	3.5	4	4		0.29	0.29		<0.005	<0.005		0.33	0.33		0.013	0.013		0.034	0.034		1	1		2		52	52	
6/1/2024	14:15	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	4	4	150	150	114
			Middle																											
	14:19		Bottom	3.4	3	3		0.03	0.03		0.01	0.01		0.05	0.05		<0.001	<0.001		0.013	0.013		2	2		4		77	77	
8/1/2024	13:52	Fine	Surface	1.0	5	5	5	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.002	0.002	0.003	0.018	0.018	0.02	2	2	2	5	4	32	32	42
			Middle																											
	13:56		Bottom	3.6	4	4		0.05	0.05		<0.005	<0.005		0.07	0.07		0.003	0.003		0.018	0.018		2	2		3		51	51	
10/1/2024	14:38	Fine	Surface	1.0	4	4	4	0.09	0.09	0.09	0.01	0.01	0.01	0.17	0.17	0.17	0.005	0.005	0.005	0.072	0.072	0.07	2	2	2	5	5	250	250	275
			Middle																											
	14:42		Bottom	3.5	4	4		0.09	0.09		0.01	0.01		0.17	0.17		0.004	0.004		0.07	0.07		2	2		5		300	300	
12/1/2024	18:56	Fine	Surface	1.0	5	5	4	0.04	0.04	0.04	0.01	0.01	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.012	0.012	0.01	2	2	2	3	4	200	200	170
			Middle																											
	19:00		Bottom	3.6	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.001	0.001		0.011	0.011		2	2		5		140	140	
15/1/2024	10:10	Fine	Surface	1.0	4	4	4	0.16	0.16	0.14	0.01	0.01	0.01	0.21	0.21	0.19	0.007	0.007	0.006	0.044	0.044	0.04	2	2	2	4	3	26	26	36
			Middle																											
	10:14		Bottom	3.5	3	3		0.12	0.12		0.01	0.01		0.17	0.17		0.004	0.004		0.042	0.042		2	2		2		46	46	
17/1/2024	11:41	Cloudy	Surface	1.0	4	4	4	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.003	0.003	0.003	0.018	0.018	0.02	2	2	2	4	4	0	0	0
			Middle																											
	11:45		Bottom	3.5	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.019	0.019		2	2		5		0	0	
19/1/2024	13:17	Fine	Surface	1.0	4	4	4	0.07	0.07	0.08	<0.005	<0.005	<0.005	0.09	0.09	0.11	0.004	0.004	0.004	0.02	0.02	0.02	2	2	2	3	4	8	8	7
			Middle																											
	13:21		Bottom	3.6	4	4		0.09	0.09		<0.005	<0.005		0.12	0.12		0.003	0.003		0.022	0.022		1	1		4		5	5	

Water Monitoring Result at W2 - WSD Seawater Intake at Tai Po
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	11:47	Cloudy	Surface	1.0	7	7	8	0.12	0.12	0.14	<0.005	<0.005	<0.005	0.13	0.13	0.16	0.090	0.090	0.145	0.09	0.09	0.06	2	2	4	1	1	150	150	125
			Middle																											
	11:51		Bottom	3.3	8	8		0.16	0.16		<0.005	<0.005		0.19	0.19		0.200	0.200		0.025	0.025		6	6		1		100	100	
30/11/2023	13:35	Cloudy	Surface	1.0	4	4	5	0.51	0.51	0.81	0.02	0.02	0.02	0.60	0.60	0.90	0.109	0.109	0.131	0.075	0.075	0.07	2	2	2	3	3	170	170	220
			Middle																											
	13:39		Bottom	3.3	5	5		1.10	1.10		0.02	0.02		1.20	1.20		0.153	0.153		0.073	0.073		2	2		4		270	270	
1/12/2023	15:47	Fine	Surface	1.0	5	5	6	0.05	0.05	0.04	0.01	0.01	0.01	0.07	0.07	0.06	0.010	0.010	0.008	0.014	0.014	0.01	4	4	4	12	10	310	310	355
			Middle																											
	15:51		Bottom	3.2	6	6		0.03	0.03		0.01	0.01		0.05	0.05		0.005	0.005		0.012	0.012		4	4		8		400	400	
4/12/2023	16:02	Fine	Surface	1.0	4	4	5	0.21	0.21	0.17	<0.005	<0.005	<0.005	0.27	0.27	0.22	0.036	0.036	0.023	0.051	0.051	0.04	2	2	2	0	0	120	120	125
			Middle																											
	16:06		Bottom	3.4	5	5		0.13	0.13		<0.005	<0.005		0.16	0.16		0.010	0.010		0.026	0.026		2	2		0		130	130	
6/12/2023	6:32	Cloudy	Surface	1.0	5	5	6	0.09	0.09	0.05	0.01	0.01	0.01	0.10	0.10	0.07	0.023	0.023	0.013	<0.005	<0.005	0.02	4	4	3	4	4	1000	1000	690
			Middle																											
	6:36		Bottom	3.3	6	6		0.01	0.01		0.01	0.01		0.04	0.04		0.002	0.002		0.016	0.016		2	2		4		380	380	
8/12/2023	7:33	Fine	Surface	1.0	4	4	4	0.05	0.05	0.10	0.01	0.01	0.01	0.09	0.09	0.13	0.014	0.014	0.021	0.031	0.031	0.03	2	2	1	4	2	37	37	39
			Middle																											
	7:37		Bottom	3.2	3	3		0.14	0.14		0.01	0.01		0.17	0.17		0.027	0.027		0.024	0.024		1	1		1		41	41	
11/12/2023	11:38	Cloudy	Surface	1.0	4	4	4	0.18	0.18	0.19	0.01	0.01	0.01	0.23	0.23	0.24	0.019	0.019	0.040	0.041	0.041	0.04	2	2	2	22	14	19	19	19
			Middle																											
	11:42		Bottom	3.2	4	4		0.20	0.20		0.01	0.01		0.24	0.24		0.060	0.060		0.04	0.04		1	1		5		18	18	
13/12/2023	10:52	Cloudy	Surface	1.0	4	4	5	0.10	0.10	0.07	0.01	0.01	0.01	0.13	0.13	0.10	0.009	0.009	0.006	0.028	0.028	0.02	2	2	2	7	7	170	170	165
			Middle																											
	10:56		Bottom	3.2	5	5		0.04	0.04		0.01	0.01		0.06	0.06		0.003	0.003		0.02	0.02		2	2		7		160	160	
15/12/2023	12:59	Fine	Surface	1.0	4	4	4	0.23	0.23	0.20	0.01	0.01	0.01	0.31	0.31	0.28	0.022	0.022	0.015	0.071	0.071	0.07	2	2	1	7	7	180	180	185
			Middle																											
	13:03		Bottom	3.1	3	3		0.17	0.17		0.01	0.01		0.25	0.25		0.008	0.008		0.068	0.068		1	1		6		190	190	
18/12/2023	14:17	Cloudy	Surface	1.0	5	5	5	0.08	0.08	0.08	0.01	0.01	0.01	0.13	0.13	0.14	0.003	0.003	0.003	0.035	0.035	0.05	1	1	1	5	4	280	280	240
			Middle																											
	14:21		Bottom	3.2	4	4		0.08	0.08		0.01	0.01		0.15	0.15		0.003	0.003		0.056	0.056		1	1		3		200	200	
20/12/2023	7:21	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.04	0.01	0.01	0.01	0.04	0.04	0.06	<0.001	<0.001	0.002	0.007	0.007	0.02	1	1	1	4	3	0	0	1
			Middle																											
	7:25		Bottom	3.4	4	4		0.05	0.05		0.01	0.01		0.08	0.08		0.002	0.002		0.024	0.024		1	1		2		1	1	
22/12/2023	7:27	Cloudy	Surface	1.0	5	5	6	0.10	0.10	0.09	0.01	0.01	0.01	0.13	0.13	0.11	0.003	0.003	0.003	0.024	0.024	0.02	2	2	2	8	7	36	36	41
			Middle																											
	7:31		Bottom	3.4	6	6		0.07	0.07		0.01	0.01		0.10	0.10		0.003	0.003		0.014	0.014		2	2		5		45	45	
26/12/2023	10:45	Cloudy	Surface	1.0	3	3	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.05	<0.001	<0.001	<0.001	0.021	0.021	0.02	1	1	1	4	3	47	47	48
			Middle																											
	10:49		Bottom	3.3	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		<0.001	<0.001		0.017	0.017		1	1		1		48	48	
28/12/2023	8:48	Fine	Surface	1.0	4	4	4	0.04	0.04	0.05	0.01	0.01	0.01	0.08	0.08	0.09	0.002	0.002	0.002	0.029	0.029	0.04	<1	<1	1	12	6	470	470	535
			Middle																											
	8:52		Bottom	3.5	4	4		0.06	0.06		0.01	0.01		0.11	0.11		0.002	0.002		0.041	0.041		1	1		1		600	600	
30/12/2023	14:15	Fine	Surface	1.0	3	3	3	0.26	0.26	0.23	0.01	0.01	0.01	0.29	0.29	0.25	0.011	0.011	0.009	0.026	0.026	0.02	2	2	2	3	2	81	81	72
			Middle																											
	14:19		Bottom	3.4	3	3		0.19	0.19		0.01	0.01		0.21	0.21		0.006	0.006		0.02	0.02		2	2		1		62	62	
2/1/2024	6:33	Fine	Surface	1.0	4	4	4	0.05	0.05	0.04	0.01	0.01	0.01	0.08	0.08	0.07	0.003	0.003	0.003	0.029	0.029	0.03	2	2	2	4	4	17	17	15
			Middle																											
	6:37		Bottom	3.3	4	4		0.03	0.03		0.01	0.01		0.06	0.06		0.002	0.002		0.021	0.021		2	2		4		12	12	
4/1/2024	17:33	Fine	Surface	1.0	3	3	3	0.28	0.28	0.28	<0.005	<0.005	0.01	0.31	0.31	0.31	0.012	0.012	0.012	0.026	0.026	0.03	2	2	2	4	3	85	85	103
			Middle																											
	17:37		Bottom	3.4	3	3		0.27	0.27		0.01	0.01		0.31	0.31		0.012	0.012		0.039	0.039		2	2		2		120	120	
6/1/2024	8:08	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	0.01	0.01	0.01	0.04	0.04	0.05	0.001	0.001	0.001	0.009	0.009	0.01	1	1	1	5	5	140	140	130
			Middle																											
	8:12		Bottom	3.5	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.001	0.001		0.015	0.015		1	1		5		120	120	
8/1/2024	8:48	Fine	Surface	1.0	4	4	4	0.05	0.05	0.06	0.01	0.01	0.01	0.76	0.76	0.09	0.003	0.003	0.003	0.021	0.021	0.02	2	2	2	3	3	75	75	72
			Middle																											
	8:52		Bottom	3.4	4	4		0.06	0.06		0.01	0.01		0.09	0.09		0.003	0.003		0.017	0.017		2	2		4		68	68	
10/1/2024	10:18	Fine	Surface	1.0	4	4	4	0.12	0.12	0.12	0.01	0.01	0.01	0.19	0.19	0.19	0.009	0.009	0.008	0.063	0.063	0.06	2	2	2	5	4	380	380	390
			Middle																											
	10:22		Bottom	3.5	4	4		0.11	0.11		0.01	0.01		0.18	0.18		0.006	0.006		0.062	0.062		2	2		3		400	400	
12/1/2024	13:14	Fine	Surface	1.0	3	3	4	0.06	0.06	0.05	0.01	0.01	0.01	0.10	0.10	0.08	0.003	0.003	0.002	0.032	0.032	0.03	2	2	2	3	3	150	150	160
			Middle																											
	13:18		Bottom	3.5	4	4		0.03	0.03		0.01	0.01		0.06	0.06		0.001	0.001		0.023	0.023		2	2		3		170	170	
15/1/2024	15:45	Fine	Surface	1.0	4	4	4	0.08	0.08	0.05	0.01	0.01	0.01	0.13	0.13	0.08	0.004	0.004	0.004	0.04	0.04	0.03	1	1	2	3	3	51	51	54
			Middle																											
	15:49		Bottom	3.4	4	4		0.01	0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.019	0.019		2	2		4		56	56	
17/1/2024	17:43	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	4	4	0	0	0
			Middle																											
	17:47		Bottom	3.5	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.009	0.009		2	2		4		0	0	
19/1/2024	7:50	Fine	Surface	1.0	3	3	4	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.10	0.002	0.002	0.002	0.019	0.019	0.06	2	2	2	6	5	34	34	32
			Middle																											
	7:54		Bottom	3.4	4	4		0.05	0.05		<0.005	<0.005		0.15	0.15		0.002	0.002		0.099	0.099		2	2		4		29	29	

Water Monitoring Result at C1 - Cooling Water Intake at CUHK Marine Science Laboratory

Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	6:10	Cloudy	Surface	1.0	3	3	3	0.17	0.17	0.16	<0.005	<0.005	<0.005	0.19	0.19	0.18	0.015	0.015	0.012	0.014	0.014	0.01	5	5	5	1	1	80	80	175
			Middle																											
	6:14		Bottom	4.8	3	3		0.15	0.15		<0.005	<0.005		0.16	0.16		0.008	0.008		0.011	0.011		3.5	4		1		270	270	
30/11/2023	7:56	Cloudy	Surface	1.0	6	6	5	0.09	0.09	0.08	<0.005	<0.005	<0.005	0.12	0.12	0.10	0.021	0.021	0.015	0.02	0.02	0.08	2	2	2	1	1	300	300	325
			Middle																											
	8:00		Bottom	4.9	4	4		0.06	0.06		<0.005	<0.005		0.08	0.08		0.009	0.009		0.14	0.14		2	2		1		350	350	
1/12/2023	8:58	Fine	Surface	1.0	5	5	6	0.07	0.07	0.08	<0.005	<0.005	<0.005	0.09	0.09	0.09	0.015	0.015	0.015	0.012	0.012	0.01	3	3	3	15	15	880	880	810
			Middle																											
	9:02		Bottom	4.8	6	6		0.08	0.08		<0.005	<0.005		0.10	0.10		0.014	0.014		0.015	0.015		2	2		15		740	740	
4/12/2023	8:04	Fine	Surface	1.0	4	4	5	0.07	0.07	0.06	<0.005	<0.005	<0.005	0.10	0.10	0.08	0.011	0.011	0.010	0.024	0.024	0.02	2	2	2	4	4	0	0	0
			Middle																											
	8:08		Bottom	4.8	5	5		0.05	0.05		<0.005	<0.005		0.07	0.07		0.008	0.008		0.016	0.016		2	2		3		0	0	
6/12/2023	13:23	Cloudy	Surface	1.0	6	6	6	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.04	0.004	0.004	0.004	0.017	0.017	0.02	2	2	2	9	9	16	16	34
			Middle																											
	13:27		Bottom	4.7	6	6		0.02	0.02		0.01	0.01		0.04	0.04		0.003	0.003		0.015	0.015		2	2		9		52	52	
8/12/2023	14:23	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.006	0.006	0.005	0.005	0.005	0.01	2	2	1	3	3	2	2	5
			Middle																											
	14:27		Bottom	4.8	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.004	0.004		0.005	0.005		1	1		3		7	7	
11/12/2023	6:22	Cloudy	Surface	1.0	3	3	3	0.10	0.10	0.11	<0.005	<0.005	<0.005	0.11	0.11	0.12	0.029	0.029	0.032	0.008	0.008	0.01	2	2	2	7	6	1	1	1
			Middle																											
	6:26		Bottom	4.8	3	3		0.12	0.12		<0.005	<0.005		0.13	0.13		0.035	0.035		0.011	0.011		2	2		5		1	1	
13/12/2023	6:24	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	0.01	0.01	0.01	0.05	0.05	0.04	0.002	0.002	0.002	0.019	0.019	0.02	2	2	2	8	6	30	30	28
			Middle																											
	6:28		Bottom	4.8	3	3		0.01	0.01		0.01	0.01		0.03	0.03		0.001	0.001		0.012	0.012		2	2		5		26	26	
15/12/2023	8:49	Fine	Surface	1.0	5	5	5	0.12	0.12	0.16	<0.005	<0.005	<0.005	0.14	0.14	0.19	0.010	0.010	0.009	0.016	0.016	0.02	2	2	2	12	8	2	2	2
			Middle																											
	8:53		Bottom	4.8	5	5		0.20	0.20		<0.005	<0.005		0.24	0.24		0.007	0.007		0.031	0.031		2	2		4		2	2	
18/12/2023	10:23	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.05	0.01	0.01	0.01	0.07	0.07	0.07	0.003	0.003	0.003	0.016	0.016	0.02	1	1	1	8	6	8	8	8
			Middle																											
	10:27		Bottom	4.8	4	4		0.05	0.05		0.01	0.01		0.08	0.08		0.003	0.003		0.019	0.019		2	2		4		7	7	
20/12/2023	13:43	Cloudy	Surface	1.0	5	5	5	0.02	0.02	0.03	0.01	0.01	0.01	0.05	0.05	0.06	<0.001	<0.001	0.001	0.026	0.026	0.03	2	2	2	9	7	29	29	26
			Middle																											
	13:47		Bottom	4.9	4	4		0.04	0.04		0.01	0.01		0.07	0.07		0.001	0.001		0.026	0.026		2	2		5		22	22	
22/12/2023	14:12	Cloudy	Surface	1.0	5	5	5	0.09	0.09	0.11	0.01	0.01	0.01	0.12	0.12	0.14	0.003	0.003	0.004	0.017	0.017	0.02	1	1	2	10	9	5	5	5
			Middle																											
	14:16		Bottom	4.8	4	4		0.12	0.12		0.01	0.01		0.15	0.15		0.004	0.004		0.026	0.026		2	2		9		5	5	
26/12/2023	6:08	Cloudy	Surface	1.0	5	5	5	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	1	1	1	3	5	35	35	36
			Middle																											
	6:12		Bottom	4.8	4	4		<0.01	<0.01		<0.005	<0.005		0.01	0.01		<0.001	<0.001		<0.005	<0.005		1	1		6		37	37	
28/12/2023	13:21	Fine	Surface	1.0	3	3	3	0.10	0.10	0.14	<0.005	<0.005	0.01	0.13	0.13	0.22	0.004	0.004	0.006	0.022	0.022	0.07	1	1	1	8	6	41	41	38
			Middle																											
	13:25		Bottom	4.9	3	3		0.18	0.18		0.01	0.01		0.31	0.31		0.007	0.007		0.122	0.122		<1	<1		5		35	35	
30/12/2023	9:55	Fine	Surface	1.0	3	3	3	0.12	0.12	0.14	<0.005	<0.005	0.01	0.15	0.15	0.17	0.006	0.006	0.006	0.023	0.023	0.02	2	2	2	3	2	31	31	37
			Middle																											
	9:59		Bottom	4.7	3	3		0.15	0.15		0.01	0.01		0.18	0.18		0.005	0.005		0.024	0.024		2	2		2		42	42	
2/1/2024	14:07	Fine	Surface	1.0	3	3	3	0.10	0.10	0.10	0.01	0.01	0.01	0.13	0.13	0.14	0.005	0.005	0.005	0.027	0.027	0.03	1	1	1	4	3	0	0	0
			Middle																											
	14:11		Bottom	4.9	3	3		0.10	0.10		0.01	0.01		0.14	0.14		0.005	0.005		0.027	0.027		1	1		2		0	0	
4/1/2024	11:53	Fine	Surface	1.0	3	3	3	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.04	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	1	2	6	6	6
			Middle																											
	11:57		Bottom	4.8	3	3		0.01	0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.007	0.007		2	2		3		6	6	
6/1/2024	14:37	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	4	4	110	110	110
			Middle																											
	14:41		Bottom	4.9	3	3		0.03	0.03		0.01	0.01		0.04	0.04		<0.001	<0.001		0.013	0.013		1	1		5		110	110	
8/1/2024	14:12	Fine	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	0.01	0.03	0.03	0.04	<0.001	<0.001	0.001	0.006	0.006	0.01	2	2	2	2	2	2	2	1
			Middle																											
	14:16		Bottom	4.9	4	4		0.02	0.02		0.01	0.01		0.04	0.04		0.001	0.001		0.013	0.013		2	2		2		0	0	
10/1/2024	14:58	Fine	Surface	1.0	3	3	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.012	0.012	0.01	2	2	2	2	2	1	1	1
			Middle																											
	15:02		Bottom	4.7	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.017	0.017		2	2		2		0	0	
12/1/2024	19:17	Fine	Surface	1.0	3	3	4	0.04	0.04	0.05	0.01	0.01	0.01	0.07	0.07	0.08	0.002	0.002	0.002	0.022	0.022	0.02	2	2	2	3	2	17	17	19
			Middle																											
	19:21		Bottom	4.8	4	4		0.06	0.06		<0.005	<0.005		0.08	0.08		0.002	0.002		0.022	0.022		2	2		2		20	20	
15/1/2024	10:30	Fine	Surface	1.0	4	4	4	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.01	0.01	0.02	2	2	2	2	2	98	98	93
			Middle																											
	10:34		Bottom	4.8	4	4		<0.01	<0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.02	0.02		2	2		2		87	87	
17/1/2024	12:01	Cloudy	Surface	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.002	0.008	0.008	0.01	2	2	2	4	4	13	13	12
			Middle																											
	12:05		Bottom	4.9	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.014	0.014		2	2		4		11	11	
19/1/2024	13:37	Fine	Surface	1.0	3	3	3	0.07	0.07	0.07	0.01	0.01	0.01	0.14	0.14	0.14	0.004	0.004	0.003	0.062	0.062	0.06	2	2	2	7	7	5	5	5
			Middle																											
	13:41		Bottom	4.8	3	3		0.06	0.06		0.01	0.01		0.13	0.13		0.002	0.002		0.063	0.063		2	2		7		4	4	

Water Monitoring Result at C1 - Cooling Water Intake at CUHK Marine Science Laboratory
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	12:08	Cloudy	Surface	1.0	5	5	6	0.12	0.12	0.12	<0.005	<0.005	<0.005	0.15	0.15	0.15	0.012	0.012	0.013	0.021	0.021	0.02	6	6	5	1	1	230	230	210
			Middle																											
	12:12		Bottom	4.6	6	6		0.11	0.11		<0.005	<0.005		0.14	0.14		0.014	0.014		0.023	0.023		3	3		2		190	190	
30/11/2023	13:13	Cloudy	Surface	1.0	4	4	4	0.08	0.08	0.10	<0.005	<0.005	<0.005	0.10	0.10	0.11	0.018	0.018	0.017	0.011	0.011	0.01	2	2	2	3	3	32	32	34
			Middle																											
	13:17		Bottom	4.7	4	4		0.11	0.11		<0.005	<0.005		0.12	0.12		0.015	0.015		0.012	0.012		2	2		4		35	35	
1/12/2023	15:27	Fine	Surface	1.0	5	5	5	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.009	0.009	0.005	0.015	0.015	0.01	4	4	4	12	9	68	68	70
			Middle																											
	15:31		Bottom	4.7	5	5		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.014	0.014		4	4		7		71	71	
4/12/2023	16:24	Fine	Surface	1.0	5	5	5	0.03	0.03	0.05	<0.005	<0.005	<0.005	0.05	0.05	0.08	0.005	0.005	0.009	0.023	0.023	0.02	2	2	2	0	0	3	3	5
			Middle																											
	16:28		Bottom	4.5	4	4		0.07	0.07		<0.005	<0.005		0.10	0.10		0.013	0.013		0.026	0.026		2	2		0		7	7	
6/12/2023	6:51	Cloudy	Surface	1.0	5	5	5	0.01	0.01	0.01	<0.005	<0.005	0.01	0.03	0.03	0.03	0.002	0.002	0.002	0.012	0.012	0.01	3	3	2	7	6	7	7	10
			Middle																											
	6:55		Bottom	4.6	5	5		0.01	0.01		0.01	0.01		0.03	0.03		0.002	0.002		0.012	0.012		2	2		6		12	12	
8/12/2023	7:52	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.004	0.004	0.004	0.011	0.011	0.01	1	1	1	2	2	4	4	4
			Middle																											
	7:56		Bottom	4.7	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.004	0.004		0.014	0.014		2	2		2		4	4	
11/12/2023	11:18	Cloudy	Surface	1.0	3	3	3	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.08	0.08	0.08	0.021	0.021	0.019	0.009	0.009	0.01	2	2	2	3	3	2	2	2
			Middle																											
	11:22		Bottom	4.6	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.017	0.017		0.016	0.016		1	1		3		2	2	
13/12/2023	11:12	Cloudy	Surface	1.0	4	4	4	0.01	0.01	0.04	<0.005	<0.005	<0.005	0.02	0.02	0.06	0.001	0.001	0.003	0.005	0.005	0.01	2	2	2	5	6	25	25	33
			Middle																											
	11:16		Bottom	4.4	4	4		0.07	0.07		<0.005	<0.005		0.09	0.09		0.005	0.005		0.016	0.016		1	1		6		41	41	
15/12/2023	13:35	Fine	Surface	1.0	4	4	4	0.13	0.13	0.12	0.01	0.01	0.01	0.16	0.16	0.15	0.013	0.013	0.009	0.023	0.023	0.02	2	2	2	8	10	6	6	7
			Middle																											
	13:39		Bottom	4.6	4	4		0.11	0.11		0.01	0.01		0.14	0.14		0.005	0.005		0.026	0.026		2	2		12		7	7	
18/12/2023	14:37	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.03	0.01	0.01	0.01	0.05	0.05	0.06	0.001	0.001	0.002	0.02	0.02	0.02	1	1	2	6	6	10	10	7
			Middle																											
	14:41		Bottom	4.6	4	4		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.017	0.017		2	2		5		4	4	
20/12/2023	7:42	Cloudy	Surface	1.0	4	4	5	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.04	<0.001	<0.001	<0.001	0.012	0.012	0.02	2	2	1	2	3	17	17	21
			Middle																											
	7:46		Bottom	4.8	5	5		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.018	0.018		1	1		3		24	24	
22/12/2023	7:56	Cloudy	Surface	1.0	5	5	5	0.09	0.09	0.11	0.01	0.01	0.01	0.12	0.12	0.14	0.003	0.003	0.004	0.019	0.019	0.02	2	2	2	7	7	4	4	7
			Middle																											
	8:00		Bottom	4.8	5	5		0.13	0.13		0.01	0.01		0.16	0.16		0.004	0.004		0.025	0.025		2	2		7		10	10	
26/12/2023	11:11	Cloudy	Surface	1.0	3	3	4	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	0.005	0.005	0.01	1	1	1	2	2	25	25	28
			Middle																											
	11:15		Bottom	4.7	4	4		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		3		30	30	
28/12/2023	9:08	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	0.01	0.01	0.01	0.08	0.08	0.07	0.002	0.002	0.002	0.029	0.029	0.02	1	1	1	2	3	41	41	45
			Middle																											
	9:12		Bottom	4.9	3	3		0.04	0.04		<0.005	<0.005		0.07	0.07		0.002	0.002		0.02	0.02		1	1		5		48	48	
30/12/2023	14:37	Fine	Surface	1.0	3	3	3	0.07	0.07	0.12	<0.005	<0.005	<0.005	0.09	0.09	0.14	0.003	0.003	0.004	0.014	0.014	0.02	1	1	2	1	1	28	28	21
			Middle																											
	14:41		Bottom	4.9	3	3		0.16	0.16		<0.005	<0.005		0.18	0.18		0.005	0.005		0.016	0.016		2	2		1		13	13	
2/1/2024	6:53	Fine	Surface	1.0	3	3	3	0.08	0.08	0.09	0.01	0.01	0.01	0.11	0.11	0.13	0.004	0.004	0.005	0.029	0.029	0.03	2	2	2	2	2	17	17	10
			Middle																											
	6:57		Bottom	4.7	3	3		0.10	0.10		0.01	0.01		0.14	0.14		0.005	0.005		0.033	0.033		2	2		2		2	2	
4/1/2024	17:53	Fine	Surface	1.0	4	4	4	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.08	0.08	0.07	0.002	0.002	0.002	0.026	0.026	0.02	2	2	2	3	4	5	5	7
			Middle																											
	17:57		Bottom	4.7	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.014	0.014		2	2		4		8	8	
6/1/2024	8:28	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.06	0.06	0.06	0.001	0.001	0.001	0.019	0.019	0.02	1	1	1	4	4	130	130	165
			Middle																											
	8:32		Bottom	4.8	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		<0.001	<0.001		0.018	0.018		1	1		4		200	200	
8/1/2024	9:08	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.001	0.001	0.001	0.01	0.01	0.01	1	1	2	2	2	5	5	5
			Middle																											
	9:12		Bottom	4.7	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		<0.005	<0.005		2	2		2		4	4	
10/1/2024	10:38	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.07	0.07	0.06	0.001	0.001	0.001	0.042	0.042	0.03	2	2	2	0	0	0	0	0
			Middle																											
	10:42		Bottom	4.8	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		0		0	0	
12/1/2024	13:35	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	0.01	0.01	0.01	0.08	0.08	0.07	0.002	0.002	0.002	0.032	0.032	0.03	2	2	2	4	4	19	19	20
			Middle																											
	13:39		Bottom	4.6	3	3		0.04	0.04		0.01	0.01		0.07	0.07		0.001	0.001		0.026	0.026		2	2		3		20	20	
15/1/2024	16:05	Fine	Surface	1.0	4	4	4	0.01	0.01	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.05	<0.001	<0.001	0.002	0.016	0.016	0.02	2	2	2	4	4	8	8	59
			Middle																											
	16:09		Bottom	4.7	4	4		0.05	0.05		<0.005	<0.005		0.07	0.07		0.002	0.002		0.019	0.019		2	2		4		110	110	
17/1/2024	18:03	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	4	4	8	8	7
			Middle																											
	18:07		Bottom	4.7	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		4		6	6	
19/1/2024	8:10	Fine	Surface	1.0	3	3	3	0.06	0.06	0.05	0.01	0.01	0.01	0.08	0.08	0.10	0.004	0.004	0.003	0.017	0.017	0.04	2	2	2	6	6	2	2	3
			Middle																											
	8:14		Bottom	4.8	3	3		0.04	0.04		<0.005	<0.005		0.11	0.11		0.002	0.002		0.063	0.063		2	2		6		3	3	

Water Monitoring Result at F1 - Yim Tin Tsai Fish Culture Zone
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	5:13	Cloudy	Surface	1.0	7	7	6	0.22	0.22	0.24	<0.005	<0.005	<0.005	0.25	0.25	0.27	0.033	0.033	0.029	0.029	0.029	0.02	3	3	3	1	1	1	1	3
	5:15		Middle	3.0	6	6		0.23	0.23		<0.005	<0.005		0.26	0.26		0.025	0.025		0.018	0.018		3	3		1		1	1	
	5:17		Bottom	6.0	6	6		0.27	0.27		<0.005	<0.005		0.30	0.30		0.028	0.028		0.027	0.027		3	3		1		6	6	
30/11/2023	7:00	Cloudy	Surface	1.0	4	4	4	0.13	0.13	0.14	0.01	0.01	0.01	0.20	0.20	0.21	0.019	0.019	0.022	0.063	0.063	0.07	2	2	2	1	1	42	42	29
	7:02		Middle	3.1	4	4		0.12	0.12		0.01	0.01		0.19	0.19		0.023	0.023		0.064	0.064		2	2		1		33	33	
	7:04		Bottom	6.2	4	4		0.16	0.16		0.01	0.01		0.24	0.24		0.023	0.023		0.074	0.074		2	2		2		13	13	
1/12/2023	8:00	Fine	Surface	1.0	5	5	5	0.10	0.10	0.10	0.01	0.01	0.01	0.13	0.13	0.12	0.017	0.017	0.016	0.022	0.022	0.02	2	2	3	13	10	940	940	1113
	8:02		Middle	3.5	4	4		0.09	0.09		0.01	0.01		0.12	0.12		0.019	0.019		0.019	0.019		3	3		10		1300	1300	
	8:04		Bottom	6.0	6	6		0.10	0.10		0.01	0.01		0.12	0.12		0.013	0.013		0.018	0.018		3	3		7		1100	1100	
4/12/2023	7:09	Fine	Surface	1.0	4	4	5	0.04	0.04	0.05	<0.005	<0.005	<0.005	0.06	0.06	0.08	0.006	0.006	0.008	0.022	0.022	0.03	3	3	2	1	3	8	8	5
	7:11		Middle	3.5	6	6		0.03	0.03		<0.005	<0.005		0.06	0.06		0.009	0.009		0.018	0.018		2	2		4		4	4	
	7:13		Bottom	6.0	4	4		0.08	0.08		<0.005	<0.005		0.12	0.12		0.010	0.010		0.039	0.039		3	3		4		2	2	
6/12/2023	12:30	Cloudy	Surface	1.0	7	7	7	0.07	0.07	0.10	0.01	0.01	0.01	0.11	0.11	0.15	0.012	0.012	0.017	0.042	0.042	0.04	4	4	4	13	9	39	39	50
	12:32		Middle	3.5	6	6		0.09	0.09		0.01	0.01		0.14	0.14		0.016	0.016		0.03	0.03		4	4		2		61	61	
	12:34		Bottom	6.0	8	8		0.15	0.15		0.01	0.01		0.20	0.20		0.023	0.023		0.053	0.053		3	3		11		51	51	
8/12/2023	13:30	Fine	Surface	1.0	3	3	3	0.03	0.03	0.02	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.013	0.013	0.009	0.009	0.009	0.01	1	1	1	4	3	38	38	34
	13:32		Middle	3.5	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.007	0.007		0.006	0.006		1	1		4		30	30	
	13:34		Bottom	6.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.006	0.006		0.01	0.01		1	1		2		33	33	
11/12/2023	5:30	Cloudy	Surface	1.0	3	3	3	0.12	0.12	0.13	<0.005	<0.005	<0.005	0.15	0.15	0.16	0.029	0.029	0.032	0.024	0.024	0.02	2	2	2	3	4	4	4	5
	5:32		Middle	3.5	3	3		0.15	0.15		<0.005	<0.005		0.18	0.18		0.041	0.041		0.022	0.022		1	1		3		3	3	
	5:34		Bottom	6.0	3	3		0.11	0.11		<0.005	<0.005		0.14	0.14		0.026	0.026		0.024	0.024		2	2		5		7	7	
13/12/2023	5:30	Cloudy	Surface	1.0	4	4	3	0.10	0.10	0.08	0.01	0.01	0.01	0.14	0.14	0.13	0.008	0.008	0.006	0.03	0.03	0.05	2	2	2	2	3	32	32	27
	5:32		Middle	3.5	3	3		0.08	0.08		0.01	0.01		0.14	0.14		0.006	0.006		0.059	0.059		2	2		4		23	23	
	5:34		Bottom	6.0	3	3		0.06	0.06		0.01	0.01		0.11	0.11		0.004	0.004		0.049	0.049		2	2		1		27	27	
15/12/2023	6:54	Fine	Surface	1.0	4	4	4	0.18	0.18	0.15	<0.005	<0.005	<0.005	0.22	0.22	0.18	0.007	0.007	0.006	0.041	0.041	0.03	2	2	2	6	6	13	13	13
	6:56		Middle	3.5	4	4		0.08	0.08		<0.005	<0.005		0.10	0.10		0.004	0.004		0.012	0.012		2	2		9		15	15	
	6:58		Bottom	6.0	4	4		0.18	0.18		<0.005	<0.005		0.23	0.23		0.007	0.007		0.043	0.043		2	2		4		10	10	
18/12/2023	9:30	Cloudy	Surface	1.0	3	3	3	0.08	0.08	0.06	0.01	0.01	0.01	0.12	0.12	0.09	0.004	0.004	0.003	0.025	0.025	0.02	1	1	1	11	7	3	3	4
	9:32		Middle	3.5	4	4		0.06	0.06		0.01	0.01		0.08	0.08		0.003	0.003		0.011	0.011		1	1		6		4	4	
	9:34		Bottom	6.0	3	3		0.05	0.05		0.01	0.01		0.07	0.07		0.003	0.003		0.009	0.009		1	1		6		4	4	
20/12/2023	12:46	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.03	0.01	0.01	0.01	0.08	0.08	0.07	0.002	0.002	0.002	0.033	0.033	0.03	2	2	1	5	5	0	0	2
	12:48		Middle	3.5	5	5		0.04	0.04		0.01	0.01		0.08	0.08		0.002	0.002		0.027	0.027		1	1		5		1	1	
	12:50		Bottom	5.9	3	3		0.01	0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.018	0.018		1	1		4		4	4	
22/12/2023	13:00	Cloudy	Surface	1.0	4	4	5	0.10	0.10	0.14	0.01	0.01	0.01	0.13	0.13	0.16	0.003	0.003	0.004	0.018	0.018	0.02	1	1	1	6	6	7	7	4
	13:02		Middle	3.5	5	5		0.10	0.10		0.01	0.01		0.12	0.12		0.003	0.003		0.015	0.015		1	1		8		2	2	
	13:04		Bottom	6.0	5	5		0.21	0.21		0.01	0.01		0.24	0.24		0.006	0.006		0.023	0.023		1	1		5		4	4	
26/12/2023	5:12	Cloudy	Surface	1.0	5	5	5	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.02	0.02	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	1	1	1	3	3	24	24	20
	5:14		Middle	3.5	5	5		0.04	0.04		<0.005	<0.005		0.05	0.05		<0.001	<0.001		<0.005	<0.005		1	1		5		19	19	
	5:16		Bottom	6.0	5	5		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		3		16	16	
28/12/2023	12:26	Fine	Surface	1.0	4	4	4	0.08	0.08	0.10	0.01	0.01	0.01	0.12	0.12	0.15	0.002	0.002	0.003	0.035	0.035	0.04	1	1	1	2	3	670	670	640
	12:28		Middle	3.6	4	4		0.10	0.10		0.01	0.01		0.14	0.14		0.003	0.003		0.036	0.036		2	2		2		590	590	
	12:30		Bottom	6.1	4	4		0.12	0.12		0.01	0.01		0.19	0.19		0.004	0.004		0.06	0.06		1	1		3		660	660	
30/12/2023	9:02	Fine	Surface	1.0	3	3	3	0.08	0.08	0.12	0.01	0.01	0.01	0.11	0.11	0.15	0.003	0.003	0.005	0.025	0.025	0.03	2	2	2	2	2	130	130	130
	9:04		Middle	3.6	3	3		0.18	0.18		0.01	0.01		0.22	0.22		0.008	0.008		0.039	0.039		2	2		2		110	110	
	9:06		Bottom	6.1	3	3		0.09	0.09		0.01	0.01		0.12	0.12		0.003	0.003		0.03	0.03		2	2		2		150	150	
2/1/2024	13:15	Fine	Surface	1.0	3	3	3	0.04	0.04	0.03	0.01	0.01	0.01	0.07	0.07	0.07	0.002	0.002	0.002	0.033	0.033	0.03	2	2	2	2	4	7	7	7
	13:17		Middle	3.5	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.002	0.002		0.026	0.026		2	2		3		7	7	
	13:19		Bottom	6.0	3	3		0.03	0.03		0.01	0.01		0.07	0.07		0.002	0.002		0.034	0.034		2	2		6		7	7	
4/1/2024	11:00	Fine	Surface	1.0	4	4	4	0.09	0.09	0.11	<0.005	<0.005	<0.005	0.11	0.11	0.14	0.004	0.004	0.005	0.019	0.019	0.02	2	2	2	3	3	6	6	7
	11:02		Middle	3.5	4	4		0.13	0.13		<0.005	<0.005		0.16	0.16		0.005	0.005		0.023	0.023		2	2		4		7	7	
	11:04		Bottom	6.0	4	4		0.12	0.12		<0.005	<0.005		0.14	0.14		0.005	0.005		0.021	0.021		1	1		4		7	7	
6/1/2024	13:40	Fine	Surface	1.0	3	3	3	0.05	0.05	0.05	0.01	0.01	0.01	0.08	0.08	0.08	0.002	0.002	0.002	0.019	0.019	0.02	1	1	1	5	4	120	120	117
	13:42		Middle	3.6	3	3		0.06	0.06		0.01	0.01		0.10	0.10		0.002	0.002		0.03	0.03		2	2		4		110	110	
	13:44		Bottom	6.1	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.001	0.001		0.013	0.013		1	1		3		120	120	
8/1/2024	13:20	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.06	0.001	0.001	0.002	0.018	0.018	0.02	2	2	2	2	3	28	28	29
	13:22		Middle	3.6	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.004	0.004		0.02	0.02		2	2		4		27	27	
	13:24		Bottom	6.2	3	3		0.03	0.03		<0.005	<0.005		0.07	0.07		0.002	0.002		0.028	0.028		2	2		4		31	31	
10/1/2024	14:05	Fine	Surface	1.0	4	4	4	0.10	0.10	0.10	0.01	0.01	0.01	0.18	0.18	0.19	0.005	0.005	0.006	0.075	0.075	0.08	2	2	2	4	4	190	190	210
	14:07		Middle	3.5	4	4		0.10	0.10		0.01	0.01		0.19	0.19		0.006	0.006		0.078	0.078		2	2		4		230	230	
	14:09		Bottom	6.0	4	4		0.11	0.11		0.01	0.01		0.19	0.19		0.006	0.006		0.075	0.075		2	2		4		210	210	
12/1/2024	18:22	Fine	Surface	1.0	3	3	3	0.05	0.05	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.002	0.002	0.002	0.013	0.013	0.01	2	2	2	4	3	170	170	183
	18:24		Middle	3.6	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.011	0.011		2	2		3		180	180	
	18:26		Bottom	6.1	3	3		0.03	0.03		0.01	0.01		0.06	0.06		0.001	0.001		0.015	0.015		2	2		2		200	200	
15/1/2024	9:37	Fine	Surface	1.0	4	4	4	<0.01	<0.01	0.05	<0.005	<0.005	0.01	0.04	0.04	0.07	<0.001	<0.001	0.003	0.024	0.024	0.03	2	2	2	1	1	61	61	43
	9:39		Middle	3.6	4	4		0.07	0.07		0.01	0.01		0.12	0.12		0.003	0.003		0.045	0.045		2	2		1		34	34	
	9:41		Bottom	6.2	3	3		0.02	0.02		<0.005	<0.005		0.05	0.05		<0.001	<0.001		0.022	0.022		2	2		2		35	35	
17/1/2024	11:08	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	<0.001	<0.001	0.001	0.015	0.015	0.02	2	2	2	4	4	1	1	1
	11:10		Middle	3.6	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.01	0.01		2	2		3		1	1	
	11:12		Bottom	6.2	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.023	0.023		2	2		5		0	0	
19/1/2024	12:44	Fine	Surface	1.0	3	3	3	0.05	0.05	0.09	<0.005	<0.005	0.01	0.08	0.08	0.13	0.003	0.003	0.004	0.028	0.028	0.04	2	2	2	5	4	35	35	35
	12:46		Middle	3.6	3	3		0.10	0.10		0.01	0.01		0.14	0.14		0.005	0.005		0.036	0.036		2	2		4		40	40	
	12:48		Bottom	6.1	3	3		0.13	0.13		<0.005	<0.005		0.18	0.18		0.005	0.005		0.048	0.048		2	2		3		29	29	

Water Monitoring Result at F1 - Yim Tin Tsai Fish Culture Zone
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	11:15	Cloudy	Surface	1.0	6	6	5	0.11	0.11	0.25	<0.005	<0.005	<0.005	0.43	0.43	0.35	0.073	0.073	0.062	0.023	0.023	0.05	3	3	5	1	1	2	2	2
	11:17		Middle	3.4	5	5		0.34	0.34		<0.005	<0.005		0.32	0.32		0.064	0.064		0.090	0.090		8	8		1		3	3	
	11:19		Bottom	5.8	4	4		0.29	0.29		<0.005	<0.005		0.29	0.29		0.050	0.050		0.030	0.030		3	3		1		1	1	
30/11/2023	14:04	Cloudy	Surface	1.0	4	4	4	0.28	0.28	0.28	0.01	0.01	0.01	0.37	0.37	0.37	0.041	0.041	0.046	0.076	0.076	0.08	3	3	3	3	3	15	15	26
	14:06		Middle	3.5	3	3		0.28	0.28		0.01	0.01		0.37	0.37		0.057	0.057		0.075	0.075		3	3		3		52	52	
	14:08		Bottom	6.0	4	4		0.27	0.27		0.01	0.01		0.36	0.36		0.040	0.040		0.084	0.084		3	3		3		10	10	
1/12/2023	16:25	Fine	Surface	1.0	4	4	5	0.12	0.12	0.11	0.01	0.01	0.01	0.15	0.15	0.14	0.025	0.025	0.021	0.024	0.024	0.02	4	4	4	8	7	220	220	223
	16:27		Middle	3.5	4	4		0.09	0.09		0.01	0.01		0.12	0.12		0.019	0.019		0.022	0.022		4	4		8		210	210	
	16:29		Bottom	5.9	6	6		0.13	0.13		<0.005	<0.005		0.16	0.16		0.020	0.020		0.025	0.025		4	4		5		240	240	
4/12/2023	15:29	Fine	Surface	1.0	5	5	5	0.02	0.02	0.04	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.005	0.005	0.009	0.041	0.041	0.03	2	2	2	0	1	5	5	18
	15:31		Middle	3.5	6	6		0.08	0.08		<0.005	<0.005		0.11	0.11		0.020	0.020		0.029	0.029		3	3		1		21	21	
	15:33		Bottom	5.9	4	4		0.02	0.02		<0.005	<0.005		0.05	0.05		0.003	0.003		0.024	0.024		2	2		1		28	28	
6/12/2023	6:00	Cloudy	Surface	1.0	6	6	6	0.15	0.15	0.38	<0.005	<0.005	0.01	0.19	0.19	0.11	0.021	0.021	0.011	0.037	0.037	0.03	2	2	3	4	5	59	59	57
	6:02		Middle	3.6	6	6		0.60	0.60		<0.005	<0.005		0.10	0.10		0.010	0.010		0.03	0.03		3	3		4		63	63	
	6:04		Bottom	6.1	5	5		<0.01	<0.01		0.01	0.01		0.03	0.03		0.001	0.001		0.015	0.015		3	3		7		48	48	
8/12/2023	7:00	Fine	Surface	1.0	3	3	3	0.02	0.02	0.05	0.01	0.01	0.01	0.04	0.04	0.09	0.005	0.005	0.014	0.015	0.015	0.03	2	2	1	2	3	28	28	25
	7:02		Middle	3.5	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.007	0.007		0.016	0.016		1	1		3		21	21	
	7:04		Bottom	6.0	3	3		0.12	0.12		<0.005	<0.005		0.18	0.18		0.030	0.030		0.056	0.056		1	1		2		25	25	
11/12/2023	12:08	Cloudy	Surface	1.0	3	3	3	0.14	0.14	0.13	<0.005	<0.005	<0.005	0.17	0.17	0.16	0.044	0.044	0.028	0.022	0.022	0.02	1	1	1	2	3	8	8	7
	12:10		Middle	3.0	3	3		0.09	0.09		<0.005	<0.005		0.12	0.12		0.002	0.002		0.019	0.019		<1	<1		2		6	6	
	12:12		Bottom	5.0	4	4		0.15	0.15		<0.005	<0.005		0.19	0.19		0.037	0.037		0.028	0.028		<1	<1		4		7	7	
13/12/2023	10:30	Cloudy	Surface	1.0	4	4	4	0.13	0.13	0.12	0.01	0.01	0.01	0.18	0.18	0.17	0.012	0.012	0.010	0.037	0.037	0.04	2	2	2	9	7	24	24	26
	10:32		Middle	3.0	4	4		0.10	0.10		0.01	0.01		0.16	0.16		0.008	0.008		0.051	0.051		2	2		5		28	28	
	10:34		Bottom	5.0	4	4		0.12	0.12		0.01	0.01		0.16	0.16		0.009	0.009		0.032	0.032		2	2		7		27	27	
15/12/2023	11:59	Fine	Surface	1.0	4	4	4	0.09	0.09	0.10	<0.005	<0.005	<0.005	0.11	0.11	0.12	0.004	0.004	0.004	0.016	0.016	0.02	1	1	1	5	5	11	11	13
	12:01		Middle	3.4	4	4		0.10	0.10		<0.005	<0.005		0.13	0.13		0.005	0.005		0.025	0.025		1	1		5		15	15	
	12:03		Bottom	5.8	4	4		0.10	0.10		<0.005	<0.005		0.13	0.13		0.004	0.004		0.021	0.021		1	1		5		14	14	
18/12/2023	13:40	Cloudy	Surface	1.0	4	4	4	0.07	0.07	0.06	0.01	0.01	0.01	0.10	0.10	0.09	0.002	0.002	0.002	0.023	0.023	0.02	<1	<1	<1	6	5	5	5	4
	13:42		Middle	3.4	4	4		0.06	0.06		0.01	0.01		0.09	0.09		0.002	0.002		0.026	0.026		<1	<1		5		4	4	
	13:44		Bottom	5.8	3	3		0.05	0.05		0.01	0.01		0.07	0.07		0.002	0.002		0.013	0.013		<1	<1		2		3	3	
20/12/2023	6:46	Cloudy	Surface	1.0	3	3	4	0.01	0.01	0.01	0.02	0.02	0.01	0.04	0.04	0.04	<0.001	<0.001	<0.001	0.015	0.015	0.01	1	1	1	2	3	2	2	2
	6:48		Middle	4.0	4	4		0.01	0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.011	0.011		1	1		4		3	3	
	6:50		Bottom	7.0	4	4		0.01	0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.014	0.014		1	1		4		2	2	
22/12/2023	6:31	Cloudy	Surface	1.0	5	5	5	0.11	0.11	0.09	0.01	0.01	0.01	0.14	0.14	0.11	0.002	0.002	0.002	0.021	0.021	0.02	1	1	1	5	4	3	3	5
	6:33		Middle	3.5	5	5		0.07	0.07		0.01	0.01		0.09	0.09		0.002	0.002		0.012	0.012		1	1		2		5	5	
	6:35		Bottom	6.0	5	5		0.08	0.08		0.01	0.01		0.11	0.11		0.002	0.002		0.017	0.017		2	2		6		8	8	
26/12/2023	10:10	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.04	<0.001	<0.001	0.001	0.005	0.005	0.01	1	1	1	3	2	11	11	16
	10:12		Middle	3.5	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		3		15	15	
	10:14		Bottom	6.0	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.001	0.001		<0.005	<0.005		2	2		2		21	21	
28/12/2023	8:15	Fine	Surface	1.0	5	5	4	0.07	0.07	0.08	0.01	0.01	0.01	0.11	0.11	0.11	0.002	0.002	0.002	0.033	0.033	0.03	1	1	1	3	3	780	780	770
	8:17		Middle	3.5	4	4		0.08	0.08		0.01	0.01		0.12	0.12		0.002	0.002		0.035	0.035		<1	<1		4		710	710	
	8:19		Bottom	6.0	3	3		0.08	0.08		0.01	0.01		0.11	0.11		0.003	0.003		0.034	0.034		<1	<1		2		820	820	
30/12/2023	13:45	Fine	Surface	1.0	3	3	3	0.10	0.10	0.17	0.01	0.01	0.01	0.13	0.13	0.21	0.004	0.004	0.007	0.022	0.022	0.03	1	1	2	2	2	78	78	73
	13:47		Middle	3.5	3	3		0.18	0.18		0.01	0.01		0.22	0.22		0.008	0.008		0.032	0.032		2	2		2		83	83	
	13:49		Bottom	6.0	3	3		0.23	0.23		0.01	0.01		0.28	0.28		0.009	0.009		0.038	0.038		2	2		3		57	57	
2/1/2024	6:00	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.06	0.06	0.07	0.001	0.001	0.001	0.028	0.028	0.03	2	2	1	3	4	0	0	4
	6:02		Middle	3.7	3	3		0.03	0.03		0.01	0.01		0.06	0.06		0.001	0.001		0.024	0.024		1	1		4		4	4	
	6:04		Bottom	6.4	4	4		0.04	0.04		0.01	0.01		0.08	0.08		0.002	0.002		0.033	0.033		1	1		4		8	8	
4/1/2024	17:00	Fine	Surface	1.0	3	3	3	0.04	0.04	0.09	<0.005	<0.005	<0.005	0.06	0.06	0.12	0.002	0.002	0.004	0.016	0.016	0.02	2	2	1	4	3	11	11	12
	17:02		Middle	3.6	4	4		0.14	0.14		<0.005	<0.005		0.17	0.17		0.006	0.006		0.025	0.025		1	1		3		16	16	
	17:04		Bottom	6.2	3	3		0.10	0.10		<0.005	<0.005		0.12	0.12		0.004	0.004		0.02	0.02		1	1		3		10	10	
6/1/2024	7:34	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.001	0.001	0.001	0.008	0.008	0.01	1	1	1	4	4	170	170	160
	7:36		Middle	3.5	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.008	0.008		1	1		3		140	140	
	7:38		Bottom	6.0	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.001	0.001		0.01	0.01		1	1		4		170	170	
8/1/2024	8:15	Fine	Surface	1.0	4	4	4	0.05	0.05	0.05	<0.005	<0.005	0.01	0.09	0.09	0.07	0.002	0.002	0.002	0.026	0.026	0.02	2	2	2	2	3	24	24	25
	8:17		Middle	3.4	4	4		0.04	0.04		<0.005	<0.005		0.07	0.07		0.002	0.002		0.018	0.018		2	2		3		26	26	
	8:19		Bottom	5.8	3	3		0.05	0.05		0.01	0.01		0.07	0.07		0.002	0.002		0.016	0.016		2	2		4		25	25	
10/1/2024	9:45	Fine	Surface	1.0	4	4	4	0.12	0.12	0.12	0.01	0.01	0.01	0.19	0.19	0.19	0.006	0.006	0.007	0.068	0.068	0.07	2	2	2	4	4	370	370	317
	9:47		Middle	3.6	4	4		0.12	0.12		0.01	0.01		0.19	0.19		0.010	0.010		0.068	0.068		1	1		4		320	320	
	9:49		Bottom	6.2	4	4		0.12	0.12		0.01	0.01		0.19	0.19		0.006	0.006		0.066	0.066		2	2		3		260	260	
12/1/2024	12:40	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	0.01	0.01	0.01	0.07	0.07	0.06	<0.001	<0.001	0.002	0.025	0.025	0.02	2	2	2	1	3	260	260	220
	12:42		Middle	3.5	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.002	0.002		0.02	0.02		2	2		4		210	210	
	12:44		Bottom	6.0	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.018	0.018		2	2		3		190	190	
15/1/2024	15:12	Fine	Surface	1.0	4	4	4	0.01	0.01	0.09	<0.005	<0.005	0.01	0.04	0.04	0.13	<0.001	<0.001	0.006	0.02	0.02	0.03	2	2	2	4	3	39	39	40
	15:14		Middle	3.4	4	4		0.13	0.13		0.01	0.01		0.17	0.17		0.006	0.006		0.036	0.036		2	2		3		37	37	
	15:16		Bottom	5.8	4	4		0.14	0.14		0.01	0.01		0.18	0.18		0.005	0.005		0.036	0.036		2	2		3		45	45	
17/1/2024	17:10	Cloudy	Surface	1.0	4	4	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.001	0.018	0.018	0.02	2	2	2	5	5	2	2	1
	17:12		Middle	3.5	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.013	0.013		2	2		5		0	0	
	17:14		Bottom	6.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.016	0.016		1	1		4		0	0	
19/1/2024	7:17	Fine	Surface	1.0	3	3	3	0.05	0.05	0.09	0.01	0.01	0.01	0.07	0.07	0.13	0.002	0.002	0.004	0.012	0.012	0.03	2	2	2	6	5	58	58	56
	7:19		Middle	3.4	3	3		0.06	0.06		<0.005	<0.005		0.11	0.11		0.003	0.003		0.036	0.036		2	2		5		50	50	
	7:21		Bottom	5.8	3	3		0.16	0.16		0.01	0.01		0.21	0.21		0.006	0.006		0.048	0.048		2	2		5		60	60	

Water Monitoring Result at F2 -Yim Tin Tsai (East) Fish Culture Zone
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	7:08	Cloudy	Surface	1.0	5	5	5	0.15	0.15	0.18	<0.005	<0.005	<0.005	0.16	0.16	0.20	0.009	0.009	0.009	0.016	0.016	0.03	2	2	2	1	1	0	0	0
			Middle																											
	7:12		Bottom	4.2	4	4		0.20	0.20		<0.005	<0.005		0.24	0.24		0.009	0.009		0.038	0.038		2	2		1		0	0	
30/11/2023	8:59	Cloudy	Surface	1.0	4	4	4	0.08	0.08	0.08	<0.005	<0.005	<0.005	0.09	0.09	0.09	0.007	0.007	0.007	0.012	0.012	0.01	1	1	1	1	1	18	18	28
			Middle																											
	9:03		Bottom	4.4	3	3		0.07	0.07		<0.005	<0.005		0.09	0.09		0.007	0.007		0.014	0.014		1	1		1		38	38	
1/12/2023	10:11	Fine	Surface	1.0	3	3	3	0.05	0.05	0.05	0.01	0.01	0.01	0.07	0.07	0.06	0.005	0.005	0.004	0.01	0.01	0.01	1	1	1	4	5	0	0	2
			Middle																											
	10:15		Bottom	4.2	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.003	0.003		0.006	0.006		<1	<1		6		4	4	
4/12/2023	9:17	Fine	Surface	1.0	3	3	4	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.003	0.003	0.003	0.018	0.018	0.02	1	1	1	0	0	1	1	1
			Middle																											
	9:21		Bottom	4.2	4	4		0.02	0.02		<0.005	<0.005		0.05	0.05		0.002	0.002		0.017	0.017		<1	<1		0		0	0	
6/12/2023	14:27	Cloudy	Surface	1.0	5	5	5	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.03	0.002	0.002	0.002	0.021	0.021	0.02	<1	<1	<1	1	1	6	6	8
			Middle																											
	14:31		Bottom	4.3	5	5		0.01	0.01		0.01	0.01		0.03	0.03		0.001	0.001		0.009	0.009		<1	<1		2		10	10	
8/12/2023	15:28	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	<0.005	<0.005	0.01	0.05	0.05	0.06	0.005	0.005	0.006	0.014	0.014	0.02	<1	<1	2	2	4	0	0	0
			Middle																											
	15:32		Bottom	4.2	3	3		0.05	0.05		0.01	0.01		0.07	0.07		0.007	0.007		0.017	0.017		2	2		5		0	0	
11/12/2023	7:26	Cloudy	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.004	0.004	0.003	0.018	0.018	0.01	<1	<1	<1	2	2	1	1	1
			Middle																											
	7:30		Bottom	4.2	3	3		<0.01	<0.01		<0.005	<0.005		0.02	0.02		0.001	0.001		0.011	0.011		<1	<1		3		0	0	
13/12/2023	8:26	Cloudy	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.017	0.017	0.02	1	1	1	2	3	33	33	30
			Middle																											
	8:30		Bottom	4.2	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.002	0.002		0.018	0.018		<1	<1		5		27	27	
15/12/2023	10:42	Fine	Surface	1.0	4	4	4	0.09	0.09	0.09	<0.005	<0.005	<0.005	0.12	0.12	0.12	0.006	0.006	0.005	0.028	0.028	0.02	1	1	1	3	3	0	0	0
			Middle																											
	10:46		Bottom	4.2	4	4		0.08	0.08		<0.005	<0.005		0.11	0.11		0.004	0.004		0.021	0.021		1	1		2		0	0	
18/12/2023	11:26	Cloudy	Surface	1.0	7	7	7	0.06	0.06	0.06	0.01	0.01	0.01	0.16	0.16	0.16	0.003	0.003	0.003	0.095	0.095	0.09	1	1	1	3	3	2	2	3
			Middle																											
	11:30		Bottom	4.2	6	6		0.06	0.06		<0.005	<0.005		0.15	0.15		0.003	0.003		0.086	0.086		1	1		3		3	3	
20/12/2023	14:46	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.02	0.01	0.01	0.01	0.05	0.05	0.04	0.001	0.001	0.001	0.011	0.011	0.01	1	1	1	4	3	0	0	0
			Middle																											
	14:50		Bottom	4.4	4	4		0.01	0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.018	0.018		1	1		2		0	0	
22/12/2023	15:27	Cloudy	Surface	1.0	6	6	7	0.07	0.07	0.08	0.01	0.01	0.01	0.09	0.09	0.09	0.002	0.002	0.002	0.008	0.008	0.01	2	2	1	5	5	0	0	0
			Middle																											
	15:31		Bottom	4.2	7	7		0.08	0.08		0.01	0.01		0.09	0.09		0.002	0.002		0.009	0.009		1	1		5		0	0	
26/12/2023	7:12	Cloudy	Surface	1.0	4	4	5	<0.01	<0.01	0.01	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	0.007	0.007	0.01	<1	<1	<1	2	2	1	1	1
			Middle																											
	7:16		Bottom	4.2	5	5		0.01	0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.007	0.007		<1	<1		3		0	0	
28/12/2023	14:22	Fine	Surface	1.0	3	3	3	0.06	0.06	0.06	0.01	0.01	0.01	0.09	0.09	0.08	0.002	0.002	0.002	0.022	0.022	0.02	<1	<1	<1	2	3	1	1	2
			Middle																											
	14:26		Bottom	4.4	3	3		0.05	0.05		0.01	0.01		0.08	0.08		0.002	0.002		0.017	0.017		<1	<1		4		3	3	
30/12/2023	10:58	Fine	Surface	1.0	3	3	3	0.18	0.18	0.10	<0.005	<0.005	0.01	0.21	0.21	0.13	0.008	0.008	0.008	0.025	0.025	0.02	2	2	1	3	2	60	60	63
			Middle																											
	11:02		Bottom	4.3	3	3		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.022	0.022		1	1		2		66	66	
2/1/2024	15:12	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.03	0.03	0.04	<0.001	<0.001	<0.001	0.008	0.008	0.01	1	1	1	2	2	0	0	1
			Middle																											
	15:16		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.014	0.014		1	1		2		1	1	
4/1/2024	12:58	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	0.001	0.013	0.013	0.01	1	1	1	2	2	8	8	4
			Middle																											
	13:02		Bottom	4.4	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.015	0.015		1	1		1		0	0	
6/1/2024	15:41	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.04	0.04	0.04	0.001	0.001	0.001	0.009	0.009	0.01	2	2	1	4	4	9	9	15
			Middle																											
	15:45		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.006	0.006		1	1		5		21	21	
8/1/2024	15:14	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.03	<0.001	<0.001	<0.001	0.015	0.015	0.01	2	2	1	1	1	0	0	0
			Middle																											
	15:18		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.005	0.005		1	1		1		0	0	
10/1/2024	16:03	Fine	Surface	1.0	5	5	5	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	0.001	0.011	0.011	0.01	1	1	2	2	2	1	1	1
			Middle																											
	16:07		Bottom	4.4	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.013	0.013		2	2		2		1	1	
12/1/2024	20:19	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.002	0.012	0.012	0.01	2	2	2	3	3	15	15	10
			Middle																											
	20:23		Bottom	4.5	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.012	0.012		2	2		3		5	5	
15/1/2024	11:34	Fine	Surface	1.0	4	4	4	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.018	0.018	0.01	2	2	2	3	2	44	44	52
			Middle																											
	11:38		Bottom	4.5	3	3		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.01	0.01		2	2		2		60	60	
17/1/2024	12:02	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.011	0.011	0.01	1	1	1	3	3	0	0	0
			Middle																											
	12:06		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		1	1		3		0	0	
19/1/2024	14:41	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.002	0.019	0.019	0.02	2	2	2	3	3	8	8	4
			Middle																											
	14:45		Bottom	4.4	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.015	0.015		2	2		3		0	0	

Water Monitoring Result at F2 -Yim Tin Tsai (East) Fish Culture Zone
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	13:10	Cloudy	Surface	1.0	4	4	4	0.11	0.11	0.12	<0.005	<0.005	<0.005	0.13	0.13	0.14	0.011	0.011	0.012	0.013	0.013	0.01	1	1	1	1	0	0	0	0
			Middle																											
	13:14		Bottom	4.0	3	3		0.13	0.13		<0.005	<0.005		0.14	0.14		0.013	0.013		0.007	0.007		1	1		0		0	0	
30/11/2023	12:18	Cloudy	Surface	1.0	3	3	3	0.09	0.09	0.10	<0.005	<0.005	<0.005	0.11	0.11	0.12	0.008	0.008	0.010	0.013	0.013	0.02	3	3	2	1	1	5	5	19
			Middle																											
	12:22		Bottom	4.3	3	3		0.11	0.11		<0.005	<0.005		0.13	0.13		0.011	0.011		0.022	0.022		2	2		1		33	33	
1/12/2023	14:29	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.003	0.003	0.003	0.012	0.012	0.01	2	2	2	3	2	1	1	2
			Middle																											
	14:33		Bottom	4.0	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.003	0.003		0.01	0.01		2	2		2		3	3	
4/12/2023	17:36	Fine	Surface	1.0	4	4	4	0.07	0.07	0.06	0.01	0.01	0.01	0.09	0.09	0.08	0.005	0.005	0.004	0.014	0.014	0.02	<1	<1	1	0	0	0	0	0
			Middle																											
	17:40		Bottom	4.1	4	4		0.05	0.05		0.01	0.01		0.07	0.07		0.003	0.003		0.021	0.021		1	1		0		0	0	
6/12/2023	7:53	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.07	<0.005	<0.005	0.01	0.02	0.02	0.10	0.001	0.001	0.007	0.008	0.008	0.02	3	3	3	2	3	14	14	10
			Middle																											
	7:57		Bottom	4.2	3	3		0.13	0.13		0.01	0.01		0.17	0.17		0.012	0.012		0.036	0.036		<1	<1		4		5	5	
8/12/2023	8:56	Fine	Surface	1.0	3	3	3	0.09	0.09	0.06	<0.005	<0.005	<0.005	0.13	0.13	0.10	0.014	0.014	0.010	0.033	0.033	0.03	<1	<1	<1	2	2	0	0	0
			Middle																											
	9:00		Bottom	4.0	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.005	0.005		0.028	0.028		<1	<1		3		0	0	
11/12/2023	10:18	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.03	<0.005	<0.005	<0.005	0.02	0.02	0.04	0.002	0.002	0.004	0.005	0.005	0.01	<1	<1	2	2	2	0	0	0
			Middle																											
	10:22		Bottom	4.0	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.005	0.005		0.008	0.008		2	2		2		0	0	
13/12/2023	12:16	Cloudy	Surface	1.0	3	3	4	0.03	0.03	0.05	0.01	0.01	0.01	0.06	0.06	0.07	0.002	0.002	0.003	0.02	0.02	0.02	1	1	1	0	1	27	27	26
			Middle																											
	12:20		Bottom	4.0	4	4		0.06	0.06		0.01	0.01		0.09	0.09		0.004	0.004		0.021	0.021		<1	<1		1		24	24	
15/12/2023	15:09	Fine	Surface	1.0	4	4	4	0.15	0.15	0.14	<0.005	<0.005	<0.005	0.18	0.18	0.18	0.010	0.010	0.008	0.025	0.025	0.03	<1	<1	<1	4	3	0	0	0
			Middle																											
	15:13		Bottom	3.9	3	3		0.13	0.13		<0.005	<0.005		0.17	0.17		0.006	0.006		0.029	0.029		<1	<1		3		0	0	
18/12/2023	15:41	Cloudy	Surface	1.0	4	4	5	0.05	0.05	0.05	0.01	0.01	0.01	0.11	0.11	0.12	0.003	0.003	0.003	0.056	0.056	0.07	<1	<1	<1	18	11	0	0	2
			Middle																											
	15:45		Bottom	4.0	5	5		0.05	0.05		<0.005	<0.005		0.13	0.13		0.002	0.002		0.083	0.083		<1	<1		3		4	4	
20/12/2023	8:47	Cloudy	Surface	1.0	5	5	5	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.04	<0.001	<0.001	<0.001	0.012	0.012	0.01	1	1	1	3	3	0	0	1
			Middle																											
	8:51		Bottom	4.3	4	4		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.011	0.011		1	1		3		1	1	
22/12/2023	9:22	Cloudy	Surface	1.0	5	5	5	0.10	0.10	0.09	0.01	0.01	0.01	0.11	0.11	0.10	0.003	0.003	0.003	0.007	0.007	0.01	2	2	2	3	3	0	0	0
			Middle																											
	9:26		Bottom	4.2	5	5		0.07	0.07		0.01	0.01		0.09	0.09		0.002	0.002		0.007	0.007		1	1		3		0	0	
26/12/2023	12:15	Cloudy	Surface	1.0	4	4	4	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.01	0.01	0.02	<0.001	<0.001	<0.001	<0.005	<0.005	0.01	1	1	1	3	3	2	2	1
			Middle																											
	12:19		Bottom	4.1	4	4		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.01	0.01		1	1		3		0	0	
28/12/2023	10:13	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	0.01	0.01	0.01	0.07	0.07	0.06	0.001	0.001	0.001	0.021	0.021	0.02	<1	<1	<1	5	4	3	3	4
			Middle																											
	10:17		Bottom	4.3	3	3		0.04	0.04		0.01	0.01		0.05	0.05		0.001	0.001		0.011	0.011		<1	<1		3		5	5	
30/12/2023	15:39	Fine	Surface	1.0	3	3	3	0.03	0.03	0.07	<0.005	<0.005	0.01	0.05	0.05	0.09	0.001	0.001	0.003	<0.005	<0.005	0.01	1	1	1	3	3	54	54	63
			Middle																											
	15:43		Bottom	4.2	3	3		0.11	0.11		0.01	0.01		0.13	0.13		0.004	0.004		0.006	0.006		1	1		3		71	71	
2/1/2024	7:57	Fine	Surface	1.0	3	3	3	0.05	0.05	0.06	0.01	0.01	0.01	0.08	0.08	0.09	0.002	0.002	0.002	0.027	0.027	0.03	2	2	2	2	1	8	8	6
			Middle																											
	8:01		Bottom	4.1	3	3		0.06	0.06		0.01	0.01		0.09	0.09		0.002	0.002		0.028	0.028		1	1		1		3	3	
4/1/2024	16:58	Fine	Surface	1.0	3	3	3	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.012	0.012	0.01	1	1	2	3	4	3	3	3
			Middle																											
	17:02		Bottom	4.0	3	3		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.012	0.012		2	2		5		2	2	
6/1/2024	9:31	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.04	0.04	0.03	0.002	0.002	0.002	0.009	0.009	0.01	1	1	1	4	3	11	11	17
			Middle																											
	9:35		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		2		22	22	
8/1/2024	10:02	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.07	0.07	0.06	0.001	0.001	0.001	0.031	0.031	0.03	2	2	2	1	1	0	0	0
			Middle																											
	10:06		Bottom	4.2	3	3		0.02	0.02		<0.005	<0.005		0.05	0.05		<0.001	<0.001		0.021	0.021		2	2		1		0	0	
10/1/2024	11:42	Fine	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.01	0.01	0.01	1	1	1	2	2	1	1	1
			Middle																											
	11:46		Bottom	4.3	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		2		0	0	
12/1/2024	14:38	Fine	Surface	1.0	4	4	4	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.002	0.002	0.002	0.012	0.012	0.02	2	2	2	4	3	12	12	11
			Middle																											
	14:42		Bottom	4.3	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.001	0.001		0.021	0.021		2	2		3		9	9	
15/1/2024	17:10	Fine	Surface	1.0	3	3	4	0.15	0.15	0.22	<0.005	<0.005	<0.005	0.18	0.18	0.25	0.010	0.010	0.011	0.02	0.02	0.02	2	2	2	3	3	48	48	42
			Middle																											
	17:14		Bottom	4.2	4	4		0.28	0.28		<0.005	<0.005		0.31	0.31		0.011	0.011		0.023	0.023		2	2		3		36	36	
17/1/2024	19:08	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.03	0.001	0.001	0.001	0.01	0.01	0.01	1	1	1	3	3	0	0	0
			Middle																											
	19:12		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.001	0.001		0.008	0.008		1	1		3		0	0	
19/1/2024	9:14	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	0.001	0.016	0.016	0.02	2	2	2	4	4	0	0	3
			Middle																											
	9:18		Bottom	4.2	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.016	0.016		2	2		4		6	6	

Water Monitoring Result at F3 - Yung Shue Au Fish Culture Zone / Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove

Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	7:36	Cloudy	Surface	1.0	3	3	4	0.11	0.11	0.12	<0.005	<0.005	<0.005	0.12	0.12	0.14	0.009	0.009	0.008	0.009	0.009	0.02	2	2	2	1	1	130	130	66
			Middle																											
	7:40		Bottom	4.4	5	5		0.12	0.12		<0.005	<0.005		0.15	0.15		0.007	0.007		0.021	0.021		2	2		1		2	2	
30/11/2023	9:47	Cloudy	Surface	1.0	4	4	4	0.06	0.06	0.06	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.007	0.007	0.007	0.006	0.006	0.01	2	2	2	2	2	1	1	2
			Middle																											
	9:51		Bottom	4.5	4	4		0.06	0.06		<0.005	<0.005		0.08	0.08		0.006	0.006		0.009	0.009		2	2		2		2	2	
1/12/2023	10:47	Fine	Surface	1.0	4	4	4	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.004	0.004	0.005	0.01	0.01	0.01	2	2	2	2	2	0	0	1
			Middle																											
	10:51		Bottom	4.4	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.005	0.005		<0.005	<0.005		2	2		2		1	1	
4/12/2023	10:04	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.002	0.002	0.002	0.022	0.022	0.02	1	1	1	0	0	0	0	0
			Middle																											
	10:08		Bottom	4.2	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.019	0.019		1	1		0		0	0	
6/12/2023	15:00	Cloudy	Surface	1.0	6	6	5	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.02	0.02	0.03	0.003	0.003	0.004	<0.005	<0.005	0.02	2	2	2	3	3	19	19	17
			Middle																											
	15:04		Bottom	4.3	4	4		0.02	0.02		<0.005	<0.005		0.05	0.05		0.004	0.004		0.019	0.019		2	2		3		15	15	
8/12/2023	16:23	Fine	Surface	1.0	3	3	3	0.03	0.03	0.02	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.010	0.010	0.007	0.009	0.009	0.01	2	2	2	3	3	1	1	1
			Middle																											
	16:27		Bottom	4.4	3	3		0.01	0.01		<0.005	<0.005		0.03	0.03		0.003	0.003		0.006	0.006		1	1		3		0	0	
11/12/2023	8:13	Cloudy	Surface	1.0	3	3	3	0.05	0.05	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.006	0.006	0.005	0.007	0.007	0.01	2	2	2	4	4	0	0	0
			Middle																											
	8:17		Bottom	4.4	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.003	0.003		0.008	0.008		2	2		4		0	0	
13/12/2023	9:10	Cloudy	Surface	1.0	5	5	5	0.02	0.02	0.02	0.01	0.01	0.01	0.05	0.05	0.04	0.001	0.001	0.001	0.022	0.022	0.02	3	3	2	9	5	7	7	5
			Middle																											
	9:14		Bottom	4.5	5	5		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.015	0.015		2	2		2		3	3	
15/12/2023	11:30	Fine	Surface	1.0	4	4	4	0.10	0.10	0.10	<0.005	<0.005	<0.005	0.12	0.12	0.12	0.007	0.007	0.006	0.018	0.018	0.01	1	1	1	3	3	0	0	0
			Middle																											
	11:34		Bottom	4.4	4	4		0.10	0.10		<0.005	<0.005		0.11	0.11		0.004	0.004		0.008	0.008		<1	<1		3		0	0	
18/12/2023	12:17	Cloudy	Surface	1.0	4	4	4	0.06	0.06	0.05	<0.005	<0.005	<0.005	0.08	0.08	0.06	0.004	0.004	0.004	0.014	0.014	0.01	2	2	1	7	7	1	1	1
			Middle																											
	12:21		Bottom	4.4	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.003	0.003		0.007	0.007		1	1		7		1	1	
20/12/2023	15:34	Cloudy	Surface	1.0	4	4	4	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.03	<0.001	<0.001	<0.001	0.019	0.019	0.02	1	1	1	11	9	1	1	2
			Middle																											
	15:38		Bottom	4.3	3	3		<0.01	<0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.011	0.011		1	1		7		2	2	
22/12/2023	16:25	Cloudy	Surface	1.0	6	6	8	0.11	0.11	0.12	0.01	0.01	0.01	0.14	0.14	0.14	0.004	0.004	0.004	0.019	0.019	0.02	1	1	1	6	5	0	0	0
			Middle																											
	16:29		Bottom	4.5	9	9		0.12	0.12		0.01	0.01		0.14	0.14		0.004	0.004		0.013	0.013		1	1		4		0	0	
26/12/2023	8:11	Cloudy	Surface	1.0	4	4	4	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.02	<0.001	<0.001	<0.001	0.011	0.011	0.01	1	1	1	11	7	8	8	6
			Middle																											
	8:15		Bottom	4.4	4	4		<0.01	<0.01		<0.005	<0.005		0.01	0.01		<0.001	<0.001		<0.005	<0.005		1	1		3		4	4	
28/12/2023	15:08	Fine	Surface	1.0	4	4	4	0.06	0.06	0.06	0.01	0.01	0.01	0.08	0.08	0.08	0.003	0.003	0.003	0.016	0.016	0.02	<1	<1	<1	3	2	0	0	0
			Middle																											
	15:12		Bottom	4.1	4	4		0.05	0.05		0.01	0.01		0.07	0.07		0.002	0.002		0.014	0.014		<1	<1		1		0	0	
30/12/2023	11:35	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.001	0.001	0.001	0.012	0.012	0.01	1	1	1	1	2	0	0	0
			Middle																											
	11:39		Bottom	4.2	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.014	0.014		1	1		3		0	0	
2/1/2024	16:00	Fine	Surface	1.0	3	3	3	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.011	0.011	0.01	2	2	2	3	3	0	0	0
			Middle																											
	16:04		Bottom	4.3	3	3		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.009	0.009		1	1		3		0	0	
4/1/2024	13:50	Fine	Surface	1.0	3	3	3	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.011	0.011	0.01	1	1	1	2	2	0	0	0
			Middle																											
	13:54		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.011	0.011		1	1		2		0	0	
6/1/2024	16:26	Fine	Surface	1.0	3	3	4	0.02	0.02	0.03	<0.005	<0.005	0.01	0.03	0.03	0.04	0.001	0.001	0.001	<0.005	<0.005	0.01	1	1	1	4	3	0	0	0
			Middle																											
	16:30		Bottom	4.2	4	4		0.03	0.03		0.01	0.01		0.04	0.04		0.001	0.001		0.005	0.005		1	1		3		0	0	
8/1/2024	16:03	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.006	0.006	0.01	1	1	2	1	1	0	0	0
			Middle																											
	16:07		Bottom	4.2	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.006	0.006		2	2		1		0	0	
10/1/2024	16:51	Fine	Surface	1.0	4	4	5	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.001	0.001	0.001	0.009	0.009	0.01	2	2	2	1	2	0	0	0
			Middle																											
	16:55		Bottom	4.2	5	5		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.008	0.008		2	2		2		0	0	
12/1/2024	21:05	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.002	0.002	0.002	0.008	0.008	0.01	2	2	2	4	4	5	5	3
			Middle																											
	21:09		Bottom	4.3	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.008	0.008		2	2		5		0	0	
15/1/2024	12:21	Fine	Surface	1.0	4	4	4	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.04	0.04	0.03	<0.001	<0.001	<0.001	0.016	0.016	0.02	2	2	2	1	2	8	8	9
			Middle																											
	12:25		Bottom	4.2	4	4		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.017	0.017		2	2		4		9	9	
17/1/2024	12:48	Cloudy	Surface	1.0	3	3	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.002	0.014	0.014	0.01	1	1	1	2	3	0	0	0
			Middle																											
	12:52		Bottom	4.3	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		1	1		3		0	0	
19/1/2024	15:28	Fine	Surface	1.0	3	3	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.002	0.002	0.002	0.01	0.01	0.01	1	1	1	2	2	2	2	2
			Middle																											
	15:32		Bottom	4.3	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.012	0.012		1	1		3		1	1	

Water Monitoring Result at F3 - Yung Shue Au Fish Culture Zone / Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove

Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	13:34	Cloudy	Surface	1.0	5	5	4	0.12	0.12	0.12	<0.005	<0.005	<0.005	0.14	0.14	0.14	0.013	0.013	0.012	0.016	0.016	0.01	3	3	2	1	1	1	1	2
			Middle																											
	13:38		Bottom	5.2	3	3		0.12	0.12		<0.005	<0.005		0.14	0.14		0.010	0.010		0.009	0.009		2	2		1		3	3	
30/11/2023	11:25	Cloudy	Surface	1.0	4	4	4	0.10	0.10	0.10	<0.005	<0.005	<0.005	0.12	0.12	0.11	0.011	0.011	0.011	0.018	0.018	0.02	3	3	3	2	2	0	0	1
			Middle																											
	11:29		Bottom	4.4	4	4		0.09	0.09		<0.005	<0.005		0.10	0.10		0.010	0.010		0.013	0.013		3	3		2		1	1	
1/12/2023	13:44	Fine	Surface	1.0	5	5	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.004	0.004	0.004	0.005	0.005	0.01	2	2	3	1	2	0	0	1
			Middle																											
	13:48		Bottom	4.2	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.003	0.003		<0.005	<0.005		3	3		3		1	1	
4/12/2023	18:24	Fine	Surface	1.0	6	6	5	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.002	0.016	0.016	0.02	1	1	1	0	0	1	1	1
			Middle																											
	18:28		Bottom	4.4	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.017	0.017		1	1		0		1	1	
6/12/2023	8:15	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.01	<0.005	<0.005	0.01	0.04	0.04	0.04	0.002	0.002	0.002	0.023	0.023	0.02	1	1	1	3	3	27	27	23
			Middle																											
	8:19		Bottom	5.0	3	3		0.01	0.01		0.01	0.01		0.04	0.04		0.002	0.002		0.019	0.019		2	2		3		18	18	
8/12/2023	9:47	Fine	Surface	1.0	3	3	3	<0.01	<0.01	0.02	0.01	0.01	0.01	0.03	0.03	0.03	0.003	0.003	0.004	0.016	0.016	0.02	1	1	1	5	4	0	0	2
			Middle																											
	9:51		Bottom	4.2	3	3		0.02	0.02		<0.005	<0.005		0.02	0.02		0.004	0.004		<0.005	<0.005		1	1		4		3	3	
11/12/2023	9:30	Cloudy	Surface	1.0	3	3	3	0.05	0.05	0.06	0.01	0.01	0.01	0.07	0.07	0.08	0.007	0.007	0.009	0.015	0.015	0.02	2	2	2	3	3	3	3	2
			Middle																											
	9:34		Bottom	4.2	3	3		0.06	0.06		0.01	0.01		0.09	0.09		0.010	0.010		0.022	0.022		<1	<1		3		0	0	
13/12/2023	13:06	Cloudy	Surface	1.0	4	4	4	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	0.001	0.011	0.011	0.01	2	2	2	9	7	1	1	4
			Middle																											
	13:10		Bottom	4.3	4	4		0.02	0.02		0.01	0.01		0.04	0.04		0.001	0.001		0.011	0.011		2	2		5		6	6	
15/12/2023	16:07	Fine	Surface	1.0	3	3	3	0.11	0.11	0.10	<0.005	<0.005	<0.005	0.13	0.13	0.13	0.007	0.007	0.006	0.021	0.021	0.02	<1	<1	<1	4	4	0	0	0
			Middle																											
	16:11		Bottom	4.1	3	3		0.09	0.09		<0.005	<0.005		0.13	0.13		0.004	0.004		0.027	0.027		<1	<1		4		0	0	
18/12/2023	16:30	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.002	0.002	0.003	0.015	0.015	0.02	<1	<1	1	11	6	0	0	0
			Middle																											
	16:34		Bottom	4.2	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.003	0.003		0.017	0.017		1	1		0		0	0	
20/12/2023	9:32	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.03	0.001	0.001	0.001	0.009	0.009	0.01	1	1	1	3	3	1	1	1
			Middle																											
	9:36		Bottom	4.1	4	4		<0.01	<0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		0.008	0.008		1	1		3		1	1	
22/12/2023	10:14	Cloudy	Surface	1.0	5	5	6	0.11	0.11	0.11	0.01	0.01	0.01	0.14	0.14	0.13	0.004	0.004	0.004	0.019	0.019	0.02	1	1	1	5	4	1	1	1
			Middle																											
	10:18		Bottom	4.4	6	6		0.10	0.10		0.01	0.01		0.12	0.12		0.003	0.003		0.014	0.014		1	1		3		1	1	
26/12/2023	13:12	Cloudy	Surface	1.0	3	3	3	<0.01	<0.01	<0.01	<0.005	<0.005	0.01	0.02	0.02	0.01	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	1	1	1	2	2	1	1	3
			Middle																											
	13:16		Bottom	4.4	3	3		<0.01	<0.01		0.01	0.01		0.01	0.01		<0.001	<0.001		<0.005	<0.005		1	1		2		4	4	
28/12/2023	11:02	Fine	Surface	1.0	3	3	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.002	0.002	0.002	0.012	0.012	0.01	<1	<1	<1	3	2	0	0	0
			Middle																											
	11:06		Bottom	4.0	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.001	0.001		0.01	0.01		<1	<1		2		0	0	
30/12/2023	16:26	Fine	Surface	1.0	3	3	3	0.04	0.04	0.03	0.01	0.01	0.01	0.05	0.05	0.04	0.001	0.001	0.001	0.006	0.006	0.01	1	1	1	2	2	3	3	2
			Middle																											
	16:30		Bottom	4.1	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.007	0.007		1	1		2		0	0	
2/1/2024	8:49	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.03	0.03	0.04	<0.001	<0.001	0.001	0.008	0.008	0.01	2	2	1	3	3	0	0	0
			Middle																											
	8:53		Bottom	4.0	3	3		0.02	0.02		0.01	0.01		0.04	0.04		0.001	0.001		0.011	0.011		1	1		3		0	0	
4/1/2024	17:49	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	<0.001	0.013	0.013	0.01	2	2	2	4	4	0	0	0
			Middle																											
	17:53		Bottom	4.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.012	0.012		1	1		4		0	0	
6/1/2024	10:17	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	0.01	1	1	1	4	4	0	0	0
			Middle																											
	10:21		Bottom	4.1	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.006	0.006		1	1		3		0	0	
8/1/2024	10:52	Fine	Surface	1.0	3	3	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	0.01	2	2	2	1	1	0	0	0
			Middle																											
	10:56		Bottom	4.1	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.01	0.01		2	2		1		0	0	
10/1/2024	12:29	Fine	Surface	1.0	5	5	5	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	0.001	<0.005	<0.005	0.01	1	1	1	2	2	3	3	2
			Middle																											
	12:33		Bottom	4.0	5	5		0.02	0.02		<0.005	<0.005		0.03	0.03		0.001	0.001		0.007	0.007		2	2		2		0	0	
12/1/2024	15:24	Fine	Surface	1.0	4	4	4	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.06	0.002	0.002	0.002	0.016	0.016	0.02	2	2	2	3	2	1	1	2
			Middle																											
	15:28		Bottom	4.0	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.014	0.014		2	2		1		3	3	
15/1/2024	18:01	Fine	Surface	1.0	4	4	4	0.07	0.07	0.05	<0.005	<0.005	<0.005	0.09	0.09	0.07	0.004	0.004	0.003	0.019	0.019	0.02	2	2	2	2	3	4	4	7
			Middle																											
	18:05		Bottom	4.0	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.016	0.016		2	2		3		10	10	
17/1/2024	19:55	Cloudy	Surface	1.0	3	3	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.001	0.001	0.001	0.019	0.019	0.02	1	1	1	3	3	0	0	0
			Middle																											
	19:59		Bottom	4.0	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.015	0.015		1	1		3		0	0	
19/1/2024	10:00	Fine	Surface	1.0	3	3	3	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.003	0.003	0.003	0.016	0.016	0.02	2	2	2	3	4	0	0	0
			Middle																											
	10:04		Bottom	3.9	3	3		0.05	0.05		<0.005	<0.005		0.08	0.08		0.003	0.003		0.017	0.017		2	2		4		0	0	

Water Monitoring Result at F4 - Lo Fu Wat Fish Culture Zone
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	7:48	Cloudy	Surface	1.0	3	3	3	0.13	0.13	0.14	<0.005	<0.005	<0.005	0.14	0.14	0.16	0.011	0.011	0.013	0.014	0.014	0.02	2	2	3	0	1	0	0	2
	7:50		Middle	5.5	3	3		0.16	0.16		<0.005	<0.005		0.18	0.18		0.020	0.020		0.016	0.016		3	3		1		5	5	
	7:52		Bottom	10.0	3	3		0.13	0.13		<0.005	<0.005		0.15	0.15		0.007	0.007		0.018	0.018		3	3		1		0	0	
30/11/2023	9:20	Cloudy	Surface	1.0	3	3	3	0.07	0.07	0.09	<0.005	<0.005	<0.005	0.08	0.08	0.10	0.008	0.008	0.010	0.008	0.008	0.01	2	2	1	3	2	1	1	1
	9:22		Middle	5.5	4	4		0.13	0.13		<0.005	<0.005		0.15	0.15		0.016	0.016		0.008	0.008		1	1		1		1	1	
	9:24		Bottom	10.0	3	3		0.06	0.06		<0.005	<0.005		0.07	0.07		0.007	0.007		<0.005	<0.005		1	1		2		0	0	
1/12/2023	10:34	Fine	Surface	1.0	5	5	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.004	0.004	0.004	0.005	0.005	0.01	<1	<1	1	2	3	0	0	0
	10:36		Middle	5.5	4	4		0.02	0.02		0.01	0.01	0.01	0.03	0.03		0.003	0.003		<0.005	<0.005		<1	<1		4		0	0	
	10:38		Bottom	10.0	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.005	0.005		<0.005	<0.005		1	1		2		0	0	
4/12/2023	9:40	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.04	0.04	0.06	0.003	0.003	0.003	0.008	0.008	0.02	1	1	1	0	0	0	0	0
	9:42		Middle	5.5	3	3		0.04	0.04		<0.005	<0.005		0.07	0.07		0.004	0.004		0.027	0.027		1	1		0		0	0	
	9:44		Bottom	10.0	3	3		0.04	0.04		<0.005	<0.005		0.07	0.07		0.003	0.003		0.03	0.03		1	1		0		0	0	
6/12/2023	14:49	Cloudy	Surface	1.0	4	4	4	0.01	0.01	0.01	<0.005	<0.005	0.01	0.03	0.03	0.03	0.002	0.002	0.001	<0.005	<0.005	0.01	1	1	1	2	3	0	0	0
	14:51		Middle	5.4	4	4		<0.01	<0.01		0.01	0.01		0.03	0.03		0.001	0.001		0.005	0.005		1	1		3		0	0	
	14:53		Bottom	9.8	3	3		0.01	0.01		0.01	0.01		0.03	0.03		0.001	0.001		0.005	0.005		1	1		4		0	0	
8/12/2023	15:56	Fine	Surface	1.0	3	3	3	0.06	0.06	0.06	<0.005	<0.005	<0.005	0.07	0.07	0.08	0.010	0.010	0.010	0.01	0.01	0.01	2	2	2	3	2	0	0	0
	15:58		Middle	5.5	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.013	0.013		0.014	0.014		1	1		2		0	0	
	16:00		Bottom	10.0	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.008	0.008		0.015	0.015		2	2		2		0	0	
11/12/2023	7:48	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.004	0.004	0.005	0.006	0.006	0.01	<1	<1	<1	2	2	0	0	0
	7:50		Middle	5.5	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.004	0.004		0.009	0.009		<1	<1		2		0	0	
	7:52		Bottom	10.0	4	4		0.05	0.05		<0.005	<0.005		0.06	0.06		0.007	0.007		0.006	0.006		<1	<1		3		0	0	
13/12/2023	8:48	Cloudy	Surface	1.0	4	4	3	0.02	0.02	0.02	0.01	0.01	0.01	0.03	0.03	0.03	0.001	0.001	0.001	0.01	0.01	0.01	1	1	1	5	6	1	1	1
	8:50		Middle	5.6	3	3		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.01	0.01		1	1		3		2	2	
	8:52		Bottom	10.2	3	3		0.02	0.02		0.01	0.01		0.04	0.04		0.001	0.001		0.021	0.021		1	1		10		0	0	
15/12/2023	11:08	Fine	Surface	1.0	4	4	4	0.09	0.09	0.11	<0.005	<0.005	<0.005	0.10	0.10	0.13	0.006	0.006	0.006	<0.005	<0.005	0.02	1	1	1	3	3	0	0	0
	11:10		Middle	5.0	4	4		0.13	0.13		<0.005	<0.005		0.16	0.16		0.007	0.007		0.018	0.018		1	1		2		0	0	
	11:12		Bottom	9.0	4	4		0.10	0.10		<0.005	<0.005		0.12	0.12		0.005	0.005		0.016	0.016		1	1		3		0	0	
18/12/2023	11:49	Cloudy	Surface	1.0	4	4	4	0.08	0.08	0.06	0.01	0.01	0.01	0.10	0.10	0.08	0.005	0.005	0.004	0.016	0.016	0.01	1	1	1	5	7	0	0	1
	11:51		Middle	5.5	4	4		0.05	0.05		<0.005	<0.005		0.06	0.06		0.003	0.003		<0.005	<0.005		1	1		13		1	1	
	11:53		Bottom	10.0	3	3		0.06	0.06		<0.005	<0.005		0.07	0.07		0.003	0.003		0.009	0.009		1	1		3		1	1	
20/12/2023	15:09	Cloudy	Surface	1.0	5	5	4	<0.01	<0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.03	<0.001	<0.001	0.001	0.014	0.014	0.01	1	1	1	13	8	1	1	2
	15:11		Middle	5.6	3	3		<0.01	<0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.015	0.015		1	1		3		2	2	
	15:13		Bottom	10.2	3	3		0.02	0.02		0.01	0.01		0.05	0.05		0.001	0.001		0.014	0.014		1	1		6		3	3	
22/12/2023	15:56	Cloudy	Surface	1.0	6	6	5	0.07	0.07	0.08	0.01	0.01	0.01	0.10	0.10	0.11	0.003	0.003	0.003	0.013	0.013	0.01	1	1	1	5	6	0	0	0
	15:58		Middle	5.5	4	4		0.11	0.11		0.01	0.01	0.01	0.13	0.13		0.004	0.004		0.014	0.014		1	1		5		0	0	
	16:00		Bottom	10.0	4	4		0.07	0.07		0.01	0.01		0.09	0.09		0.003	0.003		0.008	0.008		<1	<1		6		0	0	
26/12/2023	7:42	Cloudy	Surface	1.0	5	5	4	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	<0.001	0.024	0.024	0.02	1	1	1	2	3	1	1	1
	7:44		Middle	5.5	4	4		<0.01	<0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.024	0.024		1	1		3		0	0	
	7:46		Bottom	10.0	4	4		<0.01	<0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.024	0.024		1	1		4		1	1	
28/12/2023	14:45	Fine	Surface	1.0	5	5	4	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.05	0.002	0.002	0.002	0.011	0.011	0.01	<1	<1	<1	3	2	0	0	0
	14:47		Middle	5.6	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.007	0.007		<1	<1		1		0	0	
	14:49		Bottom	10.2	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.008	0.008		<1	<1		3		0	0	
30/12/2023	11:20	Fine	Surface	1.0	3	3	3	0.06	0.06	0.06	<0.005	<0.005	0.01	0.07	0.07	0.08	0.002	0.002	0.003	0.012	0.012	0.01	1	1	1	2	1	3	3	1
	11:22		Middle	5.5	3	3		0.09	0.09		0.01	0.01		0.11	0.11		0.004	0.004		0.016	0.016		1	1		1		1	1	
	11:24		Bottom	10.0	3	3		0.03	0.03		0.01	0.01		0.05	0.05		<0.001	<0.001		0.015	0.015		2	2		1		0	0	
2/1/2024	15:35	Fine	Surface	1.0	3	3	3	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.011	0.011	0.01	2	2	2	2	2	0	0	0
	15:37		Middle	5.7	3	3		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.01	0.01		1	1		1		0	0	
	15:39		Bottom	10.3	3	3		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.01	0.01		2	2		3		0	0	
4/1/2024	13:18	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.001	0.001	0.001	0.018	0.018	0.02	1	1	1	2	2	0	0	0
	13:20		Middle	5.5	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.016	0.016		1	1		2		0	0	
	13:22		Bottom	10.1	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.018	0.018		2	2		3		0	0	
6/1/2024	16:03	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	0.01	1	1	1	3	4	1	1	1
	16:05		Middle	5.5	3	3		0.01	0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		4		2	2	
	16:07		Bottom	10.1	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.005	0.005		1	1		4		0	0	
8/1/2024	15:36	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.001	0.001	0.002	0.012	0.012	0.01	2	2	2	2	1	0	0	0
	15:38		Middle	5.6	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.015	0.015		1	1		1		0	0	
	15:40		Bottom	10.2	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.014	0.014		2	2		1		0	0	
10/1/2024	16:25	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.01	0.01	0.01	1	1	2	2	1	0	0	0
	16:27		Middle	5.5	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		1	1		1		0	0	
	16:29		Bottom	10.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.012	0.012		2	2		1		0	0	
12/1/2024	20:42	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.007	0.007	0.01	2	2	2	3	3	0	0	0
	20:44		Middle	5.6	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.009	0.009		2	2		2		0	0	
	20:46		Bottom	10.2	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.007	0.007		2	2		4		0	0	
15/1/2024	11:56	Fine	Surface	1.0	3	3	4	0.02	0.02	0.04	<0.005	<0.005	<0.005	0.04	0.04	0.06	<0.001	<0.001	0.003	0.02	0.02	0.02	2	2	2	4	3	10	10	10
	11:58		Middle	5.6	4	4		0.01	0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.007	0.007		2	2		3		11	11	
	12:00		Bottom	10.2	4	4		0.08	0.08		<0.005	<0.005		0.11	0.11		0.003	0.003		0.028	0.028		2	2		2		9	9	
17/1/2024	12:24	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.001	0.001	0.001	0.005	0.005	0.01	1	1	2	2	2	1	1	0
	12:26		Middle	5.5	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		3		0	0	
	12:28		Bottom	10.0	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.01	0.01		2	2		3		0	0	
19/1/2024	15:03	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	0.01	0.01	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.013	0.013	0.01	2	2	2	2	2	0	0	0
	15:05		Middle	5.6	3	3		0.05	0.05		<0.005	<0.005		0.07	0.07		0.002	0.002		0.012	0.012		2	2		2		1	1	
	15:07		Bottom	10.2	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.013	0.013		1	1		3		0	0	

Water Monitoring Result at F4 - Lo Fu Wat Fish Culture Zone
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	13:46	Cloudy	Surface	1.0	4	4	3	0.13	0.13	0.12	<0.005	<0.005	<0.005	0.15	0.15	0.13	0.012	0.012	0.011	0.011	0.011	0.01	2	2	1	1	1	0	0	0
	13:48		Middle	5.0	3	3		0.11	0.11		<0.005	<0.005		0.13	0.13		0.013	0.013		0.014	0.014		1	1		1		0	0	
	13:50		Bottom	9.0	3	3		0.11	0.11		<0.005	<0.005		0.12	0.12		0.007	0.007		0.012	0.012		1	1		1		0	0	
30/11/2023	11:49	Cloudy	Surface	1.0	3	3	3	0.08	0.08	0.07	<0.005	<0.005	<0.005	0.10	0.10	0.09	0.010	0.010	0.009	0.013	0.013	0.01	3	3	2	2	2	1	1	0
	11:51		Middle	5.4	3	3		0.08	0.08		<0.005	<0.005		0.10	0.10		0.010	0.010		0.013	0.013		2	2		2		0	0	
	11:53		Bottom	9.8	3	3		0.05	0.05		<0.005	<0.005		0.07	0.07		0.006	0.006		0.011	0.011		2	2		1		0	0	
1/12/2023	13:58	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	0.01	0.03	0.03	0.04	0.003	0.003	0.003	0.006	0.006	0.01	2	2	2	2	2	0	0	0
	14:00		Middle	5.3	3	3		0.03	0.03		0.01	0.01		0.04	0.04		0.004	0.004		0.005	0.005		2	2		1		0	0	
	14:02		Bottom	9.5	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.003	0.003		0.006	0.006		2	2		1		0	0	
4/12/2023	17:59	Fine	Surface	1.0	3	3	3	0.05	0.05	0.03	<0.005	<0.005	<0.005	0.08	0.08	0.05	0.005	0.005	0.003	0.029	0.029	0.02	1	1	1	0	0	0	0	0
	18:01		Middle	5.5	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		0.006	0.006		1	1		0		0	0	
	18:03		Bottom	9.9	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.002	0.002		0.011	0.011		1	1		0		0	0	
6/12/2023	8:32	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.02	0.02	0.03	0.002	0.002	0.002	0.005	0.005	0.01	1	1	1	2	3	0	0	0
	8:34		Middle	5.6	3	3		0.01	0.01		<0.005	<0.005		0.04	0.04		0.001	0.001		0.019	0.019		1	1		4		0	0	
	8:36		Bottom	10.2	4	4		0.01	0.01		<0.005	<0.005		0.03	0.03		0.002	0.002		0.014	0.014		1	1		3		0	0	
8/12/2023	9:20	Fine	Surface	1.0	3	3	3	0.03	0.03	0.05	<0.005	<0.005	<0.005	0.05	0.05	0.08	0.008	0.008	0.011	0.012	0.012	0.02	1	1	1	4	3	0	0	0
	9:22		Middle	5.5	3	3		0.07	0.07		<0.005	<0.005		0.09	0.09		0.016	0.016		0.016	0.016		1	1		3		0	0	
	9:24		Bottom	9.9	3	3		0.06	0.06		<0.005	<0.005		0.09	0.09		0.008	0.008		0.019	0.019		1	1		3		0	0	
11/12/2023	9:56	Cloudy	Surface	1.0	3	3	3	0.09	0.09	0.11	<0.005	<0.005	<0.005	0.11	0.11	0.13	0.014	0.014	0.017	0.009	0.009	0.01	<1	<1	2	1	2	0	0	0
	9:58		Middle	5.0	3	3		0.07	0.07		<0.005	<0.005		0.08	0.08		0.010	0.010		0.009	0.009		<1	<1		2		0	0	
	10:00		Bottom	9.0	3	3		0.18	0.18		<0.005	<0.005		0.20	0.20		0.026	0.026		0.016	0.016		2	2		2		0	0	
13/12/2023	12:39	Cloudy	Surface	1.0	3	3	3	0.03	0.03	0.04	0.01	0.01	0.01	0.05	0.05	0.04	0.002	0.002	0.003	0.01	0.01	0.01	1	1	1	3	3	0	0	0
	12:41		Middle	5.3	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.003	0.003		0.013	0.013		1	1		3		0	0	
	12:43		Bottom	9.5	4	4		<0.01	<0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.011	0.011		1	1		2		1	1	
15/12/2023	15:38	Fine	Surface	1.0	3	3	3	0.10	0.10	0.11	<0.005	<0.005	<0.005	0.12	0.12	0.14	0.006	0.006	0.006	0.019	0.019	0.02	<1	<1	<1	3	4	0	0	0
	15:40		Middle	5.4	3	3		0.13	0.13		<0.005	<0.005		0.16	0.16		0.007	0.007		0.022	0.022		<1	<1		5		0	0	
	15:42		Bottom	9.8	3	3		0.11	0.11		<0.005	<0.005		0.13	0.13		0.005	0.005		0.017	0.017		<1	<1		3		0	0	
18/12/2023	16:04	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	0.01	0.06	0.06	0.06	0.003	0.003	0.003	0.014	0.014	0.01	1	1	1	5	5	0	0	1
	16:06		Middle	5.3	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.003	0.003		0.012	0.012		1	1		4		1	1	
	16:08		Bottom	9.5	4	4		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.015	0.015		<1	<1		6		1	1	
20/12/2023	9:09	Cloudy	Surface	1.0	4	4	4	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.01	0.01	0.01	1	1	1	6	4	1	1	5
	9:11		Middle	5.5	4	4		<0.01	<0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.013	0.013		1	1		3		5	5	
	9:13		Bottom	10.0	4	4		<0.01	<0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.015	0.015		1	1		4		9	9	
22/12/2023	9:47	Cloudy	Surface	1.0	4	4	4	0.08	0.08	0.09	0.01	0.01	0.01	0.09	0.09	0.11	0.003	0.003	0.003	0.007	0.007	0.01	1	1	1	5	5	2	2	1
	9:49		Middle	5.5	4	4		0.09	0.09		0.01	0.01		0.11	0.11		0.003	0.003		0.011	0.011		1	1		4		0	0	
	9:51		Bottom	10.0	4	4		0.09	0.09		0.01	0.01		0.12	0.12		0.003	0.003		0.015	0.015		1	1		6		0	0	
26/12/2023	12:41	Cloudy	Surface	1.0	3	3	3	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.021	0.021	0.02	1	1	1	2	3	0	0	0
	12:43		Middle	5.5	3	3		<0.01	<0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.024	0.024		2	2		3		0	0	
	12:45		Bottom	10.0	4	4		<0.01	<0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.022	0.022		2	2		4		0	0	
28/12/2023	10:35	Fine	Surface	1.0	3	3	3	0.05	0.05	0.04	0.01	0.01	0.01	0.07	0.07	0.05	0.002	0.002	0.001	0.014	0.014	0.01	<1	<1	1	4	3	0	0	0
	10:37		Middle	5.5	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.01	0.01		1	1		3		0	0	
	10:39		Bottom	10.0	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.01	0.01		1	1		2		0	0	
30/12/2023	16:01	Fine	Surface	1.0	3	3	3	0.02	0.02	0.07	<0.005	<0.005	0.01	0.03	0.03	0.08	<0.001	<0.001	0.004	<0.005	<0.005	0.02	1	1	1	3	2	0	0	1
	16:03		Middle	5.4	3	3		0.07	0.07		0.01	0.01		0.09	0.09		0.003	0.003		0.015	0.015		2	2		2		0	0	
	16:05		Bottom	9.7	3	3		0.11	0.11		0.01	0.01		0.13	0.13		0.004	0.004		0.015	0.015		2	2		2		2	2	
2/1/2024	8:23	Fine	Surface	1.0	3	3	3	0.05	0.05	0.04	0.01	0.01	0.01	0.07	0.07	0.06	0.001	0.001	0.002	0.018	0.018	0.01	1	1	2	2	2	0	0	2
	8:25		Middle	5.4	3	3		0.06	0.06		0.01	0.01		0.08	0.08		0.003	0.003		0.016	0.016		2	2		2		6	6	
	8:27		Bottom	9.8	3	3		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		0.006	0.006		2	2		2		0	0	
4/1/2024	17:21	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.011	0.011	0.01	<1	<1	1	3	3	0	0	0
	17:23		Middle	5.5	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.012	0.012		1	1		4		0	0	
	17:25		Bottom	10.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.014	0.014		2	2		3		0	0	
6/1/2024	9:53	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.006	0.006	0.01	1	1	1	4	4	0	0	0
	9:55		Middle	5.5	3	3		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.007	0.007		1	1		3		1	1	
	9:57		Bottom	10.0	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		4		0	0	
8/1/2024	10:25	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	0.01	0.04	0.04	0.04	0.001	0.001	0.001	0.012	0.012	0.01	1	1	2	1	1	0	0	0
	10:27		Middle	5.4	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		0		0	0	
	10:29		Bottom	9.8	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.011	0.011		2	2		1		0	0	
10/1/2024	12:04	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	0.001	0.006	0.006	0.01	2	2	2	2	2	0	0	0
	12:06		Middle	5.5	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.006	0.006		2	2		2		0	0	
	12:08		Bottom	10.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.008	0.008		2	2		1		0	0	
12/1/2024	15:00	Fine	Surface	1.0	3	3	3	0.04	0.04	0.11	<0.005	<0.005	<0.005	0.05	0.05	0.20	0.002	0.002	0.005	0.009	0.009	0.09	2	2	2	2	2	3	3	1
	15:02		Middle	5.5	4	4		0.26	0.26		<0.005	<0.005		0.50	0.50		0.012	0.012		0.238	0.238		2	2		3		0	0	
	15:04		Bottom	10.0	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.013	0.013		2	2		2		0	0	
15/1/2024	17:33	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.002	0.015	0.015	0.01	2	2	2	3	3	10	10	9
	17:35		Middle	5.4	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.011	0.011		2	2		2		8	8	
	17:37		Bottom	9.8	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.01	0.01		2	2		3		8	8	
17/1/2024	19:30	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.011	0.011	0.01	1	1	2	3	2	0	0	0
	19:32		Middle	5.5	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		2		1	1	
	19:34		Bottom	9.9	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.013	0.013		2	2		1		0	0	
19/1/2024	9:36	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.06	0.001	0.001	0.001	0.012	0.012	0.02	2	2	2	4	4	0	0	0
	9:38		Middle	5.4	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		4		0	0	
	9:40		Bottom	9.8	3	3		0.04	0.04		<0.005	<0.005		0.08	0.08		0.002	0.002		0.034	0.034		2	2		4		0	0	

Water Monitoring Result at CR1 - Corals at Tai Po Industrial Estate
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	5:37	Cloudy	Surface	1.0	6	6	6	0.27	0.27	0.29	0.07	0.07	0.07	0.45	0.45	0.47	1.000	1.000	1.100	0.1	0.1	0.11	3	3	3	1	1	350	350	325
			Middle																											
	5:41		Bottom	4.2	6	6		0.30	0.30		0.07	0.07		0.49	0.49		1.200	1.200		0.11	0.11		3	3		1		300	300	
30/11/2023	7:25	Cloudy	Surface	1.0	5	5	5	7.80	7.80	7.70	0.04	0.04	0.04	8.00	8.00	7.90	1.500	1.500	1.230	0.134	0.134	0.14	2	2	2	2	3	150	150	150
			Middle																											
	7:29		Bottom	4.3	4	4		7.60	7.60		0.04	0.04		7.80	7.80		0.959	0.959		0.153	0.153		2	2		3		150	150	
1/12/2023	8:26	Fine	Surface	1.0	5	5	5	0.09	0.09	0.10	0.01	0.01	0.01	0.11	0.11	0.12	0.017	0.017	0.018	0.014	0.014	0.02	3	3	3	2	2	340	340	320
			Middle																											
	8:30		Bottom	4.2	4	4		0.10	0.10		0.01	0.01		0.12	0.12		0.019	0.019		0.016	0.016		3	3		2		300	300	
4/12/2023	7:30	Fine	Surface	1.0	3	3	4	0.11	0.11	0.15	<0.005	<0.005	<0.005	0.14	0.14	0.19	0.019	0.019	0.017	0.028	0.028	0.04	2	2	2	0	0	100	100	100
			Middle																											
	7:34		Bottom	4.3	4	4		0.18	0.18		<0.005	<0.005		0.23	0.23		0.014	0.014		0.045	0.045		2	2		0		100	100	
6/12/2023	12:53	Cloudy	Surface	1.0	3	3	4	0.03	0.03	0.03	0.01	0.01	0.01	0.06	0.06	0.05	0.009	0.009	0.006	0.02	0.02	0.02	3	3	3	4	2	510	510	550
			Middle																											
	12:57		Bottom	4.2	4	4		0.02	0.02		0.01	0.01		0.04	0.04		0.002	0.002		0.02	0.02		3	3		1		590	590	
8/12/2023	13:54	Fine	Surface	1.0	3	3	4	0.07	0.07	0.07	0.01	0.01	0.01	0.10	0.10	0.09	0.015	0.015	0.014	0.024	0.024	0.02	2	2	2	2	3	62	62	59
			Middle																											
	13:58		Bottom	4.2	4	4		0.06	0.06		0.01	0.01		0.08	0.08		0.013	0.013		0.016	0.016		2	2		3		55	55	
11/12/2023	5:53	Cloudy	Surface	1.0	6	6	6	0.07	0.07	0.14	<0.005	<0.005	0.01	0.10	0.10	0.18	0.008	0.008	0.037	0.027	0.027	0.03	2	2	2	11	9	24	24	23
			Middle																											
	5:57		Bottom	4.2	6	6		0.21	0.21		0.01	0.01		0.25	0.25		0.066	0.066		0.033	0.033		2	2		7		22	22	
13/12/2023	5:53	Cloudy	Surface	1.0	5	5	5	0.08	0.08	0.06	0.01	0.01	0.01	0.12	0.12	0.09	0.008	0.008	0.006	0.03	0.03	0.03	2	2	2	3	3	220	220	200
			Middle																											
	5:57		Bottom	4.2	4	4		0.04	0.04		0.01	0.01		0.07	0.07		0.004	0.004		0.026	0.026		2	2		2		180	180	
15/12/2023	7:34	Fine	Surface	1.0	4	4	4	0.16	0.16	0.25	0.01	0.01	0.01	0.22	0.22	0.32	0.011	0.011	0.013	0.059	0.059	0.07	2	2	2	7	7	160	160	185
			Middle																											
	7:38		Bottom	4.2	4	4		0.33	0.33		0.01	0.01		0.41	0.41		0.014	0.014		0.072	0.072		2	2		7		210	210	
18/12/2023	9:53	Cloudy	Surface	1.0	6	6	6	0.12	0.12	0.10	0.01	0.01	0.01	0.18	0.18	0.16	0.005	0.005	0.004	0.045	0.045	0.05	3	3	2	12	8	230	230	245
			Middle																											
	9:57		Bottom	4.2	6	6		0.08	0.08		0.01	0.01		0.14	0.14		0.003	0.003		0.049	0.049		1	1		4		260	260	
20/12/2023	13:12	Cloudy	Surface	1.0	3	3	3	0.04	0.04	0.03	0.01	0.01	0.01	0.07	0.07	0.06	0.002	0.002	0.002	0.023	0.023	0.02	1	1	1	5	5	2	2	2
			Middle																											
	13:16		Bottom	4.3	3	3		0.01	0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.016	0.016		1	1		5		2	2	
22/12/2023	13:32	Cloudy	Surface	1.0	5	5	6	0.11	0.11	0.12	0.01	0.01	0.01	0.13	0.13	0.14	0.004	0.004	0.004	0.015	0.015	0.02	1	1	2	7	7	28	28	31
			Middle																											
	13:36		Bottom	4.2	6	6		0.12	0.12		0.01	0.01		0.15	0.15		0.004	0.004		0.018	0.018		2	2		6		33	33	
26/12/2023	5:34	Cloudy	Surface	1.0	5	5	5	<0.01	<0.01	0.03	<0.005	<0.005	<0.005	0.02	0.02	0.03	<0.001	<0.001	<0.001	0.006	0.006	0.01	1	1	1	4	4	48	48	50
			Middle																											
	5:38		Bottom	4.2	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.015	0.015		1	1		4		52	52	
28/12/2023	12:49	Fine	Surface	1.0	3	3	3	0.06	0.06	0.05	0.01	0.01	0.01	0.11	0.11	0.10	0.003	0.003	0.002	0.038	0.038	0.03	1	1	1	2	2	880	880	925
			Middle																											
	12:53		Bottom	4.3	3	3		0.04	0.04		0.01	0.01		0.08	0.08		0.001	0.001		0.031	0.031		1	1		2		970	970	
30/12/2023	9:25	Fine	Surface	1.0	3	3	3	0.22	0.22	0.21	<0.005	<0.005	0.01	0.25	0.25	0.24	0.009	0.009	0.008	0.027	0.027	0.02	1	1	2	2	1	81	81	96
			Middle																											
	9:29		Bottom	4.3	3	3		0.19	0.19		0.01	0.01		0.22	0.22		0.007	0.007		0.021	0.021		2	2		1		110	110	
2/1/2024	13:37	Fine	Surface	1.0	4	4	4	0.05	0.05	0.04	0.01	0.01	0.01	0.08	0.08	0.06	0.003	0.003	0.002	0.026	0.026	0.02	2	2	2	4	5	15	15	17
			Middle																											
	13:41		Bottom	4.4	4	4		0.02	0.02		0.01	0.01		0.05	0.05		0.001	0.001		0.017	0.017		2	2		6		19	19	
4/1/2024	11:23	Fine	Surface	1.0	3	3	3	0.29	0.29	0.29	0.01	0.01	0.01	0.33	0.33	0.33	0.014	0.014	0.014	0.033	0.033	0.03	2	2	2	3	3	90	90	87
			Middle																											
	11:27		Bottom	4.2	3	3		0.29	0.29		0.01	0.01		0.33	0.33		0.013	0.013		0.031	0.031		2	2		2		84	84	
6/1/2024	14:05	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	<0.005	<0.005	0.01	0.04	0.04	0.05	0.001	0.001	0.001	0.008	0.008	0.01	1	1	1	4	4	110	110	135
			Middle																											
	14:09		Bottom	4.3	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.001	0.001		0.013	0.013		2	2		4		160	160	
8/1/2024	13:42	Fine	Surface	1.0	4	4	4	0.06	0.06	0.05	0.01	0.01	0.01	0.08	0.08	0.07	0.003	0.003	0.003	0.018	0.018	0.02	2	2	2	3	3	40	40	43
			Middle																											
	13:46		Bottom	4.2	4	4		0.04	0.04		0.01	0.01		0.07	0.07		0.002	0.002		0.02	0.02		2	2		2		45	45	
10/1/2024	14:28	Fine	Surface	1.0	4	4	4	0.11	0.11	0.11	0.01	0.01	0.01	0.19	0.19	0.19	0.006	0.006	0.006	0.068	0.068	0.07	2	2	2	5	5	330	330	295
			Middle																											
	14:32		Bottom	4.2	3	3		0.10	0.10		0.01	0.01		0.18	0.18		0.005	0.005		0.068	0.068		2	2		4		260	260	
12/1/2024	18:46	Fine	Surface	1.0	4	4	4	0.05	0.05	0.06	<0.005	<0.005	<0.005	0.07	0.07	0.08	.0003	.0003	0.002	0.014	0.014	0.02	2	2	2	3	3	250	250	230
			Middle																											
	18:50		Bottom	4.4	3	3		0.07	0.07		<0.005	<0.005		0.09	0.09		0.002	0.002		0.019	0.019		2	2		2		210	210	
15/1/2024	10:00	Fine	Surface	1.0	3	3	3	0.12	0.12	0.10	0.01	0.01	0.01	0.17	0.17	0.14	0.005	0.005	0.004	0.041	0.041	0.04	2	2	2	3	4	34	34	47
			Middle																											
	10:04		Bottom	4.3	3	3		0.07	0.07		0.01	0.01		0.11	0.11		0.002	0.002		0.032	0.032		2	2		6		60	60	
17/1/2024	11:31	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.008	0.008	0.01	2	2	2	4	4	0	0	0
			Middle																											
	11:35		Bottom	4.2	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.016	0.016		2	2		3		0	0	
19/1/2024	13:07	Fine	Surface	1.0	3	3	3	0.03	0.03	0.05	<0.005	<0.005	<0.005	0.05	0.05	0.06	0.002	0.002	0.002	0.013	0.013	0.01	1	1	1	4	4	29	29	27
			Middle																											
	13:11		Bottom	4.4	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.002	0.002		0.016	0.016		<1	<1		4		25	25	

Water Monitoring Result at CR1 - Corals at Tai Po Industrial Estate
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	11:36	Cloudy	Surface	1.0	6	6	7	0.29	0.29	0.31	0.07	0.07	0.07	0.49	0.49	0.51	0.027	0.027	0.038	0.13	0.13	0.13	2	2	2	0	0	340	340	365
			Middle																											
	11:40		Bottom	4.0	7	7		0.33	0.33		0.07	0.07		0.53	0.53		0.048	0.048		0.13	0.13		2	2		1		390	390	
30/11/2023	13:43	Cloudy	Surface	1.0	5	5	5	0.20	0.20	0.25	0.02	0.02	0.03	0.51	0.51	0.49	0.039	0.039	0.039	0.288	0.288	0.21	2	2	3	4	4	200	200	185
			Middle																											
	13:47		Bottom	4.1	5	5		0.30	0.30		0.03	0.03		0.47	0.47		0.038	0.038		0.138	0.138		3	3		4		170	170	
1/12/2023	16:00	Fine	Surface	1.0	4	4	5	0.06	0.06	0.06	<0.005	<0.005	<0.005	0.08	0.08	0.08	0.010	0.010	0.011	0.017	0.017	0.02	4	4	4	4	3	480	480	495
			Middle																											
	16:04		Bottom	4.0	5	5		0.06	0.06		<0.005	<0.005		0.08	0.08		0.011	0.011		0.016	0.016		4	4		1		510	510	
4/12/2023	15:51	Fine	Surface	1.0	4	4	5	0.15	0.15	0.15	<0.005	<0.005	<0.005	0.18	0.18	0.19	0.028	0.028	0.020	0.021	0.021	0.03	2	2	2	0	0	280	280	355
			Middle																											
	15:55		Bottom	4.1	5	5		0.15	0.15		<0.005	<0.005		0.19	0.19		0.012	0.012		0.03	0.03		2	2		0		430	430	
6/12/2023	6:21	Cloudy	Surface	1.0	4	4	5	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.011	0.011	0.009	0.024	0.024	0.02	3	3	2	2	3	1200	1200	1250
			Middle																											
	6:25		Bottom	4.0	5	5		0.04	0.04		<0.005	<0.005		0.07	0.07		0.006	0.006		0.021	0.021		2	2		5		1300	1300	
8/12/2023	7:23	Fine	Surface	1.0	3	3	3	0.08	0.08	0.08	<0.005	<0.005	0.01	0.10	0.10	0.10	0.021	0.021	0.018	0.016	0.016	0.02	1	1	1	3	3	9	9	11
			Middle																											
	7:27		Bottom	4.0	3	3		0.07	0.07		0.01	0.01		0.10	0.10		0.014	0.014		0.023	0.023		1	1		3		12	12	
11/12/2023	11:48	Cloudy	Surface	1.0	3	3	3	0.17	0.17	0.11	<0.005	<0.005	0.01	0.21	0.21	0.14	0.055	0.055	0.035	0.033	0.033	0.03	1	1	1	12	8	8	8	9
			Middle																											
	11:52		Bottom	4.0	3	3		0.05	0.05		0.01	0.01		0.08	0.08		0.015	0.015		0.022	0.022		2	2		4		9	9	
13/12/2023	10:42	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.05	0.01	0.01	0.01	0.05	0.05	0.07	0.003	0.003	0.005	0.015	0.015	0.02	3	3	2	3	8	160	160	170
			Middle																											
	10:46		Bottom	4.0	4	4		0.07	0.07		0.01	0.01		0.10	0.10		0.006	0.006		0.025	0.025		2	2		13		180	180	
15/12/2023	12:41	Fine	Surface	1.0	3	3	3	0.15	0.15	0.17	0.01	0.01	0.01	0.21	0.21	0.23	0.011	0.011	0.010	0.062	0.062	0.06	2	2	2	8	7	120	120	135
			Middle																											
	12:45		Bottom	4.2	3	3		0.18	0.18		0.01	0.01		0.25	0.25		0.008	0.008		0.065	0.065		2	2		6		150	150	
18/12/2023	14:07	Cloudy	Surface	1.0	3	3	4	0.08	0.08	0.08	0.01	0.01	0.01	0.12	0.12	0.15	0.003	0.003	0.003	0.028	0.028	0.05	<1	<1	<1	3	4	320	320	315
			Middle																											
	14:11		Bottom	4.0	5	5		0.08	0.08		0.01	0.01		0.17	0.17		0.003	0.003		0.07	0.07		<1	<1		6		310	310	
20/12/2023	7:11	Cloudy	Surface	1.0	3	3	4	0.04	0.04	0.03	0.01	0.01	0.01	0.08	0.08	0.06	0.002	0.002	0.002	0.02	0.02	0.01	1	1	1	3	3	1	1	3
			Middle																											
	7:15		Bottom	4.2	4	4		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.007	0.007		2	2		3		4	4	
22/12/2023	7:06	Cloudy	Surface	1.0	7	7	7	0.09	0.09	0.09	0.01	0.01	0.01	0.11	0.11	0.10	0.004	0.004	0.004	0.011	0.011	0.01	2	2	2	5	6	35	35	38
			Middle																											
	7:10		Bottom	4.2	7	7		0.08	0.08		0.01	0.01		0.10	0.10		0.003	0.003		0.01	0.01		2	2		7		41	41	
26/12/2023	10:33	Cloudy	Surface	1.0	4	4	4	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	0.009	0.009	0.01	1	1	1	3	4	49	49	44
			Middle																											
	10:37		Bottom	4.0	4	4		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.011	0.011		2	2		6		39	39	
28/12/2023	8:38	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	0.01	0.01	0.01	0.05	0.05	0.06	0.001	0.001	0.001	0.013	0.013	0.02	<1	<1	<1	3	2	410	410	445
			Middle																											
	8:42		Bottom	4.1	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.001	0.001		0.017	0.017		<1	<1		1		480	480	
30/12/2023	14:05	Fine	Surface	1.0	4	4	4	0.19	0.19	0.20	<0.005	<0.005	<0.005	0.21	0.21	0.22	0.008	0.008	0.008	0.021	0.021	0.02	2	2	2	1	2	120	120	109
			Middle																											
	14:09		Bottom	4.2	3	3		0.20	0.20		<0.005	<0.005		0.23	0.23		0.007	0.007		0.021	0.021		2	2		3		98	98	
2/1/2024	6:23	Fine	Surface	1.0	5	5	5	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.05	0.002	0.002	0.002	0.015	0.015	0.01	2	2	2	4	5	0	0	5
			Middle																											
	6:27		Bottom	4.1	5	5		0.03	0.03		0.01	0.01		0.05	0.05		0.002	0.002		0.013	0.013		2	2		6		10	10	
4/1/2024	17:23	Fine	Surface	1.0	4	4	4	0.20	0.20	0.25	<0.005	<0.005	0.01	0.23	0.23	0.28	0.009	0.009	0.011	0.026	0.026	0.03	1	1	1	3	4	72	72	70
			Middle																											
	17:27		Bottom	4.1	4	4		0.29	0.29		0.01	0.01		0.33	0.33		0.013	0.013		0.031	0.031		1	1		5		68	68	
6/1/2024	7:58	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.002	0.002	0.002	0.011	0.011	0.01	2	2	1	4	4	90	90	110
			Middle																											
	8:02		Bottom	4.3	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.009	0.009		1	1		5		130	130	
8/1/2024	8:38	Fine	Surface	1.0	5	5	5	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.09	0.09	0.09	0.003	0.003	0.004	0.018	0.018	0.02	2	2	2	3	2	49	49	52
			Middle																											
	8:42		Bottom	4.0	5	5		0.07	0.07		<0.005	<0.005		0.09	0.09		0.004	0.004		0.02	0.02		2	2		2		54	54	
10/1/2024	10:08	Fine	Surface	1.0	4	4	4	0.12	0.12	0.12	0.01	0.01	0.01	0.18	0.18	0.19	0.006	0.006	0.006	0.059	0.059	0.06	2	2	2	5	4	410	410	370
			Middle																											
	10:12		Bottom	4.2	3	3		0.12	0.12		0.01	0.01		0.19	0.19		0.006	0.006		0.059	0.059		2	2		3		330	330	
12/1/2024	13:04	Fine	Surface	1.0	4	4	4	0.10	0.10	0.07	<0.005	<0.005	<0.005	0.18	0.18	0.12	0.004	0.004	0.003	0.077	0.077	0.05	2	2	2	1	2	300	300	285
			Middle																											
	13:08		Bottom	4.3	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.018	0.018		2	2		3		270	270	
15/1/2024	15:35	Fine	Surface	1.0	4	4	4	0.02	0.02	0.08	<0.005	<0.005	0.01	0.04	0.04	0.10	<0.001	<0.001	0.004	0.013	0.013	14.51	2	2	2	3	3	29	29	33
			Middle																											
	15:39		Bottom	4.1	4	4		0.13	0.13		0.01	0.01		0.17	0.17		0.004	0.004		29	29		2	2		3		37	37	
17/1/2024	17:33	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.016	0.016	0.01	2	2	2	1	0	0	0	0
			Middle																											
	17:37		Bottom	4.2	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.006	0.006		2	2		0		0	0	
19/1/2024	7:40	Fine	Surface	1.0	4	4	4	0.04	0.04	0.07	<0.005	<0.005	<0.005	0.07	0.07	0.10	0.002	0.002	0.003	0.03	0.03	0.03	2	2	2	7	6	8	8	9
			Middle																											
	7:44		Bottom	4.2	3	3		0.09	0.09		<0.005	<0.005		0.13	0.13		0.004	0.004		0.03	0.03		2	2		6		9	9	

Water Monitoring Result at CR15 - Corals at Science Park
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average
29/11/2023	5:58	Cloudy	Surface	1.0	4	4	4	0.15	0.15	0.15	<0.005	<0.005	<0.005	0.19	0.19	0.18	0.016	0.016	0.015	0.039	0.039	0.02	3	3	3	0	1	1	1	3
			Middle																											
	6:02		Bottom	4.9	4	4		0.15	0.15		<0.005	<0.005		0.16	0.16		0.013	0.013		0.01	0.01		3	3		1		4	4	
30/11/2023	7:45	Cloudy	Surface	1.0	4	4	4	0.10	0.10	0.16	<0.005	<0.005	<0.005	0.11	0.11	0.18	0.017	0.017	0.015	0.011	0.011	0.01	2	2	2	4	4	23	23	25
			Middle																											
	7:49		Bottom	3.5	4	4		0.21	0.21		<0.005	<0.005		0.24	0.24		0.013	0.013		0.017	0.017		2	2		4		27	27	
1/12/2023	8:46	Fine	Surface	1.0	5	5	6	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.005	0.005	0.006	0.008	0.008	0.01	3	3	2	2	4	770	770	835
			Middle																											
	8:50		Bottom	4.9	6	6		0.04	0.04		<0.005	<0.005		0.06	0.06		0.006	0.006		0.012	0.012		2	2		7		900	900	
4/12/2023	7:53	Fine	Surface	1.0	4	4	4	0.06	0.06	0.06	<0.005	<0.005	<0.005	0.09	0.09	0.09	0.012	0.012	0.011	0.025	0.025	0.03	2	2	2	1	1	4	4	3
			Middle																											
	7:57		Bottom	4.9	4	4		0.06	0.06		<0.005	<0.005		0.09	0.09		0.009	0.009		0.027	0.027		2	2		1		2	2	
6/12/2023	13:13	Cloudy	Surface	1.0	4	4	5	0.02	0.02	0.02	<0.005	<0.005	0.01	0.04	0.04	0.03	0.003	0.003	0.003	0.016	0.016	0.02	2	2	2	4	6	160	160	82
			Middle																											
	13:17		Bottom	4.8	5	5		0.01	0.01		0.01	0.01		0.02	0.02		0.002	0.002		<0.005	<0.005		2	2		9		4	4	
8/12/2023	14:13	Fine	Surface	1.0	3	3	3	0.04	0.04	0.03	0.01	0.01	0.01	0.08	0.08	0.07	0.009	0.009	0.007	0.034	0.034	0.03	1	1	1	4	4	3	3	5
			Middle																											
	14:17		Bottom	4.9	3	3		0.02	0.02		0.01	0.01		0.06	0.06		0.005	0.005		0.035	0.035		1	1		5		7	7	
11/12/2023	6:12	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.006	0.006	0.008	0.009	0.009	0.02	2	2	2	7	5	2	2	3
			Middle																											
	6:16		Bottom	4.9	4	4		0.03	0.03		<0.005	<0.005		0.06	0.06		0.010	0.010		0.025	0.025		2	2		4		3	3	
13/12/2023	6:13	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	0.01	0.04	0.04	0.05	0.001	0.001	0.002	0.022	0.022	0.02	2	2	2	3	4	36	36	32
			Middle																											
	6:17		Bottom	4.9	3	3		0.02	0.02		0.01	0.01		0.05	0.05		0.002	0.002		0.021	0.021		2	2		4		28	28	
15/12/2023	8:21	Fine	Surface	1.0	4	4	4	0.21	0.21	0.17	0.01	0.01	0.01	0.25	0.25	0.21	0.017	0.017	0.011	0.033	0.033	0.03	2	2	2	9	9	2	2	4
			Middle																											
	8:25		Bottom	4.9	4	4		0.12	0.12		0.01	0.01		0.17	0.17		0.004	0.004		0.036	0.036		1	1		8		5	5	
18/12/2023	10:13	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.05	0.01	0.01	0.01	0.07	0.07	0.07	0.002	0.002	0.003	0.023	0.023	0.02	1	1	1	4	6	6	6	7
			Middle																											
	10:17		Bottom	4.9	4	4		0.05	0.05		0.01	0.01		0.08	0.08		0.003	0.003		0.021	0.021		2	2		8		8	8	
20/12/2023	13:32	Cloudy	Surface	1.0	4	4	4	<0.01	<0.01	0.02	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.018	0.018	0.02	1	1	1	6	7	23	23	25
			Middle																											
	13:36		Bottom	4.8	4	4		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		8		27	27	
22/12/2023	13:59	Cloudy	Surface	1.0	6	6	5	0.08	0.08	0.09	0.01	0.01	0.01	0.11	0.11	0.13	0.003	0.003	0.003	0.015	0.015	0.02	2	2	2	10	10	8	8	10
			Middle																											
	14:03		Bottom	4.9	4	4		0.10	0.10		0.01	0.01		0.14	0.14		0.003	0.003		0.03	0.03		2	2		9		11	11	
26/12/2023	5:56	Cloudy	Surface	1.0	4	4	5	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.02	0.02	0.01	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	1	1	1	4	5	35	35	29
			Middle																											
	6:00		Bottom	4.9	5	5		<0.01	<0.01		<0.005	<0.005		0.01	0.01		<0.001	<0.001		<0.005	<0.005		1	1		7		22	22	
28/12/2023	13:10	Fine	Surface	1.0	5	5	5	0.05	0.05	0.05	0.01	0.01	0.01	0.09	0.09	0.08	0.002	0.002	0.002	0.027	0.027	0.03	<1	<1	<1	3	10	40	40	43
			Middle																											
	13:14		Bottom	4.8	5	5		0.04	0.04		<0.005	<0.005		0.07	0.07		0.002	0.002		0.023	0.023		<1	<1		16		45	45	
30/12/2023	9:45	Fine	Surface	1.0	3	3	3	0.15	0.15	0.16	0.01	0.01	0.01	0.18	0.18	0.19	0.007	0.007	0.006	0.022	0.022	0.02	2	2	2	1	3	26	26	28
			Middle																											
	9:49		Bottom	4.9	3	3		0.16	0.16		0.01	0.01		0.19	0.19		0.005	0.005		0.027	0.027		2	2		5		30	30	
2/1/2024	13:57	Fine	Surface	1.0	3	3	3	0.13	0.13	0.10	0.01	0.01	0.01	0.17	0.17	0.14	0.006	0.006	0.005	0.031	0.031	0.03	2	2	2	2	2	1	1	2
			Middle																											
	14:01		Bottom	4.8	3	3		0.07	0.07		0.01	0.01		0.10	0.10		0.003	0.003		0.027	0.027		2	2		3		3	3	
4/1/2024	11:43	Fine	Surface	1.0	3	3	4	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.002	0.002	0.002	0.019	0.019	0.02	2	2	2	3	3	10	10	8
			Middle																											
	11:47		Bottom	4.9	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.016	0.016		2	2		4		6	6	
6/1/2024	14:27	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	4	3	200	200	215
			Middle																											
	14:31		Bottom	4.9	3	3		0.03	0.03		0.01	0.01		0.05	0.05		<0.001	<0.001		0.014	0.014		2	2		3		230	230	
8/1/2024	14:02	Fine	Surface	1.0	3	3	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.007	0.007	0.01	2	2	2	2	3	3	3	2
			Middle																											
	14:06		Bottom	4.8	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.013	0.013		2	2		3		0	0	
10/1/2024	14:48	Fine	Surface	1.0	3	3	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.06	0.001	0.001	0.001	0.016	0.016	0.03	3	3	3	2	3	2	2	2
			Middle																											
	14:52		Bottom	4.9	4	4		0.03	0.03		<0.005	<0.005		0.08	0.08		0.001	0.001		0.051	0.051		2	2		3		1	1	
12/1/2024	19:07	Fine	Surface	1.0	3	3	3	0.06	0.06	0.05	0.01	0.01	0.01	0.09	0.09	0.07	0.003	0.003	0.002	0.024	0.024	0.02	2	2	2	2	3	11	11	15
			Middle																											
	19:11		Bottom	4.8	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.001	0.001		0.017	0.017		2	2		4		18	18	
15/1/2024	10:20	Fine	Surface	1.0	3	3	4	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.04	<0.001	<0.001	<0.001	0.015	0.015	0.02	2	2	2	5	4	82	82	65
			Middle																											
	10:24		Bottom	4.8	4	4		0.01	0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.028	0.028		2	2		4		48	48	
17/1/2024	11:51	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.011	0.011	0.01	2	2	2	3	4	4	4	7
			Middle																											
	11:55		Bottom	4.9	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.017	0.017		2	2		4		10	10	
19/1/2024	13:27	Fine	Surface	1.0	3	3	4	0.08	0.08	0.08	0.01	0.01	0.01	0.13	0.13	0.14	0.005	0.005	0.004	0.045	0.045	0.06	1	1	1	5	6	3	3	4
			Middle																											
	13:31		Bottom	4.9	4	4		0.07	0.07		0.01	0.01		0.14	0.14		0.003	0.003		0.068	0.068		<1	<1		7		5	5	

Water Monitoring Result at CR15 - Corals at Science Park
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	11:57	Cloudy	Surface	1.0	4	4	4	0.14	0.14	0.15	<0.005	<0.005	<0.005	0.18	0.18	0.19	0.022	0.022	0.015	0.035	0.035	0.04	2	2	2	0	1	6	6	7
			Middle																											
	12:01		Bottom	4.8	4	4		0.15	0.15		<0.005	<0.005		0.19	0.19		0.008	0.008		0.038	0.038		2	2		1		7	7	
30/11/2023	13:23	Cloudy	Surface	1.0	4	4	5	0.13	0.13	0.13	<0.005	<0.005	<0.005	0.16	0.16	0.16	0.023	0.023	0.016	0.024	0.024	0.02	3	3	3	2	3	36	36	53
			Middle																											
	13:27		Bottom	4.8	5	5		0.13	0.13		<0.005	<0.005		0.16	0.16		0.008	0.008		0.024	0.024		3	3		4		70	70	
1/12/2023	15:38	Fine	Surface	1.0	5	5	5	0.04	0.04	0.06	<0.005	<0.005	<0.005	0.05	0.05	0.07	0.007	0.007	0.010	0.011	0.011	0.01	3	3	3	2	3	110	110	102
			Middle																											
	15:42		Bottom	4.7	4	4		0.07	0.07		<0.005	<0.005		0.09	0.09		0.013	0.013		0.013	0.013		4	4		5		94	94	
4/12/2023	16:13	Fine	Surface	1.0	3	3	4	0.08	0.08	0.07	<0.005	<0.005	<0.005	0.11	0.11	0.09	0.014	0.014	0.012	0.025	0.025	0.02	2	2	2	0	0	17	17	14
			Middle																											
	16:17		Bottom	4.6	4	4		0.05	0.05		<0.005	<0.005		0.07	0.07		0.009	0.009		0.017	0.017		2	2		1		10	10	
6/12/2023	6:41	Cloudy	Surface	1.0	4	4	5	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.004	0.004	0.005	0.012	0.012	0.01	3	3	2	5	5	150	150	79
			Middle																											
	6:45		Bottom	4.7	5	5		0.03	0.03		<0.005	<0.005		0.03	0.03		0.005	0.005		<0.005	<0.005		2	2		5		8	8	
8/12/2023	7:42	Fine	Surface	1.0	4	4	4	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.02	0.02	0.03	0.002	0.002	0.003	<0.005	<0.005	0.02	1	1	1	3	3	1	1	5
			Middle																											
	7:46		Bottom	4.8	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.004	0.004		0.023	0.023		1	1		3		8	8	
11/12/2023	11:28	Cloudy	Surface	1.0	5	5	5	0.08	0.08	0.11	<0.005	<0.005	<0.005	0.10	0.10	0.12	0.025	0.025	0.030	0.015	0.015	0.01	2	2	2	2	3	5	5	4
			Middle																											
	11:32		Bottom	4.7	4	4		0.13	0.13		<0.005	<0.005		0.14	0.14		0.035	0.035		0.012	0.012		2	2		3		3	3	
13/12/2023	11:02	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.04	0.001	0.001	0.001	0.013	0.013	0.01	2	2	2	3	4	29	29	27
			Middle																											
	11:06		Bottom	4.5	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.016	0.016		2	2		5		24	24	
15/12/2023	13:14	Fine	Surface	1.0	5	5	5	0.25	0.25	0.22	0.01	0.01	0.01	0.29	0.29	0.25	0.023	0.023	0.016	0.038	0.038	0.03	2	2	2	6	5	18	18	19
			Middle																											
	13:18		Bottom	4.6	4	4		0.18	0.18		0.01	0.01		0.21	0.21		0.008	0.008		0.03	0.03		2	2		5		20	20	
18/12/2023	14:27	Cloudy	Surface	1.0	6	6	6	0.05	0.05	0.04	0.01	0.01	0.01	0.08	0.08	0.07	0.003	0.003	0.003	0.027	0.027	0.02	<1	<1	1	6	8	4	4	5
			Middle																											
	14:31		Bottom	4.7	5	5		0.03	0.03		0.01	0.01		0.05	0.05		0.002	0.002		0.014	0.014		1	1		10		6	6	
20/12/2023	7:31	Cloudy	Surface	1.0	5	5	5	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.002	0.002	0.002	0.011	0.011	0.01	1	1	1	4	4	17	17	19
			Middle																											
	7:35		Bottom	4.8	4	4		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.011	0.011		1	1		3		20	20	
22/12/2023	7:40	Cloudy	Surface	1.0	5	5	5	0.09	0.09	0.11	0.01	0.01	0.01	0.11	0.11	0.13	0.004	0.004	0.004	0.014	0.014	0.02	2	2	2	5	5	6	6	7
			Middle																											
	7:44		Bottom	4.9	5	5		0.12	0.12		0.01	0.01		0.14	0.14		0.004	0.004		0.02	0.02		2	2		6		8	8	
26/12/2023	10:56	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.02	<0.005	<0.005	0.01	0.02	0.02	0.03	<0.001	<0.001	0.001	<0.005	<0.005	<0.005	2	2	2	6	6	38	38	33
			Middle																											
	11:00		Bottom	4.8	3	3		0.03	0.03		0.01	0.01		0.04	0.04		0.001	0.001		<0.005	<0.005		2	2		6		28	28	
28/12/2023	8:58	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	0.01	0.01	0.01	0.05	0.05	0.05	<0.001	<0.001	<0.001	0.017	0.017	0.02	<1	<1	<1	2	2	52	52	46
			Middle																											
	9:02		Bottom	4.9	3	3		0.03	0.03		0.01	0.01		0.05	0.05		<0.001	<0.001		0.019	0.019		<1	<1		1		39	39	
30/12/2023	14:27	Fine	Surface	1.0	3	3	3	0.15	0.15	0.15	0.01	0.01	0.01	0.19	0.19	0.18	0.007	0.007	0.007	0.027	0.027	0.02	2	2	2	3	3	44	44	36
			Middle																											
	14:31		Bottom	4.9	3	3		0.14	0.14		<0.005	<0.005		0.16	0.16		0.006	0.006		0.014	0.014		2	2		2		27	27	
2/1/2024	6:43	Fine	Surface	1.0	3	3	3	0.09	0.09	0.08	0.01	0.01	0.01	0.11	0.11	0.10	0.005	0.005	0.005	0.015	0.015	0.02	2	2	2	3	3	8	8	5
			Middle																											
	6:47		Bottom	4.7	3	3		0.07	0.07		0.01	0.01		0.09	0.09		0.004	0.004		0.015	0.015		1	1		4		1	1	
4/1/2024	17:43	Fine	Surface	1.0	3	3	4	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.001	0.001	0.001	0.014	0.014	0.01	2	2	2	3	4	11	11	6
			Middle																											
	17:47		Bottom	4.8	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.013	0.013		2	2		5		1	1	
6/1/2024	8:18	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.06	0.06	0.05	0.002	0.002	0.002	0.02	0.02	0.02	1	1	1	3	4	150	150	130
			Middle																											
	8:22		Bottom	4.9	3	3		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.01	0.01		1	1		5		110	110	
8/1/2024	8:58	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.01	0.01	0.01	2	2	2	3	2	8	8	6
			Middle																											
	9:02		Bottom	4.9	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.001	0.001		<0.005	<0.005		2	2		1		3	3	
10/1/2024	10:28	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.03	0.001	0.001	0.001	0.008	0.008	0.01	2	2	2	2	1	1	1	4
			Middle																											
	10:32		Bottom	4.8	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.001	0.001		<0.005	<0.005		2	2		1		7	7	
12/1/2024	13:24	Fine	Surface	1.0	3	3	3	0.07	0.07	0.05	<0.005	<0.005	<0.005	0.15	0.15	0.10	0.004	0.004	0.003	0.071	0.071	0.04	2	2	2	3	3	15	15	13
			Middle																											
	13:28		Bottom	4.9	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.013	0.013		2	2		2		10	10	
15/1/2024	15:55	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	3	3	39	39	51
			Middle																											
	15:59		Bottom	4.9	4	4		0.03	0.03		<0.005	<0.005		0..043	0..043		<0.001	<0.001		0.014	0.014		2	2		4		62	62	
17/1/2024	17:53	Cloudy	Surface	1.0	3	3	4	0.02	0.02	0.05	<0.005	<0.005	<0.005	0.04	0.04	0.06	0.001	0.001	0.003	0.011	0.011	0.01	2	2	2	0	0	11	11	9
			Middle																											
	17:57		Bottom	4.8	4	4		0.08	0.08		<0.005	<0.005		0.09	0.09		0.004	0.004		0.007	0.007		2	2		0		6	6	
19/1/2024	8:00	Fine	Surface	1.0	3	3	3	0.02	0.02	0.05	<0.005	<0.005	<0.005	0.05	0.05	0.08	0.002	0.002	0.003	0.023	0.023	0.02	2	2	2	6	5	1	1	2
			Middle																											
	8:04		Bottom	4.8	3	3		0.07	0.07		<0.005	<0.005		0.10	0.10		0.003	0.003		0.021	0.021		2	2		4		3	3	

Water Monitoring Result at CR16 - Corals at Sha Tin Hoi North
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	6:22	Cloudy	Surface	1.0	5	5	5	0.14	0.14	0.13	<0.005	<0.005	0.01	0.19	0.19	0.17	0.021	0.021	0.020	0.049	0.049	0.04	2	2	3	1	1	120	120	110
	6:24		Middle	3.5	6	6		0.13	0.13		<0.005	<0.005		0.18	0.18		0.025	0.025		0.040	0.040		3	3		1		110	110	
	6:26		Bottom	6.0	5	5		0.12	0.12		0.013	0.013		0.13	0.13		0.014	0.014		<0.005	<0.005		3	3		1		100	100	
30/11/2023	8:06	Cloudy	Surface	1.0	4	4	4	0.12	0.12	0.14	0.01	0.01	0.01	0.26	0.26	0.28	0.026	0.026	0.019	0.121	0.121	0.12	2	2	2	4	4	36	36	37
	8:08		Middle	3.0	5	5		0.17	0.17		0.01	0.01		0.30	0.30		0.023	0.023		0.122	0.122		2	2		4		33	33	
	8:10		Bottom	6.0	4	4		0.14	0.14		0.01	0.01		0.28	0.28		0.009	0.009		0.123	0.123		2	2		3		42	42	
1/12/2023	9:10	Fine	Surface	1.0	7	7	6	0.04	0.04	0.04	0.01	0.01	0.01	0.08	0.08	0.09	0.007	0.007	0.006	0.039	0.039	0.04	3	3	3	1	2	350	350	340
	9:12		Middle	3.0	5	5		0.04	0.04		0.01	0.01		0.08	0.08		0.006	0.006		0.04	0.04		3	3		1		400	400	
	9:14		Bottom	6.0	6	6		0.04	0.04		0.01	0.01		0.09	0.09		0.005	0.005		0.038	0.038		3	3		3		270	270	
4/12/2023	8:16	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	0.01	0.07	0.07	0.07	0.006	0.006	0.005	0.02	0.02	0.02	2	2	2	1	1	0	0	0
	8:18		Middle	3.5	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.004	0.004		0.02	0.02		2	2		1		0	0	
	8:20		Bottom	6.0	4	4		0.05	0.05		0.01	0.01		0.08	0.08		0.004	0.004		0.02	0.02		2	2		2		0	0	
6/12/2023	13:33	Cloudy	Surface	1.0	6	6	6	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.02	0.003	0.003	0.003	0.009	0.009	0.01	2	2	2	4	4	14	14	12
	13:35		Middle	3.4	6	6		0.01	0.01		<0.005	<0.005		0.02	0.02		0.002	0.002		<0.005	<0.005		2	2		4		13	13	
	13:37		Bottom	5.8	6	6		0.01	0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		<0.005	<0.005		2	2		4		8	8	
8/12/2023	14:33	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.004	0.004	0.004	0.015	0.015	0.01	2	2	2	2	3	6	6	3
	14:35		Middle	3.5	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.004	0.004		0.008	0.008		2	2		4		2	2	
	14:37		Bottom	6.0	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.003	0.003		0.01	0.01		2	2		4		2	2	
11/12/2023	6:32	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.08	<0.005	<0.005	0.01	0.02	0.02	0.10	0.002	0.002	0.013	0.005	0.005	0.01	2	2	2	3	3	0	0	0
	6:34		Middle	3.5	4	4		0.12	0.12		<0.005	<0.005		0.15	0.15		0.021	0.021		0.02	0.02		2	2		4		0	0	
	6:36		Bottom	6.0	3	3		0.10	0.10		0.01	0.01		0.13	0.13		0.016	0.016		0.019	0.019		2	2		4		1	1	
13/12/2023	6:34	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.04	0.01	0.01	0.01	0.06	0.06	0.07	0.003	0.003	0.003	0.021	0.021	0.02	2	2	2	6	8	100	100	78
	6:36		Middle	3.5	5	5		0.04	0.04		0.01	0.01		0.06	0.06		0.003	0.003		0.018	0.018		2	2		14		69	69	
	6:38		Bottom	6.0	4	4		0.06	0.06		0.01	0.01		0.09	0.09		0.002	0.002		0.024	0.024		2	2		3		66	66	
15/12/2023	9:07	Fine	Surface	1.0	4	4	4	0.22	0.22	0.19	<0.005	<0.005	0.01	0.25	0.25	0.21	0.019	0.019	0.012	0.025	0.025	0.02	2	2	2	2	7	3	3	4
	9:09		Middle	3.5	4	4		0.23	0.23		0.01	0.01		0.26	0.26		0.013	0.013		0.03	0.03		2	2		8		3	3	
	9:11		Bottom	6.0	4	4		0.11	0.11		<0.005	<0.005		0.12	0.12		0.003	0.003		0.014	0.014		2	2		10		6	6	
18/12/2023	10:33	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.002	0.002	0.002	0.024	0.024	0.02	2	2	2	8	7	1	1	2
	10:35		Middle	3.5	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.003	0.003		0.012	0.012		2	2		7		2	2	
	10:37		Bottom	6.0	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.013	0.013		2	2		6		2	2	
20/12/2023	13:53	Cloudy	Surface	1.0	4	4	4	0.06	0.06	0.04	0.01	0.01	0.01	0.07	0.07	0.06	0.003	0.003	0.002	0.006	0.006	0.01	1	1	1	2	4	22	22	17
	13:55		Middle	3.6	4	4		0.02	0.02		0.01	0.01		0.05	0.05		<0.001	<0.001		0.015	0.015		1	1		4		16	16	
	13:57		Bottom	6.1	4	4		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.014	0.014		2	2		7		12	12	
22/12/2023	14:24	Cloudy	Surface	1.0	6	6	6	0.08	0.08	0.09	0.01	0.01	0.01	0.10	0.10	0.12	0.003	0.003	0.003	0.014	0.014	0.02	2	2	2	6	8	6	6	7
	14:26		Middle	3.5	6	6		0.09	0.09		<0.005	<0.005		0.12	0.12		0.003	0.003		0.029	0.029		2	2		8		7	7	
	14:28		Bottom	6.0	5	5		0.11	0.11		0.01	0.01		0.14	0.14		0.004	0.004		0.021	0.021		2	2		10		8	8	
26/12/2023	6:19	Cloudy	Surface	1.0	4	4	4	0.08	0.08	0.06	<0.005	<0.005	<0.005	0.09	0.09	0.05	0.003	0.003	0.002	<0.005	<0.005	<0.005	1	1	1	2	2	36	36	32
	6:21		Middle	3.5	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.001	0.001		<0.005	<0.005		1	1		2		32	32	
	6:23		Bottom	6.0	4	4		<0.01	<0.01		<0.005	<0.005		0.01	0.01		<0.001	<0.001		<0.005	<0.005		1	1		3		29	29	
28/12/2023	13:31	Fine	Surface	1.0	3	3	3	0.06	0.06	0.05	0.01	0.01	0.01	0.09	0.09	0.07	0.002	0.002	0.002	0.026	0.026	0.02	<1	<1	<1	2	2	2	2	1
	13:33		Middle	3.5	3	3		0.05	0.05		0.01	0.01		0.08	0.08		0.002	0.002		0.022	0.022		<1	<1		2		1	1	
	13:35		Bottom	6.1	4	4		0.03	0.03		0.01	0.01		0.04	0.04		<0.001	<0.001		0.011	0.011		<1	<1		3		1	1	
30/12/2023	10:05	Fine	Surface	1.0	3	3	3	0.13	0.13	0.13	0.01	0.01	0.01	0.16	0.16	0.17	0.006	0.006	0.006	0.018	0.018	0.02	2	2	2	0	1	26	26	29
	10:07		Middle	3.5	3	3		0.15	0.15		0.01	0.01		0.19	0.19		0.007	0.007		0.027	0.027		2	2		2		28	28	
	10:09		Bottom	5.9	3	3		0.12	0.12		0.01	0.01		0.15	0.15		0.005	0.005		0.022	0.022		2	2		2		33	33	
2/1/2024	14:18	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.05	0.05	0.05	<0.001	<0.001	0.001	0.018	0.018	0.02	2	2	2	2	3	160	160	153
	14:20		Middle	3.6	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.018	0.018		2	2		5		150	150	
	14:22		Bottom	6.2	3	3		0.02	0.02		0.01	0.01		0.05	0.05		0.001	0.001		0.022	0.022		2	2		2		150	150	
4/1/2024	12:03	Fine	Surface	1.0	4	4	4	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	4	6	10	10	7
	12:05		Middle	3.5	5	5		0.02	0.02		<0.005	<0.005		0.03	0.03		0.001	0.001		0.008	0.008		2	2		7		4	4	
	12:07		Bottom	6.0	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.016	0.016		2	2		6		7	7	
6/1/2024	14:47	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.015	0.015	0.02	1	1	1	5	4	110	110	120
	14:49		Middle	3.4	3	3		0.03	0.03		0.01	0.01		0.06	0.06		0.002	0.002		0.018	0.018		2	2		4		130	130	
	14:51		Bottom	5.8	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		<0.001	<0.001		0.013	0.013		1	1		4		120	120	
8/1/2024	14:22	Fine	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	0.01	0.04	0.04	0.04	0.001	0.001	0.001	0.014	0.014	0.01	2	2	2	3	4	3	3	3
	14:24		Middle	3.5	4	4		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		0.009	0.009		2	2		4		3	3	
	14:26		Bottom	6.0	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.012	0.012		2	2		4		3	3	
10/1/2024	15:08	Fine	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.013	0.013	0.01	2	2	2	1	2	0	0	0
	15:10		Middle	3.5	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.019	0.019		1	1		2		0	0	
	15:12		Bottom	6.1	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.007	0.007		2	2		2		0	0	
12/1/2024	19:27	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	0.01	0.07	0.07	0.07	0.002	0.002	0.002	0.02	0.02	0.02	2	2	2	3	2	15	15	15
	19:29		Middle	3.5	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.02	0.02		2	2		2		11	11	
	19:31		Bottom	6.0	3	3		0.05	0.05		0.01	0.01		0.08	0.08		0.002	0.002		0.023	0.023		2	2		2		20	20	
15/1/2024	10:40	Fine	Surface	1.0	4	4	4	<0.01	<0.01	0.01	<0.005	<0.005	<0.005	0.02	0.02	0.03	<0.001	<0.001	<0.001	0.009	0.009	0.01	2	2	2	3	3	17	17	29
	10:42		Middle	3.6	5	5		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.012	0.012		2	2		4		52	52	
	10:44		Bottom	6.2	4	4		0.01	0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.02	0.02		2	2		3		18	18	
17/1/2024	11:41	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.011	0.011	0.01	2	2	2	4	3	9	9	10
	11:43		Middle	3.6	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		2		12	12	
	11:45		Bottom	6.2	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.009	0.009		2	2		3		9	9	
19/1/2024	13:47	Fine	Surface	1.0	3	3	3	0.05	0.05	0.04	0.01	0.01	0.01	0.12	0.12	0.08	0.003	0.003	0.002	0.061	0.061	0.03	1	1	1	5	5	21	21	14
	13:49		Middle	3.5	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.014	0.014		1	1		6		18	18	
	13:51		Bottom	6.0	3	3		0.04	0.04		<0.005	<0.005		0.07	0.07		0.001	0.001		0.028	0.028		1	1		5		2	2	

Water Monitoring Result at CR16 - Corals at Sha Tin Hoi North
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	12:19	Cloudy	Surface	1.0	4	4	4	0.11	0.11	0.11	<0.005	<0.005	<0.005	0.12	0.12	0.12	0.036	0.036	0.027	0.013	0.013	0.01	2	2	2	1	2	110	110	110
	12:21		Middle	3.4	3	3		0.10	0.10		<0.005	<0.005		0.12	0.12		0.021	0.021		0.013	0.013		2	2		2		100	100	
	12:23		Bottom	5.8	4	4		0.11	0.11		<0.005	<0.005		0.13	0.13		0.023	0.023		0.009	0.009		2	2		2		120	120	
30/11/2023	13:01	Cloudy	Surface	1.0	4	4	4	0.20	0.20	0.22	0.01	0.01	0.02	0.36	0.36	0.35	0.043	0.043	0.030	0.143	0.143	0.14	3	3	3	4	5	65	65	57
	13:03		Middle	3.5	4	4		.0.13	.0.13		0.02	0.02		0.28	0.28		0.026	0.026		0.129	0.129		3	3		6		50	50	
	13:05		Bottom	5.9	4	4		0.23	0.23		0.01	0.01		0.40	0.40		0.020	0.020		0.156	0.156		2	2		4		56	56	
1/12/2023	15:15	Fine	Surface	1.0	5	5	4	0.04	0.04	0.04	0.01	0.01	0.01	0.09	0.09	0.09	0.008	0.008	0.007	0.039	0.039	0.04	4	4	4	8	8	680	680	673
	15:17		Middle	3.4	4	4		0.05	0.05		0.01	0.01		0.09	0.09		0.008	0.008		0.036	0.036		4	4		8		540	540	
	15:19		Bottom	5.8	4	4		0.04	0.04		0.01	0.01		0.08	0.08		0.005	0.005		0.037	0.037		4	4		9		800	800	
4/12/2023	16:35	Fine	Surface	1.0	4	4	3	0.02	0.02	0.04	<0.005	<0.005	<0.005	0.03	0.03	0.05	0.003	0.003	0.004	0.009	0.009	0.01	2	2	2	0	0	0	0	0
	16:37		Middle	3.5	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.006	0.006		0.012	0.012		2	2		0		0	0	
	16:39		Bottom	6.0	3	3		0.05	0.05		<0.005	<0.005		0.07	0.07		0.004	0.004		0.013	0.013		2	2		0		1	1	
6/12/2023	7:00	Cloudy	Surface	1.0	5	5	5	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.006	0.006	0.004	0.01	0.01	0.01	2	2	2	3	3	14	14	16
	7:02		Middle	3.5	5	5		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		<0.005	<0.005		2	2		3		17	17	
	7:04		Bottom	6.0	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.004	0.004		0.009	0.009		2	2		4		17	17	
8/12/2023	8:02	Fine	Surface	1.0	4	4	3	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.002	0.002	0.002	0.011	0.011	0.01	1	1	1	4	5	2	2	2
	8:04		Middle	3.4	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.003	0.003		0.006	0.006		1	1		5		2	2	
	8:06		Bottom	5.8	3	3		0.01	0.01		<0.005	<0.005		0.04	0.04		0.001	0.001		0.023	0.023		2	2		6		3	3	
11/12/2023	11:06	Cloudy	Surface	1.0	4	4	4	0.09	0.09	0.07	<0.005	<0.005	<0.005	0.11	0.11	0.09	0.018	0.018	0.013	0.014	0.014	0.01	2	2	2	4	4	0	0	0
	11:08		Middle	3.4	5	5		0.08	0.08		<0.005	<0.005		0.09	0.09		0.013	0.013		0.013	0.013		1	1		6		0	0	
	11:10		Bottom	5.8	4	4		0.05	0.05		<0.005	<0.005		0.07	0.07		0.007	0.007		0.015	0.015		2	2		3		0	0	
13/12/2023	11:22	Cloudy	Surface	1.0	3	3	4	0.03	0.03	0.05	<0.005	<0.005	0.01	0.05	0.05	0.04	0.003	0.003	0.002	0.01	0.01	0.02	3	3	3	5	3	46	46	55
	11:24		Middle	3.4	4	4		0.01	0.01		0.01	0.01		0.04	0.04		0.001	0.001		0.016	0.016		3	3		2		61	61	
	11:26		Bottom	5.8	4	4		0.10	0.10		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.028	0.028		3	3		1		57	57	
15/12/2023	13:52	Fine	Surface	1.0	3	3	3	0.17	0.17	0.19	0.01	0.01	0.01	0.20	0.20	0.22	0.014	0.014	0.011	0.028	0.028	0.03	2	2	2	6	6	8	8	10
	13:54		Middle	3.3	3	3		0.20	0.20		<0.005	<0.005		0.23	0.23		0.011	0.011		0.027	0.027		2	2		7		10	10	
	13:56		Bottom	5.6	4	4		0.19	0.19		0.01	0.01		0.23	0.23		0.008	0.008		0.036	0.036		2	2		6		12	12	
18/12/2023	14:50	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.06	0.002	0.002	0.002	0.007	0.007	0.01	1	1	1	20	15	3	3	1
	14:52		Middle	3.4	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.004	0.004		0.019	0.019		1	1		18		0	0	
	14:54		Bottom	5.8	6	6		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		7		1	1	
20/12/2023	7:52	Cloudy	Surface	1.0	4	4	4	0.07	0.07	0.04	0.01	0.01	0.01	0.09	0.09	0.06	0.003	0.003	0.003	0.014	0.014	0.02	1	1	1	5	5	34	34	23
	7:54		Middle	3.5	4	4		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.019	0.019		1	1		5		15	15	
	7:46		Bottom	6.0	5	5		0.02	0.02		0.01	0.01		0.05	0.05		<0.001	<0.001		0.027	0.027		1	1		7		19	19	
22/12/2023	8:11	Cloudy	Surface	1.0	6	6	5	0.10	0.10	0.10	0.01	0.01	0.01	0.12	0.12	0.13	0.003	0.003	0.003	0.016	0.016	0.02	2	2	2	6	6	8	8	8
	8:13		Middle	3.5	5	5		0.09	0.09		0.01	0.01		0.12	0.12		0.003	0.003		0.015	0.015		2	2		6		9	9	
	8:15		Bottom	6.0	5	5		0.10	0.10		0.01	0.01		0.14	0.14		0.003	0.003		0.029	0.029		2	2		7		7	7	
26/12/2023	11:23	Cloudy	Surface	1.0	3	3	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.03	0.001	0.001	0.001	<0.005	<0.005	<0.005	1	1	1	4	8	28	28	31
	11:25		Middle	3.4	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		<0.005	<0.005		2	2		5		31	31	
	11:27		Bottom	5.8	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		<0.001	<0.001		<0.005	<0.005		2	2		14		35	35	
28/12/2023	9:18	Fine	Surface	1.0	3	3	3	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.002	0.002	0.002	0.02	0.02	0.01	<1	<1	<1	3	3	0	0	1
	9:20		Middle	3.5	4	4		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.014	0.014		<1	<1		2		0	0	
	9:22		Bottom	5.9	3	3		0.03	0.03		0.01	0.01		0.05	0.05		<0.001	<0.001		0.009	0.009		<1	<1		4		2	2	
30/12/2023	14:47	Fine	Surface	1.0	3	3	3	0.15	0.15	0.12	<0.005	<0.005	<0.005	0.17	0.17	0.14	0.008	0.008	0.005	0.014	0.014	0.01	2	2	2	3	4	34	34	35
	14:49		Middle	3.4	3	3		0.13	0.13		<0.005	<0.005		0.15	0.15		0.005	0.005		0.015	0.015		2	2		2		30	30	
	14:51		Bottom	5.8	3	3		0.09	0.09		<0.005	<0.005		0.11	0.11		0.003	0.003		0.014	0.014		2	2		8		42	42	
2/1/2024	7:03	Fine	Surface	1.0	3	3	3	0.05	0.05	0.04	0.01	0.01	0.01	0.07	0.07	0.06	0.002	0.002	0.002	0.009	0.009	0.01	2	2	2	3	3	0	0	30
	7:05		Middle	3.5	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.01	0.01		2	2		4		88	88	
	7:07		Bottom	6.0	3	3		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.016	0.016		2	2		2		1	1	
4/1/2024	16:03	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.001	0.001	0.002	0.013	0.013	0.02	2	2	2	4	5	0	0	4
	16:05		Middle	3.4	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.016	0.016		2	2		4		3	3	
	16:07		Bottom	5.8	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.023	0.023		2	2		8		10	10	
6/1/2024	8:38	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.013	0.013	0.02	1	1	1	3	3	12	12	87
	8:40		Middle	3.5	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.016	0.016		2	2		3		110	110	
	8:42		Bottom	5.9	3	3		0.03	0.03		0.01	0.01		0.05	0.05		<0.001	<0.001		0.017	0.017		1	1		3		140	140	
8/1/2024	9:18	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.011	0.011	0.02	2	2	2	3	3	5	5	4
	9:20		Middle	3.5	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.002	0.002		0.016	0.016		2	2		3		5	5	
	9:22		Bottom	6.0	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.018	0.018		2	2		4		1	1	
10/1/2024	10:48	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.001	0.001	0.002	0.006	0.006	0.01	2	2	2	1	2	1	1	0
	10:50		Middle	3.5	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		<0.005	<0.005		2	2		2		0	0	
	10:52		Bottom	6.0	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.002	0.002		0.006	0.006		2	2		2		0	0	
12/1/2024	13:45	Fine	Surface	1.0	3	3	3	0.12	0.12	0.07	<0.005	<0.005	<0.005	0.25	0.25	0.13	0.007	0.007	0.004	0.123	0.123	0.06	2	2	2	2	2	0	0	1
	13:47		Middle	3.5	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.014	0.014		2	2		2		0	0	
	13:49		Bottom	5.9	3	3		0.06	0.06		<0.005	<0.005		0.09	0.09		0.002	0.002		0.032	0.032		2	2		3		2	2	
15/1/2024	16:15	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.002	0.002	0.002	0.011	0.011	0.02	2	2	2	3	3	3	3	20
	16:17		Middle	3.4	4	4		0.01	0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.016	0.016		2	2		3		46	46	
	16:19		Bottom	5.8	4	4		0.04	0.04		<0.005	<0.005		0.07	0.07		0.001	0.001		0.021	0.021		2	2		3		10	10	
17/1/2024	18:13	Cloudy	Surface	1.0	3	3	4	0.06	0.06	0.08	<0.005	<0.005	<0.005	0.07	0.07	0.10	0.004	0.004	0.005	0.012	0.012	0.01	2	2	2	3	4	10	10	11
	18:15		Middle	3.5	4	4		0.10	0.10		<0.005	<0.005		0.12	0.12		0.006	0.006		0.014	0.014		2	2		4		10	10	
	18:17		Bottom	5.9	4	4		0.08	0.08		<0.005	<0.005		0.10	0.10		0.004	0.004		0.012	0.012		2	2		7		13	13	
19/1/2024	8:20	Fine	Surface	1.0	3	3	3	0.06	0.06	0.05	<0.005	<0.005	0.01	0.08	0.08	0.08	0.004	0.004	0.003	0.018	0.018	0.02	2	2	2	4	5	0	0	3
	8:22		Middle	3.5	3	3		0.05	0.05		0.01	0.01		0.09	0.09		0.003	0.003		0.034	0.034		2	2		5		5	5	
	8:24		Bottom	6.0	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.001	0.001		0.018	0.018		2	2		5		3	3	

Water Monitoring Result at CR17 - Corals at Sha Tin Hoi South
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	6:34	Cloudy	Surface	1.0	5	5	6	0.15	0.15	0.15	0.013	0.013	0.01	0.27	0.27	0.27	0.025	0.025	0.025	0.11	0.11	0.11	2	2	2	3	2	200	200	185
			Middle																											
	6:38		Bottom	4.3	7	7		0.14	0.14		0.013	0.013		0.26	0.26		0.024	0.024		0.11	0.11		2	2		1		170	170	
30/11/2023	8:19	Cloudy	Surface	1.0	4	4	4	0.18	0.18	0.18	0.02	0.02	0.02	0.41	0.41	0.40	0.032	0.032	0.031	0.205	0.205	0.20	2	2	2	3	4	200	200	113
			Middle																											
	8:23		Bottom	4.4	4	4		0.17	0.17		0.02	0.02		0.38	0.38		0.030	0.030		0.191	0.191		2	2		5		25	25	
1/12/2023	9:22	Fine	Surface	1.0	7	7	7	0.05	0.05	0.05	0.01	0.01	0.01	0.10	0.10	0.09	0.006	0.006	0.006	0.04	0.04	0.04	3	3	3	3	2	230	230	325
			Middle																											
	9:26		Bottom	4.3	6	6		0.04	0.04		0.01	0.01		0.08	0.08		0.005	0.005		0.04	0.04		3	3		1		420	420	
4/12/2023	8:28	Fine	Surface	1.0	4	4	5	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.004	0.004	0.003	0.016	0.016	0.02	3	3	3	1	1	1	1	2
			Middle																											
	8:34		Bottom	4.3	5	5		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.018	0.018		3	3		0		2	2	
6/12/2023	13:45	Cloudy	Surface	1.0	6	6	6	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.005	0.005	0.004	0.013	0.013	0.01	3	3	3	5	12	65	65	56
			Middle																											
	13:49		Bottom	4.4	5	5		0.02	0.02		<0.005	<0.005		0.04	0.04		0.003	0.003		0.011	0.011		2	2		18		47	47	
8/12/2023	14:45	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.004	0.004	0.003	0.01	0.01	0.01	1	1	1	2	3	3	3	2
			Middle																											
	14:49		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		0.008	0.008		1	1		3		1	1	
11/12/2023	6:44	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.07	<0.005	<0.005	<0.005	0.02	0.02	0.08	0.002	0.002	0.010	0.006	0.006	0.01	<1	<1	2	7	5	0	0	1
			Middle																											
	6:48		Bottom	4.3	3	3		0.12	0.12		<0.005	<0.005		0.14	0.14		0.018	0.018		0.017	0.017		2	2		4		1	1	
13/12/2023	6:46	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.05	<0.005	<0.005	0.01	0.06	0.06	0.07	0.004	0.004	0.005	0.012	0.012	0.02	2	2	2	14	9	100	100	100
			Middle																											
	6:50		Bottom	4.3	4	4		0.06	0.06		0.01	0.01		0.09	0.09		0.005	0.005		0.021	0.021		2	2		4		100	100	
15/12/2023	9:26	Fine	Surface	1.0	4	4	4	0.21	0.21	0.18	0.01	0.01	0.01	0.24	0.24	0.21	0.018	0.018	0.012	0.026	0.026	0.02	2	2	2	10	7	7	7	9
			Middle																											
	9:30		Bottom	4.3	4	4		0.15	0.15		<0.005	<0.005		0.17	0.17		0.005	0.005		0.016	0.016		2	2		4		11	11	
18/12/2023	10:45	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.002	0.002	0.003	0.013	0.013	0.01	2	2	2	6	6	2	2	3
			Middle																											
	10:49		Bottom	4.3	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.003	0.003		0.012	0.012		2	2		6		3	3	
20/12/2023	14:05	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.03	0.01	0.01	0.01	0.06	0.06	0.05	0.002	0.002	0.002	0.017	0.017	0.02	1	1	1	8	7	31	31	27
			Middle																											
	14:09		Bottom	4.5	4	4		0.02	0.02		0.01	0.01		0.05	0.05		<0.001	<0.001		0.019	0.019		2	2		5		23	23	
22/12/2023	14:39	Cloudy	Surface	1.0	5	5	5	0.12	0.12	0.10	0.01	0.01	0.01	0.15	0.15	0.12	0.004	0.004	0.004	0.022	0.022	0.02	2	2	2	12	12	10	10	9
			Middle																											
	14:43		Bottom	4.3	4	4		0.08	0.08		0.01	0.01		0.09	0.09		0.003	0.003		0.013	0.013		2	2		12		8	8	
26/12/2023	6:31	Cloudy	Surface	1.0	4	4	5	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	1	1	1	4	4	26	26	28
			Middle																											
	6:35		Bottom	4.3	5	5		<0.01	<0.01		<0.005	<0.005		0.01	0.01		<0.001	<0.001		<0.005	<0.005		1	1		5		30	30	
28/12/2023	13:43	Fine	Surface	1.0	3	3	3	0.04	0.04	0.05	<0.005	<0.005	0.02	0.05	0.05	0.07	0.002	0.002	0.002	0.007	0.007	0.02	1	1	1	3	3	0	0	1
			Middle																											
	13:47		Bottom	4.5	3	3		0.05	0.05		0.02	0.02		0.09	0.09		0.001	0.001		0.023	0.023		1	1		3		1	1	
30/12/2023	10:17	Fine	Surface	1.0	3	3	3	0.13	0.13	0.12	0.01	0.01	0.01	0.15	0.15	0.14	0.006	0.006	0.005	0.018	0.018	0.02	2	2	2	3	3	33	33	21
			Middle																											
	10:21		Bottom	4.2	3	3		0.11	0.11		<0.005	<0.005		0.13	0.13		0.004	0.004		0.014	0.014		2	2		3		9	9	
2/1/2024	14:31	Fine	Surface	1.0	3	3	4	0.04	0.04	0.03	0.01	0.01	0.01	0.07	0.07	0.06	0.002	0.002	0.002	0.023	0.023	0.03	2	2	2	13	7	66	66	46
			Middle																											
	14:35		Bottom	4.3	4	4		0.02	0.02		0.01	0.01		0.05	0.05		<0.001	<0.001		0.028	0.028		2	2		0		26	26	
4/1/2024	12:16	Fine	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.03	0.001	0.001	0.001	0.01	0.01	0.01	2	2	2	9	8	6	6	7
			Middle																											
	12:20		Bottom	4.4	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.008	0.008		2	2		7		8	8	
6/1/2024	14:59	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.05	0.002	0.002	0.002	0.017	0.017	0.02	2	2	1	5	4	200	200	245
			Middle																											
	15:03		Bottom	4.1	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		<0.001	<0.001		0.015	0.015		1	1		4		290	290	
8/1/2024	14:34	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	0.01	0.01	0.01	0.07	0.07	0.06	0.002	0.002	0.002	0.021	0.021	0.02	2	2	2	3	3	3	3	3
			Middle																											
	14:38		Bottom	4.5	4	4		0.03	0.03		0.01	0.01		0.06	0.06		0.002	0.002		0.024	0.024		2	2		3		3	3	
10/1/2024	15:21	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.001	0.001	0.001	0.016	0.016	0.01	2	2	2	2	2	0	0	0
			Middle																											
	15:25		Bottom	4.4	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.007	0.007		2	2		1		0	0	
12/1/2024	19:39	Fine	Surface	1.0	3	3	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.002	0.002	0.002	0.019	0.019	0.02	2	2	2	3	3	16	16	19
			Middle																											
	19:43		Bottom	4.3	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.016	0.016		2	2		3		22	22	
15/1/2024	10:53	Fine	Surface	1.0	4	4	5	0.06	0.06	0.05	<0.005	<0.005	<0.005	0.08	0.08	0.07	0.003	0.003	0.002	0.02	0.02	0.02	2	2	2	4	3	6	6	47
			Middle																											
	10:57		Bottom	4.4	5	5		0.04	0.04		<0.005	<0.005		0.06	0.06		0.001	0.001		0.019	0.019		2	2		3		87	87	
17/1/2024	11:54	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.011	0.011	0.01	2	2	2	4	4	8	8	9
			Middle																											
	11:58		Bottom	4.4	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.01	0.01		2	2		4		10	10	
19/1/2024	14:00	Fine	Surface	1.0	3	3	4	0.04	0.04	0.03	0.01	0.01	0.01	0.11	0.11	0.07	0.003	0.003	0.003	0.059	0.059	0.04	1	1	2	5	6	1	1	1
			Middle																											
	14:04		Bottom	4.5	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.011	0.011		2	2		6		1	1	

Water Monitoring Result at CR17 - Corals at Sha Tin Hoi South
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	12:29	Cloudy	Surface	1.0	5	5	5	0.09	0.09	0.11	0.013	0.013	0.01	0.21	0.21	0.23	0.024	0.024	0.024	0.11	0.11	0.11	3	3	3	1	1	200	200	225
			Middle																											
	12:33		Bottom	4.1	4	4		0.12	0.12		0.013	0.013		0.24	0.24		0.023	0.023		0.11	0.11		3	3		1		250	250	
30/11/2023	12:50	Cloudy	Surface	1.0	3	3	4	0.17	0.17	0.17	0.02	0.02	0.02	0.37	0.37	0.37	0.030	0.030	0.029	0.187	0.187	0.19	3	3	2	3	4	160	160	120
			Middle																											
	12:54		Bottom	4.2	4	4		0.16	0.16		0.02	0.02		0.37	0.37		0.028	0.028		0.19	0.19		2	2		5		80	80	
1/12/2023	15:03	Fine	Surface	1.0	6	6	6	0.05	0.05	0.04	0.01	0.01	0.01	0.09	0.09	0.08	0.006	0.006	0.005	0.032	0.032	0.03	4	4	4	4	6	190	190	170
			Middle																											
	15:07		Bottom	4.1	5	5		0.03	0.03		0.01	0.01		0.06	0.06		0.004	0.004		0.027	0.027		4	4		8		150	150	
4/12/2023	16:47	Fine	Surface	1.0	4	4	4	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.007	0.007	0.006	0.015	0.015	0.01	2	2	2	0	0	3	3	3
			Middle																											
	16:51		Bottom	4.2	4	4		0.05	0.05		<0.005	<0.005		0.07	0.07		0.004	0.004		0.012	0.012		2	2		0		2	2	
6/12/2023	7:12	Cloudy	Surface	1.0	6	6	6	0.04	0.04	0.05	<0.005	<0.005	<0.005	0.05	0.05	0.07	0.008	0.008	0.009	0.008	0.008	0.01	2	2	2	3	3	55	55	50
			Middle																											
	7:16		Bottom	4.2	5	5		0.06	0.06		<0.005	<0.005		0.08	0.08		0.009	0.009		0.012	0.012		2	2		3		44	44	
8/12/2023	8:14	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.004	0.004	0.003	0.007	0.007	0.01	1	1	1	5	6	1	1	1
			Middle																											
	8:18		Bottom	4.2	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		0.011	0.011		1	1		6		0	0	
11/12/2023	10:56	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.06	<0.005	<0.005	<0.005	0.05	0.05	0.08	0.008	0.008	0.010	0.007	0.007	0.01	2	2	1	4	4	0	0	0
			Middle																											
	11:00		Bottom	5.0	4	4		0.08	0.08		<0.005	<0.005		0.10	0.10		0.011	0.011		0.012	0.012		1	1		5		0	0	
13/12/2023	11:34	Cloudy	Surface	1.0	3	3	3	0.08	0.08	0.09	<0.005	<0.005	<0.005	0.11	0.11	0.12	0.007	0.007	0.007	0.027	0.027	0.03	2	2	2	8	7	74	74	85
			Middle																											
	11:38		Bottom	4.0	3	3		0.09	0.09		<0.005	<0.005		0.13	0.13		0.007	0.007		0.034	0.034		2	2		6		95	95	
15/12/2023	14:10	Fine	Surface	1.0	4	4	5	0.21	0.21	0.21	0.01	0.01	0.01	0.24	0.24	0.24	0.018	0.018	0.014	0.029	0.029	0.03	2	2	2	8	9	5	5	3
			Middle																											
	14:14		Bottom	4.1	5	5		0.21	0.21		0.01	0.01		0.24	0.24		0.009	0.009		0.027	0.027		2	2		10		1	1	
18/12/2023	15:00	Cloudy	Surface	1.0	5	5	5	0.04	0.04	0.05	<0.005	<0.005	<0.005	0.06	0.06	0.07	0.003	0.003	0.003	0.012	0.012	0.02	2	2	2	8	7	1	1	2
			Middle																											
	15:04		Bottom	4.1	4	4		0.06	0.06		<0.005	<0.005		0.09	0.09		0.003	0.003		0.026	0.026		2	2		5		2	2	
20/12/2023	8:05	Cloudy	Surface	1.0	4	4	4	0.03	0.03	0.03	0.01	0.01	0.01	0.06	0.06	0.05	0.001	0.001	0.001	0.016	0.016	0.01	1	1	1	3	4	28	28	29
			Middle																											
	8:09		Bottom	4.4	4	4		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.012	0.012		1	1		4		29	29	
22/12/2023	8:29	Cloudy	Surface	1.0	5	5	5	0.10	0.10	0.09	0.01	0.01	0.01	0.12	0.12	0.11	0.003	0.003	0.003	0.018	0.018	0.02	2	2	2	11	9	4	4	6
			Middle																											
	8:33		Bottom	4.3	5	5		0.08	0.08		0.01	0.01		0.10	0.10		0.003	0.003		0.013	0.013		2	2		8		8	8	
26/12/2023	11:37	Cloudy	Surface	1.0	3	3	4	<0.01	<0.01	0.04	<0.005	<0.005	<0.005	0.01	0.01	0.03	<0.001	<0.001	0.001	<0.005	<0.005	<0.005	2	2	2	2	2	35	35	29
			Middle																											
	11:41		Bottom	4.5	4	4		0.04	0.04		<0.005	<0.005		0.04	0.04		0.001	0.001		<0.005	<0.005		1	1		1		23	23	
28/12/2023	9:30	Fine	Surface	1.0	5	5	5	0.05	0.05	0.04	0.01	0.01	0.01	0.09	0.09	0.07	0.002	0.002	0.002	0.03	0.03	0.02	<1	<1	1	2	2	2	2	2
			Middle																											
	9:34		Bottom	4.2	4	4		0.03	0.03		0.01	0.01		0.05	0.05		<0.001	<0.001		0.017	0.017		1	1		2		2	2	
30/12/2023	14:59	Fine	Surface	1.0	3	3	3	0.13	0.13	0.10	<0.005	<0.005	<0.005	0.15	0.15	0.12	0.006	0.006	0.004	0.02	0.02	0.02	2	2	2	4	3	43	43	41
			Middle																											
	15:03		Bottom	4.1	3	3		0.07	0.07		<0.005	<0.005		0.09	0.09		0.002	0.002		0.02	0.02		2	2		2		38	38	
2/1/2024	7:15	Fine	Surface	1.0	4	4	4	0.01	0.01	0.02	0.01	0.01	0.01	0.04	0.04	0.05	<0.001	<0.001	0.001	0.02	0.02	0.02	2	2	2	6	6	1	1	16
			Middle																											
	7:19		Bottom	4.3	3	3		0.02	0.02		0.01	0.01		0.05	0.05		0.001	0.001		0.018	0.018		2	2		7		30	30	
4/1/2024	16:16	Fine	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.03	<0.001	<0.001	<0.001	0.013	0.013	0.01	2	2	2	4	4	5	5	12
			Middle																											
	16:20		Bottom	4.2	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.011	0.011		2	2		5		18	18	
6/1/2024	8:50	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.04	0.002	0.002	0.002	0.014	0.014	0.01	1	1	1	4	4	87	87	109
			Middle																											
	8:54		Bottom	4.2	3	3		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.008	0.008		1	1		5		130	130	
8/1/2024	9:21	Fine	Surface	1.0	3	3	4	0.03	0.03	0.04	0.01	0.01	0.01	0.05	0.05	0.06	0.001	0.001	0.002	0.014	0.014	0.02	2	2	2	4	3	0	0	0
			Middle																											
	9:25		Bottom	4.3	4	4		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.018	0.018		2	2		3		0	0	
10/1/2024	11:01	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.001	0.001	0.001	0.008	0.008	0.01	2	2	2	1	1	1	1	1
			Middle																											
	11:05		Bottom	4.3	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.001	0.001		0.005	0.005		2	2		2		0	0	
12/1/2024	13:57	Fine	Surface	1.0	4	4	4	0.04	0.04	0.06	<0.005	<0.005	<0.005	0.06	0.06	0.10	0.002	0.002	0.002	0.016	0.016	0.04	2	2	2	3	3	17	17	17
			Middle																											
	14:01		Bottom	4.2	4	4		0.08	0.08		<0.005	<0.005		0.14	0.14		0.002	0.002		0.062	0.062		2	2		3		16	16	
15/1/2024	16:28	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.002	0.002	0.002	0.016	0.016	0.02	2	2	2	3	3	11	11	10
			Middle																											
	16:32		Bottom	4.2	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		<0.001	<0.001		0.015	0.015		2	2		4		8	8	
17/1/2024	18:26	Cloudy	Surface	1.0	4	4	4	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.08	0.08	0.08	0.004	0.004	0.004	0.005	0.005	0.01	2	2	2	3	3	11	11	10
			Middle																											
	18:30		Bottom	4.3	4	4		0.07	0.07		<0.005	<0.005		0.09	0.09		0.004	0.004		0.011	0.011		2	2		3		8	8	
19/1/2024	8:33	Fine	Surface	1.0	3	3	3	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.05	0.002	0.002	0.002	0.016	0.016	0.02	2	2	1	6	5	0	0	2
			Middle																											
	8:37		Bottom	4.2	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.016	0.016		1	1		5		4	4	

Water Monitoring Result at G1 - Potential Subzone of Yim Tin Tsai Fish Culture Zone / Gradient Station

Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	6:58	Cloudy	Surface	1.0	5	5	5	0.12	0.12	0.14	0.013	0.013	0.01	0.14	0.14	0.16	0.076	0.076	0.068	<0.005	<0.005	0.02	3	3	3	2	1	560	560	507
	7:00		Middle	3.9	5	5		0.13	0.13		<0.005	<0.005		0.15	0.15		0.071	0.071		0.014	0.014		3	3		1		510	510	
	7:02		Bottom	6.7	6	6		0.16	0.16		<0.005	<0.005		0.18	0.18		0.057	0.057		0.022	0.022		3	3		1		450	450	
30/11/2023	8:41	Cloudy	Surface	1.0	4	4	4	0.46	0.46	0.44	0.01	0.01	0.01	0.52	0.52	0.51	0.087	0.087	0.074	0.056	0.056	0.05	2	2	2	5	5	210	210	207
	8:43		Middle	3.9	4	4		0.43	0.43		0.01	0.01		0.50	0.50		0.077	0.077		0.055	0.055		3	3		5		200	200	
	8:45		Bottom	6.8	5	5		0.44	0.44		0.01	0.01		0.51	0.51		0.059	0.059		0.053	0.053		3	3		5		210	210	
1/12/2023	9:48	Fine	Surface	1.0	7	7	6	0.05	0.05	0.04	<0.005	<0.005	<0.005	0.10	0.10	0.08	0.011	0.011	0.007	0.043	0.043	0.03	3	3	3	1	2	120	120	120
	9:50		Middle	3.9	5	5		0.04	0.04		<0.005	<0.005		0.08	0.08		0.007	0.007		0.037	0.037		3	3		2		110	110	
	9:52		Bottom	6.7	5	5		0.03	0.03		<0.005	<0.005		0.05	0.05		0.004	0.004		0.013	0.013		3	3		2		130	130	
4/12/2023	8:53	Fine	Surface	1.0	5	5	5	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.04	0.003	0.003	0.003	0.012	0.012	0.01	2	2	2	0	0	10	10	28
	8:55		Middle	3.6	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.005	0.005		0.014	0.014		2	2		0		30	30	
	8:57		Bottom	6.6	5	5		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.009	0.009		2	2		0		45	45	
6/12/2023	14:05	Cloudy	Surface	1.0	5	5	6	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.002	0.002	0.002	0.007	0.007	0.01	3	3	2	5	6	83	83	66
	14:07		Middle	4.0	7	7		0.01	0.01		0.01	0.01		0.02	0.02		0.002	0.002		<0.005	<0.005		3	3		9		53	53	
	14:09		Bottom	7.0	7	7		0.01	0.01		<0.005	<0.005		0.02	0.02		0.001	0.001		<0.005	<0.005		2	2		5		61	61	
8/12/2023	15:07	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.004	0.004	0.003	0.005	0.005	0.01	1	1	1	4	3	1	1	2
	15:09		Middle	3.9	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		0.004	0.004		0.005	0.005		1	1		3		1	1	
	15:11		Bottom	6.7	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		<0.005	<0.005		<1	<1		3		5	5	
11/12/2023	7:04	Cloudy	Surface	1.0	4	4	3	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.03	0.007	0.007	0.005	0.009	0.009	0.01	1	1	1	3	5	0	0	0
	7:06		Middle	3.9	3	3		0.01	0.01		<0.005	<0.005		0.02	0.02		0.002	0.002		0.005	0.005		1	1		4		0	0	
	7:08		Bottom	6.7	3	3		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.006	0.006		1	1		8		0	0	
13/12/2023	7:06	Cloudy	Surface	1.0	5	5	4	0.06	0.06	0.04	0.01	0.01	0.01	0.08	0.08	0.06	0.005	0.005	0.005	0.015	0.015	0.01	2	2	2	4	3	31	31	36
	7:08		Middle	3.9	4	4		0.05	0.05		0.01	0.01		0.06	0.06		0.004	0.004		0.011	0.011		2	2		4		43	43	
	7:10		Bottom	6.7	4	4		0.01	0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		<0.005	<0.005		2	2		3		33	33	
15/12/2023	10:06	Fine	Surface	1.0	4	4	4	0.15	0.15	0.13	<0.005	<0.005	<0.005	0.16	0.16	0.15	0.011	0.011	0.009	0.013	0.013	0.01	2	2	2	11	11	7	7	10
	10:08		Middle	3.9	4	4		0.12	0.12		<0.005	<0.005		0.13	0.13		0.009	0.009		0.011	0.011		2	2		11		10	10	
	10:10		Bottom	6.7	4	4		0.13	0.13		<0.005	<0.005		0.15	0.15		0.006	0.006		0.011	0.011		1	1		11		13	13	
18/12/2023	11:05	Cloudy	Surface	1.0	5	5	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.002	0.002	0.002	0.014	0.014	0.01	1	1	1	10	6	2	2	2
	11:07		Middle	3.9	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.002	0.002		0.007	0.007		2	2		5		1	1	
	11:09		Bottom	6.7	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.012	0.012		1	1		2		3	3	
20/12/2023	14:25	Cloudy	Surface	1.0	4	4	4	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.009	0.009	0.01	1	1	1	4	4	26	26	19
	14:27		Middle	3.9	4	4		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.006	0.006		1	1		4		12	12	
	14:29		Bottom	6.8	4	4		0.01	0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.01	0.01		1	1		3		20	20	
22/12/2023	15:04	Cloudy	Surface	1.0	5	5	5	0.08	0.08	0.10	0.01	0.01	0.01	0.10	0.10	0.12	0.003	0.003	0.003	0.008	0.008	0.01	2	2	2	13	12	2	2	3
	15:06		Middle	3.9	5	5		0.12	0.12		0.01	0.01		0.14	0.14		0.004	0.004		0.013	0.013		1	1		13		6	6	
	15:08		Bottom	6.7	4	4		0.10	0.10		0.01	0.01		0.11	0.11		0.003	0.003		0.006	0.006		2	2		11		2	2	
26/12/2023	6:53	Cloudy	Surface	1.0	5	5	4	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	0.009	0.009	0.01	1	1	1	3	4	79	79	51
	6:55		Middle	3.8	4	4		<0.01	<0.01		<0.005	<0.005		0.01	0.01		<0.001	<0.001		0.007	0.007		1	1		5		74	74	
	6:57		Bottom	6.7	4	4		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.008	0.008		1	1		6		1	1	
28/12/2023	14:03	Fine	Surface	1.0	5	5	4	0.03	0.03	0.03	<0.005	<0.005	0.01	0.05	0.05	0.06	<0.001	<0.001	0.001	0.016	0.016	0.02	1	1	1	5	4	43	43	43
	14:05		Middle	3.9	4	4		0.04	0.04		0.01	0.01		0.07	0.07		0.001	0.001		0.023	0.023		1	1		4		35	35	
	14:07		Bottom	6.8	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.001	0.001		0.019	0.019		1	1		3		50	50	
30/12/2023	10:38	Fine	Surface	1.0	3	3	3	0.03	0.03	0.06	<0.005	<0.005	<0.005	0.05	0.05	0.08	0.002	0.002	0.003	0.012	0.012	0.02	2	2	1	3	3	26	26	28
	10:40		Middle	3.8	3	3		0.06	0.06		<0.005	<0.005		0.09	0.09		0.003	0.003		0.021	0.021		2	2		3		35	35	
	10:42		Bottom	6.7	3	3		0.08	0.08		<0.005	<0.005		0.10	0.10		0.003	0.003		0.019	0.019		1	1		3		22	22	
2/1/2024	14:51	Fine	Surface	1.0	3	3	3	0.03	0.03	0.02	0.01	0.01	0.01	0.07	0.07	0.05	<0.001	<0.001	0.001	0.039	0.039	0.03	2	2	2	2	2	1	1	0
	14:53		Middle	4.0	3	3		0.01	0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.02	0.02		2	2		2		0	0	
	14:55		Bottom	7.0	3	3		0.02	0.02		<0.005	<0.005		0.05	0.05		0.001	0.001		0.022	0.022		2	2		2		0	0	
4/1/2024	12:36	Fine	Surface	1.0	3	3	4	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.012	0.012	0.01	2	2	2	6	5	39	39	34
	12:38		Middle	3.9	4	4		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.014	0.014		2	2		3		30	30	
	12:40		Bottom	6.8	4	4		0.01	0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.008	0.008		<1	<1		5		33	33	
6/1/2024	15:22	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	0.01	0.05	0.05	0.04	0.002	0.002	0.001	0.011	0.011	0.01	1	1	1	3	4	13	13	11
	15:24		Middle	3.9	3	3		0.02	0.02		0.01	0.01		0.04	0.04		0.001	0.001		0.01	0.01		2	2		3		4	4	
	15:26		Bottom	6.8	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.008	0.008		1	1		5		17	17	
8/1/2024	14:54	Fine	Surface	1.0	4	4	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.008	0.008	0.01	2	2	2	1	2	1	1	0
	14:56		Middle	4.0	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.01	0.01		2	2		2		0	0	
	14:58		Bottom	7.0	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.005	0.005		2	2		2		0	0	
10/1/2024	15:42	Fine	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.014	0.014	0.01	2	2	2	2	2	0	0	0
	15:44		Middle	4.0	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.012	0.012		2	2		1		0	0	
	15:46		Bottom	7.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		1		0	0	
12/1/2024	20:00	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.002	0.002	0.002	0.015	0.015	0.01	2	2	2	4	3	7	7	8
	20:02		Middle	3.9	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.013	0.013		2	2		3		10	10	
	20:04		Bottom	6.9	3	3		0.05	0.05		<0.005	<0.005		0.06	0.06		0.002	0.002		0.007	0.007		2	2		2		8	8	
15/1/2024	11:13	Fine	Surface	1.0	4	4	4	0.12	0.12	0.05	<0.005	<0.005	<0.005	0.14	0.14	0.07	0.007	0.007	0.007	0.02	0.02	0.02	2	2	2	4	3	30	30	43
	11:15		Middle	4.0	4	4		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.013	0.013		2	2		3		38	38	
	11:17		Bottom	7.0	4	4		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.013	0.013		2	2		3		62	62	
17/1/2024	11:41	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.017	0.017	0.02	2	2	1	3	3	0	0	0
	11:43		Middle	3.9	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.013	0.013		2	2		2		0	0	
	11:45		Bottom	6.8	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.015	0.015		1	1		4		0	0	
19/1/2024	14:20	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.001	0.001	0.002	0.013	0.013	0.02	2	2	2	5	4	0	0	4
	14:22		Middle	4.0	3	3		0.05	0.05		<0.005	<0.005		0.08	0.08		0.003	0.003		0.021	0.021		2	2		4		5	5	
	14:24		Bottom	7.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.016	0.016		2	2		4		6	6	

Water Monitoring Result at G1 - Potential Subzone of Yim Tin Tsai Fish Culture Zone / Gradient Station
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	12:51	Cloudy	Surface	1.0	5	5	5	0.10	0.10	0.10	<0.005	<0.005	<0.005	0.11	0.11	0.11	0.071	0.071	0.065	0.008	0.008	0.01	3	3	3	0	0	700	700	560
	12:53		Middle	3.8	4	4		0.09	0.09		<0.005	<0.005		0.10	0.10		0.067	0.067		0.010	0.010		3	3		1		300	300	
	12:55		Bottom	6.5	5	5		0.11	0.11		<0.005	<0.005		0.12	0.12		0.056	0.056		0.009	0.009		3	3		0		680	680	
30/11/2023	12:29	Cloudy	Surface	1.0	4	4	4	0.41	0.41	0.41	0.01	0.01	0.01	0.47	0.47	0.48	0.084	0.084	0.069	0.058	0.058	0.06	2	2	3	6	4	380	380	423
	12:31		Middle	3.9	4	4		0.39	0.39		0.01	0.01		0.46	0.46		0.063	0.063		0.055	0.055		3	3		4		410	410	
	12:33		Bottom	6.7	4	4		0.44	0.44		0.01	0.01		0.51	0.51		0.060	0.060		0.058	0.058		2	2		3		480	480	
1/12/2023	14:40	Fine	Surface	1.0	4	4	5	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.05	0.004	0.004	0.006	0.006	0.006	0.01	4	4	4	7	5	60	60	59
	14:42		Middle	3.8	6	6		0.06	0.06		<0.005	<0.005		0.07	0.07		0.010	0.010		0.007	0.007		4	4		3		69	69	
	14:44		Bottom	6.5	6	6		0.02	0.02		<0.005	<0.005		0.04	0.04		0.003	0.003		0.008	0.008		4	4		4		48	48	
4/12/2023	17:11	Fine	Surface	1.0	4	4	5	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.05	0.003	0.003	0.004	0.01	0.01	0.01	3	3	2	0	0	58	58	69
	17:13		Middle	3.8	6	6		0.05	0.05		<0.005	<0.005		0.07	0.07		0.007	0.007		0.012	0.012		3	3		0		82	82	
	17:15		Bottom	6.5	5	5		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.016	0.016		2	2		1		67	67	
6/12/2023	7:33	Cloudy	Surface	1.0	5	5	5	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.03	0.004	0.004	0.003	0.008	0.008	0.01	3	3	3	6	6	65	65	68
	7:35		Middle	3.8	5	5		0.02	0.02		<0.005	<0.005		0.03	0.03		0.004	0.004		<0.005	<0.005		2	2		6		63	63	
	7:37		Bottom	6.5	6	6		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		<0.005	<0.005		2	2		6		76	76	
8/12/2023	8:34	Fine	Surface	1.0	3	3	3	0.03	0.03	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.03	0.006	0.006	0.004	0.007	0.007	0.01	1	1	1	4	3	3	3	2
	8:36		Middle	3.8	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.004	0.004		0.011	0.011		1	1		3		4	4	
	8:38		Bottom	6.5	3	3		0.01	0.01		<0.005	<0.005		0.02	0.02		0.001	0.001		0.006	0.006		2	2		3		0	0	
11/12/2023	10:36	Cloudy	Surface	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.006	0.006	0.006	0.011	0.011	0.01	1	1	1	2	2	1	1	0
	10:38		Middle	3.8	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.007	0.007		0.009	0.009		1	1		2		0	0	
	10:40		Bottom	6.5	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.005	0.005		<0.005	<0.005		<1	<1		2		0	0	
13/12/2023	11:54	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.001	0.001	0.002	0.014	0.014	0.01	2	2	2	8	7	39	39	32
	11:56		Middle	3.8	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.002	0.002		0.008	0.008		2	2		5		35	35	
	11:58		Bottom	6.5	3	3		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.008	0.008		2	2		8		23	23	
15/12/2023	14:44	Fine	Surface	1.0	5	5	4	0.12	0.12	0.14	<0.005	<0.005	<0.005	0.13	0.13	0.15	0.010	0.010	0.009	0.007	0.007	0.01	2	2	1	7	8	8	8	9
	14:46		Middle	3.9	3	3		0.14	0.14		<0.005	<0.005		0.15	0.15		0.009	0.009		0.009	0.009		1	1		6		10	10	
	14:48		Bottom	6.8	3	3		0.16	0.16		<0.005	<0.005		0.17	0.17		0.007	0.007		0.01	0.01		1	1		10		9	9	
18/12/2023	15:20	Cloudy	Surface	1.0	5	5	4	0.05	0.05	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.003	0.003	0.003	0.012	0.012	0.01	<1	<1	1	5	5	3	3	2
	15:22		Middle	3.8	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.01	0.01		1	1		4		3	3	
	15:24		Bottom	6.5	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.003	0.003		0.008	0.008		1	1		4		0	0	
20/12/2023	8:26	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.03	<0.001	<0.001	<0.001	0.009	0.009	0.01	1	1	1	5	4	13	13	17
	8:28		Middle	3.9	4	4		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.009	0.009		1	1		4		23	23	
	8:30		Bottom	6.7	4	4		<0.01	<0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		3		15	15	
22/12/2023	8:55	Cloudy	Surface	1.0	5	5	5	0.07	0.07	0.08	0.01	0.01	0.01	0.09	0.09	0.10	0.002	0.002	0.003	0.008	0.008	0.01	2	2	2	5	9	0	0	0
	8:57		Middle	3.9	6	6		0.09	0.09		0.01	0.01		0.11	0.11		0.003	0.003		0.011	0.011		2	2		13		1	1	
	8:59		Bottom	6.7	5	5		0.08	0.08		0.01	0.01		0.10	0.10		0.003	0.003		0.008	0.008		1	1		10		0	0	
26/12/2023	12:02	Cloudy	Surface	1.0	3	3	3	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	0.006	0.006	0.01	2	2	2	2	3	1	1	31
	12:04		Middle	3.8	3	3		<0.01	<0.01		<0.005	<0.005		0.01	0.01		<0.001	<0.001		0.007	0.007		1	1		4		90	90	
	12:06		Bottom	6.6	3	3		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.009	0.009		2	2		4		1	1	
28/12/2023	9:51	Fine	Surface	1.0	5	5	4	0.04	0.04	0.04	0.01	0.01	0.01	0.07	0.07	0.07	0.001	0.001	0.001	0.025	0.025	0.03	2	2	1	2	2	49	49	40
	9:53		Middle	3.9	4	4		0.05	0.05		<0.005	<0.005		0.08	0.08		0.001	0.001		0.028	0.028		1	1		2		50	50	
	9:55		Bottom	6.7	4	4		0.04	0.04		<0.005	<0.005		0.07	0.07		0.001	0.001		0.029	0.029		<1	<1		2		20	20	
30/12/2023	15:20	Fine	Surface	1.0	3	3	3	0.04	0.04	0.05	<0.005	<0.005	<0.005	0.06	0.06	0.07	0.002	0.002	0.002	0.016	0.016	0.02	2	2	1	1	1	34	34	33
	15:22		Middle	3.8	3	3		0.07	0.07		<0.005	<0.005		0.10	0.10		0.003	0.003		0.024	0.024		1	1		1		26	26	
	15:24		Bottom	6.6	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.001	0.001		0.021	0.021		1	1		2		38	38	
2/1/2024	7:35	Fine	Surface	1.0	3	3	3	<0.01	<0.01	0.01	<0.005	<0.005	<0.005	0.01	0.01	0.02	<0.001	<0.001	<0.001	<0.005	<0.005	0.01	2	2	2	2	3	37	37	15
	7:37		Middle	3.9	3	3		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.007	0.007		2	2		4		6	6	
	7:39		Bottom	6.8	3	3		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.013	0.013		1	1		3		3	3	
4/1/2024	16:36	Fine	Surface	1.0	3	3	3	0.08	0.08	0.08	0.01	0.01	0.01	0.11	0.11	0.11	0.003	0.003	0.003	0.027	0.027	0.03	1	1	1	4	5	42	42	44
	16:38		Middle	3.7	4	4		0.08	0.08		<0.005	<0.005		0.11	0.11		0.004	0.004		0.024	0.024		2	2		5		46	46	
	16:40		Bottom	6.4	3	3		0.07	0.07		<0.005	<0.005		0.10	0.10		0.003	0.003		0.025	0.025		1	1		5		44	44	
6/1/2024	9:11	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.04	0.04	0.04	0.001	0.001	0.001	0.007	0.007	0.01	1	1	1	4	4	13	13	9
	9:13		Middle	3.8	3	3		0.03	0.03		0.01	0.01		0.04	0.04		0.001	0.001		0.008	0.008		<1	<1		4		9	9	
	9:15		Bottom	6.7	3	3		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		4		6	6	
8/1/2024	9:41	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.04	<0.001	<0.001	0.001	<0.005	<0.005	0.01	2	2	2	2	2	0	0	0
	9:43		Middle	3.7	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		2		0	0	
	9:45		Bottom	6.4	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.008	0.008		2	2		2		1	1	
10/1/2024	11:21	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.007	0.007	0.01	2	2	2	1	1	0	0	0
	11:23		Middle	3.8	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.011	0.011		2	2		2		0	0	
	11:25		Bottom	6.6	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		2		0	0	
12/1/2024	14:18	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.04	0.04	0.06	0.002	0.002	0.002	0.006	0.006	0.02	2	2	2	3	3	7	7	8
	14:20		Middle	3.8	4	4		0.05	0.05		<0.005	<0.005		0.09	0.09		0.002	0.002		0.037	0.037		2	2		3		10	10	
	14:22		Bottom	6.7	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.006	0.006		2	2		3		6	6	
15/1/2024	16:49	Fine	Surface	1.0	4	4	4	0.03	0.03	0.11	<0.005	<0.005	0.01	0.05	0.05	0.14	0.002	0.002	0.005	0.014	0.014	0.03	2	2	2	2	3	28	28	39
	16:51		Middle	3.7	4	4		0.13	0.13		<0.005	<0.005		0.16	0.16		0.007	0.007		0.029	0.029		2	2		3		50	50	
	16:53		Bottom	6.4	4	4		0.16	0.16		0.01	0.01		0.20	0.20		0.007	0.007		0.033	0.033		2	2		3		38	38	
17/1/2024	18:47	Cloudy	Surface	1.0	3	3	3	0.07	0.07	0.06	<0.005	<0.005	<0.005	0.08	0.08	0.07	0.004	0.004	0.003	0.011	0.011	0.01	1	1	1	3	3	0	0	0
	18:49		Middle	3.8	3	3		0.06	0.06		<0.005	<0.005		0.07	0.07		0.003	0.003		0.007	0.007		1	1		3		1	1	
	18:51		Bottom	6.7	3	3		0.06	0.06		<0.005	<0.005		0.07	0.07		0.003	0.003		0.006	0.006		1	1		2		0	0	
19/1/2024	8:53	Fine	Surface	1.0	3	3	3	0.07	0.07	0.05	<0.005	<0.005	<0.005	0.10	0.10	0.07	0.004	0.004	0.002	0.022	0.022	0.02	1	1	2	4	4	3	3	2
	8:55		Middle	3.8	4	4		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.018	0.018		2	2		4		3	3	
	8:57		Bottom	6.6	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.02	0.02		2	2		4		1	1	

Water Monitoring Result at CR9 - Gruff Head Corals (Control Station)
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	8:00	Cloudy	Surface	1.0	5	5	5	0.15	0.15	0.13	<0.005	<0.005	<0.005	0.17	0.17	0.15	0.009	0.009	0.009	0.020	0.020	0.02	3	3	2	0	1	0	0	0
	8:02		Middle	11.0	5	5		0.12	0.12		<0.005	<0.005		0.13	0.13		0.009	0.009		0.006	0.006		3	3		1		0	0	
	8:04		Bottom	21.0	5	5		0.12	0.12		<0.005	<0.005		0.15	0.15		0.010	0.010		0.022	0.022		1	1		2		0	0	
30/11/2023	9:34	Cloudy	Surface	1.0	4	4	4	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.08	0.08	0.08	0.007	0.007	0.007	<0.005	<0.005	0.01	1	1	1	1	1	0	0	0
	9:36		Middle	12.0	3	3		0.07	0.07		<0.005	<0.005		0.08	0.08		0.007	0.007		0.008	0.008		2	2		1		0	0	
	9:38		Bottom	23.0	4	4		0.07	0.07		<0.005	<0.005		0.08	0.08		0.007	0.007		0.007	0.007		1	1		1		0	0	
1/12/2023	11:00	Fine	Surface	1.0	3	3	5	0.09	0.09	0.07	<0.005	<0.005	<0.005	0.11	0.11	0.09	0.010	0.010	0.008	0.012	0.012	0.01	1	1	1	2	2	1	1	1
	11:02		Middle	11.5	5	5		0.08	0.08		<0.005	<0.005		0.09	0.09		0.009	0.009		0.009	0.009		1	1		2		1	1	
	11:04		Bottom	22.0	6	6		0.05	0.05		<0.005	<0.005		0.08	0.08		0.006	0.006		0.016	0.016		1	1		1		2	2	
4/12/2023	9:52	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.002	0.002	0.002	0.01	0.01	0.02	1	1	1	0	0	0	0	0
	9:54		Middle	12.0	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.003	0.003		0.026	0.026		<1	<1		0		0	0	
	9:56		Bottom	23.0	3	3		0.02	0.02		<0.005	<0.005		0.05	0.05		0.002	0.002		0.023	0.023		1	1		0		0	0	
6/12/2023	15:12	Cloudy	Surface	1.0	4	4	4	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.002	0.002	0.002	0.011	0.011	0.01	1	1	1	9	5	0	0	0
	15:14		Middle	11.0	4	4		0.01	0.01		0.01	0.01		0.04	0.04		0.002	0.002		0.017	0.017		1	1		2		0	0	
	15:16		Bottom	21.0	4	4		0.01	0.01		<0.005	<0.005		0.03	0.03		0.001	0.001		0.011	0.011		1	1		2		1	1	
8/12/2023	16:10	Fine	Surface	1.0	3	3	3	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.09	0.09	0.09	0.013	0.013	0.011	0.014	0.014	0.01	1	1	1	3	2	0	0	0
	16:12		Middle	12.0	3	3		0.08	0.08		<0.005	<0.005		0.10	0.10		0.011	0.011		0.012	0.012		1	1		2		0	0	
	16:14		Bottom	23.0	3	3		0.07	0.07		<0.005	<0.005		0.09	0.09		0.009	0.009		0.013	0.013		1	1		2		0	0	
11/12/2023	8:00	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.05	0.002	0.002	0.004	0.011	0.011	0.01	<1	<1	<1	3	3	0	0	0
	8:02		Middle	12.0	3	3		0.01	0.01		<0.005	<0.005		0.02	0.02		0.002	0.002		0.007	0.007		<1	<1		2		0	0	
	8:04		Bottom	23.0	3	3		0.07	0.07		<0.005	<0.005		0.09	0.09		0.008	0.008		0.013	0.013		<1	<1		3		0	0	
13/12/2023	8:58	Cloudy	Surface	1.0	3	3	4	<0.01	<0.01	0.02	<0.005	<0.005	0.01	0.02	0.02	0.03	<0.001	<0.001	0.002	0.008	0.008	0.01	1	1	1	2	3	0	0	1
	9:00		Middle	11.0	4	4		0.02	0.02		0.01	0.01		0.04	0.04		0.002	0.002		0.013	0.013		1	1		2		1	1	
	9:02		Bottom	21.0	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		0.008	0.008		2	2		5		2	2	
15/12/2023	11:19	Fine	Surface	1.0	3	3	3	0.14	0.14	0.12	<0.005	<0.005	<0.005	0.16	0.16	0.13	0.009	0.009	0.006	0.016	0.016	0.01	1	1	1	5	4	0	0	0
	11:21		Middle	12.0	3	3		0.08	0.08		<0.005	<0.005		0.09	0.09		0.004	0.004		0.006	0.006		1	1		4		0	0	
	11:23		Bottom	23.0	3	3		0.13	0.13		<0.005	<0.005		0.15	0.15		0.006	0.006		0.012	0.012		1	1		4		0	0	
18/12/2023	12:04	Cloudy	Surface	1.0	4	4	3	0.04	0.04	0.04	<0.005	<0.005	0.01	0.06	0.06	0.06	0.003	0.003	0.003	0.012	0.012	0.01	1	1	1	2	5	0	0	1
	12:06		Middle	12.0	3	3		0.05	0.05		0.01	0.01		0.07	0.07		0.003	0.003		0.019	0.019		1	1		3		2	2	
	12:08		Bottom	23.0	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.007	0.007		<1	<1		9		2	2	
20/12/2023	15:21	Cloudy	Surface	1.0	4	4	4	<0.01	<0.01	0.02	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.009	0.009	0.01	1	1	1	5	5	5	5	4
	15:23		Middle	11.8	4	4		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.01	0.01		1	1		6		3	3	
	15:25		Bottom	22.6	5	5		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		5		4	4	
22/12/2023	16:10	Cloudy	Surface	1.0	4	4	4	0.09	0.09	0.08	0.01	0.01	0.01	0.10	0.10	0.09	0.003	0.003	0.003	0.009	0.009	0.01	1	1	1	5	6	0	0	0
	16:12		Middle	12.0	4	4		0.08	0.08		0.01	0.01		0.09	0.09		0.003	0.003		0.008	0.008		<1	<1		5		0	0	
	16:14		Bottom	23.0	5	5		0.07	0.07		0.01	0.01		0.09	0.09		0.002	0.002		0.01	0.01		1	1		6		0	0	
26/12/2023	7:56	Cloudy	Surface	1.0	3	3	4	<0.01	<0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.04	<0.001	<0.001	<0.001	0.024	0.024	0.03	1	1	1	4	4	1	1	0
	7:58		Middle	12.0	5	5		0.01	0.01		<0.005	<0.005		0.05	0.05		<0.001	<0.001		0.029	0.029		2	2		5		0	0	
	8:00		Bottom	23.0	3	3		<0.01	<0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.03	0.03		1	1		3		0	0	
28/12/2023	14:56	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	0.01	0.01	0.01	0.05	0.05	0.05	0.001	0.001	0.001	0.013	0.013	0.01	<1	<1	<1	2	2	0	0	0
	14:58		Middle	11.8	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.001	0.001		0.011	0.011		<1	<1		3		0	0	
	15:00		Bottom	22.6	4	4		0.04	0.04		0.01	0.01		0.05	0.05		0.001	0.001		0.012	0.012		<1	<1		2		0	0	
30/12/2023	11:32	Fine	Surface	1.0	3	3	3	0.09	0.09	0.09	0.01	0.01	0.01	0.12	0.12	0.11	0.004	0.004	0.003	0.019	0.019	0.02	1	1	1	4	3	0	0	2
	11:34		Middle	12.0	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.002	0.002		0.015	0.015		1	1		2		1	1	
	11:36		Bottom	22.3	4	4		0.11	0.11		0.01	0.01		0.13	0.13		0.004	0.004		0.018	0.018		1	1		2		4	4	
2/1/2024	15:48	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	0.001	0.014	0.014	0.01	2	2	2	1	3	0	0	0
	15:50		Middle	12.0	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.012	0.012		2	2		3		0	0	
	15:52		Bottom	23.0	3	3		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		<0.005	<0.005		2	2		3		0	0	
4/1/2024	13:35	Fine	Surface	1.0	4	4	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	0.001	0.011	0.011	0.01	1	1	1	3	3	0	0	1
	13:37		Middle	11.9	3	3		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.011	0.011		1	1		2		2	2	
	13:39		Bottom	22.8	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.014	0.014		1	1		3		0	0	
6/1/2024	16:15	Fine	Surface	1.0	3	3	3	0.01	0.01	0.02	<0.005	<0.005	0.01	0.02	0.02	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	0.01	1	1	1	3	4	0	0	0
	16:17		Middle	11.0	3	3		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		5		0	0	
	16:19		Bottom	21.2	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.006	0.006		1	1		3		0	0	
8/1/2024	15:49	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.04	<0.001	<0.001	0.001	0.006	0.006	0.01	2	2	2	1	1	0	0	0
	15:51		Middle	11.7	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.011	0.011		2	2		1		0	0	
	15:53		Bottom	22.4	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		1		0	0	
10/1/2024	16:38	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.04	<0.001	<0.001	0.001	0.012	0.012	0.01	2	2	2	2	1	0	0	0
	16:40		Middle	11.8	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.013	0.013		2	2		1		0	0	
	16:42		Bottom	22.6	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.014	0.014		2	2		1		0	0	
12/1/2024	20:54	Fine	Surface	1.0	3	3	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.002	0.002	0.002	0.008	0.008	0.01	2	2	2	3	3	0	0	0
	20:56		Middle	12.0	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.008	0.008		2	2		4		0	0	
	20:58		Bottom	24.0	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.006	0.006		2	2		3		0	0	
15/1/2024	12:09	Fine	Surface	1.0	4	4	3	0.06	0.06	0.05	<0.005	<0.005	<0.005	0.09	0.09	0.07	0.003	0.003	0.002	0.024	0.024	0.02	2	2	2	4	4	15	15	11
	12:11		Middle	11.6	3	3		0.05	0.05		<0.005	<0.005		0.07	0.07		0.002	0.002		0.023	0.023		2	2		5		13	13	
	12:13		Bottom	22.2	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.001	0.001		0.021	0.021		2	2		3		4	4	
17/1/2024	12:36	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.011	0.011	0.01	1	1	1	4	4	0	0	0
	12:38		Middle	11.9	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.016	0.016		2	2		4		0	0	
	12:40		Bottom	22.8	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.016	0.016		2	2		3		0	0	
19/1/2024	15:16	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.001	0.001	0.001	0.013	0.013	0.01	2	2	2	4	4	0	0	0
	15:18		Middle	11.5	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.011	0.011		2	2		3		0	0	
	15:20		Bottom	22.0	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.016	0.016		2	2		3		0	0	

Water Monitoring Result at CR9 - Gruff Head Corals (Control Station)
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	13:59	Cloudy	Surface	1.0	5	5	5	0.09	0.09	0.10	<0.005	<0.005	<0.005	0.10	0.10	0.12	0.009	0.009	0.009	0.010	0.010	0.01	1	1	2	1	1	0	0	0
	14:01		Middle	10.0	5	5		0.10	0.10		<0.005	<0.005		0.12	0.12		0.010	0.010		0.011	0.011		1	1		1		0	0	
	14:03		Bottom	19.0	6	6		0.12	0.12		<0.005	<0.005		0.14	0.14		0.008	0.008		0.017	0.017		3	3		1		0	0	
30/11/2023	11:37	Cloudy	Surface	1.0	4	4	3	0.06	0.06	0.06	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.006	0.006	0.006	0.006	0.006	0.01	1	1	2	2	2	0	0	0
	11:39		Middle	12.0	3	3		0.07	0.07		<0.005	<0.005		0.08	0.08		0.007	0.007		<0.005	<0.005		<1	<1		2		0	0	
	11:41		Bottom	23.0	3	3		0.05	0.05		<0.005	<0.005		0.06	0.06		0.005	0.005		0.006	0.006		2	2		2		0	0	
1/12/2023	13:30	Fine	Surface	1.0	3	3	4	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.05	0.003	0.003	0.004	0.006	0.006	0.01	2	2	2	2	3	0	0	1
	13:32		Middle	10.5	3	3		0.05	0.05		<0.005	<0.005		0.07	0.07		0.006	0.006		0.011	0.011		2	2		2		0	0	
	13:34		Bottom	20.0	5	5		0.03	0.03		<0.005	<0.005		0.04	0.04		0.003	0.003		0.008	0.008		3	3		4		2	2	
4/12/2023	18:12	Fine	Surface	1.0	4	4	4	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.003	0.003	0.003	0.011	0.011	0.01	2	2	1	0	0	0	0	0
	18:14		Middle	9.5	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.004	0.004		0.015	0.015		1	1		0		0	0	
	18:16		Bottom	18.0	4	4		0.03	0.03		<0.005	<0.005		0.06	0.06		0.003	0.003		0.017	0.017		2	2		0		0	0	
6/12/2023	8:47	Cloudy	Surface	1.0	12	12	12	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.002	0.002	0.002	<0.005	<0.005	0.01	2	2	2	3	3	0	0	0
	8:49		Middle	11.0	11	11		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		0.007	0.007		1	1		3		0	0	
	8:51		Bottom	21.0	14	14		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		0.006	0.006		1	1		3		0	0	
8/12/2023	9:34	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.05	0.005	0.005	0.004	0.015	0.015	0.01	1	1	1	3	4	1	1	0
	9:36		Middle	11.5	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.003	0.003		0.01	0.01		1	1		3		1	1	
	9:38		Bottom	22.0	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.004	0.004		0.012	0.012		<1	<1		4		0	0	
11/12/2023	9:43	Cloudy	Surface	1.0	3	3	3	0.16	0.16	0.09	<0.005	<0.005	<0.005	0.18	0.18	0.10	0.023	0.023	0.012	0.013	0.013	0.01	<1	<1	2	4	3	0	0	0
	9:45		Middle	11.5	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.010	0.010		0.008	0.008		<1	<1		4		0	0	
	9:47		Bottom	22.0	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.004	0.004		0.007	0.007		2	2		2		0	0	
13/12/2023	12:52	Cloudy	Surface	1.0	3	3	3	<0.01	<0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.018	0.018	0.02	1	1	1	3	2	0	0	0
	12:54		Middle	11.5	3	3		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.016	0.016		1	1		2		0	0	
	12:56		Bottom	22.0	3	3		<0.01	<0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.015	0.015		2	2		3		1	1	
15/12/2023	15:52	Fine	Surface	1.0	3	3	3	0.10	0.10	0.13	<0.005	<0.005	<0.005	0.11	0.11	0.15	0.006	0.006	0.007	0.007	0.007	0.02	<1	<1	<1	3	2	0	0	0
	15:54		Middle	11.5	4	4		0.13	0.13		<0.005	<0.005		0.15	0.15		0.006	0.006		0.012	0.012		<1	<1		2		0	0	
	15:56		Bottom	22.0	3	3		0.16	0.16		<0.005	<0.005		0.19	0.19		0.008	0.008		0.026	0.026		<1	<1		3		0	0	
18/12/2023	16:17	Cloudy	Surface	1.0	4	4	4	0.04	0.04	0.05	<0.005	<0.005	<0.005	0.06	0.06	0.07	0.002	0.002	0.003	0.013	0.013	0.01	1	1	1	3	4	1	1	1
	16:19		Middle	11.8	5	5		0.05	0.05		<0.005	<0.005		0.06	0.06		0.003	0.003		0.011	0.011		2	2		4		1	1	
	16:21		Bottom	22.5	4	4		0.05	0.05		<0.005	<0.005		0.08	0.08		0.003	0.003		0.019	0.019		1	1		5		2	2	
20/12/2023	9:20	Cloudy	Surface	1.0	5	5	4	0.05	0.05	0.04	0.01	0.01	0.01	0.06	0.06	0.04	0.002	0.002	0.002	0.005	0.005	0.01	1	1	1	4	3	5	5	3
	9:22		Middle	12.0	4	4		<0.01	<0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		0.008	0.008		1	1		3		1	1	
	9:24		Bottom	22.3	4	4		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.008	0.008		1	1		3		2	2	
22/12/2023	10:01	Cloudy	Surface	1.0	5	5	5	0.12	0.12	0.11	0.01	0.01	0.01	0.13	0.13	0.13	0.004	0.004	0.004	0.01	0.01	0.01	1	1	1	3	4	1	1	1
	10:03		Middle	12.0	6	6		0.14	0.14		0.01	0.01		0.16	0.16		0.005	0.005		0.016	0.016		1	1		5		1	1	
	10:05		Bottom	23.0	5	5		0.08	0.08		0.01	0.01		0.09	0.09		0.003	0.003		0.006	0.006		2	2		4		0	0	
26/12/2023	12:56	Cloudy	Surface	1.0	3	3	3	<0.01	<0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.04	<0.001	<0.001	<0.001	0.034	0.034	0.03	4	4	3	3	3	1	1	0
	12:58		Middle	12.0	3	3		0.01	0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.023	0.023		2	2		3		0	0	
	13:00		Bottom	23.0	3	3		<0.01	<0.01		0.01	0.01		0.04	0.04		<0.001	<0.001		0.026	0.026		2	2		4		0	0	
28/12/2023	10:47	Fine	Surface	1.0	4	4	4	0.02	0.02	0.03	<0.005	<0.005	0.01	0.03	0.03	0.04	<0.001	<0.001	0.001	<0.005	<0.005	0.01	<1	<1	2	2	2	0	0	0
	10:49		Middle	12.0	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.001	0.001		0.005	0.005		<1	<1		2		0	0	
	10:51		Bottom	23.0	5	5		0.03	0.03		0.01	0.01		0.04	0.04		0.001	0.001		0.007	0.007		2	2		1		0	0	
30/12/2023	16:13	Fine	Surface	1.0	3	3	3	0.07	0.07	0.05	<0.005	<0.005	<0.005	0.08	0.08	0.06	0.003	0.003	0.002	0.016	0.016	0.01	1	1	2	3	3	2	2	2
	16:15		Middle	11.0	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.007	0.007		2	2		3		0	0	
	16:17		Bottom	21.0	3	3		0.04	0.04		<0.005	<0.005		0.04	0.04		0.001	0.001		<0.005	<0.005		2	2		2		5	5	
2/1/2024	8:36	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.002	0.002	0.002	0.016	0.016	0.01	2	2	2	1	1	5	5	2
	8:38		Middle	11.3	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.009	0.009		2	2		2		0	0	
	8:40		Bottom	21.6	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.002	0.002		0.009	0.009		2	2		1		0	0	
4/1/2024	17:35	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	0.001	0.013	0.013	0.01	1	1	1	3	3	0	0	0
	17:37		Middle	11.0	3	3		0.03	0.03		<0.005	<0.005		0.06	0.06		0.001	0.001		0.016	0.016		<1	<1		3		0	0	
	17:39		Bottom	21.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.013	0.013		1	1		3		0	0	
6/1/2024	10:05	Fine	Surface	1.0	3	3	3	0.03	0.03	0.02	<0.005	<0.005	0.01	0.03	0.03	0.03	0.001	0.001	0.001	<0.005	<0.005	<0.005	1	1	1	4	4	0	0	0
	10:07		Middle	12.0	3	3		0.02	0.02		<0.005	<0.005		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		5		1	1	
	10:09		Bottom	22.3	3	3		0.02	0.02		0.01	0.01		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		4		0	0	
8/1/2024	10:39	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	0.01	2	2	2	1	1	0	0	0
	10:41		Middle	11.2	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		<0.005	<0.005		2	2		2		0	0	
	10:43		Bottom	21.4	3	3		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		0.006	0.006		2	2		0		0	0	
10/1/2024	12:17	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.04	0.001	0.001	0.001	0.005	0.005	0.01	2	2	2	1	1	0	0	0
	12:19		Middle	11.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		2		0	0	
	12:21		Bottom	21.0	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.008	0.008		2	2		1		0	0	
12/1/2024	15:12	Fine	Surface	1.0	3	3	3	0.05	0.05	0.04	<0.005	<0.005	<0.005	0.08	0.08	0.07	0.002	0.002	0.002	0.031	0.031	0.02	2	2	2	3	2	2	2	1
	15:14		Middle	12.0	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.008	0.008		2	2		2		0	0	
	15:16		Bottom	22.3	3	3		0.05	0.05		<0.005	<0.005		0.07	0.07		0.002	0.002		0.024	0.024		2	2		2		0	0	
15/1/2024	17:48	Fine	Surface	1.0	4	4	4	0.10	0.10	0.07	<0.005	<0.005	<0.005	0.13	0.13	0.10	0.006	0.006	0.004	0.024	0.024	0.02	2	2	2	3	3	3	3	3
	17:50		Middle	11.5	3	3		0.07	0.07		<0.005	<0.005		0.09	0.09		0.003	0.003		0.023	0.023		2	2		2		5	5	
	17:52		Bottom	22.0	4	4		0.05	0.05		<0.005	<0.005		0.07	0.07		0.002	0.002		0.018	0.018		2	2		3		2	2	
17/1/2024	19:43	Cloudy	Surface	1.0	3	3	3	0.06	0.06	0.07	<0.005	<0.005	<0.005	0.08	0.08	0.08	0.003	0.003	0.003	0.013	0.013	0.01	1	1	2	2	2	0	0	0
	19:45		Middle	11.3	4	4		0.06	0.06		<0.005	<0.005		0.07	0.07		0.003	0.003		0.01	0.01		1	1		2		0	0	
	19:47		Bottom	21.6	3	3		0.08	0.08		<0.005	<0.005		0.09	0.09		0.004	0.004		0.007	0.007		2	2		2		0	0	
19/1/2024	9:48	Fine	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.01	0.01	0.01	2	2	2	3	3	0	0	0
	9:50		Middle	11.0	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		3		1	1	
	9:52		Bottom	21.0	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.013	0.013		2	2		4		0	0	

Water Monitoring Result at G1* -Gradient Station

Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	5:25	Cloudy	Surface	1.0	5	5	5	0.14	0.14	0.14	<0.005	<0.005	<0.005	0.15	0.15	0.15	0.100	0.100	0.120	0.009	0.009	0.01	<1	<1	1	1	1	3	3	4
			Middle																											
	5:29		Bottom	4.8	5	5		0.13	0.13		<0.005	<0.005		0.15	0.15		0.140	0.140		0.011	0.011		1	1		1		5	5	
30/11/2023	7:14	Cloudy	Surface	1.0	4	4	4	0.60	0.60	0.65	0.01	0.01	0.01	0.67	0.67	0.71	0.149	0.149	0.121	0.055	0.055	0.05	2	2	2	4	3	35	35	31
			Middle																											
	7:18		Bottom	4.9	4	4		0.69	0.69		0.01	0.01		0.75	0.75		0.092	0.092		0.049	0.049		2	2		2		27	27	
1/12/2023	8:13	Fine	Surface	1.0	3	3	4	0.03	0.03	0.04	0.01	0.01	0.01	0.05	0.05	0.06	0.008	0.008	0.010	0.014	0.014	0.01	3	3	3	2	1	400	400	380
			Middle																											
	8:17		Bottom	4.8	5	5		0.04	0.04		0.01	0.01		0.06	0.06		0.011	0.011		0.012	0.012		3	3		1		360	360	
4/12/2023	7:19	Fine	Surface	1.0	6	6	6	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.07	0.07	0.06	0.007	0.007	0.005	0.031	0.031	0.03	4	4	4	4	2	8	8	7
			Middle																											
	7:23		Bottom	4.8	5	5		0.03	0.03		<0.005	<0.005		0.06	0.06		0.003	0.003		0.027	0.027		4	4		0		5	5	
6/12/2023	12:43	Cloudy	Surface	1.0	4	4	4	0.08	0.08	0.08	0.01	0.01	0.01	0.11	0.11	0.11	0.020	0.020	0.018	0.023	0.023	0.02	4	4	4	7	6	230	230	255
			Middle																											
	12:47		Bottom	4.8	3	3		0.08	0.08		0.01	0.01		0.11	0.11		0.015	0.015		0.019	0.019		4	4		5		280	280	
8/12/2023	13:44	Fine	Surface	1.0	3	3	3	0.02	0.02	0.07	<0.005	<0.005	<0.005	0.04	0.04	0.10	0.008	0.008	0.019	0.009	0.009	0.03	1	1	2	3	2	25	25	29
			Middle																											
	13:48		Bottom	4.8	3	3		0.11	0.11		<0.005	<0.005		0.16	0.16		0.029	0.029		0.045	0.045		2	2		2		33	33	
11/12/2023	5:43	Cloudy	Surface	1.0	3	3	3	0.12	0.12	0.12	<0.005	<0.005	<0.005	0.15	0.15	0.15	0.032	0.032	0.032	0.026	0.026	0.02	1	1	1	4	3	10	10	7
			Middle																											
	5:47		Bottom	4.8	3	3		0.12	0.12		<0.005	<0.005		0.14	0.14		0.031	0.031		0.018	0.018		1	1		2		4	4	
13/12/2023	5:43	Cloudy	Surface	1.0	4	4	4	0.11	0.11	0.12	0.01	0.01	0.01	0.14	0.14	0.16	0.009	0.009	0.009	0.024	0.024	0.03	2	2	2	3	4	22	22	18
			Middle																											
	5:47		Bottom	4.8	4	4		0.12	0.12		0.01	0.01		0.17	0.17		0.009	0.009		0.044	0.044		2	2		5		14	14	
15/12/2023	7:09	Fine	Surface	1.0	3	3	4	0.09	0.09	0.10	0.01	0.01	0.01	0.12	0.12	0.14	0.007	0.007	0.006	0.02	0.02	0.03	2	2	2	11	8	12	12	15
			Middle																											
	7:13		Bottom	4.8	4	4		0.11	0.11		0.01	0.01		0.15	0.15		0.004	0.004		0.031	0.031		2	2		5		18	18	
18/12/2023	9:43	Cloudy	Surface	1.0	3	3	4	0.07	0.07	0.07	0.01	0.01	0.01	0.11	0.11	0.10	0.003	0.003	0.003	0.025	0.025	0.02	2	2	1	2	3	6	6	5
			Middle																											
	9:47		Bottom	4.8	4	4		0.06	0.06		0.01	0.01		0.09	0.09		0.003	0.003		0.021	0.021		1	1		4		4	4	
20/12/2023	12:59	Cloudy	Surface	1.0	4	4	5	0.01	0.01	0.02	0.01	0.01	0.01	0.04	0.04	0.04	<0.001	<0.001	<0.001	0.012	0.012	0.01	1	1	1	7	5	2	2	2
			Middle																											
	13:03		Bottom	4.9	6	6		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.012	0.012		1	1		2		2	2	
22/12/2023	13:17	Cloudy	Surface	1.0	6	6	6	0.16	0.16	0.15	0.01	0.01	0.01	0.19	0.19	0.18	0.005	0.005	0.005	0.017	0.017	0.02	1	1	1	7	7	8	8	8
			Middle																											
	13:21		Bottom	4.8	5	5		0.13	0.13		0.01	0.01		0.16	0.16		0.004	0.004		0.019	0.019		1	1		7		7	7	
26/12/2023	5:23	Cloudy	Surface	1.0	3	3	3	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.06	0.06	0.04	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	1	1	1	5	4	16	16	26
			Middle																											
	5:27		Bottom	4.8	3	3		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		3		36	36	
28/12/2023	12:39	Fine	Surface	1.0	4	4	4	0.08	0.08	0.12	0.01	0.01	0.01	0.12	0.12	0.19	0.003	0.003	0.004	0.035	0.035	0.07	1	1	1	2	2	690	690	710
			Middle																											
	12:43		Bottom	4.9	3	3		0.16	0.16		0.01	0.01		0.26	0.26		0.005	0.005		0.096	0.096		1	1		2		730	730	
30/12/2023	9:15	Fine	Surface	1.0	3	3	3	0.24	0.24	0.22	0.01	0.01	0.01	0.27	0.27	0.25	0.010	0.010	0.009	0.021	0.021	0.02	1	1	1	0	1	68	68	63
			Middle																											
	9:19		Bottom	4.9	3	3		0.20	0.20		0.01	0.01		0.23	0.23		0.007	0.007		0.021	0.021		1	1		2		57	57	
2/1/2024	13:27	Fine	Surface	1.0	3	3	4	0.05	0.05	0.06	0.01	0.01	0.01	0.09	0.09	0.09	0.003	0.003	0.003	0.027	0.027	0.03	1	1	1	3	4	2	2	2
			Middle																											
	13:31		Bottom	4.9	4	4		0.06	0.06		0.01	0.01		0.10	0.10		0.003	0.003		0.035	0.035		1	1		4		1	1	
4/1/2024	11:13	Fine	Surface	1.0	3	3	4	0.07	0.07	0.07	0.01	0.01	0.01	0.09	0.09	0.09	0.002	0.002	0.002	0.022	0.022	0.02	<1	<1	1	3	2	6	6	7
			Middle																											
	11:17		Bottom	4.8	4	4		0.06	0.06		<0.005	<0.005		0.08	0.08		0.002	0.002		0.019	0.019		1	1		2		8	8	
6/1/2024	13:55	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.002	0.002	0.002	0.014	0.014	0.01	1	1	1	5	5	120	120	130
			Middle																											
	13:59		Bottom	4.9	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.001	0.001		0.012	0.012		1	1		5		140	140	
8/1/2024	13:32	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.07	0.07	0.06	0.002	0.002	0.002	0.023	0.023	0.02	2	2	2	3	2	20	20	19
			Middle																											
	13:36		Bottom	4.9	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.017	0.017		2	2		2		18	18	
10/1/2024	14:18	Fine	Surface	1.0	4	4	4	0.10	0.10	0.11	0.01	0.01	0.01	0.17	0.17	0.18	0.005	0.005	0.006	0.064	0.064	0.07	2	2	1	4	4	260	260	315
			Middle																											
	14:22		Bottom	4.8	4	4		0.11	0.11		0.01	0.01		0.19	0.19		0.006	0.006		0.068	0.068		1	1		4		370	370	
12/1/2024	18:35	Fine	Surface	1.0	3	3	3	0.06	0.06	0.06	0.01	0.01	0.01	0.10	0.10	0.10	0.003	0.003	0.003	0.03	0.03	0.03	2	2	2	4	4	280	280	260
			Middle																											
	18:39		Bottom	4.9	3	3		0.06	0.06		0.01	0.01		0.10	0.10		0.002	0.002		0.03	0.03		2	2		3		240	240	
15/1/2024	9:50	Fine	Surface	1.0	3	3	4	0.14	0.14	0.13	0.01	0.01	0.01	0.19	0.19	0.17	0.005	0.005	0.005	0.036	0.036	0.04	2	2	1	4	4	42	42	52
			Middle																											
	9:54		Bottom	4.9	4	4		0.11	0.11		0.01	0.01		0.15	0.15		0.004	0.004		0.035	0.035		1	1		4		61	61	
17/1/2024	11:21	Cloudy	Surface	1.0	3	3	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.001	0.001	0.001	0.024	0.024	0.02	2	2	2	4	4	2	2	1
			Middle																											
	11:25		Bottom	4.9	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.024	0.024		2	2		4		0	0	
19/1/2024	12:57	Fine	Surface	1.0	3	3	3	0.16	0.16	0.15	0.01	0.01	0.01	0.21	0.21	0.20	0.009	0.009	0.007	0.049	0.049	0.05	2	2	2	5	5	61	61	58
			Middle																											
	13:01		Bottom	4.8	3	3		0.14	0.14		<0.005	<0.005		0.19	0.19		0.005	0.005		0.048	0.048		2	2		4		55	55	

Water Monitoring Result at G1* -Gradient Station

Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth m		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	11:26	Cloudy	Surface	1.0	4	4	5	0.16	0.16	0.15	<0.005	<0.005	<0.005	0.18	0.18	0.16	0.100	0.100	0.115	0.011	0.011	0.01	2	2	2	1	1	7	7	6
			Middle																											
	11:30		Bottom	4.6	5	5		0.13	0.13		<0.005	<0.005		0.14	0.14		0.130	0.130		0.010	0.010		2	2		0		5	5	
30/11/2023	13:53	Cloudy	Surface	1.0	3	3	3	0.61	0.61	0.62	0.01	0.01	0.01	0.68	0.68	0.69	0.154	0.154	0.119	0.058	0.058	0.06	2	2	2	3	3	56	56	53
			Middle																											
	13:54		Bottom	4.8	3	3		0.63	0.63		0.01	0.01		0.70	0.70		0.084	0.084		0.059	0.059		2	2		2		50	50	
1/12/2023	16:12	Fine	Surface	1.0	4	4	4	0.05	0.05	0.05	<0.005	<0.005	0.01	0.06	0.06	0.06	0.011	0.011	0.012	0.01	0.01	0.01	4	4	3	7	6	540	540	515
			Middle																											
	16:16		Bottom	4.7	4	4		0.05	0.05		0.01	0.01		0.06	0.06		0.012	0.012		0.007	0.007		3	3		6		490	490	
4/12/2023	15:40	Fine	Surface	1.0	6	6	6	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.08	0.08	0.07	0.012	0.012	0.008	0.021	0.021	0.02	3	3	3	0	0	6	6	5
			Middle																											
	15:44		Bottom	4.7	5	5		0.04	0.04		<0.005	<0.005		0.07	0.07		0.004	0.004		0.022	0.022		3	3		0		3	3	
6/12/2023	6:11	Cloudy	Surface	1.0	4	4	5	0.35	0.35	0.31	0.01	0.01	0.01	0.38	0.38	0.34	0.100	0.100	0.071	0.022	0.022	0.02	1	1	3	4	3	160	160	180
			Middle																											
	6:15		Bottom	4.7	5	5		0.27	0.27		<0.005	<0.005		0.30	0.30		0.042	0.042		0.023	0.023		4	4		3		200	200	
8/12/2023	7:13	Fine	Surface	1.0	3	3	3	0.06	0.06	0.05	<0.005	<0.005	<0.005	0.09	0.09	0.08	0.022	0.022	0.017	0.027	0.027	0.03	1	1	1	2	3	21	21	19
			Middle																											
	7:17		Bottom	4.7	3	3		0.04	0.04		<0.005	<0.005		0.07	0.07		0.012	0.012		0.026	0.026		1	1		3		17	17	
11/12/2023	11:58	Cloudy	Surface	1.0	3	3	3	0.08	0.08	0.08	<0.005	<0.005	<0.005	0.09	0.09	0.10	0.021	0.021	0.021	0.013	0.013	0.02	1	1	1	4	4	10	10	8
			Middle																											
	12:02		Bottom	4.6	3	3		0.08	0.08		<0.005	<0.005		0.10	0.10		0.021	0.021		0.02	0.02		<1	<1		4		6	6	
13/12/2023	10:32	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.001	0.001	0.002	0.022	0.022	0.02	2	2	2	4	5	10	10	15
			Middle																											
	10:36		Bottom	4.6	3	3		0.03	0.03		0.01	0.01		0.05	0.05		0.002	0.002		0.018	0.018		2	2		6		19	19	
15/12/2023	12:12	Fine	Surface	1.0	3	3	3	0.07	0.07	0.13	<0.005	<0.005	<0.005	0.09	0.09	0.16	0.005	0.005	0.006	0.016	0.016	0.02	1	1	1	9	8	11	11	16
			Middle																											
	12:16		Bottom	4.7	3	3		0.19	0.19		<0.005	<0.005		0.23	0.23		0.007	0.007		0.033	0.033		2	2		6		20	20	
18/12/2023	13:53	Cloudy	Surface	1.0	4	4	4	0.07	0.07	0.07	0.01	0.01	0.01	0.11	0.11	0.11	0.003	0.003	0.003	0.028	0.028	0.03	<1	<1	<1	4	4	4	4	4
			Middle																											
	13:57		Bottom	4.6	4	4		0.07	0.07		0.01	0.01		0.11	0.11		0.003	0.003		0.028	0.028		<1	<1		4		3	3	
20/12/2023	6:59	Cloudy	Surface	1.0	3	3	3	0.01	0.01	0.03	0.01	0.01	0.01	0.04	0.04	0.05	<0.001	<0.001	0.002	0.017	0.017	0.02	1	1	1	2	2	3	3	3
			Middle																											
	7:03		Bottom	4.8	3	3		0.05	0.05		0.01	0.01		0.07	0.07		0.002	0.002		0.014	0.014		1	1		3		2	2	
22/12/2023	6:49	Cloudy	Surface	1.0	4	4	4	0.09	0.09	0.14	0.01	0.01	0.01	0.11	0.11	0.17	0.002	0.002	0.004	0.012	0.012	0.02	2	2	2	3	4	8	8	5
			Middle																											
	6:53		Bottom	4.8	4	4		0.19	0.19		0.01	0.01		0.22	0.22		0.005	0.005		0.021	0.021		2	2		5		2	2	
26/12/2023	10:22	Cloudy	Surface	1.0	3	3	3	<0.01	<0.01	0.03	0.01	0.01	0.01	0.02	0.02	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	2	2	2	3	3	10	10	13
			Middle																											
	10:26		Bottom	4.7	3	3		0.03	0.03		0.01	0.01		0.04	0.04		<0.001	<0.001		<0.005	<0.005		2	2		3		16	16	
28/12/2023	8:28	Fine	Surface	1.0	5	5	5	0.08	0.08	0.09	0.01	0.01	0.01	0.12	0.12	0.13	0.003	0.003	0.003	0.032	0.032	0.03	1	1	1	2	2	660	660	705
			Middle																											
	8:32		Bottom	4.9	5	5		0.10	0.10		0.01	0.01		0.13	0.13		0.003	0.003		0.03	0.03		<1	<1		2		750	750	
30/12/2023	13:55	Fine	Surface	1.0	3	3	3	0.16	0.16	0.16	0.01	0.01	0.01	0.18	0.18	0.18	0.007	0.007	0.007	0.017	0.017	0.02	1	1	1	3	2	140	140	145
			Middle																											
	13:59		Bottom	4.8	3	3		0.16	0.16		0.01	0.01		0.18	0.18		0.006	0.006		0.017	0.017		1	1		2		150	150	
2/1/2024	6:13	Fine	Surface	1.0	3	3	4	0.05	0.05	0.07	0.01	0.01	0.01	0.07	0.07	0.10	0.002	0.002	0.004	0.022	0.022	0.02	2	2	2	2	2	0	0	1
			Middle																											
	6:17		Bottom	4.6	4	4		0.09	0.09		0.01	0.01		0.13	0.13		0.005	0.005		0.025	0.025		1	1		3		2	2	
4/1/2024	17:13	Fine	Surface	1.0	3	3	4	0.13	0.13	0.10	<0.005	<0.005	<0.005	0.15	0.15	0.12	0.005	0.005	0.004	0.024	0.024	0.02	2	2	1	2	2	1	1	7
			Middle																											
	17:17		Bottom	4.7	4	4		0.06	0.06		<0.005	<0.005		0.08	0.08		0.003	0.003		0.017	0.017		1	1		2		12	12	
6/1/2024	7:47	Fine	Surface	1.0	3	3	3	0.03	0.03	0.04	0.01	0.01	0.01	0.05	0.05	0.05	0.001	0.001	0.001	0.008	0.008	0.01	1	1	1	3	3	56	56	93
			Middle																											
	7:51		Bottom	4.9	3	3		0.04	0.04		0.01	0.01		0.06	0.06		0.001	0.001		0.014	0.014		1	1		3		130	130	
8/1/2024	8:28	Fine	Surface	1.0	4	4	4	0.05	0.05	0.05	<0.005	<0.005	0.01	0.07	0.07	0.07	0.002	0.002	0.002	0.018	0.018	0.02	2	2	2	1	1	22	22	20
			Middle																											
	8:32		Bottom	4.6	3	3		0.04	0.04		0.01	0.01		0.07	0.07		0.002	0.002		0.025	0.025		2	2		2		18	18	
10/1/2024	9:58	Fine	Surface	1.0	4	4	4	0.13	0.13	0.13	0.01	0.01	0.01	0.20	0.20	0.19	0.007	0.007	0.007	0.065	0.065	0.06	2	2	2	4	4	290	290	265
			Middle																											
	10:02		Bottom	4.8	4	4		0.12	0.12		0.01	0.01		0.18	0.18		0.006	0.006		0.063	0.063		2	2		4		240	240	
12/1/2024	12:53	Fine	Surface	1.0	3	3	3	0.04	0.04	0.08	<0.005	<0.005	<0.005	0.06	0.06	0.12	0.002	0.002	0.003	0.013	0.013	0.04	2	2	2	1	2	300	300	270
			Middle																											
	12:57		Bottom	4.9	3	3		0.11	0.11		<0.005	<0.005		0.17	0.17		0.004	0.004		0.058	0.058		2	2		2		240	240	
15/1/2024	15:25	Fine	Surface	1.0	4	4	4	0.16	0.16	0.17	0.01	0.01	0.01	0.20	0.20	0.21	0.007	0.007	0.007	0.033	0.033	0.03	2	2	2	3	3	29	29	37
			Middle																											
	15:29		Bottom	4.8	4	4		0.17	0.17		0.01	0.01		0.21	0.21		0.006	0.006		0.036	0.036		2	2		3		44	44	
17/1/2024	17:23	Cloudy	Surface	1.0	4	4	4	0.05	0.05	0.06	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.003	0.003	0.003	0.014	0.014	0.01	2	2	2	4	4	0	0	1
			Middle																											
	17:27		Bottom	4.8	4	4		0.07	0.07		<0.005	<0.005		0.08	0.08		0.003	0.003		0.006	0.006		1	1		5		2	2	
19/1/2024	7:30	Fine	Surface	1.0	3	3	3	0.04	0.04	0.07	0.01	0.01	0.01	0.08	0.08	0.11	0.002	0.002	0.003	0.031	0.031	0.04	2	2	2	5	5	65	65	68
			Middle																											
	7:34		Bottom	4.7	3	3		0.10	0.10		0.01	0.01		0.15	0.15		0.004	0.004		0.043	0.043		2	2		5		71	71	

Water Monitoring Result at C1* - Pak Sha Tau Corals

Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	7:20	Cloudy	Surface	1.0	4	4	5	0.13	0.13	0.15	<0.005	<0.005	<0.005	0.15	0.15	0.16	0.011	0.011	0.012	0.012	0.012	0.01	1	1	2	1	1	0	0	0
	7:22		Middle	3.4	5	5		0.17	0.17		<0.005	<0.005		0.18	0.18		0.012	0.012		0.010	0.010		1	1		0		0	0	
	7:24		Bottom	5.7	5	5		0.14	0.14		<0.005	<0.005		0.16	0.16		0.012	0.012		0.007	0.007		3	3		1		0	0	
30/11/2023	9:10	Cloudy	Surface	1.0	4	4	4	0.08	0.08	0.09	<0.005	<0.005	0.01	0.09	0.09	0.10	0.007	0.007	0.008	0.011	0.011	0.01	2	2	2	2	2	5	5	5
	9:12		Middle	3.4	4	4		0.08	0.08		0.01	0.01		0.10	0.10		0.008	0.008		0.017	0.017		2	2		2		6	6	
	9:14		Bottom	5.8	3	3		0.10	0.10		<0.005	<0.005		0.11	0.11		0.009	0.009		0.007	0.007		2	2		3		4	4	
1/12/2023	10:23	Fine	Surface	1.0	3	3	3	0.09	0.09	0.06	<0.005	<0.005	0.01	0.11	0.11	0.08	0.015	0.015	0.009	0.013	0.013	0.01	1	1	2	2	1	0	0	1
	10:25		Middle	3.4	4	4		0.07	0.07		0.01	0.01		0.09	0.09		0.010	0.010		0.012	0.012		1	1		1		0	0	
	10:27		Bottom	5.7	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.003	0.003		0.008	0.008		3	3		1		2	2	
4/12/2023	9:29	Fine	Surface	1.0	5	5	5	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.003	0.003	0.002	0.013	0.013	0.02	1	1	1	0	0	0	0	0
	9:31		Middle	3.4	6	6		0.02	0.02		<0.005	<0.005		0.04	0.04		0.002	0.002		0.02	0.02		2	2		0		0	0	
	9:33		Bottom	5.7	5	5		0.03	0.03		<0.005	<0.005		0.04	0.04		0.002	0.002		0.013	0.013		2	2		0		0	0	
6/12/2023	14:37	Cloudy	Surface	1.0	4	4	4	0.02	0.02	0.02	0.01	0.01	0.01	0.05	0.05	0.03	0.003	0.003	0.002	0.016	0.016	0.02	4	4	2	2	2	1	1	0
	14:39		Middle	3.5	4	4		0.01	0.01		<0.005	<0.005		0.02	0.02		0.002	0.002		<0.005	<0.005		1	1		2		0	0	
	14:41		Bottom	6.0	4	4		<0.01	<0.01		<0.005	<0.005		0.02	0.02		0.001	0.001		<0.005	<0.005		1	1		2		0	0	
8/12/2023	15:42	Fine	Surface	1.0	3	3	3	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.08	0.08	0.08	0.011	0.011	0.010	0.01	0.01	0.01	1	1	1	2	2	1	1	0
	15:44		Middle	3.4	4	4		0.08	0.08		<0.005	<0.005		0.09	0.09		0.012	0.012		0.014	0.014		1	1		2		0	0	
	15:46		Bottom	5.7	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.008	0.008		0.018	0.018		1	1		2		0	0	
11/12/2023	7:36	Cloudy	Surface	1.0	15	15	11	0.07	0.07	0.09	<0.005	<0.005	<0.005	0.08	0.08	0.10	0.009	0.009	0.013	0.007	0.007	0.01	<1	<1	<1	2	2	0	0	0
	7:38		Middle	3.4	15	15		0.14	0.14		<0.005	<0.005		0.16	0.16		0.022	0.022		0.016	0.016		<1	<1		2		0	0	
	7:40		Bottom	5.7	3	3		0.05	0.05		<0.005	<0.005		0.06	0.06		0.008	0.008		0.006	0.006		<1	<1		3		0	0	
13/12/2023	8:36	Cloudy	Surface	1.0	4	4	4	0.06	0.06	0.03	0.01	0.01	0.01	0.15	0.15	0.07	0.004	0.004	0.002	0.079	0.079	0.04	1	1	1	2	3	1	1	0
	8:38		Middle	3.5	4	4		0.01	0.01		0.01	0.01		0.03	0.03		0.001	0.001		0.012	0.012		1	1		3		0	0	
	8:40		Bottom	6.0	3	3		0.02	0.02		0.01	0.01		0.04	0.04		0.002	0.002		0.014	0.014		2	2		3		0	0	
15/12/2023	10:51	Fine	Surface	1.0	4	4	4	0.14	0.14	0.14	<0.005	<0.005	<0.005	0.16	0.16	0.17	0.009	0.009	0.009	0.017	0.017	0.02	<1	<1	<1	5	5	0	0	0
	10:53		Middle	3.4	4	4		0.17	0.17		<0.005	<0.005		0.20	0.20		0.010	0.010		0.025	0.025		<1	<1		6		0	0	
	10:55		Bottom	5.7	4	4		0.12	0.12		<0.005	<0.005		0.14	0.14		0.007	0.007		0.016	0.016		<1	<1		6		0	0	
18/12/2023	11:36	Cloudy	Surface	1.0	5	5	4	0.03	0.03	0.04	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.002	0.002	0.002	<0.005	<0.005	0.01	1	1	1	3	4	0	0	0
	11:38		Middle	3.4	4	4		0.05	0.05		<0.005	<0.005		0.07	0.07		0.003	0.003		0.014	0.014		1	1		4		0	0	
	11:40		Bottom	5.7	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.008	0.008		1	1		4		0	0	
20/12/2023	14:57	Cloudy	Surface	1.0	5	5	4	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.007	0.007	0.01	<1	<1	1	5	5	4	4	5
	14:59		Middle	3.5	5	5		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.012	0.012		<1	<1		6		1	1	
	15:01		Bottom	5.9	3	3		<0.01	<0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		0.009	0.009		1	1		6		9	9	
22/12/2023	15:41	Cloudy	Surface	1.0	5	5	4	0.11	0.11	0.09	0.01	0.01	0.01	0.13	0.13	0.11	0.004	0.004	0.003	0.013	0.013	0.01	1	1	1	5	5	0	0	1
	15:43		Middle	3.4	4	4		0.09	0.09		0.01	0.01		0.12	0.12		0.003	0.003		0.016	0.016		1	1		6		1	1	
	15:45		Bottom	5.7	4	4		0.07	0.07		0.01	0.01		0.09	0.09		0.003	0.003		0.006	0.006		1	1		5		1	1	
26/12/2023	7:27	Cloudy	Surface	1.0	3	3	3	<0.01	<0.01	<0.01	<0.005	<0.005	0.01	0.04	0.04	0.04	<0.001	<0.001	<0.001	0.025	0.025	0.03	1	1	1	4	4	1	1	1
	7:29		Middle	3.3	3	3		<0.01	<0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.026	0.026		1	1		5		1	1	
	7:31		Bottom	5.7	3	3		<0.01	<0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.024	0.024		1	1		3		1	1	
28/12/2023	14:35	Fine	Surface	1.0	4	4	3	0.05	0.05	0.04	0.01	0.01	0.01	0.07	0.07	0.06	0.002	0.002	0.002	0.013	0.013	0.01	1	1	1	6	4	0	0	0
	14:37		Middle	3.5	3	3		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.015	0.015		<1	<1		3		0	0	
	14:39		Bottom	5.9	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.006	0.006		<1	<1		2		0	0	
30/12/2023	11:08	Fine	Surface	1.0	3	3	3	0.11	0.11	0.10	<0.005	<0.005	0.01	0.13	0.13	0.12	0.004	0.004	0.003	0.015	0.015	0.01	1	1	2	1	2	0	0	0
	11:10		Middle	3.4	3	3		0.09	0.09		0.01	0.01		0.11	0.11		0.003	0.003		0.014	0.014		2	2		3		1	1	
	11:12		Bottom	5.7	3	3		0.09	0.09		<0.005	<0.005		0.11	0.11		0.003	0.003		0.014	0.014		2	2		3		0	0	
2/1/2024	15:22	Fine	Surface	1.0	3	3	3	<0.01	<0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.03	<0.001	<0.001	<0.001	0.009	0.009	0.01	1	1	2	3	2	0	0	0
	15:24		Middle	3.5	3	3		0.01	0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.007	0.007		1	1		2		0	0	
	15:26		Bottom	6.0	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.015	0.015		2	2		2		0	0	
4/1/2024	13:08	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.04	<0.001	<0.001	<0.001	0.012	0.012	0.02	<1	<1	2	2	2	0	0	0
	13:10		Middle	3.6	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.017	0.017		1	1		2		0	0	
	13:12		Bottom	6.2	3	3		0.01	0.01		<0.005	<0.005		0.04	0.04		<0.001	<0.001		0.018	0.018		2	2		1		0	0	
6/1/2024	15:51	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	0.01	1	1	1	4	4	0	0	0
	15:53		Middle	3.8	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.005	0.005		1	1		4		0	0	
	15:55		Bottom	6.6	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.005	0.005		1	1		4		0	0	
8/1/2024	15:24	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	0.001	0.008	0.008	0.01	2	2	2	1	1	0	0	0
	15:26		Middle	3.5	4	4		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		1		0	0	
	15:28		Bottom	6.0	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.008	0.008		2	2		1		0	0	
10/1/2024	16:13	Fine	Surface	1.0	3	3	4	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	<0.001	<0.001	0.001	0.009	0.009	0.01	2	2	2	1	1	0	0	1
	16:15		Middle	3.7	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		0.001	0.001		0.009	0.009		2	2		1		0	0	
	16:17		Bottom	6.4	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.012	0.012		2	2		2		3	3	
12/1/2024	20:30	Fine	Surface	1.0	3	3	3	0.04	0.04	0.03	0.01	0.01	0.01	0.07	0.07	0.05	0.002	0.002	0.001	0.02	0.02	0.01	2	2	2	4	5	0	0	0
	20:32		Middle	3.5	4	4		0.03	0.03		0.01	0.01		0.04	0.04		0.001	0.001		0.008	0.008		2	2		4		0	0	
	20:34		Bottom	6.0	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		7		0	0	
15/1/2024	11:44	Fine	Surface	1.0	4	4	3	0.03	0.03	0.05	<0.005	<0.005	<0.005	0.04	0.04	0.06	0.001	0.001	0.003	0.013	0.013	0.02	2	2	2	3	3	11	11	11
	11:46		Middle	3.6	3	3		0.09	0.09		<0.005	<0.005		0.11	0.11		0.005	0.005		0.023	0.023		2	2		3		13	13	
	11:48		Bottom	6.2	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.012	0.012		2	2		3		9	9	
17/1/2024	12:12	Cloudy	Surface	1.0	3	3	4	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.016	0.016	0.01	1	1	2	3	2	0	0	0
	12:14		Middle	3.7	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.011	0.011		2	2		2		0	0	
	12:16		Bottom	6.4	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.015	0.015		2	2		2		1	1	
19/1/2024	14:51	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.001	0.001	0.001	0.015	0.015	0.01	2	2	2	3	3	0	0	0
	14:53		Middle	3.7	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.001	0.001		0.014	0.014		2	2		3		0	0	
	14:55		Bottom	6.4	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.014	0.014		2	2		3		0	0	

Water Monitoring Result at C1* - Pak Sha Tau Corals

Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
			m		Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	13:21	Cloudy	Surface	1.0	4	4	4	0.12	0.12	0.10	<0.005	<0.005	<0.005	0.13	0.13	0.11	0.011	0.011	0.010	0.011	0.011	0.01	2	2	2	1	1	0	0	0
	13:23		Middle	3.3	3	3		0.09	0.09		<0.005	<0.005		0.10	0.10		0.009	0.009		0.009	0.009		2	2		1		0	0	
	13:25		Bottom	5.5	5	5		0.09	0.09		<0.005	<0.005		0.10	0.10		0.009	0.009		0.009	0.009		2	2		1		0	0	
30/11/2023	12:00	Cloudy	Surface	1.0	3	3	3	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.10	0.10	0.10	0.007	0.007	0.007	0.02	0.02	0.02	2	2	2	2	3	13	13	9
	12:02		Middle	3.4	3	3		0.06	0.06		<0.005	<0.005		0.08	0.08		0.006	0.006		0.013	0.013		2	2		2		10	10	
	12:04		Bottom	5.7	3	3		0.08	0.08		<0.005	<0.005		0.11	0.11		0.007	0.007		0.029	0.029		2	2		4		4	4	
1/12/2023	14:10	Fine	Surface	1.0	3	3	3	0.02	0.02	0.04	<0.005	<0.005	<0.005	0.03	0.03	0.05	0.003	0.003	0.005	0.005	0.005	0.01	2	2	2	4	3	0	0	0
	14:12		Middle	3.3	3	3		0.07	0.07		<0.005	<0.005		0.08	0.08		0.009	0.009		0.007	0.007		2	2		2		0	0	
	14:14		Bottom	5.5	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		0.002	0.002		0.005	0.005		2	2		2		1	1	
4/12/2023	17:47	Fine	Surface	1.0	4	4	4	0.02	0.02	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.002	0.002	0.002	0.011	0.011	0.01	1	1	1	0	0	1	1	0
	17:49		Middle	3.3	4	4		0.01	0.01		<0.005	<0.005		0.02	0.02		0.001	0.001		0.008	0.008		1	1		0		0	0	
	17:51		Bottom	5.6	5	5		0.01	0.01		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.011	0.011		1	1		1		0	0	
6/12/2023	8:03	Cloudy	Surface	1.0	4	4	4	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.04	0.002	0.002	0.002	0.008	0.008	0.01	4	4	2	3	2	2	2	2
	8:05		Middle	3.3	5	5		0.03	0.03		<0.005	<0.005		0.04	0.04		0.003	0.003		0.012	0.012		2	2		2		3	3	
	8:07		Bottom	5.6	4	4		0.01	0.01		<0.005	<0.005		0.04	0.04		0.002	0.002		0.016	0.016		1	1		2		2	2	
8/12/2023	9:06	Fine	Surface	1.0	3	3	3	0.01	0.01	0.02	<0.005	<0.005	<0.005	0.02	0.02	0.03	0.003	0.003	0.003	<0.005	<0.005	0.01	<1	<1	1	2	2	0	0	0
	9:08		Middle	3.3	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.005	0.005		0.017	0.017		1	1		3		0	0	
	9:10		Bottom	5.5	3	3		0.01	0.01		<0.005	<0.005		0.02	0.02		0.002	0.002		0.007	0.007		<1	<1		2		0	0	
11/12/2023	10:08	Cloudy	Surface	1.0	3	3	3	0.06	0.06	0.10	<0.005	<0.005	<0.005	0.07	0.07	0.12	0.009	0.009	0.015	0.008	0.008	0.01	<1	<1	<1	1	2	0	0	0
	10:10		Middle	3.3	3	3		0.06	0.06		<0.005	<0.005		0.07	0.07		0.008	0.008		0.007	0.007		<1	<1		1		0	0	
	10:12		Bottom	5.5	3	3		0.19	0.19		<0.005	<0.005		0.21	0.21		0.029	0.029		0.017	0.017		<1	<1		2		0	0	
13/12/2023	12:26	Cloudy	Surface	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.05	0.002	0.002	0.002	0.008	0.008	0.01	<1	<1	<1	3	3	1	1	1
	12:28		Middle	3.3	3	3		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.013	0.013		<1	<1		2		2	2	
	12:30		Bottom	5.5	4	4		0.03	0.03		<0.005	<0.005		0.05	0.05		0.002	0.002		0.014	0.014		<1	<1		3		1	1	
15/12/2023	15:22	Fine	Surface	1.0	3	3	3	0.08	0.08	0.10	<0.005	<0.005	<0.005	0.10	0.10	0.12	0.005	0.005	0.006	0.01	0.01	0.01	<1	<1	<1	6	4	0	0	0
	15:24		Middle	3.2	3	3		0.10	0.10		<0.005	<0.005		0.11	0.11		0.006	0.006		0.011	0.011		<1	<1		5		0	0	
	15:26		Bottom	5.4	3	3		0.13	0.13		<0.005	<0.005		0.15	0.15		0.007	0.007		0.015	0.015		<1	<1		2		0	0	
18/12/2023	15:51	Cloudy	Surface	1.0	4	4	4	0.05	0.05	0.05	<0.005	<0.005	0.01	0.07	0.07	0.07	0.003	0.003	0.003	0.012	0.012	0.01	1	1	1	5	4	0	0	0
	15:53		Middle	3.3	5	5		0.06	0.06		<0.005	<0.005		0.08	0.08		0.003	0.003		0.019	0.019		<1	<1		4		0	0	
	15:55		Bottom	5.5	4	4		0.04	0.04		0.01	0.01		0.06	0.06		0.003	0.003		0.01	0.01		1	1		5		0	0	
20/12/2023	8:57	Cloudy	Surface	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.05	0.05	0.04	<0.001	<0.001	<0.001	0.019	0.019	0.01	1	1	1	3	4	1	1	1
	8:59		Middle	3.4	4	4		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.009	0.009		1	1		5		0	0	
	9:01		Bottom	5.7	3	3		0.02	0.02		0.01	0.01		0.04	0.04		<0.001	<0.001		0.013	0.013		1	1		3		2	2	
22/12/2023	9:33	Cloudy	Surface	1.0	6	6	5	0.08	0.08	0.10	0.01	0.01	0.01	0.10	0.10	0.11	0.003	0.003	0.003	0.008	0.008	0.01	2	2	2	3	4	1	1	1
	9:35		Middle	3.4	4	4		0.10	0.10		0.01	0.01		0.11	0.11		0.003	0.003		0.008	0.008		2	2		5		1	1	
	9:37		Bottom	5.7	5	5		0.11	0.11		0.01	0.01		0.13	0.13		0.004	0.004		0.011	0.011		2	2		5		1	1	
26/12/2023	12:26	Cloudy	Surface	1.0	3	3	3	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.04	0.04	0.03	<0.001	<0.001	<0.001	0.029	0.029	0.02	2	2	2	5	4	0	0	0
	12:28		Middle	3.4	3	3		<0.01	<0.01		<0.005	<0.005		0.02	0.02		<0.001	<0.001		0.009	0.009		2	2		3		0	0	
	12:30		Bottom	5.7	3	3		<0.01	<0.01		0.01	0.01		0.03	0.03		<0.001	<0.001		0.026	0.026		2	2		5		0	0	
28/12/2023	10:23	Fine	Surface	1.0	5	5	4	0.04	0.04	0.03	<0.005	<0.005	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.011	0.011	0.01	<1	<1	<1	2	2	0	0	0
	10:25		Middle	3.4	4	4		0.03	0.03		0.01	0.01		0.04	0.04		<0.001	<0.001		0.007	0.007		<1	<1		3		0	0	
	10:27		Bottom	5.7	4	4		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.006	0.006		<1	<1		1		0	0	
30/12/2023	15:49	Fine	Surface	1.0	3	3	3	0.02	0.02	0.06	<0.005	<0.005	<0.005	0.03	0.03	0.08	<0.001	<0.001	0.004	<0.005	<0.005	0.01	1	1	2	2	2	0	0	0
	15:51		Middle	3.7	3	3		0.10	0.10		<0.005	<0.005		0.12	0.12		0.004	0.004		0.01	0.01		2	2		2		1	1	
	15:53		Bottom	6.5	3	3		0.07	0.07		<0.005	<0.005		0.09	0.09		0.003	0.003		0.007	0.007		2	2		3		0	0	
2/1/2024	8:10	Fine	Surface	1.0	3	3	3	0.04	0.04	0.04	0.01	0.01	0.01	0.05	0.05	0.03	0.001	0.001	0.001	0.01	0.01	0.01	1	1	1	1	1	1	1	0
	8:12		Middle	3.5	3	3		<0.01	<0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		<0.005	<0.005		1	1		1		0	0	
	8:14		Bottom	6.0	3	3		<0.01	<0.01		0.01	0.01		0.02	0.02		<0.001	<0.001		<0.005	<0.005		2	2		1		0	0	
4/1/2024	17:08	Fine	Surface	1.0	4	4	4	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.001	0.001	0.002	0.015	0.015	0.01	1	1	1	2	2	0	0	0
	17:10		Middle	3.5	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.014	0.014		1	1		1		0	0	
	17:12		Bottom	6.0	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.009	0.009		1	1		2		0	0	
6/1/2024	9:41	Fine	Surface	1.0	3	3	3	<0.01	<0.01	0.02	<0.005	<0.005	0.01	0.02	0.02	0.03	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	1	1	1	5	4	0	0	0
	9:43		Middle	3.4	3	3		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		4		0	0	
	9:45		Bottom	5.7	3	3		0.02	0.02		0.01	0.01		0.03	0.03		<0.001	<0.001		<0.005	<0.005		1	1		3		0	0	
8/1/2024	10:12	Fine	Surface	1.0	3	3	3	0.02	0.02	0.03	<0.005	<0.005	0.01	0.03	0.03	0.05	<0.001	<0.001	0.002	<0.005	<0.005	0.01	2	2	2	1	1	0	0	0
	10:14		Middle	3.5	3	3		0.05	0.05		0.01	0.01		0.07	0.07		0.002	0.002		0.013	0.013		1	1		0		0	0	
	10:16		Bottom	6.0	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		1		0	0	
10/1/2024	11:52	Fine	Surface	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	0.001	0.006	0.006	0.01	2	2	2	1	1	0	0	0
	11:54		Middle	3.5	3	3		0.03	0.03		<0.005	<0.005		0.04	0.04		0.001	0.001		0.009	0.009		2	2		1		0	0	
	11:56		Bottom	6.0	4	4		0.02	0.02		<0.005	<0.005		0.03	0.03		0.001	0.001		<0.005	<0.005		2	2		0		0	0	
12/1/2024	14:48	Fine	Surface	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.002	0.002	0.002	0.018	0.018	0.02	2	2	2	2	1	0	0	0
	14:50		Middle	3.5	4	4		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.013	0.013		2	2		1		0	0	
	14:52		Bottom	5.9	4	4		0.04	0.04		<0.005	<0.005		0.06	0.06		0.002	0.002		0.015	0.015		2	2		1		0	0	
15/1/2024	17:20	Fine	Surface	1.0	3	3	3	0.06	0.06	0.05	<0.005	<0.005	<0.005	0.09	0.09	0.07	0.004	0.004	0.003	0.02	0.02	0.02	2	2	2	2	3	8	8	7
	17:22		Middle	3.5	3	3		0.05	0.05		<0.005	<0.005		0.07	0.07		0.002	0.002		0.014	0.014		2	2		3		5	5	
	17:24		Bottom	6.0	3	3		0.04	0.04		<0.005	<0.005		0.05	0.05		0.002	0.002		0.012	0.012		2	2		3		8	8	
17/1/2024	19:18	Cloudy	Surface	1.0	3	3	3	0.08	0.08	0.07	<0.005	<0.005	<0.005	0.09	0.09	0.09	0.004	0.004	0.004	0.01	0.01	0.02	1	1	1	0	0	0	0	0
	19:20		Middle	3.4	3	3		0.08	0.08		<0.005	<0.005		0.10	0.10		0.004	0.004		0.016	0.016		1	1		0		0	0	
	19:22		Bottom	5.8	3	3		0.06	0.06		<0.005	<0.005		0.09	0.09		0.003	0.003		0.021	0.021		2	2		0		0	0	
19/1/2024	9:24	Fine	Surface	1.0	3	3	3	0.04	0.04	0.03	<0.005	<0.005	<0.005	0.05	0.05	0.04	0.002	0.002	0.002	0.008	0.008	0.01	2	2	2	5	4	0	0	0
	9:26		Middle	3.5	3	3		0.02	0.02		<0.005	<0.005		0.04	0.04		0.001	0.001		0.008	0.008		2	2		4		0	0	
	9:28		Bottom	6.0	3	3		0.02	0.02		<0.005	<0.005		0.03	0.03		<0.001	<0.001		0.009	0.009		2	2		4		0	0	

Water Monitoring Result at TPLMB - Tai Po Lung Mei Beach
Mid-Flood Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids mg/L			Ammonia Nitrogen mg/L			Nitrite-nitrogen mg/L			Total Inorganic Nitrogen mg/L			Unionized Ammonia mg/L			Nitrate-nitrogen mg/L			BOD mg/L			Chlorophyll-a mg/m³		E. coli CFU/100mL		
			m		Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	Average	Value	V*	Average
29/11/2023	7:00	Cloudy	Surface																											
			Middle	1.0	5	5	5	0.17	0.17	0.17	<0.005	<0.005	<0.005	0.25	0.25	0.25	0.010	0.010	0.010	0.074	0.074	0.07	2	2	2	0	0	7	7	7
			Bottom																											
30/11/2023	8:53	Cloudy	Surface																											
			Middle	1.0	4	4	4	0.08	0.08	0.08	<0.005	<0.005	<0.005	0.10	0.10	0.10	0.008	0.008	0.008	0.017	0.017	0.02	1	1	1	1	1	1	1	1
			Bottom																											
1/12/2023	10:00	Fine	Surface																											
			Middle	1.0	5	5	5	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.004	0.004	0.004	0.007	0.007	0.01	2	2	2	1	1	3	3	3
			Bottom																											
4/12/2023	9:05	Fine	Surface																											
			Middle	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.004	0.004	0.004	0.015	0.015	0.02	<1	<1	<1	0	0	1	1	1
			Bottom																											
6/12/2023	14:18	Cloudy	Surface																											
			Middle	1.0	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.04	0.003	0.003	0.003	0.011	0.011	0.01	1	1	1	3	3	0	0	0
			Bottom																											
8/12/2023	15:20	Fine	Surface																											
			Middle	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.005	0.005	0.005	0.02	0.02	0.02	<1	<1	<1	2	2	0	0	0
			Bottom																											
11/12/2023	7:18	Cloudy	Surface																											
			Middle	1.0	3	3	3	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.001	0.001	0.001	0.012	0.012	0.01	<1	<1	<1	2	2	1	1	1
			Bottom																											
13/12/2023	7:19	Cloudy	Surface																											
			Middle	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.06	0.06	0.06	0.002	0.002	0.002	0.019	0.019	0.02	1	1	1	3	3	22	22	22
			Bottom																											
15/12/2023	10:27	Fine	Surface																											
			Middle	1.0	4	4	4	0.13	0.13	0.13	<0.005	<0.005	<0.005	0.15	0.15	0.15	0.008	0.008	0.008	0.019	0..019	0.02	<1	<1	<1	3	3	0	0	0
			Bottom																											
18/12/2023	11:18	Cloudy	Surface																											
			Middle	1.0	5	5	5	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.10	0.10	0.10	0.002	0.002	0.002	0.061	0.061	0.06	<1	<1	<1	4	4	4	4	4
			Bottom																											
20/12/2023	14:38	Cloudy	Surface																											
			Middle	1.1	5	5	5	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.008	0.008	0.01	1	1	1	5	5	1	1	1
			Bottom																											
22/12/2023	15:18	Cloudy	Surface																											
			Middle	1.0	6	6	6	0.14	0.14	0.14	0.01	0.01	0.01	0.16	0.16	0.16	0.004	0.004	0.004	0.017	0.017	0.02	1	1	1	5	5	2	2	2
			Bottom																											
26/12/2023	7:05	Cloudy	Surface																											
			Middle	1.0	3	3	3	<0.01	<0.01	#DIV/0!	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	0.008	0.008	0.01	1	1	1	3	3	0	0	0
			Bottom																											
28/12/2023	14:16	Fine	Surface																											
			Middle	1.0	3	3	3	0.05	0.05	0.05	0.01	0.01	0.01	0.08	0.08	0.08	<0.001	<0.001	<0.001	0.022	0.022	0.02	<1	<1	<1	2	2	4	4	4
			Bottom																											
30/12/2023	10:49	Fine	Surface																											
			Middle	1.1	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.001	0.001	0.001	0.015	0.015	0.02	2	2	2	2	2	46	46	46
			Bottom																											
2/1/2024	15:03	Fine	Surface																											
			Middle	1.2	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.001	0.001	0.001	0.021	0.021	0.02	2	2	2	1	1	0	0	0
			Bottom																											
4/1/2024	12:49	Fine	Surface																											
			Middle	1.0	3	3	3	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.011	0.011	0.01	2	2	2	2	2	0	0	0
			Bottom																											
6/1/2024	15:33	Fine	Surface																											
			Middle	1.3	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.001	0.001	0.001	0.007	0.007	0.01	1	1	1	4	4	10	10	10
			Bottom																											
8/1/2024	15:06	Fine	Surface																											
			Middle	1.2	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.007	0.007	0.01	2	2	2	1	1	2	2	2
			Bottom																											
10/1/2024	15:55	Fine	Surface																											
			Middle	1.3	5	5	5	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.001	0.001	0.001	0.008	0.008	0.01	2	2	2	1	1	0	0	0
			Bottom																											
12/1/2024	20:11	Fine	Surface																											
			Middle	1.2	4	4	4	0.05	0.05	0.05	0.01	0.01	0.01	0.07	0.07	0.07	0.003	0.003	0.003	0.018	0.018	0.02	2	2	2	4	4	14	14	14
			Bottom																											
15/1/2024	11:26	Fine	Surface																											
			Middle	1.3	4	4	4	0.29	0.29	0.29	<0.005	<0.005	<0.005	0.32	0.32	0.32	0.017	0.017	0.017	0.026	0.026	0.03	2	2	2	3	3	5	5	5
			Bottom																											
17/1/2024	11:54	Cloudy	Surface																											
			Middle	1.3	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.001	0.001	0.001	0.009	0.009	0.01	2	2	2	3	3	0	0	0
			Bottom																											
19/1/2024	14:33	Fine	Surface																											
			Middle	1.2	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	0.002	0.002	0.002	0.014	0.014	0.01	2	2	2	3	3	1	1	1
			Bottom																											

Water Monitoring Result at TPLMB - Tai Po Lung Mei Beach
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Suspended Solids			Ammonia Nitrogen			Nitrite-nitrogen			Total Inorganic Nitrogen			Unionized Ammonia			Nitrate-nitrogen			BOD			Chlorophyll-a		E. coli		
			m		mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/m³		CFU/100mL		
					Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	V*	Average	Value	Average	Value	V*	Average
29/11/2023	13:02	Cloudy	Surface																										
			Middle	0.9	5	5	5	0.12	0.12	0.12	<0.005	<0.005	<0.005	0.14	0.14	0.14	0.009	0.009	0.009	0.010	0.010	0.01	1	1	1	1	1	7	7	7
			Bottom																										
30/11/2023	12:12	Cloudy	Surface																										
			Middle	0.9	3	3	3	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.10	0.10	0.10	0.008	0.008	0.008	0.021	0.021	0.02	2	2	2	2	2	2	2	2
			Bottom																										
1/12/2023	14:23	Fine	Surface																										
			Middle	0.4	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.04	0.04	0.04	0.004	0.004	0.004	0.007	0.007	0.01	2	2	2	1	1	1	1	1
			Bottom																										
4/12/2023	17:24	Fine	Surface																										
			Middle	1.0	3	3	3	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.004	0.004	0.004	0.012	0.012	0.01	1	1	1	0	0	0	0	0
			Bottom																										
6/12/2023	7:45	Cloudy	Surface																										
			Middle	1.0	4	4	4	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.002	0.002	0.002	0.007	0.007	0.01	2	2	2	2	2	0	0	0
			Bottom																										
8/12/2023	8:48	Fine	Surface																										
			Middle	0.8	4	4	4	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.004	0.004	0.004	<0.005	<0.005	<0.005	<1	<1	<1	2	2	0	0	0
			Bottom																										
11/12/2023	10:26	Cloudy	Surface																										
			Middle	1.0	3	3	3	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.003	0.003	0.003	0.008	0.008	0.01	<1	<1	<1	1	1	0	0	0
			Bottom																										
13/12/2023	12:06	Cloudy	Surface																										
			Middle	0.4	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.06	0.06	0.06	0.002	0.002	0.002	0.026	0.026	0.03	1	1	1	2	2	19	19	19
			Bottom																										
15/12/2023	14:59	Fine	Surface																										
			Middle	0.7	4	4	4	0.08	0.08	0.08	<0.005	<0.005	<0.005	0.10	0.10	0.10	0.006	0.006	0.006	0.013	0.013	0.01	<1	<1	<1	6	6	2	2	2
			Bottom																										
18/12/2023	15:33	Cloudy	Surface																										
			Middle	1.0	6	6	6	0.05	0.05	0.05	0.01	0.01	0.01	0.12	0.12	0.12	0.003	0.003	0.003	0.063	0.063	0.06	<1	<1	<1	5	5	2	2	2
			Bottom																										
20/12/2023	8:39	Cloudy	Surface																										
			Middle	1.0	3	3	3	0.01	0.01	0.01	0.01	0.01	0.01	0.08	0.08	0.08	<0.001	<0.001	<0.001	0.062	0.062	0.06	1	1	1	2	2	0	0	0
			Bottom																										
22/12/2023	9:13	Cloudy	Surface																										
			Middle	1.0	6	6	6	0.10	0.10	0.10	0.01	0.01	0.01	0.12	0.12	0.12	0.003	0.003	0.003	0.013	0.013	0.01	1	1	1	2	2	0	0	0
			Bottom																										
26/12/2023	12:09	Cloudy	Surface																										
			Middle	1.0	4	4	4	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	0.02	0.02	0.02	<0.001	<0.001	<0.001	0.008	0.008	0.01	2	2	2	14	14	1	1	1
			Bottom																										
28/12/2023	10:04	Fine	Surface																										
			Middle	1.0	5	5	5	0.04	0.04	0.04	0.01	0.01	0.01	0.06	0.06	0.06	0.001	0.001	0.001	0.016	0.016	0.02	<1	<1	<1	2	2	3	3	3
			Bottom																										
30/12/2023	15:31	Fine	Surface																										
			Middle	1.0	3	3	3	0.07	0.07	0.07	<0.005	<0.005	<0.005	0.10	0.10	0.10	0.003	0.003	0.003	0.019	0.019	0.02	2	2	2	5	5	56	56	56
			Bottom																										
2/1/2024	7:48	Fine	Surface																										
			Middle	1.0	3	3	3	0.03	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.05	<0.001	<0.001	<0.001	0.01	0.01	0.01	2	2	2	2	2	1	1	1
			Bottom																										
4/1/2024	16:50	Fine	Surface																										
			Middle	1.0	3	3	3	0.01	0.01	0.01	<0.005	<0.005	<0.005	0.03	0.03	0.03	<0.001	<0.001	<0.001	0.015	0.015	0.02	1	1	1	3	3	1	1	1
			Bottom																										
6/1/2024	9:22	Fine	Surface																										
			Middle	1.2	3	3	3	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.04	0.001	0.001	0.001	0.009	0.009	0.01	1	1	1	3	3	11	11	11
			Bottom																										
8/1/2024	9:54	Fine	Surface																										
			Middle	1.0	3	3	3	0.03	0.03	0.03	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.001	0.001	0.001	0.029	0.029	0.03	2	2	2	1	1	0	0	0
			Bottom																										
10/1/2024	11:34	Fine	Surface																										
			Middle	1.2	5	5	5	0.02	0.02	0.02	<0.005	<0.005	<0.005	0.03	0.03	0.03	0.002	0.002	0.002	0.005	0.005	0.01	2	2	2	3	3	0	0	0
			Bottom																										
12/1/2024	14:29	Fine	Surface																										
			Middle	1.0	3	3	3	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.06	0.06	0.06	0.002	0.002	0.002	0.009	0.009	0.01	2	2	2	2	2	6	6	6
			Bottom																										
15/1/2024	17:02	Fine	Surface																										
			Middle	1.0	4	4	4	0.04	0.04	0.04	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.002	0.002	0.002	0.021	0.021	0.02	2	2	2	3	3	30	30	30
			Bottom																										
17/1/2024	19:00	Cloudy	Surface																										
			Middle	1.1	3	3	3	0.05	0.05	0.05	<0.005	<0.005	<0.005	0.07	0.07	0.07	0.003	0.003	0.003	0.01	0.01	0.01	2	2	2	4	4	0	0	0
			Bottom																										
19/1/2024	9:06	Fine	Surface																										
			Middle	1.0	3	3	3	0.05	0.05	0.05	0.01	0.01	0.01	0.07	0.07	0.07	0.003	0.003	0.003	0.018	0.018	0.02	2	2	2	5	5	1	1	1
			Bottom																										

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 29/11/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340/1-74
Date of receipt of sample	:	29/11/2023
Date test commenced	:	29/11/2023
Date test completed	:	05/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	3.3	2.6	3.2	3.0	5.0	3.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	7	7	6	6	3	3
3. Ammoniacal nitrogen content, mg/L	0.18	0.11	0.20	0.15	0.17	0.15
4. Nitrate-Nitrogen content, mg/L	0.047	0.059	0.058	0.034	0.014	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.23	0.17	0.26	0.19	0.19	0.16
7. Chlorophyll-a, µg/L	14	3.2	1.0	1.2	1.1	0.9
8. Unionized Ammonia content, mg/L	0.038	0.024	0.33	0.16	0.015	0.008
9. E. coli count, cfu/100ml	1.7×10^2	2.3×10^2	1.5×10^2	1.9×10^2	8.0 x 10	2.7×10^2

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	3.0	3.2	3.1	2.1	1.5	1.9
2. Total suspended solids dried at 103°C - 105°C, mg/L	7	6	6	5	4	3
3. Ammoniacal nitrogen content, mg/L	0.22	0.23	0.27	0.15	0.20	0.11
4. Nitrate-Nitrogen content, mg/L	0.029	0.018	0.027	0.016	0.038	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.25	0.26	0.3	0.16	0.24	0.12
7. Chlorophyll-a, µg/L	0.8	0.8	1.1	0.5	0.6	0.6
8. Unionized Ammonia content, mg/L	0.033	0.025	0.028	0.009	0.009	0.009
9. E. coli count, cfu/100ml	1 *	1 *	6 *	0	0	1.3 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2019

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	2.1	2.1	2.7	3.1	3.0	2.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3	3	3	6	6
3. Ammoniacal nitrogen content, mg/L	0.12	0.13	0.16	0.13	0.27	0.30
4. Nitrate-Nitrogen content, mg/L	0.021	0.014	0.016	0.018	0.10	0.11
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.073	0.074
6. Total Inorganic Nitrogen content, mg/L	0.15	0.14	0.18	0.15	0.45	0.49
7. Chlorophyll-a, µg/L	0.9	0.4	0.8	0.5	0.5	0.6
8. Unionized Ammonia content, mg/L	0.007	0.011	0.020	0.007	1.0	1.2
9. E. coli count, cfu/100ml	2 *	0	5 *	0	3.5×10^2	3.0×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	2.6	2.6	2.2	2.8	2.7	2.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	5	6	5	5
3. Ammoniacal nitrogen content, mg/L	0.15	0.15	0.14	0.13	0.12	0.15
4. Nitrate-Nitrogen content, mg/L	0.039	0.010	0.049	0.040	<0.005	0.11
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.013	0.013
6. Total Inorganic Nitrogen content, mg/L	0.19	0.16	0.19	0.18	0.13	0.27
7. Chlorophyll-a, µg/L	0.4	1.3	1.4	1.4	0.8	2.6
8. Unionized Ammonia content, mg/L	0.016	0.013	0.021	0.025	0.014	0.025
9. E. coli count, cfu/100ml	1 *	4 *	1.2×10^2	1.1×10^2	1.0×10^2	2.0×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	2.3	2.5	3.3	3.0	2.8	2.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	7	5	5	6	5	5
3. Ammoniacal nitrogen content, mg/L	0.14	0.12	0.13	0.16	0.15	0.12
4. Nitrate-Nitrogen content, mg/L	0.11	<0.005	0.014	0.022	0.020	0.006
5. Nitrite-Nitrogen content, mg/L	0.013	0.013	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.26	0.14	0.15	0.18	0.17	0.13
7. Chlorophyll-a, µg/L	1.2	1.5	1.4	1.2	0.3	0.5
8. Unionized Ammonia content, mg/L	0.024	0.076	0.071	0.057	0.009	0.009
9. E. coli count, cfu/100ml	1.7×10^2	5.6 x 10	5.1 x 10	4.5 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.3	<1	1.2	1.1	1.2	2.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	5	4	5	5
3. Ammoniacal nitrogen content, mg/L	0.12	0.14	0.13	0.13	0.17	0.14
4. Nitrate-Nitrogen content, mg/L	0.022	0.009	0.011	0.012	0.010	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.15	0.15	0.15	0.15	0.18	0.16
7. Chlorophyll-a, µg/L	2.1	1	1.2	1.1	0.4	0.5
8. Unionized Ammonia content, mg/L	0.010	0.10	0.14	0.011	0.012	0.012
9. E. coli count, cfu/100ml	0	3 *	5 *	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	2.3	1.3	1.9	2.1	5.9	6.0
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	4	7	8	5
3. Ammoniacal nitrogen content, mg/L	0.17	0.12	0.11	0.12	0.16	0.12
4. Nitrate-Nitrogen content, mg/L	0.074	0.020	0.022	0.09	0.025	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.25	0.15	0.14	0.13	0.19	0.15
7. Chlorophyll-a, µg/L	0.4	3.6	3.2	0.9	1.0	1.2
8. Unionized Ammonia content, mg/L	0.010	0.025	0.018	0.090	0.20	0.012
9. E. coli count, cfu/100ml	7 *	1.9×10^2	1.7×10^2	1.5×10^2	1.0×10^2	2.3×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	3.4	3.1	7.9	2.6	1.2	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	5	4	5	4	3
3. Ammoniacal nitrogen content, mg/L	0.11	0.34	0.29	0.25	0.11	0.13
4. Nitrate-Nitrogen content, mg/L	0.023	0.090	0.030	0.028	0.013	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.14	0.43	0.32	0.29	0.13	0.14
7. Chlorophyll-a, µg/L	1.7	0.8	0.7	0.6	0.5	0.4
8. Unionized Ammonia content, mg/L	0.014	0.073	0.064	0.050	0.011	0.013
9. E. coli count, cfu/100ml	1.9×10^2	2 *	3 *	1 *	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	2.6	1.5	1.6	1.0	1.1	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3	4	3	3	6
3. Ammoniacal nitrogen content, mg/L	0.12	0.12	0.13	0.11	0.11	0.29
4. Nitrate-Nitrogen content, mg/L	0.016	0.009	0.011	0.014	0.012	0.13
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.072
6. Total Inorganic Nitrogen content, mg/L	0.14	0.14	0.15	0.13	0.12	0.49
7. Chlorophyll-a, µg/L	0.7	1.2	0.9	0.7	0.7	0.3
8. Unionized Ammonia content, mg/L	0.013	0.010	0.012	0.013	0.007	0.027
9. E. coli count, cfu/100ml	1 *	3 *	0	0	0	3.4×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	2.2	2.1	2.2	1.9	2.3	2.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	7	4	4	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.33	0.14	0.15	0.11	0.1	0.11
4. Nitrate-Nitrogen content, mg/L	0.13	0.035	0.038	0.013	0.013	0.009
5. Nitrite-Nitrogen content, mg/L	0.074	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.53	0.18	0.19	0.12	0.12	0.13
7. Chlorophyll-a, µg/L	0.5	0.4	0.7	1.4	1.8	2.2
8. Unionized Ammonia content, mg/L	0.048	0.022	0.008	0.036	0.021	0.023
9. E. coli count, cfu/100ml	3.9×10^2	6 *	7 *	1.1×10^2	1.0×10^2	1.2×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	2.6	2.6	2.7	3.3	2.7	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	5	4	5	5
3. Ammoniacal nitrogen content, mg/L	0.09	0.12	0.1	0.09	0.11	0.09
4. Nitrate-Nitrogen content, mg/L	0.11	0.11	0.008	0.010	0.009	0.010
5. Nitrite-Nitrogen content, mg/L	0.013	0.013	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.21	0.24	0.11	0.1	0.12	0.1
7. Chlorophyll-a, µg/L	0.9	1.0	0.4	0.5	0.3	0.5
8. Unionized Ammonia content, mg/L	0.024	0.023	0.071	0.067	0.056	0.009
9. E. coli count, cfu/100ml	2.0×10^2	2.5×10^2	7.0 x 10	3.0 x 10	6.8 x 10	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

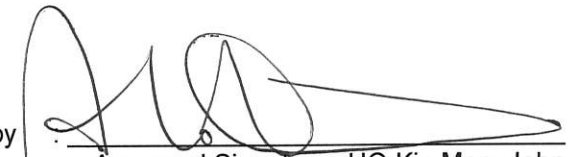
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.2	2.7	1.7	1.8	2.0	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	6	4	5	4	3
3. Ammoniacal nitrogen content, mg/L	0.10	0.12	0.16	0.13	0.12	0.09
4. Nitrate-Nitrogen content, mg/L	0.011	0.017	0.011	0.010	0.011	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.12	0.14	0.18	0.14	0.13	0.1
7. Chlorophyll-a, µg/L	0.9	1.1	0.8	0.4	0.8	0.5
8. Unionized Ammonia content, mg/L	0.010	0.008	0.10	0.13	0.011	0.009
9. E. coli count, cfu/100ml	0	0	7 *	5 *	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

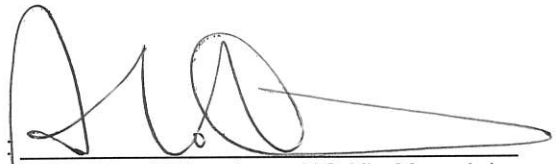
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230946WA233340

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.8	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5
3. Ammoniacal nitrogen content, mg/L	0.09	0.12
4. Nitrate-Nitrogen content, mg/L	0.009	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.1	0.14
7. Chlorophyll-a, µg/L	0.9	1
8. Unionized Ammonia content, mg/L	0.009	0.009
9. E. coli count, cfu/100ml	0	7 *

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	2.07	2.06	0.48
			2.61	2.66	1.90
			2.65	2.81	5.86
			2.1	1.98	5.88
			2.07	2.06	0.48

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	97	3.76	3.6	4.35
		97	5.75	6.08	5.58
		99	5.14	4.93	4.17
		100	4.4	4.66	5.74
		97	3.76	3.6	4.35

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	103	3.0	3.0	0.0
	<0.005	102	3.2	3.2	0.0
	<0.005	102	3.0	3.0	0.0
	<0.005	103	2.8	2.6	7.4
	<0.005	103	3.0	3.0	0.0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2020

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	105	0.15	0.15	0.0
	<0.005	111	0.12	0.11	8.7
	<0.005	102	0.11	0.11	0.0
	<0.005	101	0.12	0.13	8.0
	<0.005	105	0.15	0.15	0.0

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	103	1.41	1.25	12.0
	<0.01	106	0.9	0.97	7.5
	<0.01	96	2.19	2.12	3.2
	<0.01	91.6	0.97	1.02	5.0

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	16	13	9
			11	13	7
			2	5	40
			8	5	20

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 30/11/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(1)/1-74
Date of receipt of sample	:	30/11/2023
Date test commenced	:	30/11/2023
Date test completed	:	06/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

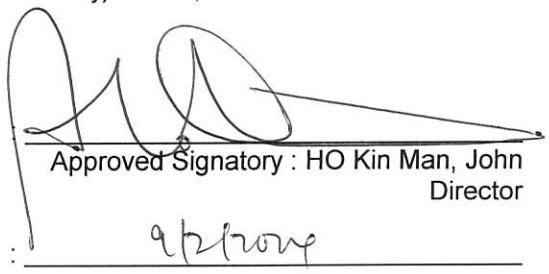
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	2.3	2.1	2.1	2.1	1.9	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	6	6	5	6	4
3. Ammoniacal nitrogen content, mg/L	0.27	0.26	1.9	0.9	0.09	0.06
4. Nitrate-Nitrogen content, mg/L	0.229	0.294	0.125	0.073	0.020	0.014
5. Nitrite-Nitrogen content, mg/L	0.026	0.031	0.039	0.020	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.53	0.58	2	1	0.12	0.081
7. Chlorophyll-a, µg/L	2.1	1.7	1.3	1.8	1.4	1.2
8. Unionized Ammonia content, mg/L	0.047	0.045	0.394	0.131	0.021	0.009
9. E. coli count, cfu/100ml	2.3×10^2	1.2×10^2	1.3×10^2	1.2×10^2	3.0 x 10	3.5 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.8	1.6	1.5	1.1	1.1	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.13	0.12	0.16	0.08	0.07	0.06
4. Nitrate-Nitrogen content, mg/L	0.063	0.064	0.074	0.012	0.014	0.006
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	0.007	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.2	0.19	0.24	0.092	0.091	0.073
7. Chlorophyll-a, µg/L	1.1	0.91	2.1	0.92	0.8	1.7
8. Unionized Ammonia content, mg/L	0.019	0.023	0.023	0.007	0.007	0.007
9. E. coli count, cfu/100ml	4.2 x 10	3.3 x 10	1.3 x 10	1.8 x 10	3.8 x 10	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.8	1.5	1.2	1.2	2.2	2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	3	5	4
3. Ammoniacal nitrogen content, mg/L	0.06	0.07	0.13	0.06	7.8	7.6
4. Nitrate-Nitrogen content, mg/L	0.009	0.008	0.008	<0.005	0.134	0.153
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.038	0.038
6. Total Inorganic Nitrogen content, mg/L	0.076	0.083	0.15	0.065	8	7.8
7. Chlorophyll-a, µg/L	2.1	2.5	1.1	1.5	2.3	2.9
8. Unionized Ammonia content, mg/L	0.006	0.008	0.016	0.007	1.5	0.959
9. E. coli count, cfu/100ml	2*	1*	1*	0	1.5×10^2	1.5×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	2.1	2.2	2.2	2.3	2.1	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.1	0.21	0.12	0.17	0.14	0.18
4. Nitrate-Nitrogen content, mg/L	0.011	0.017	0.121	0.122	0.123	0.205
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.013	0.014	0.013	0.017
6. Total Inorganic Nitrogen content, mg/L	0.11	0.24	0.26	0.3	0.28	0.41
7. Chlorophyll-a, µg/L	4.3	3.7	4.4	4.4	2.9	2.9
8. Unionized Ammonia content, mg/L	0.017	0.013	0.026	0.023	0.009	0.032
9. E. coli count, cfu/100ml	2.3 x 10	2.7 x 10	3.6 x 10	3.3 x 10	4.2 x 10	2.0 x 10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2014

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	2	2.4	2.5	2.5	1.3	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	5	4	3
3. Ammoniacal nitrogen content, mg/L	0.17	0.46	0.43	0.44	0.07	0.07
4. Nitrate-Nitrogen content, mg/L	0.191	0.056	0.055	0.053	<0.005	0.008
5. Nitrite-Nitrogen content, mg/L	0.017	0.010	0.010	0.010	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.38	0.52	0.5	0.51	0.077	0.077
7. Chlorophyll-a, µg/L	5.4	4.7	4.7	4.5	1.4	1.2
8. Unionized Ammonia content, mg/L	0.03	0.087	0.077	0.059	0.007	0.007
9. E. coli count, cfu/100ml	2.5 x 10	2.1×10^2	2.0×10^2	2.1×10^2	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.8	1.6	1.7	1.8	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.6	0.69	0.08	0.08	0.1
4. Nitrate-Nitrogen content, mg/L	0.007	0.055	0.049	0.011	0.017	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	0.012	0.012	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.082	0.67	0.75	0.093	0.1	0.11
7. Chlorophyll-a, µg/L	1	4.1	1.7	2.2	2	3
8. Unionized Ammonia content, mg/L	0.007	0.149	0.092	0.007	0.008	0.009
9. E. coli count, cfu/100ml	0	3.5 x 10	2.7 x 10	5*	6*	4*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.1	1.9	2	2.2	2	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	5	4
3. Ammoniacal nitrogen content, mg/L	0.08	0.17	0.18	0.51	1.1	0.08
4. Nitrate-Nitrogen content, mg/L	0.017	0.187	0.174	0.075	0.073	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	0.018	0.017	0.020	0.023	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.098	0.38	0.37	0.6	1.2	0.095
7. Chlorophyll-a, µg/L	0.75	3.8	5.7	2.8	3.6	3
8. Unionized Ammonia content, mg/L	0.008	0.03	0.032	0.109	0.153	0.018
9. E. coli count, cfu/100ml	1*	1.2×10^2	1.6×10^2	1.8×10^2	2.7×10^2	3.2 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	2.2	3.1	2.6	2.5	2.7	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.11	0.28	0.28	0.27	0.09	0.11
4. Nitrate-Nitrogen content, mg/L	0.012	0.076	0.075	0.084	0.013	0.022
5. Nitrite-Nitrogen content, mg/L	<0.005	0.007	0.007	0.007	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.12	0.37	0.37	0.36	0.11	0.13
7. Chlorophyll-a, µg/L	3.5	2.8	3	3.3	1	1.4
8. Unionized Ammonia content, mg/L	0.015	0.041	0.057	0.04	0.008	0.011
9. E. coli count, cfu/100ml	3.5 x 10	1.5 x 10	5.2 x 10	1.0 x 10	5*	3.3 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	3.2	2.9	2.6	2.3	2.1	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	3	3	5
3. Ammoniacal nitrogen content, mg/L	0.1	0.09	0.08	0.08	0.05	0.2
4. Nitrate-Nitrogen content, mg/L	0.018	0.013	0.013	0.013	0.011	0.288
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.024
6. Total Inorganic Nitrogen content, mg/L	0.12	0.1	0.095	0.1	0.07	0.51
7. Chlorophyll-a, µg/L	2	1.6	2	1.5	1.3	3.9
8. Unionized Ammonia content, mg/L	0.011	0.01	0.01	0.01	0.006	0.039
9. E. coli count, cfu/100ml	0	1*	1*	0	0	2.0×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	3.4	3.2	3.2	3.2	3	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	5	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.3	0.13	0.13	0.2	0.13	0.23
4. Nitrate-Nitrogen content, mg/L	0.138	0.024	0.024	0.143	0.129	0.156
5. Nitrite-Nitrogen content, mg/L	0.034	<0.005	<0.005	0.014	0.017	0.014
6. Total Inorganic Nitrogen content, mg/L	0.47	0.16	0.16	0.36	0.28	0.4
7. Chlorophyll-a, µg/L	4	2.1	3.8	4.1	5.8	3.9
8. Unionized Ammonia content, mg/L	0.038	0.023	0.008	0.043	0.026	0.02
9. E. coli count, cfu/100ml	1.7×10^2	3.6 x 10	7.0 x 10	6.5 x 10	5.0 x 10	5.6 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	2.6	1.8	2.4	3.4	2.4	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.17	0.16	0.41	0.39	0.44	0.06
4. Nitrate-Nitrogen content, mg/L	0.187	0.190	0.058	0.055	0.058	0.006
5. Nitrite-Nitrogen content, mg/L	0.017	0.017	0.010	0.010	0.010	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.37	0.37	0.47	0.46	0.51	0.07
7. Chlorophyll-a, µg/L	2.7	4.7	5.5	3.6	3.1	1.5
8. Unionized Ammonia content, mg/L	0.03	0.028	0.084	0.063	0.06	0.006
9. E. coli count, cfu/100ml	1.6×10^2	8.0 x 10	3.8×10^2	4.1×10^2	4.8×10^2	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	<1	2.2	1.5	2.3	1.9	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.05	0.61	0.63	0.07	0.06
4. Nitrate-Nitrogen content, mg/L	<0.005	0.006	0.058	0.059	0.020	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.013	0.013	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.077	0.063	0.68	0.7	0.099	0.079
7. Chlorophyll-a, µg/L	1.6	1.6	3.4	2.3	2.1	2.2
8. Unionized Ammonia content, mg/L	0.007	0.005	0.154	0.084	0.007	0.006
9. E. coli count, cfu/100ml	0	0	5.6 x 10	5.0 x 10	1.3 x 10	1.0 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(1)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.7	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.08	0.07
4. Nitrate-Nitrogen content, mg/L	0.029	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.11	0.098
7. Chlorophyll-a, µg/L	3.6	2.2
8. Unionized Ammonia content, mg/L	0.007	0.008
9. E. coli count, cfu/100ml	4*	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.01	1.06	4.8
			2.06	2.16	4.7
			1.40	1.46	4.2
			2.12	2.18	2.8

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	101.60	3.96	4.26	7.3
		98.40	3.79	4.19	10.0
		100.40	3.92	4.20	6.9
		100.60	3.29	3.20	2.8

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.00	4.6	5.3	14.1
	<0.005	98.00	20.2	20.4	1.0
	<0.005	97.00	14.3	14.4	0.7
	<0.005	105.00	3.2	3.1	3.2

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2009

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	97.33	0.21	0.20	4.9
	<0.005	103.80	0.51	0.49	4.0
	<0.005	104.75	0.23	0.23	0.0
	<0.005	98.17	0.07	0.07	0.0

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	96.4	3.7	3.7	0.0
	<0.01	86.0	2.9	2.6	10.9
	<0.01	99.1	3.8	4.0	5.1
	<0.01	81.3	2.2	2.1	4.7

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	30	24	10
			15	20	12
			52	60	6
			2	2	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 01/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(2)/1-74
Date of receipt of sample	:	01/12/2023
Date test commenced	:	01/12/2023
Date test completed	:	06/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	2.6	2.6	2.7	2.7	2.6	2.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	8	8	6	6	5	6
3. Ammoniacal nitrogen content, mg/L	0.08	0.09	0.1	0.1	0.07	0.08
4. Nitrate-Nitrogen content, mg/L	0.066	0.051	0.023	0.021	0.012	0.015
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	0.005	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.15	0.15	0.13	0.13	0.086	0.097
7. Chlorophyll-a, µg/L	7.9	10	11	14	15	15
8. Unionized Ammonia content, mg/L	0.01	0.014	0.021	0.018	0.015	0.014
9. E. coli count, cfu/100ml	1.8×10^2	2.4×10^2	3.2×10^2	2.7×10^2	8.8×10^2	7.4×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	2.4	2.7	2.7	1.1	<1	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	6	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.1	0.09	0.1	0.05	0.04	0.03
4. Nitrate-Nitrogen content, mg/L	0.022	0.019	0.018	0.010	0.006	0.010
5. Nitrite-Nitrogen content, mg/L	0.006	0.005	0.006	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.13	0.12	0.12	0.067	0.048	0.043
7. Chlorophyll-a, µg/L	13	10	6.8	4.1	6	1.5
8. Unionized Ammonia content, mg/L	0.017	0.019	0.013	0.005	0.003	0.004
9. E. coli count, cfu/100ml	9.4×10^2	1.3×10^3 *	1.1×10^3 *	0	4*	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.5	<1	<1	1.1	2.8	3.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	4	4	5	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.02	0.02	0.03	0.09	0.1
4. Nitrate-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	0.014	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	<0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.046	0.034	0.03	0.038	0.11	0.12
7. Chlorophyll-a, µg/L	1.5	2.3	3.5	1.7	1.6	1.7
8. Unionized Ammonia content, mg/L	0.005	0.004	0.003	0.005	0.017	0.019
9. E. coli count, cfu/100ml	1*	0	0	0	3.4×10^2	3.0×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	2.5	2.3	2.7	2.7	2.6	3
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	6	7	5	6	7
3. Ammoniacal nitrogen content, mg/L	0.03	0.04	0.04	0.04	0.04	0.05
4. Nitrate-Nitrogen content, mg/L	0.008	0.012	0.039	0.040	0.038	0.040
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.007	0.007	0.008	0.007
6. Total Inorganic Nitrogen content, mg/L	0.04	0.057	0.084	0.084	0.09	0.098
7. Chlorophyll-a, µg/L	1.7	6.7	0.96	1	2.6	2.5
8. Unionized Ammonia content, mg/L	0.005	0.006	0.007	0.006	0.005	0.006
9. E. coli count, cfu/100ml	7.7×10^2	9.0×10^2	3.5×10^2	4.0×10^2	2.7×10^2	2.3×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	3.2	2.9	3	3	1.3	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	7	5	5	3	5
3. Ammoniacal nitrogen content, mg/L	0.04	0.05	0.04	0.03	0.09	0.08
4. Nitrate-Nitrogen content, mg/L	0.040	0.043	0.037	0.013	0.012	0.009
5. Nitrite-Nitrogen content, mg/L	0.007	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.083	0.099	0.082	0.05	0.11	0.091
7. Chlorophyll-a, µg/L	1.2	1.4	1.6	1.6	2.1	1.6
8. Unionized Ammonia content, mg/L	0.005	0.011	0.007	0.004	0.01	0.009
9. E. coli count, cfu/100ml	4.2×10^2	1.2×10^2	1.1×10^2	1.3×10^2	1*	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.4	2.7	2.6	1.4	1.3	2.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	3	5	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.03	0.04	0.09	0.07	0.03
4. Nitrate-Nitrogen content, mg/L	0.016	0.014	0.012	0.013	0.012	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.075	0.05	0.062	0.11	0.087	0.042
7. Chlorophyll-a, µg/L	1	1.5	1.3	1.7	0.5	0.5
8. Unionized Ammonia content, mg/L	0.006	0.008	0.011	0.015	0.01	0.003
9. E. coli count, cfu/100ml	2*	4.0×10^2	3.6×10^2	0	0	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	2.4	2.4	4.4	4.3	3.5	3.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	7	5	5	6	5
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.04	0.05	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.007	0.030	0.036	0.014	0.012	0.015
5. Nitrite-Nitrogen content, mg/L	<0.005	0.007	0.008	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.036	0.065	0.081	0.067	0.046	0.063
7. Chlorophyll-a, µg/L	0.5	0.59	6.1	12	7.7	12
8. Unionized Ammonia content, mg/L	0.004	0.004	0.006	0.01	0.005	0.009
9. E. coli count, cfu/100ml	3*	1.7×10^2	2.3×10^2	3.1×10^2	4.0×10^2	6.8 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	3.5	3.6	3.8	3.6	2	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	4	6	4	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.12	0.09	0.13	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.014	0.024	0.022	0.025	0.012	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.006	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.038	0.15	0.12	0.16	0.046	0.045
7. Chlorophyll-a, µg/L	6.8	7.9	8.4	5.3	2.5	1.6
8. Unionized Ammonia content, mg/L	0.001	0.025	0.019	0.02	0.003	0.003
9. E. coli count, cfu/100ml	7.1 x 10	2.2×10^2	2.1×10^2	2.4×10^2	1*	3*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	2.4	2.7	2.3	2.3	1.9	4.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.02	0.03	0.02	0.06
4. Nitrate-Nitrogen content, mg/L	0.005	<0.005	0.006	0.005	0.006	0.017
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.006	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.039	0.038	0.034	0.041	0.034	0.079
7. Chlorophyll-a, µg/L	1.1	3.2	2	1.2	1.4	4
8. Unionized Ammonia content, mg/L	0.004	0.003	0.003	0.004	0.003	0.01
9. E. coli count, cfu/100ml	0	1*	0	0	0	4.8×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	3.8	3.3	3.5	3.5	3.6	3.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	4	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.06	0.04	0.07	0.04	0.05	0.04
4. Nitrate-Nitrogen content, mg/L	0.016	0.011	0.013	0.039	0.036	0.037
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.007	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.079	0.051	0.087	0.089	0.089	0.081
7. Chlorophyll-a, µg/L	1.4	1.9	4.9	7.8	8.2	9.1
8. Unionized Ammonia content, mg/L	0.011	0.007	0.013	0.008	0.008	0.005
9. E. coli count, cfu/100ml	5.1×10^2	1.1×10^2 *	9.4×10	6.8×10^2	5.4×10^2	8.0×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	3.7	3.7	3.7	4	3.5	2.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	5	4	6	6	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.03	0.02	0.06	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.032	0.027	0.006	0.007	0.008	0.006
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.092	0.063	0.033	0.07	0.035	0.032
7. Chlorophyll-a, µg/L	4.4	7.7	6.9	3.2	3.7	2.4
8. Unionized Ammonia content, mg/L	0.006	0.004	0.004	0.01	0.003	0.003
9. E. coli count, cfu/100ml	1.9×10^2	1.5×10^2	6.0 x 10	6.9 x 10	4.8 x 10	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	2	2.5	3.5	3.4	2.3	2.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.03	0.05	0.05	0.02	0.07
4. Nitrate-Nitrogen content, mg/L	0.011	0.008	0.010	0.007	0.005	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.065	0.043	0.061	0.06	0.032	0.081
7. Chlorophyll-a, µg/L	2.4	3.6	6.6	5.5	4.3	1.7
8. Unionized Ammonia content, mg/L	0.006	0.003	0.011	0.012	0.003	0.009
9. E. coli count, cfu/100ml	0	2*	5.4×10^2	4.9×10^2	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(2)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	2.3	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.005	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.029	0.041
7. Chlorophyll-a, µg/L	1.7	1.4
8. Unionized Ammonia content, mg/L	0.002	0.004
9. E. coli count, cfu/100ml	1*	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.9°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2019

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.09	1.04	4.7
			2.34	2.30	1.7
			1.19	1.25	4.9
			4.35	4.16	4.5

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	98.80	5.67	6.29	10.4
		99.60	5.10	5.18	1.6
		103.80	4.03	3.64	10.2
		104.88	2.57	2.83	9.6

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	100.00	4.8	5.0	4.1
	<0.005	99.00	5.1	5.2	1.9
	<0.005	96.45	7.4	7.7	4.0
	<0.005	99.35	4.7	4.6	2.2

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.33	0.41	0.37	10.3
	<0.005	101.00	0.48	0.46	4.3
	<0.005	101.83	0.37	0.41	10.3
	<0.005	102.50	0.29	0.30	3.4

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	98.2	6.8	6.5	4.6
	<0.01	91.9	11.5	11.6	0.75
	<0.01	119	9.2	9.1	0.97
	<0.01	103	1.5	1.4	6.5

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	90	90	0
			34	28	8
			83	77	3
			0	0	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2019

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 04/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(3)/1-74
Date of receipt of sample	:	04/12/2023
Date test commenced	:	04/12/2023
Date test completed	:	09/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	3.1	2.6	1.7	2.1	2.2	2.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	7	7	4	4	5
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.12	0.12	0.07	0.05
4. Nitrate-Nitrogen content, mg/L	0.027	0.026	0.037	0.027	0.024	0.016
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.067	0.062	0.16	0.15	0.097	0.067
7. Chlorophyll-a, µg/L	9.9	15	7.3	6.4	4.2	3.1
8. Unionized Ammonia content, mg/L	0.004	0.003	0.021	0.009	0.011	0.008
9. E. coli count, cfu/100ml	0	0	2.0 x 10	1.5 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	2.6	2.3	2.5	1.3	<1	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	6	4	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.08	0.04	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.022	0.018	0.039	0.018	0.017	0.022
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.063	0.057	0.12	0.059	0.045	0.06
7. Chlorophyll-a, µg/L	1.2	4.2	3.8	0.39	0.37	0.29
8. Unionized Ammonia content, mg/L	0.006	0.009	0.01	0.003	0.002	0.002
9. E. coli count, cfu/100ml	8*	4*	2*	1*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.3	1.3	1.4	2.0	2.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.04	0.04	0.11	0.18
4. Nitrate-Nitrogen content, mg/L	0.019	0.008	0.027	0.030	0.028	0.045
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.041	0.037	0.067	0.071	0.14	0.23
7. Chlorophyll-a, µg/L	0.33	0.26	0.19	0.27	0.3	0.18
8. Unionized Ammonia content, mg/L	0.001	0.003	0.004	0.003	0.019	0.014
9. E. coli count, cfu/100ml	0	0	0	0	1.0×10^2	1.0×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2019

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	2.1	2.1	2.1	1.8	2.0	2.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.06	0.06	0.04	0.03	0.05	0.03
4. Nitrate-Nitrogen content, mg/L	0.025	0.027	0.020	0.020	0.020	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.006	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.092	0.088	0.066	0.053	0.078	0.046
7. Chlorophyll-a, µg/L	0.53	0.5	0.55	0.53	2.4	0.69
8. Unionized Ammonia content, mg/L	0.012	0.009	0.006	0.004	0.004	0.004
9. E. coli count, cfu/100ml	4*	1.5*	0	0	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	3.0	2.4	1.9	2.2	1.2	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	4	5	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.02	0.04	0.03	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.018	0.012	0.014	0.009	0.010	0.026
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.049	0.033	0.053	0.045	0.039	0.058
7. Chlorophyll-a, µg/L	0.48	0.17	0.21	0.29	0.18	0.21
8. Unionized Ammonia content, mg/L	0.002	0.003	0.005	0.002	0.002	0.003
9. E. coli count, cfu/100ml	2*	1.0 x 10	3.0 x 10	4.5 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.3	3.5	3.7	1.2	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	6	5	5	6	5
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.03	0.03	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.023	0.031	0.027	0.013	0.020	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.045	0.065	0.061	0.042	0.042	0.044
7. Chlorophyll-a, µg/L	0.16	4.2	0.22	0.18	0.26	0.17
8. Unionized Ammonia content, mg/L	0.002	0.007	0.003	0.003	0.002	0.002
9. E. coli count, cfu/100ml	0	8*	5*	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2019

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	<1	3.1	2.4	2.0	1.9	2.0
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	5	4	5	5
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.04	0.21	0.13	0.03
4. Nitrate-Nitrogen content, mg/L	0.015	0.012	0.014	0.051	0.026	0.023
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.055	0.049	0.059	0.27	0.16	0.052
7. Chlorophyll-a, µg/L	0.1	0.42	0.6	0.35	0.46	0.29
8. Unionized Ammonia content, mg/L	0.004	0.005	0.003	0.036	0.01	0.005
9. E. coli count, cfu/100ml	1*	1*	0	1.2×10^2	1.3×10^2	3*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	2.2	2.4	2.7	2.3	<1	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	6	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.07	0.02	0.08	0.02	0.07	0.05
4. Nitrate-Nitrogen content, mg/L	0.026	0.041	0.029	0.024	0.014	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.006	0.006
6. Total Inorganic Nitrogen content, mg/L	0.1	0.065	0.11	0.045	0.085	0.072
7. Chlorophyll-a, µg/L	0.24	0.45	0.54	0.69	0.13	0.12
8. Unionized Ammonia content, mg/L	0.013	0.005	0.02	0.003	0.005	0.003
9. E. coli count, cfu/100ml	7*	5*	2.1 x 10	2.8 x 10	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.4	1.2	1.3	1.3	1.1	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	3	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.05	0.02	0.02	0.15
4. Nitrate-Nitrogen content, mg/L	0.016	0.017	0.029	0.006	0.011	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.047	0.053	0.079	0.033	0.036	0.18
7. Chlorophyll-a, µg/L	0.14	0.13	0.17	0.12	0.1	0.23
8. Unionized Ammonia content, mg/L	0.002	0.002	0.005	0.002	0.002	0.028
9. E. coli count, cfu/100ml	1*	1*	0	0	0	2.8×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.9	2.0	1.9	2.4	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.15	0.08	0.05	0.02	0.04	0.05
4. Nitrate-Nitrogen content, mg/L	0.030	0.025	0.017	0.009	0.012	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.19	0.11	0.072	0.034	0.058	0.068
7. Chlorophyll-a, µg/L	0.13	0.27	0.58	0.35	0.38	0.28
8. Unionized Ammonia content, mg/L	0.012	0.014	0.009	0.003	0.006	0.004
9. E. coli count, cfu/100ml	4.3×10^2	1.7 x 10	1.0 x 10	0	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	2.2	2.4	2.5	2.7	2.2	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	6	5	4
3. Ammoniacal nitrogen content, mg/L	0.05	0.05	0.02	0.05	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.015	0.012	0.010	0.012	0.016	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.074	0.07	0.033	0.066	0.036	0.039
7. Chlorophyll-a, µg/L	0.45	0.46	0.4	0.41	0.53	0.24
8. Unionized Ammonia content, mg/L	0.007	0.004	0.003	0.007	0.001	0.003
9. E. coli count, cfu/100ml	3*	2*	5.8 x 10	8.2 x 10	6.7 x 10	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.2	1.6	3.4	2.9	1.4	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	6	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.05	0.04	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.015	0.017	0.021	0.022	0.011	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.053	0.055	0.076	0.067	0.031	0.022
7. Chlorophyll-a, µg/L	0.2	0.21	0.39	0.43	0.28	0.24
8. Unionized Ammonia content, mg/L	0.004	0.003	0.012	0.004	0.002	0.001
9. E. coli count, cfu/100ml	0	0	6*	3*	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(3)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.0	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3
3. Ammoniacal nitrogen content, mg/L	0.01	0.05
4. Nitrate-Nitrogen content, mg/L	0.011	0.012
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.025	0.067
7. Chlorophyll-a, µg/L	0.65	0.14
8. Unionized Ammonia content, mg/L	<0.001	0.004
9. E. coli count, cfu/100ml	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2019

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.28	1.27	0.78
			2.15	2.13	0.93
			0.98	0.97	1.03
			1.98	2.03	2.49

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	100.8	4.08	4.19	2.66
		99.4	4.16	4.1	1.45
		97.4	3.48	3.33	4.41
		98.2	3.03	2.9	4.38

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	100.0	3.57	3.95	10.11
	<0.005	100.8	4.63	4.69	1.29
	<0.005	100.3	4.82	4.60	4.67
	<0.005	101.0	3.98	4.04	1.50

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2009

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.7	0.058	0.058	0.00
	<0.005	106.2	0.21	0.21	0.00
	<0.005	99.0	0.051	0.049	4.00
	<0.005	102.2	0.051	0.052	1.94

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	96.9	0.5	0.5	3.49
	<0.01	101.8	0.4	0.3	7.80
	<0.01	104.9	0.3	0.3	6.17
	<0.01	100.9	0.1	0.1	7.47

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	15	10	18
			2	1	30
			1	1	0
			0	0	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2015

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 06/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(4)/1-74
Date of receipt of sample	:	06/12/2023
Date test commenced	:	06/12/2023
Date test completed	:	12/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	4.3	3.3	2.9	2.5	2.4	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	7	8	7	6	6
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.02	0.03	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.028	0.022	0.020	0.023	0.017	0.015
5. Nitrite-Nitrogen content, mg/L	0.016	0.012	0.006	0.006	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.068	0.06	0.042	0.064	0.044	0.037
7. Chlorophyll-a, µg/L	15	10	4.3	14	9.4	8.6
8. Unionized Ammonia content, mg/L	0.005	0.004	0.004	0.005	0.004	0.003
9. E. coli count, cfu/100ml	5.8 x 10	4.9 x 10	1.0×10^{3}*	2.1×10^{2}	1.6 x 10	5.2 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	3.5	3.9	3.3	<1	<1	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	7	6	8	5	5	6
3. Ammoniacal nitrogen content, mg/L	0.07	0.09	0.15	0.01	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.042	0.030	0.053	0.021	0.009	<0.005
5. Nitrite-Nitrogen content, mg/L	0.006	0.012	0.005	0.006	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.11	0.14	0.2	0.04	0.029	0.02
7. Chlorophyll-a, µg/L	13	2.1	11	0.69	1.5	3
8. Unionized Ammonia content, mg/L	0.012	0.016	0.023	0.002	0.001	0.003
9. E. coli count, cfu/100ml	3.9 x 10	6.1 x 10	5.1 x 10	6*	1.0 x 10	1.9 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.2	1.2	1.4	2.5	2.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.01	<0.01	0.01	0.03	0.02
4. Nitrate-Nitrogen content, mg/L	0.019	0.009	0.011	0.013	0.020	0.020
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	0.005	0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.049	0.027	0.026	0.028	0.057	0.043
7. Chlorophyll-a, µg/L	3.4	1.8	2.5	3.7	3.5	0.99
8. Unionized Ammonia content, mg/L	0.004	0.002	0.001	0.001	0.009	0.002
9. E. coli count, cfu/100ml	1.5 x 10	0	0	0	5.1×10^2	5.9×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2015

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	2.2	2.3	2.3	1.9	1.8	3.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	6	6	6	6
3. Ammoniacal nitrogen content, mg/L	0.02	0.01	0.01	0.01	0.01	0.02
4. Nitrate-Nitrogen content, mg/L	0.016	<0.005	0.009	<0.005	<0.005	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.039	0.017	0.027	0.018	0.016	0.04
7. Chlorophyll-a, µg/L	3.6	9.3	4	4.4	3.7	5.2
8. Unionized Ammonia content, mg/L	0.003	0.002	0.003	0.002	<0.001	0.005
9. E. coli count, cfu/100ml	1.6×10^2	4*	1.4 x 10	1.3 x 10	8*	6.5 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	2.4	2.5	2.5	2.2	1.3	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	7	7	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.01	0.01	0.01	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.011	0.007	<0.005	<0.005	0.011	0.017
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	<0.005	0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.035	0.023	0.02	0.019	0.029	0.037
7. Chlorophyll-a, µg/L	18	4.7	8.8	4.7	9.3	2.4
8. Unionized Ammonia content, mg/L	0.003	0.002	0.002	0.001	0.002	0.002
9. E. coli count, cfu/100ml	4.7 x 10	8.3 x 10	5.3 x 10	6.1 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.3	3.7	4.3	3.7	1.4	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.08	0.08	0.02	0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	0.011	0.023	0.019	0.016	<0.005	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.027	0.11	0.11	0.045	0.024	0.016
7. Chlorophyll-a, µg/L	1.9	7.3	4.8	2.2	1.7	1.9
8. Unionized Ammonia content, mg/L	0.001	0.02	0.015	0.003	0.002	0.001
9. E. coli count, cfu/100ml	1*	2.3×10^2	2.8×10^2	1*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.1	1.6	2.8	3.5	2.2	2.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	5	5	6	5
3. Ammoniacal nitrogen content, mg/L	0.02	0.01	0.02	0.09	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.011	<0.005	0.013	<0.005	0.016	0.012
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.036	0.019	0.04	0.097	0.035	0.029
7. Chlorophyll-a, µg/L	2.7	2	1.9	3.7	3.6	6.9
8. Unionized Ammonia content, mg/L	0.003	0.002	0.003	0.023	0.002	0.002
9. E. coli count, cfu/100ml	0	4.6 x 10	4.5 x 10	1.0×10^3	3.8×10^2	7*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	2.1	2.4	3.0	2.9	2.8	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	6	6	5	3	3
3. Ammoniacal nitrogen content, mg/L	0.01	0.15	0.06	<0.01	0.01	0.13
4. Nitrate-Nitrogen content, mg/L	0.012	0.037	0.030	0.015	0.008	0.036
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.029	0.19	0.097	0.03	0.024	0.17
7. Chlorophyll-a, µg/L	5.5	3.5	3.8	6.6	1.9	4
8. Unionized Ammonia content, mg/L	0.002	0.021	0.01	0.001	0.001	0.012
9. E. coli count, cfu/100ml	1.2 x 10	5.9 x 10	6.3 x 10	4.8 x 10	1.4 x 10	5*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

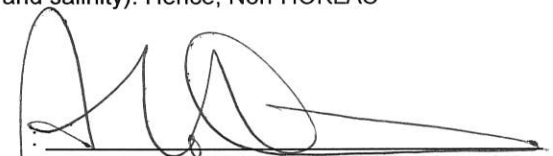
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.2	1.5	1.4	1.3	1.2	2.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.01	0.01	0.01	0.01	0.04
4. Nitrate-Nitrogen content, mg/L	0.023	0.019	0.005	0.019	0.014	0.024
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.041	0.035	0.021	0.036	0.032	0.066
7. Chlorophyll-a, µg/L	3	3.2	2.4	3.9	2.5	1.9
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.001	0.002	0.011
9. E. coli count, cfu/100ml	2.7 x 10	1.8 x 10	0	0	0	1.2 x 10^{3}*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 

Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2014

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	2.4	2.8	2.1	1.9	1.9	2.0
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	5	5	5	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.03	0.03	0.02	0.04
4. Nitrate-Nitrogen content, mg/L	0.021	0.012	<0.005	0.010	<0.005	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.066	0.042	0.034	0.042	0.026	0.056
7. Chlorophyll-a, µg/L	4.9	5.2	4.5	3.1	2.7	4
8. Unionized Ammonia content, mg/L	0.006	0.005	0.004	0.006	0.002	0.004
9. E. coli count, cfu/100ml	1.3×10^{3}*	1.5×10^{2}	8*	1.4 x 10	1.7 x 10	1.7 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by

Approved Signatory : HO Kin Man, John
Director

Date 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	2.1	2.2	2.7	2.4	2.4	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	5	5	5	6	12
3. Ammoniacal nitrogen content, mg/L	0.04	0.06	0.02	0.02	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.008	0.012	0.008	<0.005	<0.005	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.053	0.081	0.037	0.031	0.027	0.026
7. Chlorophyll-a, µg/L	3	2.9	5.9	6.1	5.9	4.3
8. Unionized Ammonia content, mg/L	0.008	0.009	0.004	0.004	0.002	0.002
9. E. coli count, cfu/100ml	5.5 x 10	4.4 x 10	6.5 x 10	6.3 x 10	7.6 x 10	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.3	4.1	4.1	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	11	14	4	5	4	5
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.35	0.27	0.01	0.03
4. Nitrate-Nitrogen content, mg/L	0.007	0.006	0.022	0.023	0.008	0.012
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.026	0.031	0.38	0.3	0.027	0.043
7. Chlorophyll-a, µg/L	2.9	2.5	3.7	3	2.5	1.8
8. Unionized Ammonia content, mg/L	0.002	0.002	0.1	0.042	0.002	0.003
9. E. coli count, cfu/100ml	0	0	1.6×10^2	2.0×10^2	2*	3*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(4)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.4	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.016	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.035	0.024
7. Chlorophyll-a, µg/L	1.6	1.7
8. Unionized Ammonia content, mg/L	0.002	0.002
9. E. coli count, cfu/100ml	2*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2020

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	0.86	0.85	1.17
			2.30	2.34	1.72
			1.38	1.41	2.15
			3.46	3.48	0.58

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	103.08	5.12	4.90	4.39
		100.01	5.23	5.66	7.90
		97.46	4.00	3.94	1.51
		102.08	3.95	4.07	2.99

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	100.25	5.16	5.02	2.75
	<0.005	100.50	5.40	5.14	4.93
	<0.005	100.50	4.44	4.12	7.48
	<0.005	101.50	5.11	5.08	0.59

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	97.67	0.011	0.010	9.52
	<0.005	102.83	0.088	0.095	7.65
	<0.005	99.25	0.043	0.040	7.23
	<0.005	103.83	0.012	0.012	0.00

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	91.6	9.1	9.5	4.54
	<0.01	91.1	3.7	3.7	0.33
	<0.01	96.7	4.0	3.9	1.98
	<0.01	91.3	1.7	1.7	0.24

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	107	97	4
			3	5	22
			19	15	10
			0	0	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 08/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(5)/1-74
Date of receipt of sample	:	08/12/2023
Date test commenced	:	08/12/2023
Date test completed	:	13/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.6	1.4	1.3	1.5	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	5	5	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.04	0.05	0.03	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.013	0.013	0.018	0.016	0.005	0.005
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	0.005	0.006	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.056	0.063	0.076	0.05	0.034	0.026
7. Chlorophyll-a, µg/L	0.97	0.46	5.4	4.9	3.4	3.4
8. Unionized Ammonia content, mg/L	0.008	0.005	0.013	0.006	0.006	0.004
9. E. coli count, cfu/100ml	2*	0	5.3 x 10	4.8 x 10	2*	7*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.3	<1	1.5	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.02	0.02	0.03	0.05	0.03
4. Nitrate-Nitrogen content, mg/L	0.009	0.006	0.010	0.014	0.017	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.006	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.048	0.033	0.037	0.053	0.069	0.048
7. Chlorophyll-a, µg/L	3.5	4	2.4	2	5.1	3.2
8. Unionized Ammonia content, mg/L	0.013	0.007	0.006	0.005	0.007	0.01
9. E. coli count, cfu/100ml	3.8 x 10	3.0 x 10	3.3 x 10	0	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

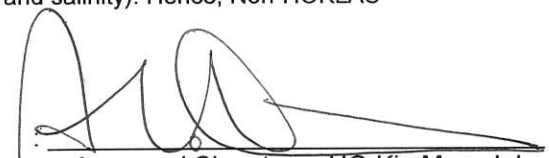
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.4	1.6	1.4	1.5	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.06	0.06	0.06	0.07	0.06
4. Nitrate-Nitrogen content, mg/L	0.006	0.010	0.014	0.015	0.024	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	0.007
6. Total Inorganic Nitrogen content, mg/L	0.025	0.072	0.079	0.079	0.096	0.08
7. Chlorophyll-a, µg/L	3	3	1.6	2.3	1.8	3.2
8. Unionized Ammonia content, mg/L	0.003	0.01	0.013	0.008	0.015	0.013
9. E. coli count, cfu/100ml	0	0	0	0	6.2 x 10	5.5 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.4	1.3	1.6	1.5	1.6	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.02	0.02	0.02	0.03	0.02
4. Nitrate-Nitrogen content, mg/L	0.034	0.035	0.015	0.008	0.010	0.010
5. Nitrite-Nitrogen content, mg/L	0.006	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.079	0.06	0.038	0.031	0.043	0.034
7. Chlorophyll-a, µg/L	3.8	4.6	1.8	3.5	3.6	1.6
8. Unionized Ammonia content, mg/L	0.009	0.005	0.004	0.004	0.003	0.004
9. E. coli count, cfu/100ml	3*	7*	6*	2*	2*	3*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.3	1.4	1.2	<1	1.3	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.07	0.08
4. Nitrate-Nitrogen content, mg/L	0.008	0.005	0.005	<0.005	0.014	0.012
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.031	0.028	0.027	0.026	0.09	0.099
7. Chlorophyll-a, µg/L	3.4	3.8	3.3	3.3	2.5	2.3
8. Unionized Ammonia content, mg/L	0.002	0.004	0.004	0.002	0.013	0.011
9. E. coli count, cfu/100ml	1*	1*	1*	5*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.2	1.3	1.7	1.3	1.4	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.02	0.11	0.07	0.08	0.06
4. Nitrate-Nitrogen content, mg/L	0.013	0.009	0.045	0.010	0.014	0.018
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.09	0.037	0.16	0.083	0.093	0.078
7. Chlorophyll-a, µg/L	2.3	2.6	2.2	2.1	2	2.4
8. Unionized Ammonia content, mg/L	0.009	0.008	0.029	0.011	0.012	0.008
9. E. coli count, cfu/100ml	0	2.5 x 10	3.3 x 10	1*	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	<1	1.4	1.6	1.6	1.3	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.02	0.13	0.05	0.14	0.02
4. Nitrate-Nitrogen content, mg/L	0.020	0.008	0.022	0.031	0.024	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.062	0.036	0.16	0.091	0.17	0.032
7. Chlorophyll-a, µg/L	2	2.9	4.6	3.5	0.59	1.8
8. Unionized Ammonia content, mg/L	0.005	0.005	0.016	0.014	0.027	0.004
9. E. coli count, cfu/100ml	0	4*	0	3.7 x 10	4.1 x 10	4*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.8	1.1	1.4	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.12	0.09	0.03
4. Nitrate-Nitrogen content, mg/L	0.014	0.015	0.016	0.056	0.033	0.028
5. Nitrite-Nitrogen content, mg/L	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.037	0.036	0.044	0.18	0.13	0.064
7. Chlorophyll-a, µg/L	2.1	2.4	3.3	1.9	1.9	3
8. Unionized Ammonia content, mg/L	0.004	0.005	0.007	0.03	0.014	0.005
9. E. coli count, cfu/100ml	4*	2.8 x 10	2.1 x 10	2.5 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.1	1.2	1.3	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	<0.01	0.02	0.03	0.07	0.06	0.08
4. Nitrate-Nitrogen content, mg/L	0.016	<0.005	0.012	0.016	0.019	0.016
5. Nitrite-Nitrogen content, mg/L	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.032	0.023	0.05	0.094	0.085	0.099
7. Chlorophyll-a, µg/L	4.7	4.1	3.6	3.1	2.9	3.4
8. Unionized Ammonia content, mg/L	0.003	0.004	0.008	0.016	0.008	0.021
9. E. coli count, cfu/100ml	0	3*	0	0	0	9*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.4	1.3	1.3	1.3	1.1	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.01	0.02	0.01	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.023	<0.005	0.023	0.011	0.006	0.023
5. Nitrite-Nitrogen content, mg/L	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.095	0.019	0.044	0.027	0.027	0.04
7. Chlorophyll-a, µg/L	3	2.9	3.4	3.5	4.6	5.8
8. Unionized Ammonia content, mg/L	0.014	0.002	0.004	0.002	0.003	0.001
9. E. coli count, cfu/100ml	1.2 x 10	1*	8*	2*	2*	2.5*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.4	1.4	1.2	1.2	1.6	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.03	0.02	0.01	0.03
4. Nitrate-Nitrogen content, mg/L	0.007	0.011	0.007	0.011	0.006	0.015
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.031	0.03	0.037	0.035	0.024	0.049
7. Chlorophyll-a, µg/L	5.1	6.4	4.2	2.9	2.5	3.8
8. Unionized Ammonia content, mg/L	0.004	0.002	0.006	0.004	0.001	0.005
9. E. coli count, cfu/100ml	1*	0	3*	4*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1	<1	1.1	1.1	<1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.04	0.06	0.04	0.01	0.03
4. Nitrate-Nitrogen content, mg/L	0.010	0.012	0.027	0.026	<0.005	0.017
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.035	0.052	0.092	0.071	0.023	0.049
7. Chlorophyll-a, µg/L	2.9	3.9	2.4	3.3	1.8	3.2
8. Unionized Ammonia content, mg/L	0.003	0.004	0.022	0.012	0.003	0.005
9. E. coli count, cfu/100ml	1*	0	2.1 x 10	1.7 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(5)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.03
4. Nitrate-Nitrogen content, mg/L	0.007	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.024	0.034
7. Chlorophyll-a, µg/L	1.8	2.4
8. Unionized Ammonia content, mg/L	0.002	0.004
9. E. coli count, cfu/100ml	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	0.60	0.59	1.68
			1.28	1.36	6.06
			1.17	1.16	0.86
			1.59	1.50	5.83

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	99.0	3.35	3.03	10.03
		102.7	4.35	4.37	0.46
		99.8	3.15	2.87	9.30
		99.5	3.70	3.92	5.77

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	99.0	5.12	5.26	2.70
	<0.005	100.0	5.31	5.36	0.94
	<0.005	100.0	4.18	4.39	4.90
	<0.005	99.0	3.71	3.90	4.99

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	100.0	0.019	0.017	11.11
	<0.005	100.0	0.054	0.052	3.77
	<0.005	101.5	0.013	0.014	7.41
	<0.005	99.3	0.027	0.025	7.69

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	94.5	4.6	4.6	0.09
	<0.01	106.5	3.4	3.6	7.20
	<0.01	95.3	5.8	5.9	1.56
	<0.01	102.5	2.4	2.4	1.74

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	35	40	6
			8	6	12
			8	6	12
			2	3	18

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 11/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(6)/1-74
Date of receipt of sample	:	11/12/2023
Date test commenced	:	11/12/2023
Date test completed	:	16/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.8	2.4	2.3	1.6	1.9
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	5	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.07	0.01	0.34	0.1	0.12
4. Nitrate-Nitrogen content, mg/L	0.035	0.036	0.024	0.042	0.008	0.011
5. Nitrite-Nitrogen content, mg/L	0.007	0.006	0.005	0.007	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.069	0.11	0.043	0.39	0.11	0.13
7. Chlorophyll-a, µg/L	5.1	3.6	10	7.4	6.5	4.6
8. Unionized Ammonia content, mg/L	0.005	0.01	0.005	0.1	0.029	0.035
9. E. coli count, cfu/100ml	0	0	9*	8*	1*	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.9	1.4	1.8	<1	<1	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.12	0.15	0.11	0.03	<0.01	0.05
4. Nitrate-Nitrogen content, mg/L	0.024	0.022	0.024	0.018	0.011	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.15	0.18	0.14	0.053	0.023	0.06
7. Chlorophyll-a, µg/L	3.2	2.8	4.5	2.4	2.5	3.9
8. Unionized Ammonia content, mg/L	0.029	0.041	0.026	0.004	0.001	0.006
9. E. coli count, cfu/100ml	4*	3*	7*	1*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	2.0	<1	<1	<1	2.3	2.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	4	6	6
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.02	0.05	0.07	0.21
4. Nitrate-Nitrogen content, mg/L	0.008	0.006	0.009	0.006	0.027	0.033
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.04	0.038	0.036	0.058	0.1	0.25
7. Chlorophyll-a, µg/L	3.7	2	1.9	2.9	11	6.8
8. Unionized Ammonia content, mg/L	0.003	0.004	0.004	0.007	0.008	0.066
9. E. coli count, cfu/100ml	0	0	0	0	2.4 x 10	2.2 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.7	1.7	1.6	1.6	1.6	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.01	0.12	0.1	0.01
4. Nitrate-Nitrogen content, mg/L	0.009	0.025	0.005	0.020	0.019	0.006
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.036	0.063	0.021	0.15	0.13	0.02
7. Chlorophyll-a, µg/L	6.9	3.5	3	3.6	3.6	6.6
8. Unionized Ammonia content, mg/L	0.006	0.01	0.002	0.021	0.016	0.002
9. E. coli count, cfu/100ml	2*	3*	0	0	1*	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.5	1.2	1.2	1.1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.12	0.04	0.01	<0.01	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.017	0.009	0.005	0.006	0.011	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.14	0.054	0.021	0.016	0.025	0.023
7. Chlorophyll-a, µg/L	3.8	2.7	3.5	7.7	3.4	2.2
8. Unionized Ammonia content, mg/L	0.018	0.007	0.002	<0.001	0.002	0.002
9. E. coli count, cfu/100ml	1*	0	0	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	<1	1.3	1.4	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	15	15	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.12	0.12	0.07	0.14	0.05
4. Nitrate-Nitrogen content, mg/L	0.013	0.026	0.018	0.007	0.016	0.006
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.092	0.15	0.14	0.081	0.16	0.064
7. Chlorophyll-a, µg/L	2.5	4.1	2.3	2.1	2	2.7
8. Unionized Ammonia content, mg/L	0.008	0.032	0.031	0.009	0.022	0.008
9. E. coli count, cfu/100ml	0	1.0 x 10	4*	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	<1	1.5	1.0	2.3	1.3	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.01	0.13	0.06	0.18	0.2	0.07
4. Nitrate-Nitrogen content, mg/L	0.012	0.017	0.015	0.041	0.040	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.03	0.15	0.081	0.23	0.24	0.084
7. Chlorophyll-a, µg/L	1.8	3.6	2.9	22	5.1	3.2
8. Unionized Ammonia content, mg/L	0.001	0.026	0.009	0.019	0.06	0.021
9. E. coli count, cfu/100ml	1*	1*	0	1.9 x 10	1.8 x 10	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.4	1.4	<1	<1	<1	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.06	0.14	0.09	0.15	0.01	0.04
4. Nitrate-Nitrogen content, mg/L	0.016	0.022	0.019	0.028	0.005	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.082	0.17	0.12	0.19	0.023	0.051
7. Chlorophyll-a, µg/L	3.3	2	2.3	3.5	1.6	1.8
8. Unionized Ammonia content, mg/L	0.017	0.044	0.002	0.037	0.002	0.005
9. E. coli count, cfu/100ml	2*	8*	6*	7*	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.6	<1	<1	<1	2.4	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.06	0.09	0.07	0.18	0.17
4. Nitrate-Nitrogen content, mg/L	0.015	0.022	0.009	0.009	0.016	0.033
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.07	0.092	0.11	0.078	0.2	0.21
7. Chlorophyll-a, µg/L	2.7	3.1	1.3	2	2	12
8. Unionized Ammonia content, mg/L	0.007	0.01	0.014	0.01	0.026	0.055
9. E. coli count, cfu/100ml	3*	0	0	0	0	8*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.7	1.7	1.7	1.4	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	4	4	5	4
3. Ammoniacal nitrogen content, mg/L	0.05	0.08	0.13	0.09	0.08	0.05
4. Nitrate-Nitrogen content, mg/L	0.022	0.015	0.012	0.014	0.013	0.015
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.075	0.1	0.14	0.11	0.093	0.071
7. Chlorophyll-a, µg/L	4.2	2.4	3.4	3.8	5.6	3
8. Unionized Ammonia content, mg/L	0.015	0.025	0.035	0.018	0.013	0.007
9. E. coli count, cfu/100ml	9*	5*	3*	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

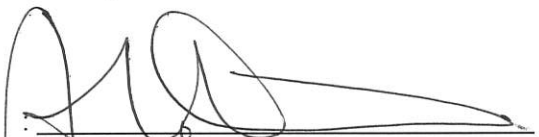
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.5	1.1	1.2	1.1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.08	0.04	0.04	0.03	0.16
4. Nitrate-Nitrogen content, mg/L	0.007	0.012	0.011	0.009	<0.005	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.053	0.097	0.052	0.05	0.044	0.18
7. Chlorophyll-a, µg/L	3.7	5.1	2	1.6	2.4	2.4
8. Unionized Ammonia content, mg/L	0.008	0.011	0.006	0.007	0.005	0.023
9. E. coli count, cfu/100ml	0	0	1*	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	<1	1.9	1.3	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.06	0.04	0.08	0.08	0.06	0.06
4. Nitrate-Nitrogen content, mg/L	0.008	0.007	0.013	0.020	0.008	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.077	0.055	0.093	0.1	0.069	0.068
7. Chlorophyll-a, µg/L	3.6	1.9	4	3.6	1.3	1.4
8. Unionized Ammonia content, mg/L	0.01	0.004	0.021	0.021	0.009	0.008
9. E. coli count, cfu/100ml	0	0	1.0 x 10	6*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(6)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.19	0.02
4. Nitrate-Nitrogen content, mg/L	0.017	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.21	0.034
7. Chlorophyll-a, µg/L	2.2	1.2
8. Unionized Ammonia content, mg/L	0.029	0.003
9. E. coli count, cfu/100ml	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	0.84	0.85	1.18
			1.68	1.70	1.18
			0.90	0.94	4.35
			2.27	2.29	0.88

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	98.73	3.66	3.51	4.18
		99.89	3.86	4.05	4.80
		98.40	4.38	4.06	7.58
		100.54	2.92	3.14	7.26

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.08	4.81	4.86	1.03
	<0.005	102.00	5.15	5.25	1.92
	<0.005	100.23	4.55	4.52	0.66
	<0.005	100.75	4.74	4.31	9.50

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.83	0.034	0.035	2.90
	<0.005	93.65	0.19	0.18	5.41
	<0.005	104.33	0.052	0.052	0.00
	<0.005	102.18	0.022	0.019	14.63

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	110.3	3.7	3.3	11.29
	<0.01	84.6	22.0	21.0	4.46
	<0.01	98.6	3.1	2.9	5.25
	<0.01	104.4	1.2	1.2	1.37

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	16	23	16
			4	2	30
			0	0	0
			0	0	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 13/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(7)/1-74
Date of receipt of sample	:	13/12/2023
Date test commenced	:	13/12/2023
Date test completed	:	18/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	2	1.8	2.2	2.2	1.9	1.9
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	5	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.09	0.02	0.08	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.024	0.028	0.021	0.027	0.019	0.012
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.005	0.006	0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.051	0.12	0.048	0.11	0.047	0.032
7. Chlorophyll-a, µg/L	9.4	7.7	3.3	8.8	7.7	4.7
8. Unionized Ammonia content, mg/L	0.002	0.007	0.002	0.007	0.002	0.001
9. E. coli count, cfu/100ml	1.1×10^{2}*	1.2×10^{2}*	1.1×10^{2}	2.3×10^{2}	3.0×10	2.6×10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	2.2	1.9	2.2	1.2	<1	2.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	5
3. Ammoniacal nitrogen content, mg/L	0.1	0.08	0.06	0.03	0.03	0.02
4. Nitrate-Nitrogen content, mg/L	0.030	0.059	0.049	0.017	0.018	0.022
5. Nitrite-Nitrogen content, mg/L	0.006	0.005	0.006	0.006	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.14	0.14	0.11	0.053	0.05	0.048
7. Chlorophyll-a, µg/L	1.8	4.4	1.4	1.7	4.8	8.5
8. Unionized Ammonia content, mg/L	0.008	0.006	0.004	0.002	0.002	0.001
9. E. coli count, cfu/100ml	3.2 x 10	2.3 x 10	2.7 x 10	3.3 x 10	2.7 x 10	7*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	2.2	1.2	1.2	1.1	1.9	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	3	3	5	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.02	0.01	0.02	0.08	0.04
4. Nitrate-Nitrogen content, mg/L	0.015	0.010	0.010	0.021	0.030	0.026
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.005	0.005	0.006	0.006
6. Total Inorganic Nitrogen content, mg/L	0.033	0.031	0.028	0.044	0.12	0.069
7. Chlorophyll-a, µg/L	1.9	4.5	2.6	10	3.4	1.9
8. Unionized Ammonia content, mg/L	<0.001	0.001	<0.001	0.001	0.008	0.004
9. E. coli count, cfu/100ml	3*	1*	2*	0	2.2×10^2	1.8×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	2	1.9	2.4	2	2	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.03	0.04	0.06	0.04
4. Nitrate-Nitrogen content, mg/L	0.022	0.021	0.021	0.018	0.024	0.012
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.044	0.049	0.061	0.063	0.089	0.06
7. Chlorophyll-a, µg/L	3.1	4.4	5.9	14	3.4	14
8. Unionized Ammonia content, mg/L	0.001	0.002	0.003	0.003	0.002	0.004
9. E. coli count, cfu/100ml	3.6 x 10	2.8 x 10	1.0×10^{2}*	6.9 x 10	6.6 x 10	1.0×10^{2}*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	2	1.8	2.1	1.5	1.2	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	4	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.06	0.06	0.05	0.01	<0.01	0.02
4. Nitrate-Nitrogen content, mg/L	0.021	0.015	0.011	<0.005	0.008	0.013
5. Nitrite-Nitrogen content, mg/L	0.006	0.005	0.005	0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.085	0.083	0.064	0.02	0.02	0.037
7. Chlorophyll-a, µg/L	3.9	3.5	3.9	2.8	1.6	1.6
8. Unionized Ammonia content, mg/L	0.005	0.005	0.004	<0.001	<0.001	0.002
9. E. coli count, cfu/100ml	1.0×10^{2}*	3.1 x 10	4.3 x 10	3.3 x 10	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.8	1.5	1.6	1.1	1.4	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.11	0.12	0.06	0.01	0.02
4. Nitrate-Nitrogen content, mg/L	0.008	0.024	0.044	0.079	0.012	0.014
5. Nitrite-Nitrogen content, mg/L	<0.005	0.006	0.007	0.013	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.034	0.14	0.17	0.15	0.032	0.041
7. Chlorophyll-a, µg/L	5.1	2.9	4.6	1.8	3.3	2.9
8. Unionized Ammonia content, mg/L	0.002	0.009	0.009	0.004	0.001	0.002
9. E. coli count, cfu/100ml	2*	2.2 x 10	1.4 x 10	1*	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

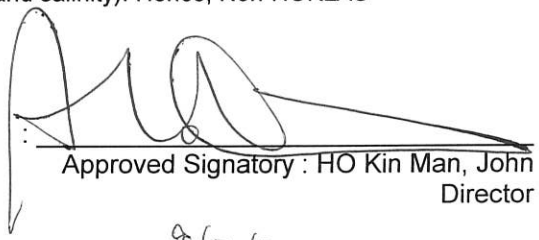
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.1	2.1	1.6	2.2	2.1	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	5	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.15	0.12	0.1	0.04	0.01
4. Nitrate-Nitrogen content, mg/L	0.019	0.029	0.033	0.028	0.020	0.005
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.006	0.006	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.057	0.18	0.16	0.13	0.061	0.024
7. Chlorophyll-a, µg/L	2.5	5.3	7.1	6.9	6.5	5.2
8. Unionized Ammonia content, mg/L	0.002	0.012	0.009	0.009	0.003	0.001
9. E. coli count, cfu/100ml	2.2 x 10	8.1 x 10	1.1×10^2	1.7×10^2	1.6×10^2	2.5 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.4	1.7	2	1.9	1.1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.07	0.13	0.1	0.12	0.03	0.06
4. Nitrate-Nitrogen content, mg/L	0.016	0.037	0.051	0.032	0.020	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.006	0.006	0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.088	0.18	0.16	0.16	0.056	0.088
7. Chlorophyll-a, µg/L	6.4	8.8	4.6	6.6	0.16	1.2
8. Unionized Ammonia content, mg/L	0.005	0.012	0.008	0.009	0.002	0.004
9. E. coli count, cfu/100ml	4.1 x 10	2.4 x 10	2.8 x 10	2.7 x 10	2.7 x 10	2.4 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.8	1.7	1.4	1.4	1.2	2.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.02	0.03	0.04	<0.01	0.03
4. Nitrate-Nitrogen content, mg/L	0.011	0.011	0.010	0.013	0.011	0.015
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.005	0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.03	0.036	0.047	0.058	0.026	0.048
7. Chlorophyll-a, µg/L	8.6	4.6	2.6	3.3	1.8	3.3
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.002	0.003	<0.001	0.003
9. E. coli count, cfu/100ml	1*	6*	0	0	1*	1.6×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.8	1.9	1.9	2.5	2.7	2.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.07	0.02	0.02	0.03	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.025	0.013	0.016	0.010	0.016	0.028
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.098	0.033	0.037	0.048	0.035	0.043
7. Chlorophyll-a, µg/L	13	3.4	4.7	4.7	2.2	1.3
8. Unionized Ammonia content, mg/L	0.006	0.001	0.001	0.003	0.001	<0.001
9. E. coli count, cfu/100ml	1.8×10^2	2.9 x 10	2.4 x 10	4.6 x 10	6.1 x 10	5.7 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.7	1.9	1.9	1.6	2.1	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.08	0.09	0.01	0.02	<0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	0.027	0.034	0.014	0.008	0.008	0.018
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.11	0.13	0.031	0.036	0.022	0.033
7. Chlorophyll-a, µg/L	8.1	6.1	8.2	4.6	8	2.7
8. Unionized Ammonia content, mg/L	0.007	0.007	0.001	0.002	<0.001	<0.001
9. E. coli count, cfu/100ml	7.4 x 10	9.5 x 10	3.9 x 10	3.5 x 10	2.3 x 10	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.3	1.6	1.9	2	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.01	<0.01	0.02	0.03	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.016	0.015	0.022	0.018	0.008	0.013
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.006	0.006	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.033	0.03	0.046	0.049	0.04	0.05
7. Chlorophyll-a, µg/L	1.6	2.5	3.9	5.7	2.7	2
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.001	0.002	0.002	0.002
9. E. coli count, cfu/100ml	0	1*	1.0 x 10	1.9 x 10	1*	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(7)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	<1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.014	0.026
5. Nitrite-Nitrogen content, mg/L	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.046	0.064
7. Chlorophyll-a, µg/L	3.3	2.2
8. Unionized Ammonia content, mg/L	0.002	0.002
9. E. coli count, cfu/100ml	1*	1.9 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.21	1.28	5.62
			1.89	1.88	0.53
			1.33	1.34	0.75
			2.1	2.2	4.65

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	97.80	3.43	3.57	4.00
		99.05	4.68	4.27	9.16
		101.30	3.75	3.85	2.63
		100.00	3.06	2.97	2.99

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.50	5.2	5.4	3.77
	<0.005	102.50	5.7	5.8	1.74
	<0.005	103.10	4.8	4.8	0.00
	<0.005	100.90	5.9	6.5	9.68

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	100.50	0.023	0.024	4.26
	<0.005	104.33	0.098	0.10	2.02
	<0.005	103.10	0.010	0.011	9.52
	<0.005	98.17	0.032	0.033	3.08

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	92.9	4.4	4.4	0
	<0.01	95.6	7.3	6.5	12.1
	<0.01	99.9	1.3	1.3	0
	<0.01	88.8	2.1	2.2	3.17

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	28	29	2
			15	19	10
			58	57	1
			21	18	7

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2020

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 15/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(8)/1-74
Date of receipt of sample	:	15/12/2023
Date test commenced	:	15/12/2023
Date test completed	:	21/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	2	2.1	1.7	1.8	2.1	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	5	5	5	5
3. Ammoniacal nitrogen content, mg/L	0.11	0.19	0.18	0.24	0.12	0.2
4. Nitrate-Nitrogen content, mg/L	0.026	0.034	0.089	0.074	0.016	0.031
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.007	0.006	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.14	0.23	0.28	0.32	0.14	0.24
7. Chlorophyll-a, µg/L	9.9	9.1	8	7.2	12	4.1
8. Unionized Ammonia content, mg/L	0.009	0.006	0.014	0.01	0.01	0.007
9. E. coli count, cfu/100ml	7*	1.1 x 10	1.6×10^2	1.4×10^2	2*	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	2	1.7	1.6	1.0	1.0	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.18	0.08	0.18	0.09	0.08	0.1
4. Nitrate-Nitrogen content, mg/L	0.041	0.012	0.043	0.028	0.021	0.018
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.22	0.096	0.23	0.12	0.11	0.12
7. Chlorophyll-a, µg/L	5.7	9.3	4.1	3.4	2	2.9
8. Unionized Ammonia content, mg/L	0.007	0.004	0.007	0.006	0.004	0.007
9. E. coli count, cfu/100ml	1.3 x 10	1.5 x 10	1.0 x 10	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	<1	1.4	1.0	1.2	1.6	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.1	0.09	0.13	0.1	0.16	0.33
4. Nitrate-Nitrogen content, mg/L	0.008	<0.005	0.018	0.016	0.059	0.072
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.11	0.099	0.16	0.12	0.22	0.41
7. Chlorophyll-a, µg/L	2.8	2.6	2.3	3.1	6.9	6.7
8. Unionized Ammonia content, mg/L	0.004	0.006	0.007	0.005	0.011	0.014
9. E. coli count, cfu/100ml	0	0	0	0	1.6×10^2	2.1×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	2.0	1.4	2.1	2.1	2.2	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.21	0.12	0.22	0.23	0.11	0.21
4. Nitrate-Nitrogen content, mg/L	0.033	0.036	0.025	0.030	0.014	0.026
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	<0.005	0.006	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.25	0.17	0.25	0.26	0.12	0.24
7. Chlorophyll-a, µg/L	8.6	8.4	1.7	8.3	10	10
8. Unionized Ammonia content, mg/L	0.017	0.004	0.019	0.013	0.003	0.018
9. E. coli count, cfu/100ml	2*	5*	3*	3*	6*	7*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	2.0	1.6	1.6	1.4	1.1	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.15	0.15	0.12	0.13	0.14	0.08
4. Nitrate-Nitrogen content, mg/L	0.016	0.013	0.011	0.011	0.016	0.006
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.17	0.16	0.13	0.15	0.16	0.094
7. Chlorophyll-a, µg/L	3.7	11	11	11	4.9	4.1
8. Unionized Ammonia content, mg/L	0.005	0.011	0.009	0.006	0.009	0.004
9. E. coli count, cfu/100ml	1.1 x 10	7*	1.0 x 10	1.3 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.0	1.8	1.7	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.13	0.09	0.11	0.14	0.17	0.12
4. Nitrate-Nitrogen content, mg/L	0.012	0.020	0.031	0.017	0.025	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.15	0.12	0.15	0.16	0.2	0.14
7. Chlorophyll-a, µg/L	3.8	11	4.5	5	5.5	5.9
8. Unionized Ammonia content, mg/L	0.006	0.007	0.004	0.009	0.01	0.007
9. E. coli count, cfu/100ml	0	1.2 x 10	1.8 x 10	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	<1	1.9	1.9	1.5	1.4	1.9
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	5	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.13	0.16	0.21	0.23	0.17	0.13
4. Nitrate-Nitrogen content, mg/L	0.019	0.026	0.027	0.071	0.068	0.023
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	0.008	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.15	0.19	0.24	0.31	0.25	0.16
7. Chlorophyll-a, µg/L	3.2	10	10	7.2	6.3	7.6
8. Unionized Ammonia content, mg/L	0.008	0.015	0.008	0.022	0.008	0.013
9. E. coli count, cfu/100ml	0	5*	8*	1.8×10^2	1.9×10^2	6*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.9	1.4	1.4	1.4	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.11	0.09	0.1	0.1	0.15	0.13
4. Nitrate-Nitrogen content, mg/L	0.026	0.016	0.025	0.021	0.025	0.029
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.14	0.11	0.13	0.13	0.18	0.17
7. Chlorophyll-a, µg/L	12	4.7	4.6	5.2	3.9	2.6
8. Unionized Ammonia content, mg/L	0.005	0.004	0.005	0.004	0.01	0.006
9. E. coli count, cfu/100ml	7*	1.1 x 10	1.5 x 10	1.4 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	<1	<1	<1	<1	<1	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.11	0.09	0.1	0.13	0.11	0.15
4. Nitrate-Nitrogen content, mg/L	0.021	0.027	0.019	0.022	0.017	0.062
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.13	0.13	0.12	0.16	0.13	0.21
7. Chlorophyll-a, µg/L	4.4	3.9	2.8	5.2	2.7	7.5
8. Unionized Ammonia content, mg/L	0.007	0.004	0.006	0.007	0.005	0.011
9. E. coli count, cfu/100ml	0	0	0	0	0	1.2×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.9	1.7	1.8	1.9	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	4	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.18	0.25	0.18	0.17	0.2	0.19
4. Nitrate-Nitrogen content, mg/L	0.065	0.038	0.030	0.028	0.027	0.036
5. Nitrite-Nitrogen content, mg/L	0.005	0.006	0.006	0.006	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.25	0.29	0.21	0.2	0.23	0.23
7. Chlorophyll-a, µg/L	6.2	5.7	4.9	5.9	6.8	5.7
8. Unionized Ammonia content, mg/L	0.008	0.023	0.008	0.014	0.011	0.008
9. E. coli count, cfu/100ml	1.5×10^2	1.8 x 10	2.0 x 10	8*	1.0 x 10	1.2 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.8	1.9	1.7	1.3	1.3	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	5	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.21	0.21	0.12	0.14	0.16	0.1
4. Nitrate-Nitrogen content, mg/L	0.029	0.027	0.007	0.009	0.010	0.007
5. Nitrite-Nitrogen content, mg/L	0.007	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.24	0.24	0.13	0.15	0.17	0.11
7. Chlorophyll-a, µg/L	7.8	10	6.6	6.4	10	2.5
8. Unionized Ammonia content, mg/L	0.018	0.009	0.01	0.009	0.007	0.006
9. E. coli count, cfu/100ml	5*	1*	8*	1.0 x 10	9*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	<1	<1	1.3	1.5	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.13	0.16	0.07	0.19	0.08	0.1
4. Nitrate-Nitrogen content, mg/L	0.012	0.026	0.016	0.033	0.010	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.15	0.19	0.093	0.23	0.098	0.11
7. Chlorophyll-a, µg/L	2.1	2.5	9.3	6	5.6	4.8
8. Unionized Ammonia content, mg/L	0.006	0.008	0.005	0.007	0.005	0.006
9. E. coli count, cfu/100ml	0	0	1.1 x 10	2.0 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(8)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4
3. Ammoniacal nitrogen content, mg/L	0.13	0.08
4. Nitrate-Nitrogen content, mg/L	0.015	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.15	0.099
7. Chlorophyll-a, µg/L	2.4	6
8. Unionized Ammonia content, mg/L	0.007	0.006
9. E. coli count, cfu/100ml	0	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2016

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.02	1.04	1.94
			1.38	1.34	2.94
			1.22	1.19	2.49
			1.49	1.54	3.30

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	97.38	3.97	3.95	0.51
		100.24	4.16	3.70	11.70
		97.77	3.38	3.85	13.00
		98.90	4.00	4.50	11.76

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.23	5.5	5.6	1.80
	<0.005	102.50	7.8	7.9	1.27
	<0.005	103.50	5.3	5.2	1.90
	<0.005	103.30	4.4	4.4	0.00

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.00	0.12	0.12	0.00
	<0.005	106.00	0.23	0.23	0.00
	<0.005	103.83	0.19	0.19	0.00
	<0.005	102.00	0.08	0.08	0.00

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	108.2	8.7	8.2	6.02
	<0.01	99.1	7.2	7.2	0.98
	<0.01	90.0	5.7	5.8	2.77
	<0.01	92.9	6.0	5.9	0.94

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	16	21	12
			4	6	18
			12	13	3
			1	2	30

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 18/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(9)/1-74
Date of receipt of sample	:	18/12/2023
Date test commenced	:	18/12/2023
Date test completed	:	23/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	2.6	1.9	1.1	1.1	1.3	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	5	6	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.05	0.09	0.09	0.04	0.05
4. Nitrate-Nitrogen content, mg/L	0.019	0.010	0.050	0.053	0.016	0.019
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.011	0.011	0.006	0.006
6. Total Inorganic Nitrogen content, mg/L	0.049	0.065	0.15	0.15	0.066	0.075
7. Chlorophyll-a, µg/L	5.6	5.4	13	4.9	8	3.8
8. Unionized Ammonia content, mg/L	0.002	0.003	0.004	0.004	0.003	0.003
9. E. coli count, cfu/100ml	2*	3*	1.2×10^2	1.5×10^2	8*	7*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.3	1.2	1	1	1	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	7	6	4
3. Ammoniacal nitrogen content, mg/L	0.08	0.06	0.05	0.06	0.06	0.06
4. Nitrate-Nitrogen content, mg/L	0.025	0.011	0.009	0.095	0.086	0.014
5. Nitrite-Nitrogen content, mg/L	0.010	0.009	0.010	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.12	0.081	0.073	0.16	0.15	0.075
7. Chlorophyll-a, µg/L	11	5.7	5.5	2.8	2.6	6.6
8. Unionized Ammonia content, mg/L	0.004	0.003	0.003	0.003	0.003	0.004
9. E. coli count, cfu/100ml	3*	4*	4*	2*	3*	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.1	1.2	1.3	1.2	2.5	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	6	6
3. Ammoniacal nitrogen content, mg/L	0.04	0.08	0.05	0.06	0.12	0.08
4. Nitrate-Nitrogen content, mg/L	0.007	0.016	<0.005	0.009	0.045	0.049
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	0.011	0.011
6. Total Inorganic Nitrogen content, mg/L	0.052	0.099	0.058	0.07	0.18	0.14
7. Chlorophyll-a, µg/L	7.1	4.5	13	3.1	12	4
8. Unionized Ammonia content, mg/L	0.003	0.005	0.003	0.003	0.005	0.003
9. E. coli count, cfu/100ml	1*	0	1*	1*	2.3×10^2	2.6×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.2	1.7	1.8	1.8	1.7	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.05	0.03	0.04	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.023	0.021	0.024	0.012	0.013	0.013
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.065	0.078	0.062	0.058	0.05	0.052
7. Chlorophyll-a, µg/L	4.3	8.1	8.4	6.6	6.1	6
8. Unionized Ammonia content, mg/L	0.002	0.003	0.002	0.003	0.002	0.002
9. E. coli count, cfu/100ml	6*	8*	1*	2*	2*	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.6	1.2	1.5	1.2	1.3	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	3	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.02	0.03	0.04	0.05
4. Nitrate-Nitrogen content, mg/L	0.012	0.014	0.007	0.012	0.012	0.019
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.054	0.051	0.036	0.045	0.061	0.071
7. Chlorophyll-a, µg/L	6	9.9	4.8	2.4	2.4	3.4
8. Unionized Ammonia content, mg/L	0.003	0.002	0.002	0.002	0.003	0.003
9. E. coli count, cfu/100ml	3*	2*	1*	3*	0	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	<1	1.5	1.2	1.1	1.3	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.07	0.06	0.03	0.05	0.03
4. Nitrate-Nitrogen content, mg/L	0.007	0.025	0.021	<0.005	0.014	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	0.010	0.010	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.052	0.11	0.087	0.041	0.068	0.046
7. Chlorophyll-a, µg/L	9.1	2.4	4.3	2.8	4.3	4.1
8. Unionized Ammonia content, mg/L	0.002	0.003	0.003	0.002	0.003	0.002
9. E. coli count, cfu/100ml	2*	6*	4*	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	<1	1.6	1.5	1.1	1	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	5	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.04	0.04	0.08	0.08	0.02
4. Nitrate-Nitrogen content, mg/L	0.061	0.007	0.007	0.035	0.056	0.020
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.011	0.011	0.006
6. Total Inorganic Nitrogen content, mg/L	0.1	0.054	0.052	0.13	0.15	0.048
7. Chlorophyll-a, µg/L	4.4	5	7.2	5.2	2.6	5.6
8. Unionized Ammonia content, mg/L	0.002	0.003	0.002	0.003	0.003	0.001
9. E. coli count, cfu/100ml	4*	2*	1*	2.8×10^2	2.0×10^2	1.0 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	2.1	<1	<1	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	4	5
3. Ammoniacal nitrogen content, mg/L	0.04	0.07	0.06	0.05	0.05	0.05
4. Nitrate-Nitrogen content, mg/L	0.017	0.023	0.026	0.013	0.056	0.083
5. Nitrite-Nitrogen content, mg/L	0.007	0.010	0.009	0.010	0.006	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.063	0.1	0.092	0.07	0.11	0.13
7. Chlorophyll-a, µg/L	5.4	6.4	5.4	2.4	18	3.4
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.002	0.003	0.002
9. E. coli count, cfu/100ml	4*	5*	4*	3*	0	4*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	<1	1.1	1.2	1.1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.04	0.04	0.04	0.04	0.08
4. Nitrate-Nitrogen content, mg/L	0.015	0.017	0.014	0.012	0.015	0.028
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	0.012
6. Total Inorganic Nitrogen content, mg/L	0.055	0.063	0.057	0.058	0.059	0.12
7. Chlorophyll-a, µg/L	11	0.4	4.6	4.4	6.4	2.7
8. Unionized Ammonia content, mg/L	0.002	0.003	0.003	0.003	0.002	0.003
9. E. coli count, cfu/100ml	0	0	0	1*	1*	3.2×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	<1	<1	1.2	1.2	1.4	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	6	5	4	3	6
3. Ammoniacal nitrogen content, mg/L	0.08	0.05	0.03	0.04	0.06	0.03
4. Nitrate-Nitrogen content, mg/L	0.070	0.027	0.014	0.007	0.019	0.009
5. Nitrite-Nitrogen content, mg/L	0.011	0.006	0.006	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.17	0.08	0.053	0.046	0.079	0.041
7. Chlorophyll-a, µg/L	5.5	6.2	9.8	20	18	6.6
8. Unionized Ammonia content, mg/L	0.003	0.003	0.002	0.002	0.004	0.001
9. E. coli count, cfu/100ml	3.1×10^2	4*	6*	3*	0	0.5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.9	1.8	<1	1.1	1.1	1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	5	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.06	0.05	0.04	0.04	0.04
4. Nitrate-Nitrogen content, mg/L	0.012	0.026	0.012	0.010	0.008	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.059	0.09	0.063	0.051	0.055	0.057
7. Chlorophyll-a, µg/L	8.4	4.6	5	4.2	4.4	3.1
8. Unionized Ammonia content, mg/L	0.003	0.003	0.003	0.002	0.003	0.002
9. E. coli count, cfu/100ml	1*	2*	3*	3*	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.9	1.3	<1	<1	1.1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	4	4	4	5
3. Ammoniacal nitrogen content, mg/L	0.05	0.05	0.07	0.07	0.05	0.06
4. Nitrate-Nitrogen content, mg/L	0.011	0.019	0.028	0.028	0.012	0.019
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.010	0.010	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.064	0.077	0.11	0.11	0.065	0.08
7. Chlorophyll-a, µg/L	4.1	4.7	3.6	4	4.8	3.7
8. Unionized Ammonia content, mg/L	0.003	0.003	0.003	0.003	0.003	0.003
9. E. coli count, cfu/100ml	1*	2*	4*	3*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(9)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.3	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	6
3. Ammoniacal nitrogen content, mg/L	0.04	0.05
4. Nitrate-Nitrogen content, mg/L	0.010	0.063
5. Nitrite-Nitrogen content, mg/L	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.059	0.12
7. Chlorophyll-a, µg/L	4.5	5.1
8. Unionized Ammonia content, mg/L	0.003	0.003
9. E. coli count, cfu/100ml	0	1.5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.03	1.04	0.97
			1.72	1.75	1.73
			1.19	1.14	4.29
			1.13	1.19	5.17

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	98.13	4.47	4.30	3.88
		95.55	4.60	4.55	1.09
		101.10	5.75	5.45	5.36
		101.00	6.00	6.20	3.28

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	100.00	5.8	5.7	1.74
	<0.005	102.23	10.4	10.7	2.84
	<0.005	101.50	3.4	4.0	16.22
	<0.005	103.50	5.4	5.3	1.87

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2015

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	98.93	0.052	0.053	1.90
	<0.005	103.83	0.082	0.082	0.00
	<0.005	104.50	0.028	0.029	3.51
	<0.005	101.67	0.053	0.055	3.70

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	96.3	7.7	8.5	9.63
	<0.01	105.4	5.1	5.3	4.25
	<0.01	95.9	6.7	6.4	3.74
	<0.01	92.6	5.1	5.0	2.62

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	26	30	6
			6	9	18
			2	1	30
			0	0	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 20/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(10)/1-74
Date of receipt of sample	:	20/12/2023
Date test commenced	:	20/12/2023
Date test completed	:	25/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.7	1.9	1.5	1.3	1.5	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	7	7	6	4	5	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.04	0.03	0.04	0.02	0.04
4. Nitrate-Nitrogen content, mg/L	0.024	0.025	0.037	0.036	0.026	0.026
5. Nitrite-Nitrogen content, mg/L	0.009	0.009	0.012	0.012	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.059	0.069	0.081	0.088	0.054	0.069
7. Chlorophyll-a, µg/L	3.8	5.1	2.1	4.1	9.1	5
8. Unionized Ammonia content, mg/L	0.001	0.002	0.001	0.001	<0.001	0.001
9. E. coli count, cfu/100ml	2.8 x 10	2.3 x 10	3*	5*	2.9 x 10	2.2 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.5	1.3	1.2	1.3	1.2	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	3	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.04	0.01	0.03	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.033	0.027	0.018	0.011	0.018	0.019
5. Nitrite-Nitrogen content, mg/L	0.012	0.012	0.012	0.008	0.008	0.009
6. Total Inorganic Nitrogen content, mg/L	0.082	0.078	0.041	0.046	0.039	0.041
7. Chlorophyll-a, µg/L	4.6	5.3	4.2	3.7	2.4	11
8. Unionized Ammonia content, mg/L	0.002	0.002	<0.001	0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	0	1*	4*	0	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.4	1.3	1.4	1.3	1.2	1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	<0.01	<0.01	<0.01	0.02	0.04	0.01
4. Nitrate-Nitrogen content, mg/L	0.011	0.014	0.015	0.014	0.023	0.016
5. Nitrite-Nitrogen content, mg/L	0.008	0.008	0.009	0.009	0.012	0.012
6. Total Inorganic Nitrogen content, mg/L	0.025	0.024	0.027	0.045	0.073	0.043
7. Chlorophyll-a, µg/L	6.6	13	3.4	6.2	5.1	4.9
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	0.001	0.002	<0.001
9. E. coli count, cfu/100ml	2*	1*	2*	3*	2*	2*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.4	1.3	1.4	1.4	1.5	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	<0.01	0.02	0.06	0.02	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.018	<0.005	0.006	0.015	0.014	0.017
5. Nitrite-Nitrogen content, mg/L	0.007	0.008	0.008	0.009	0.008	0.008
6. Total Inorganic Nitrogen content, mg/L	0.033	0.027	0.069	0.046	0.051	0.063
7. Chlorophyll-a, µg/L	6.2	8.1	1.8	3.5	6.7	7.8
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.003	<0.001	0.001	0.002
9. E. coli count, cfu/100ml	2.3 x 10	2.7 x 10	2.2 x 10	1.6 x 10	1.2 x 10	3.1 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

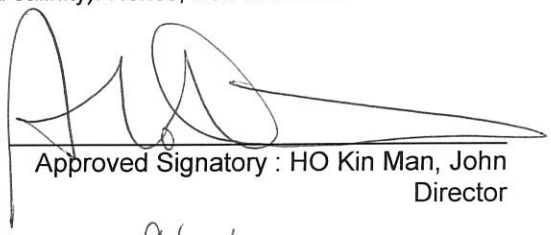
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.5	1.1	1.3	1.3	1.4	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.01	0.02	0.01	<0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.019	0.009	0.006	0.010	0.009	0.010
5. Nitrite-Nitrogen content, mg/L	0.009	0.011	0.011	0.011	0.009	0.009
6. Total Inorganic Nitrogen content, mg/L	0.045	0.032	0.037	0.035	0.027	0.033
7. Chlorophyll-a, µg/L	5.3	4.2	3.9	3.2	4.6	5.9
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	2.3 x 10	2.6 x 10	1.2 x 10	2.0 x 10	5*	3*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

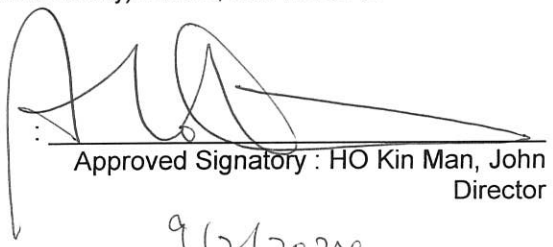
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.4	1.3	1	<1	<1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	6	5	5	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.01	0.02	0.01	0.02	<0.01
4. Nitrate-Nitrogen content, mg/L	<0.005	0.012	0.012	0.007	0.012	0.009
5. Nitrite-Nitrogen content, mg/L	0.009	0.013	0.012	0.009	0.009	0.009
6. Total Inorganic Nitrogen content, mg/L	0.031	0.035	0.039	0.03	0.036	0.024
7. Chlorophyll-a, µg/L	4.5	7	2.3	4.6	5.5	5.8
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	4*	2*	2*	4*	1*	9*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.3	1.4	1.4	1.1	1.4	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	5	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.02	0.02	0.02	0.05	0.02
4. Nitrate-Nitrogen content, mg/L	0.008	0.014	0.011	0.007	0.024	0.012
5. Nitrite-Nitrogen content, mg/L	0.008	0.009	0.008	0.013	0.013	0.008
6. Total Inorganic Nitrogen content, mg/L	0.027	0.041	0.041	0.037	0.083	0.042
7. Chlorophyll-a, µg/L	4.5	13	4.7	4	2.2	2.4
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.001	<0.001	0.002	<0.001
9. E. coli count, cfu/100ml	1*	2.7 x 10	2.3 x 10	0	1*	1.7 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.4	1.2	1.1	1.1	1.3	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3	4	4	5	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.01	0.01	0.01	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.018	0.015	0.011	0.014	0.012	0.011
5. Nitrite-Nitrogen content, mg/L	0.008	0.012	0.013	0.013	0.008	0.009
6. Total Inorganic Nitrogen content, mg/L	0.043	0.038	0.038	0.039	0.042	0.032
7. Chlorophyll-a, µg/L	2.8	1.8	3.7	3.8	2.8	2.9
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	2.4 x 10	2*	3*	2*	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.3	1.3	1.3	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.02	<0.01	<0.01	<0.01	<0.01	0.04
4. Nitrate-Nitrogen content, mg/L	0.009	0.008	0.010	0.013	0.015	0.020
5. Nitrite-Nitrogen content, mg/L	0.009	0.008	0.009	0.009	0.008	0.014
6. Total Inorganic Nitrogen content, mg/L	0.039	0.023	0.029	0.032	0.031	0.077
7. Chlorophyll-a, µg/L	3	3.4	5.7	2.9	4.1	3.2
8. Unionized Ammonia content, mg/L	0.001	<0.001	<0.001	<0.001	<0.001	0.002
9. E. coli count, cfu/100ml	1*	1*	1*	5*	9*	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.4	1.4	1.4	1.1	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	4	4	4	5
3. Ammoniacal nitrogen content, mg/L	0.02	0.04	0.04	0.07	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.007	0.011	0.011	0.014	0.019	0.027
5. Nitrite-Nitrogen content, mg/L	0.013	0.007	0.009	0.008	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.037	0.06	0.063	0.094	0.041	0.052
7. Chlorophyll-a, µg/L	2.5	4.2	3	4.7	4.9	6.6
8. Unionized Ammonia content, mg/L	<0.001	0.002	0.002	0.003	<0.001	<0.001
9. E. coli count, cfu/100ml	4*	1.7 x 10	2.0 x 10	3.4 x 10	1.5 x 10	1.9 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

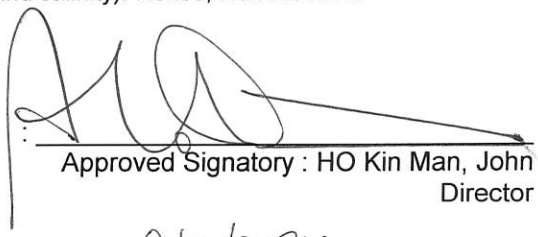
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.2	1.1	1.1	1.1	1.1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	5
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.02	0.01	<0.01	0.05
4. Nitrate-Nitrogen content, mg/L	0.016	0.012	0.009	0.009	<0.005	0.005
5. Nitrite-Nitrogen content, mg/L	0.007	0.010	0.010	0.010	0.008	0.008
6. Total Inorganic Nitrogen content, mg/L	0.055	0.051	0.037	0.032	0.021	0.063
7. Chlorophyll-a, µg/L	3.1	4.3	5.4	3.7	3	3.6
8. Unionized Ammonia content, mg/L	0.001	0.001	<0.001	<0.001	<0.001	0.002
9. E. coli count, cfu/100ml	2.8 x 10	2.9 x 10	1.3 x 10	2.3 x 10	1.5 x 10	5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.1	1.2	1	1.2	1.2	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	<0.01	0.02	0.01	0.05	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.008	0.008	0.017	0.014	0.019	0.009
5. Nitrite-Nitrogen content, mg/L	0.009	0.013	0.009	0.012	0.009	0.012
6. Total Inorganic Nitrogen content, mg/L	0.023	0.041	0.037	0.072	0.049	0.037
7. Chlorophyll-a, µg/L	2.8	2.5	1.9	2.8	3.1	4.9
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
9. E. coli count, cfu/100ml	1*	2*	3*	2*	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(10)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.2	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.013	0.062
5. Nitrite-Nitrogen content, mg/L	0.008	0.009
6. Total Inorganic Nitrogen content, mg/L	0.04	0.083
7. Chlorophyll-a, µg/L	2.8	1.7
8. Unionized Ammonia content, mg/L	<0.001	<0.001
9. E. coli count, cfu/100ml	2*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.21	1.28	5.62
			1.32	1.28	3.08
			1.38	1.31	5.20
			1.15	1.10	4.44

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	101.14	3.95	4.11	3.97
		100.93	3.53	3.94	10.98
		98.48	5.28	5.63	6.42
		102.32	3.30	3.59	8.42

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.50	8.14	8.03	1.36
	<0.005	103.25	12.4	12.7	2.39
	<0.005	103.50	7.07	7.23	2.24
	<0.005	103.00	8.57	8.84	3.10

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	111.50	0.018	0.017	5.71
	<0.005	107.50	0.018	0.017	5.71
	<0.005	109.50	0.018	0.017	5.71
	<0.005	109.50	0.013	0.014	7.41

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	110.2	8.4	7.8	6.99
	<0.01	91.3	4.1	4.0	2.79
	<0.01	113.6	7.0	6.1	13.53
	<0.01	95.7	1.6	1.8	10.66

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	24	31	11
			1	1	0
			0	0	0
			0	0	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 22/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(11)/1-74
Date of receipt of sample	:	22/12/2023
Date test commenced	:	22/12/2023
Date test completed	:	31/12/2023
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.4	1.5	1.6	1.6	1.4	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	7	6	5	4
3. Ammoniacal nitrogen content, mg/L	0.11	0.09	0.13	0.12	0.09	0.12
4. Nitrate-Nitrogen content, mg/L	0.019	0.020	0.018	0.019	0.017	0.026
5. Nitrite-Nitrogen content, mg/L	0.008	0.007	0.009	0.008	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.14	0.11	0.16	0.15	0.12	0.15
7. Chlorophyll-a, µg/L	8.9	9.3	9	9	9.7	8.7
8. Unionized Ammonia content, mg/L	0.004	0.003	0.005	0.004	0.003	0.004
9. E. coli count, cfu/100ml	3*	7*	3.2 x 10	2.9 x 10	5*	5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.3	1.5	1.2	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	5	6	7	6
3. Ammoniacal nitrogen content, mg/L	0.1	0.1	0.21	0.07	0.08	0.11
4. Nitrate-Nitrogen content, mg/L	0.018	0.015	0.023	0.008	0.009	0.019
5. Nitrite-Nitrogen content, mg/L	0.008	0.008	0.009	0.006	0.006	0.007
6. Total Inorganic Nitrogen content, mg/L	0.13	0.12	0.24	0.089	0.093	0.14
7. Chlorophyll-a, µg/L	5.5	7.9	5.3	5.3	5.3	6.4
8. Unionized Ammonia content, mg/L	0.003	0.003	0.006	0.002	0.002	0.004
9. E. coli count, cfu/100ml	7*	2*	4*	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.1	<1	1.4	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	9	6	4	4	5	6
3. Ammoniacal nitrogen content, mg/L	0.12	0.07	0.11	0.07	0.11	0.12
4. Nitrate-Nitrogen content, mg/L	0.013	0.013	0.014	0.008	0.015	0.018
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	0.007	0.008	0.008	0.008
6. Total Inorganic Nitrogen content, mg/L	0.14	0.095	0.13	0.091	0.13	0.15
7. Chlorophyll-a, µg/L	4.4	5.4	5.4	5.9	6.9	6.4
8. Unionized Ammonia content, mg/L	0.004	0.003	0.004	0.003	0.004	0.004
9. E. coli count, cfu/100ml	0	0	0	0	2.8 x 10	3.3 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.9	1.8	1.6	1.6	1.5	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	4	6	6	5	5
3. Ammoniacal nitrogen content, mg/L	0.08	0.1	0.08	0.09	0.11	0.12
4. Nitrate-Nitrogen content, mg/L	0.015	0.030	0.014	0.029	0.021	0.022
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	0.007	<0.005	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.11	0.14	0.099	0.12	0.14	0.15
7. Chlorophyll-a, µg/L	9.9	9.3	6.4	7.7	9.9	12
8. Unionized Ammonia content, mg/L	0.003	0.003	0.003	0.003	0.004	0.004
9. E. coli count, cfu/100ml	8*	1.0 x 10	6*	7*	8*	1.0 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.7	1.8	1.4	1.8	1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	5	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.08	0.08	0.12	0.1	0.09	0.08
4. Nitrate-Nitrogen content, mg/L	0.013	0.008	0.013	0.006	0.009	0.008
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.006	0.006	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.094	0.095	0.14	0.11	0.1	0.091
7. Chlorophyll-a, µg/L	12	13	13	11	5.3	5
8. Unionized Ammonia content, mg/L	0.003	0.003	0.004	0.003	0.003	0.003
9. E. coli count, cfu/100ml	8*	2*	6*	2*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.1	1.2	1.1	1.1	1.1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	6	5	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.07	0.16	0.13	0.11	0.09	0.07
4. Nitrate-Nitrogen content, mg/L	0.010	0.017	0.019	0.013	0.016	0.006
5. Nitrite-Nitrogen content, mg/L	0.008	0.009	0.008	0.007	0.008	0.006
6. Total Inorganic Nitrogen content, mg/L	0.085	0.19	0.16	0.13	0.12	0.085
7. Chlorophyll-a, µg/L	6.2	7.1	7.3	5.3	6.2	4.9
8. Unionized Ammonia content, mg/L	0.002	0.005	0.004	0.004	0.003	0.003
9. E. coli count, cfu/100ml	0	8*	7*	0	1*	1*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.2	1.7	1.7	1.6	1.8	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	6	5	5	6	5
3. Ammoniacal nitrogen content, mg/L	0.14	0.09	0.08	0.1	0.07	0.09
4. Nitrate-Nitrogen content, mg/L	0.017	0.014	0.015	0.024	0.014	0.019
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.007	0.008	0.008	0.007
6. Total Inorganic Nitrogen content, mg/L	0.16	0.11	0.1	0.13	0.095	0.12
7. Chlorophyll-a, µg/L	4.6	9.1	6	8.1	5.2	7.2
8. Unionized Ammonia content, mg/L	0.004	0.003	0.003	0.003	0.003	0.003
9. E. coli count, cfu/100ml	2*	1.0 x 10	1.0 x 10	3.6 x 10	4.5 x 10	4*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

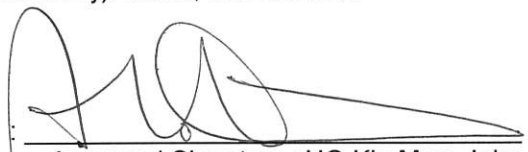
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.7	1.3	1.4	1.6	1.6	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	5	5	5	5
3. Ammoniacal nitrogen content, mg/L	0.13	0.11	0.07	0.08	0.1	0.07
4. Nitrate-Nitrogen content, mg/L	0.025	0.021	0.012	0.017	0.007	0.007
5. Nitrite-Nitrogen content, mg/L	0.007	0.009	0.008	0.008	0.007	0.006
6. Total Inorganic Nitrogen content, mg/L	0.16	0.14	0.094	0.11	0.11	0.086
7. Chlorophyll-a, µg/L	6.8	4.8	2.1	6	2.5	3.4
8. Unionized Ammonia content, mg/L	0.004	0.002	0.002	0.002	0.003	0.002
9. E. coli count, cfu/100ml	1.0 x 10	3*	5*	8*	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.4	1.4	1.1	1.3	1.3	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	6	4	4	4	7
3. Ammoniacal nitrogen content, mg/L	0.11	0.1	0.08	0.09	0.09	0.09
4. Nitrate-Nitrogen content, mg/L	0.019	0.014	0.007	0.011	0.015	0.011
5. Nitrite-Nitrogen content, mg/L	0.006	0.007	0.007	0.007	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.14	0.12	0.091	0.11	0.12	0.11
7. Chlorophyll-a, µg/L	5.1	3.4	5.3	4.4	6.4	5.2
8. Unionized Ammonia content, mg/L	0.004	0.003	0.003	0.003	0.003	0.004
9. E. coli count, cfu/100ml	1*	1*	2*	0	0	3.5 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

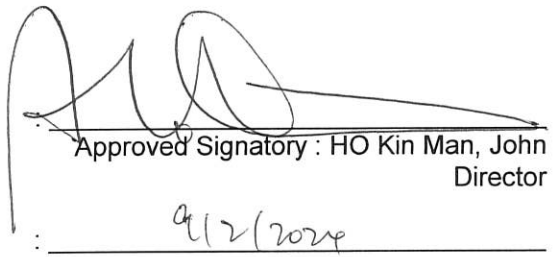
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.7	1.9	1.8	1.6	1.6	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	7	5	5	6	5	5
3. Ammoniacal nitrogen content, mg/L	0.08	0.09	0.12	0.1	0.09	0.1
4. Nitrate-Nitrogen content, mg/L	0.010	0.014	0.020	0.016	0.015	0.029
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	0.007	0.007	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.096	0.11	0.14	0.12	0.12	0.14
7. Chlorophyll-a, µg/L	7.4	5	5.8	5.9	6.1	6.5
8. Unionized Ammonia content, mg/L	0.003	0.004	0.004	0.003	0.003	0.003
9. E. coli count, cfu/100ml	4.1 x 10	6*	8*	8*	9*	7*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.6	1.8	1.7	1.7	1.4	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	5	6	5	5
3. Ammoniacal nitrogen content, mg/L	0.1	0.08	0.07	0.09	0.08	0.12
4. Nitrate-Nitrogen content, mg/L	0.018	0.013	0.008	0.011	0.008	0.010
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.006	0.006	0.006	0.007
6. Total Inorganic Nitrogen content, mg/L	0.12	0.1	0.088	0.11	0.095	0.13
7. Chlorophyll-a, µg/L	11	7.7	5	13	10	3.2
8. Unionized Ammonia content, mg/L	0.003	0.003	0.002	0.003	0.003	0.004
9. E. coli count, cfu/100ml	4*	8*	0	1*	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.2	1.6	1.8	1.5	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	5	4	4	6	4
3. Ammoniacal nitrogen content, mg/L	0.14	0.08	0.09	0.19	0.08	0.1
4. Nitrate-Nitrogen content, mg/L	0.016	0.006	0.012	0.021	0.008	0.008
5. Nitrite-Nitrogen content, mg/L	0.007	0.007	0.008	0.008	0.007	0.007
6. Total Inorganic Nitrogen content, mg/L	0.16	0.094	0.11	0.22	0.099	0.11
7. Chlorophyll-a, µg/L	5.2	4.1	2.7	5	3.2	4.6
8. Unionized Ammonia content, mg/L	0.005	0.003	0.002	0.005	0.003	0.003
9. E. coli count, cfu/100ml	1*	0	8*	2*	1*	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(11)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.6	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	6
3. Ammoniacal nitrogen content, mg/L	0.11	0.1
4. Nitrate-Nitrogen content, mg/L	0.011	0.013
5. Nitrite-Nitrogen content, mg/L	0.007	0.006
6. Total Inorganic Nitrogen content, mg/L	0.13	0.12
7. Chlorophyll-a, µg/L	5.2	2.1
8. Unionized Ammonia content, mg/L	0.004	0.003
9. E. coli count, cfu/100ml	1*	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

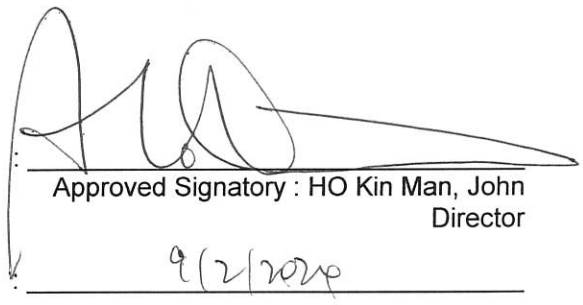
Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.01	1.06	4.8
			2.06	2.16	4.7
			1.40	1.46	4.2
			2.12	2.18	2.8

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	99.09	3.96	4.26	7.3
		97.39	3.79	4.19	10.0
		101.22	3.92	4.20	6.9
		102.55	3.29	3.20	2.8

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.00	4.6	5.3	14.1
	<0.005	102.00	20.2	20.4	1.0
	<0.005	102.20	14.3	14.4	0.7
	<0.005	102.50	3.2	3.1	3.2

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	97.83	0.21	0.20	4.9
	<0.005	111.00	0.51	0.49	4.0
	<0.005	108.67	0.23	0.23	0.0
	<0.005	107.83	0.07	0.07	0.0

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	96.4	3.7	3.7	0.0
	<0.01	86.0	2.9	2.6	10.9
	<0.01	99.1	3.8	4.0	5.1
	<0.01	81.3	2.2	2.1	4.7

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	30	24	5.96
			15	20	12.49
			52	60	20.41
			2	2	

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 26/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(12)/1-74
Date of receipt of sample	:	26/12/2023
Date test commenced	:	26/12/2023
Date test completed	:	02/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.5	1.3	1.3	1.2	1.3	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	6	7	5	5	4
3. Ammoniacal nitrogen content, mg/L	0.01	<0.01	0.03	<0.01	0.02	<0.01
4. Nitrate-Nitrogen content, mg/L	<0.005	<0.005	0.012	0.007	<0.005	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.017	0.016	0.048	0.021	0.022	0.009
7. Chlorophyll-a, µg/L	5.6	4.9	6.2	6.7	3.3	6
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	3.0 x 10	3.8 x 10	4.6 x 10	4.8 x 10	3.5 x 10	3.7 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.4	<1	<1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	5	4	5	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.04	0.02	<0.01	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.007	0.007	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.021	0.046	0.028	0.02	0.023	0.025
7. Chlorophyll-a, µg/L	2.9	4.9	2.6	2	2.8	11
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	2.4 x 10	1.9 x 10	1.6 x 10	1*	0	8*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.1	1.3	1.2	1.2	1.2	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	4	4	5	4
3. Ammoniacal nitrogen content, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
4. Nitrate-Nitrogen content, mg/L	<0.005	0.024	0.024	0.024	0.006	0.015
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.013	0.035	0.039	0.034	0.018	0.043
7. Chlorophyll-a, µg/L	2.8	2.3	2.8	4.3	3.7	4.2
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	4*	1*	0	1*	4.8 x 10	5.2 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.2	1.3	1.2	1.4	1.2	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	4	3	4	4
3. Ammoniacal nitrogen content, mg/L	<0.01	<0.01	0.08	0.04	<0.01	0.02
4. Nitrate-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.016	0.01	0.087	0.047	0.012	0.024
7. Chlorophyll-a, µg/L	3.8	6.9	2.3	1.9	2.9	4.2
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.003	0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	3.5 x 10	2.2 x 10	3.6 x 10	3.2 x 10	2.9 x 10	2.6 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.2	1.2	1.3	1.2	1.4	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	4	4	3	5
3. Ammoniacal nitrogen content, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
4. Nitrate-Nitrogen content, mg/L	<0.005	0.009	0.007	0.008	0.024	0.029
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.013	0.021	0.014	0.018	0.033	0.045
7. Chlorophyll-a, µg/L	4.7	3.1	4.8	5.5	4.2	5.2
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	3.0 x 10	7.9 x 10	7.4 x 10	1.0 x 10^{2}*	1*	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.4	1.4	1.4	1.4	1.4	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	<0.01	0.05	<0.01	<0.01	<0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	0.030	<0.005	<0.005	0.025	0.026	0.024
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.044	0.059	0.017	0.037	0.035	0.034
7. Chlorophyll-a, µg/L	3	4.8	3.2	4	4.7	3
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	0	1.6 x 10	3.6 x 10	1*	1*	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2022

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1	1.4	1.4	1.3	1.2	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	<0.01	0.01	0.05	0.03	0.03	<0.01
4. Nitrate-Nitrogen content, mg/L	0.008	<0.005	<0.005	0.021	0.017	0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.02	0.018	0.062	0.056	0.049	0.015
7. Chlorophyll-a, µg/L	3.2	2.5	1.9	4.3	1.4	1.5
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	0	3.7 x 10	2.9 x 10	4.7 x 10	4.8 x 10	2.5 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.4	1.2	1.2	1.5	1.2	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	4	4	4
3. Ammoniacal nitrogen content, mg/L	<0.01	0.02	0.02	0.04	<0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.015	0.033	0.031	0.048	0.013	0.021
7. Chlorophyll-a, µg/L	2.8	2.9	2.6	1.9	2.7	2.9
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	3.0 x 10	1.1 x 10	1.5 x 10	2.1 x 10	2*	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.2	1.1	1.4	1.5	1.5	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	<0.005	<0.005	0.021	0.024	0.022	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.015	0.012	0.03	0.035	0.034	0.019
7. Chlorophyll-a, µg/L	1.8	1.8	1.9	2.7	3.5	2.7
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	1*	4*	0	0	0	4.9 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.5	1.5	1.4	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	<0.01	0.01	0.03	0.03	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.011	<0.005	<0.005	<0.005	<0.005	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.021	0.018	0.035	0.035	0.028	0.035
7. Chlorophyll-a, µg/L	6.1	5.7	5.7	4.1	4.7	14
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.001	0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	3.9 x 10	3.8 x 10	2.8 x 10	2.8 x 10	3.1 x 10	3.5 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.6	1.4	1.5	1.4	1.9	4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	<0.01	0.04	<0.01	<0.01	<0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	<0.005	<0.005	0.006	0.007	0.009	0.034
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.011	0.043	0.015	0.014	0.016	0.049
7. Chlorophyll-a, µg/L	1.7	1.3	1.6	3.5	3.7	3
8. Unionized Ammonia content, mg/L	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	3.5 x 10	2.3 x 10	1.1 x 10^{2}*	9.0 x 10	1.0 x 10^{2}*	1*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	2	2.1	2.1	1.8	2.1	2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.01	<0.01	<0.01	0.03	<0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	0.023	0.026	<0.005	<0.005	0.029	0.009
5. Nitrite-Nitrogen content, mg/L	0.006	0.007	0.006	0.005	0.006	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.039	0.037	0.017	0.04	0.041	0.015
7. Chlorophyll-a, µg/L	2.5	4.4	3.1	2.8	4.5	3
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	0	0	1.0 x 10	1.6 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

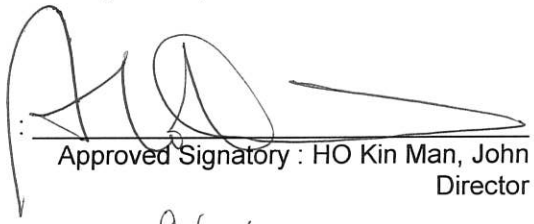
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(12)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.7	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4
3. Ammoniacal nitrogen content, mg/L	<0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	0.026	0.008
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.034	0.017
7. Chlorophyll-a, µg/L	5.3	14
8. Unionized Ammonia content, mg/L	<0.001	<0.001
9. E. coli count, cfu/100ml	0	1 *

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.01	1.06	4.8
			2.06	2.16	4.7
			1.40	1.46	4.2
			2.12	2.18	2.8

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	100.82	3.96	4.26	7.3
		100.21	3.79	4.19	10.0
		97.93	3.92	4.20	6.9
		100.40	3.29	3.20	2.8

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	97.85	4.6	5.3	14.1
	<0.005	104.50	20.2	20.4	1.0
	<0.005	103.00	14.3	14.4	0.7
	<0.005	103.50	3.2	3.1	3.2

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.67	0.21	0.20	4.9
	<0.005	102.17	0.51	0.49	4.0
	<0.005	104.50	0.23	0.23	0.0
	<0.005	101.08	0.07	0.07	0.0

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	96.4	3.7	3.7	0.0
	<0.01	86.0	2.9	2.6	10.9
	<0.01	99.1	3.8	4.0	5.1
	<0.01	81.3	2.2	2.1	4.7

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	30	24	5.80
			15	20	0.91
			52	60	1.22
			2	2	0.00

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 28/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(13)/1-74
Date of receipt of sample	:	28/12/2023
Date test commenced	:	28/12/2023
Date test completed	:	02/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	<1	<1	1.1	1.2	1.1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	6	6	5	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.05	0.13	0.06	0.1	0.18
4. Nitrate-Nitrogen content, mg/L	0.013	0.014	0.094	0.016	0.022	0.122
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.007	0.005	<0.005	0.007
6. Total Inorganic Nitrogen content, mg/L	0.089	0.067	0.23	0.079	0.13	0.31
7. Chlorophyll-a, µg/L	0.99	1.1	2.4	5.4	7.7	4.7
8. Unionized Ammonia content, mg/L	0.003	0.001	0.005	0.002	0.004	0.007
9. E. coli count, cfu/100ml	2*	2*	4.5×10^2	5.0×10^2	4.1 x 10	3.5 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

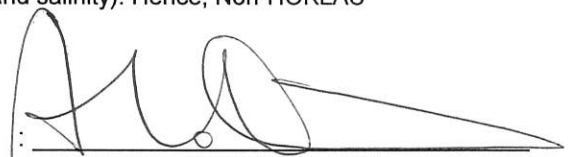
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.2	1.5	1.3	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.08	0.1	0.12	0.06	0.05	0.06
4. Nitrate-Nitrogen content, mg/L	0.035	0.036	0.060	0.022	0.017	0.016
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.007	0.006	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.12	0.14	0.19	0.085	0.076	0.084
7. Chlorophyll-a, µg/L	2.4	2.3	3.1	1.8	4.3	2.8
8. Unionized Ammonia content, mg/L	0.002	0.003	0.004	0.002	0.002	0.003
9. E. coli count, cfu/100ml	6.7×10^2	5.9×10^2	6.6×10^2	1*	3*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	<1	<1	<1	<1	1.3	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.04	0.03	0.04	0.06	0.04
4. Nitrate-Nitrogen content, mg/L	0.014	0.011	0.007	0.008	0.038	0.031
5. Nitrite-Nitrogen content, mg/L	0.006	0.005	<0.005	<0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.074	0.056	0.042	0.056	0.11	0.08
7. Chlorophyll-a, µg/L	1.4	3.1	1.2	3	1.8	1.6
8. Unionized Ammonia content, mg/L	0.002	0.002	0.001	0.002	0.003	0.001
9. E. coli count, cfu/100ml	0	0	0	0	8.8×10^2	9.7×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	<1	<1	<1	<1	<1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.04	0.06	0.05	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.027	0.023	0.026	0.022	0.011	0.007
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	0.006	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.088	0.071	0.087	0.076	0.042	0.046
7. Chlorophyll-a, µg/L	3.2	16	1.7	1.9	2.9	2.5
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.002	<0.001	0.002
9. E. coli count, cfu/100ml	4.0 x 10	4.5 x 10	2*	1*	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1	1.2	1.3	1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	4	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.03	0.04	0.03	0.04	0.03
4. Nitrate-Nitrogen content, mg/L	0.023	0.016	0.023	0.019	0.013	0.011
5. Nitrite-Nitrogen content, mg/L	0.016	<0.005	0.006	<0.005	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.093	0.049	0.072	0.056	0.053	0.05
7. Chlorophyll-a, µg/L	3.2	4.8	3.5	3	2.1	2.7
8. Unionized Ammonia content, mg/L	0.001	<0.001	0.001	0.001	0.001	0.001
9. E. coli count, cfu/100ml	1*	4.3 x 10	3.5 x 10	5.0 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	<1	1	1.4	1.2	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.08	0.16	0.05	0.04	0.03
4. Nitrate-Nitrogen content, mg/L	0.012	0.035	0.096	0.013	0.015	0.006
5. Nitrite-Nitrogen content, mg/L	0.005	0.006	0.007	0.006	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.054	0.12	0.26	0.065	0.062	0.039
7. Chlorophyll-a, µg/L	2.3	2.3	2	5.5	3.2	1.9
8. Unionized Ammonia content, mg/L	0.001	0.003	0.005	0.002	0.002	<0.001
9. E. coli count, cfu/100ml	0	6.9×10^2	7.3×10^2	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	<1	1.1	1	<1	1	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.05	0.05	0.04	0.04	0.06	0.04
4. Nitrate-Nitrogen content, mg/L	0.022	0.025	0.011	0.029	0.041	0.029
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.005	0.006	0.006	0.006
6. Total Inorganic Nitrogen content, mg/L	0.075	0.082	0.052	0.079	0.11	0.076
7. Chlorophyll-a, µg/L	1.6	2.9	2.3	12	0.78	1.7
8. Unionized Ammonia content, mg/L	<0.001	0.002	<0.001	0.002	0.002	0.002
9. E. coli count, cfu/100ml	4*	0	2*	4.7×10^2	6.0×10^2	4.1 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2014

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.2	1.2	<1	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	5	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.07	0.08	0.08	0.04	0.04
4. Nitrate-Nitrogen content, mg/L	0.020	0.033	0.035	0.034	0.021	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	0.006	0.006	0.005	0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.066	0.11	0.12	0.11	0.069	0.054
7. Chlorophyll-a, µg/L	5.2	3.4	4.1	2.1	4.5	3.4
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.003	0.001	0.001
9. E. coli count, cfu/100ml	4.8 x 10	7.8×10^2	7.1×10^2	8.2×10^2	3*	5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	<1	<1	<1	1.2	1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.04	0.05	0.03	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.012	0.010	0.014	0.010	0.010	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	<0.005	0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.056	0.053	0.066	0.048	0.048	0.054
7. Chlorophyll-a, µg/L	2.7	2.2	3.7	2.7	1.8	2.8
8. Unionized Ammonia content, mg/L	0.002	0.001	0.002	0.001	0.001	0.001
9. E. coli count, cfu/100ml	0	0	0	0	0	4.1×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	<1	<1	<1	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.02	0.03	0.04	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.017	0.017	0.019	0.020	0.014	0.009
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.006	<0.005	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.061	0.046	0.051	0.063	0.052	0.047
7. Chlorophyll-a, µg/L	1.2	2.1	1.4	3.4	1.5	4.1
8. Unionized Ammonia content, mg/L	0.001	<0.001	<0.001	0.002	0.001	<0.001
9. E. coli count, cfu/100ml	4.8×10^2	5.2 x 10	3.9 x 10	0	0	1.5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	<1	1	1.6	1.1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	5	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.05	0.03	0.04	0.05	0.04	0.02
4. Nitrate-Nitrogen content, mg/L	0.030	0.017	0.025	0.028	0.029	<0.005
5. Nitrite-Nitrogen content, mg/L	0.008	0.009	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.087	0.054	0.069	0.08	0.073	0.03
7. Chlorophyll-a, µg/L	1.7	1.6	1.8	1.8	2.2	2.2
8. Unionized Ammonia content, mg/L	0.002	<0.001	0.001	0.001	0.001	<0.001
9. E. coli count, cfu/100ml	2*	2*	4.9 x 10	5.0 x 10	2.0 x 10	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	<1	1.6	1.2	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5	5	5	5	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.08	0.1	0.04	0.03
4. Nitrate-Nitrogen content, mg/L	0.005	0.007	0.032	0.030	0.011	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.047	0.043	0.12	0.13	0.052	0.04
7. Chlorophyll-a, µg/L	1.9	1.2	1.5	1.7	2.4	3
8. Unionized Ammonia content, mg/L	0.001	0.001	0.003	0.003	0.002	<0.001
9. E. coli count, cfu/100ml	0	0	6.6×10^2	7.5×10^2	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(13)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5
3. Ammoniacal nitrogen content, mg/L	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.006	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.044	0.064
7. Chlorophyll-a, µg/L	1.2	1.8
8. Unionized Ammonia content, mg/L	0.001	0.001
9. E. coli count, cfu/100ml	0	2.5*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.01	1.06	4.8
			2.06	2.16	4.7
			1.40	1.46	4.2
			2.12	2.18	2.8

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	98.93	3.96	4.26	7.3
		99.46	3.79	4.19	10.0
		100.45	3.92	4.20	6.9
		97.47	3.29	3.20	2.8

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.63	4.6	5.3	14.1
	<0.005	101.50	20.2	20.4	1.0
	<0.005	100.00	14.3	14.4	0.7
	<0.005	101.00	3.2	3.1	3.2

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

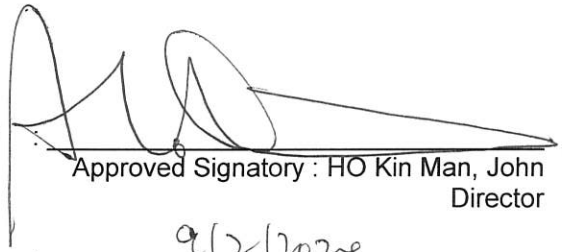
Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	104.33	0.21	0.20	4.9
	<0.005	100.95	0.51	0.49	4.0
	<0.005	101.83	0.23	0.23	0.0
	<0.005	103.00	0.07	0.07	0.0

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	96.4	3.7	3.7	0.0
	<0.01	86.0	2.9	2.6	10.9
	<0.01	99.1	3.8	4.0	5.1
	<0.01	81.3	2.2	2.1	4.7

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	30	24	3.86
			15	20	9.28
			52	60	30.10
			2	2	17.61

Certified by : 

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 30/12/2023
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(14)/1-74
Date of receipt of sample	:	30/12/2023
Date test commenced	:	30/12/2023
Date test completed	:	04/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.7	1.6	1.7	1.5	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.16	0.08	0.16	0.19	0.12	0.15
4. Nitrate-Nitrogen content, mg/L	0.038	0.046	0.027	0.028	0.023	0.024
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.006	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.2	0.13	0.19	0.22	0.15	0.18
7. Chlorophyll-a, µg/L	0.73	0.71	4.5	1.1	3.1	1.5
8. Unionized Ammonia content, mg/L	0.007	0.004	0.007	0.007	0.006	0.005
9. E. coli count, cfu/100ml	4.3 x 10	6.5 x 10	1.8×10^2	1.9×10^2	3.1 x 10	4.2 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.5	1.6	1.9	1.7	1.2	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.08	0.18	0.09	0.18	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.025	0.039	0.030	0.025	0.022	0.012
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.005	<0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.11	0.22	0.12	0.21	0.044	0.046
7. Chlorophyll-a, µg/L	2.2	2.1	1.9	2.7	1.9	1.3
8. Unionized Ammonia content, mg/L	0.003	0.008	0.003	0.008	<0.001	0.001
9. E. coli count, cfu/100ml	1.3×10^2	1.1×10^2	1.5×10^2	6.0 x 10	6.6 x 10	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.1	1.2	1.6	1.4	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.06	0.09	0.03	0.22	0.19
4. Nitrate-Nitrogen content, mg/L	0.014	0.012	0.016	0.015	0.027	0.021
5. Nitrite-Nitrogen content, mg/L	0.006	<0.005	0.005	0.006	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.048	0.072	0.11	0.05	0.25	0.22
7. Chlorophyll-a, µg/L	2.8	1.7	1.1	0.72	1.5	0.86
8. Unionized Ammonia content, mg/L	0.001	0.002	0.004	<0.001	0.009	0.007
9. E. coli count, cfu/100ml	0	3*	1*	0	8.1 x 10	1.1×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

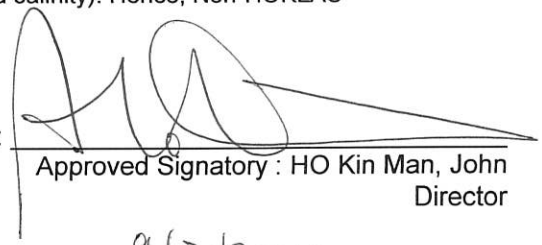
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.5	1.7	1.6	1.6	1.6	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.15	0.16	0.13	0.15	0.12	0.13
4. Nitrate-Nitrogen content, mg/L	0.022	0.027	0.018	0.027	0.022	0.018
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.006	0.006	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.18	0.19	0.16	0.19	0.15	0.15
7. Chlorophyll-a, µg/L	1.2	5.2	0.43	1.8	1.8	2.5
8. Unionized Ammonia content, mg/L	0.007	0.005	0.006	0.007	0.005	0.006
9. E. coli count, cfu/100ml	2.6 x 10	3.0 x 10	2.6 x 10	2.8 x 10	3.3 x 10	3.3 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.5	1.5	1.6	1.2	1.3	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.11	0.03	0.06	0.08	0.09	0.06
4. Nitrate-Nitrogen content, mg/L	0.014	0.012	0.021	0.019	0.019	0.015
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.13	0.052	0.089	0.1	0.12	0.081
7. Chlorophyll-a, µg/L	2.7	2.5	3	3.1	3.8	2.3
8. Unionized Ammonia content, mg/L	0.004	0.002	0.003	0.003	0.004	0.002
9. E. coli count, cfu/100ml	9*	2.6 x 10	3.5 x 10	2.2 x 10	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.4	1.1	1.3	1.1	1.8	1.9
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.11	0.24	0.2	0.11	0.09	0.09
4. Nitrate-Nitrogen content, mg/L	0.018	0.021	0.021	0.015	0.014	0.014
5. Nitrite-Nitrogen content, mg/L	0.006	0.005	0.006	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.13	0.27	0.23	0.13	0.11	0.11
7. Chlorophyll-a, µg/L	1.7	0.47	1.7	0.8	2.6	2.7
8. Unionized Ammonia content, mg/L	0.004	0.01	0.007	0.004	0.003	0.003
9. E. coli count, cfu/100ml	4*	6.8 x 10	5.7 x 10	0	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.6	1.5	1.5	1.5	1.5	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.21	0.1	0.26	0.19	0.07
4. Nitrate-Nitrogen content, mg/L	0.015	0.019	0.018	0.026	0.020	0.014
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	0.005	0.006	0.007	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.045	0.23	0.13	0.29	0.21	0.093
7. Chlorophyll-a, µg/L	1.7	1.8	2.2	2.9	0.98	0.9
8. Unionized Ammonia content, mg/L	0.001	0.01	0.003	0.011	0.006	0.003
9. E. coli count, cfu/100ml	4.6 x 10	2.4 x 10	2.6 x 10	8.1 x 10	6.2 x 10	2.8 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.7	1.4	1.7	1.7	1.2	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.16	0.1	0.18	0.23	0.03	0.11
4. Nitrate-Nitrogen content, mg/L	0.016	0.022	0.032	0.038	0.016	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	0.006	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.18	0.13	0.22	0.28	0.049	0.13
7. Chlorophyll-a, µg/L	1.1	2.1	2.4	2.5	2.5	3.3
8. Unionized Ammonia content, mg/L	0.005	0.004	0.008	0.009	0.001	0.004
9. E. coli count, cfu/100ml	1.3 x 10	7.8 x 10	8.3 x 10	5.7 x 10	5.4 x 10	7.1 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.2	1.3	1.2	1.5	1.6	1.9
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.02	0.02	0.07	0.11	0.19
4. Nitrate-Nitrogen content, mg/L	0.006	0.007	<0.005	0.015	0.015	0.021
5. Nitrite-Nitrogen content, mg/L	0.006	<0.005	<0.005	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.049	0.035	0.03	0.091	0.13	0.21
7. Chlorophyll-a, µg/L	2.3	1.6	3	1.5	1.8	1.2
8. Unionized Ammonia content, mg/L	0.001	<0.001	<0.001	0.003	0.004	0.008
9. E. coli count, cfu/100ml	3*	0	0	0	2*	1.2×10^2

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.8	1.8	1.8	1.8	1.8	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.2	0.15	0.14	0.15	0.13	0.09
4. Nitrate-Nitrogen content, mg/L	0.021	0.027	0.014	0.014	0.015	0.014
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.23	0.19	0.16	0.17	0.15	0.11
7. Chlorophyll-a, µg/L	2.6	3	2.1	2.6	2.1	7.9
8. Unionized Ammonia content, mg/L	0.007	0.007	0.006	0.008	0.005	0.003
9. E. coli count, cfu/100ml	9.8 x 10	4.4 x 10	2.7 x 10	3.4 x 10	3.0 x 10	4.2 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.7	1.6	1.5	1.1	1.3	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.13	0.07	0.04	0.07	0.03	0.07
4. Nitrate-Nitrogen content, mg/L	0.020	0.020	0.016	0.024	0.021	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.15	0.094	0.056	0.098	0.055	0.084
7. Chlorophyll-a, µg/L	3.5	2.4	0.77	0.78	1.9	2.5
8. Unionized Ammonia content, mg/L	0.006	0.002	0.002	0.003	0.001	0.003
9. E. coli count, cfu/100ml	4.3 x 10	3.8 x 10	3.4 x 10	2.6 x 10	3.8 x 10	2*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.7	1.7	1.2	1.2	1.3	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.04	0.16	0.16	0.02	0.1
4. Nitrate-Nitrogen content, mg/L	0.007	<0.005	0.017	0.017	<0.005	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.038	0.044	0.18	0.18	0.031	0.12
7. Chlorophyll-a, µg/L	2.6	2.4	2.5	2.1	1.8	1.7
8. Unionized Ammonia content, mg/L	0.001	0.001	0.007	0.006	<0.001	0.004
9. E. coli count, cfu/100ml	0	5*	1.4×10^2	1.5×10^2	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(14)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.6	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.07
4. Nitrate-Nitrogen content, mg/L	0.007	0.019
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.086	0.098
7. Chlorophyll-a, µg/L	2.7	5.4
8. Unionized Ammonia content, mg/L	0.003	0.003
9. E. coli count, cfu/100ml	0	5.6 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.1°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.67	1.62	3.04
			1.70	1.75	2.90
			1.34	1.38	2.94
			1.48	1.51	2.01

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	97.26	2.90	2.83	2.44
		99.63	2.86	2.81	1.76
		100.60	2.85	2.55	11.11
		98.68	3.25	3.48	6.84

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.50	5.86	5.61	4.36
	<0.005	101.00	5.66	5.56	1.78
	<0.005	100.73	4.74	4.40	7.44
	<0.005	101.00	4.42	4.76	7.41

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.67	0.157	0.163	3.75
	<0.005	107.17	0.264	0.263	0.38
	<0.005	97.33	0.092	0.091	1.09
	<0.005	103.18	0.074	0.077	3.97

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	93.0	5.2	5.2	0.73
	<0.01	90.4	2.9	2.9	0
	<0.01	105.8	8.1	7.7	5.22
	<0.01	90.1	5.3	5.5	3.16

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	3.2 x 10	2.8 x 10	5.80
			8.3 x 10	7.9 x 10	2.15
			4.6 x 10	3.8 x 10	8.30
			5.8 x 10	4.4 x 10	3.10

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2020

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 02/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(15)/1-74
Date of receipt of sample	:	02/01/2024
Date test commenced	:	02/01/2024
Date test completed	:	09/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

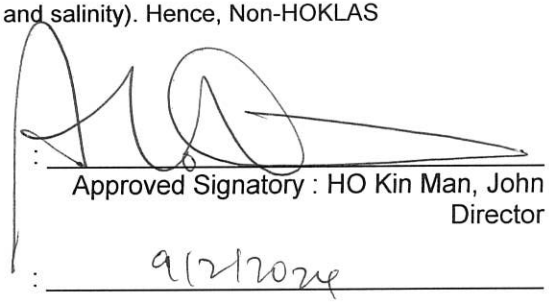
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	2	1.9	1.7	1.9	1.3	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	5	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.04	0.06	0.06	0.1	0.1
4. Nitrate-Nitrogen content, mg/L	0.025	0.033	0.033	0.028	0.027	0.027
5. Nitrite-Nitrogen content, mg/L	0.006	0.005	0.007	0.006	0.006	0.006
6. Total Inorganic Nitrogen content, mg/L	0.052	0.073	0.096	0.089	0.13	0.14
7. Chlorophyll-a, µg/L	5.5	4	5.1	3.5	3.5	1.6
8. Unionized Ammonia content, mg/L	0.001	0.002	0.003	0.003	0.005	0.005
9. E. coli count, cfu/100ml	4.2 x 10	4.0 x 10	1.2 x 10	6*	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.6	1.5	1.5	1.1	1.2	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.03	0.02	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.033	0.026	0.034	0.008	0.014	0.011
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	0.006	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.074	0.061	0.07	0.029	0.041	0.027
7. Chlorophyll-a, µg/L	1.9	2.8	6.2	2.3	2.1	2.7
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	7*	7*	7*	0	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.7	1.4	1.5	1.3	2.2	2.0
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.01	0.01	0.01	0.05	0.02
4. Nitrate-Nitrogen content, mg/L	0.009	0.011	0.010	0.010	0.026	0.017
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.006	0.006
6. Total Inorganic Nitrogen content, mg/L	0.025	0.028	0.029	0.027	0.082	0.047
7. Chlorophyll-a, µg/L	2.7	1.6	1.3	2.5	4	6.1
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	0.003	0.001
9. E. coli count, cfu/100ml	0	0	0	0	1.5 x 10	1.9 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.7	1.7	1.6	1.8	1.7	2.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.13	0.07	0.02	0.03	0.02	0.04
4. Nitrate-Nitrogen content, mg/L	0.031	0.027	0.018	0.018	0.022	0.023
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.005	0.005	0.006	0.007
6. Total Inorganic Nitrogen content, mg/L	0.17	0.1	0.045	0.051	0.049	0.073
7. Chlorophyll-a, µg/L	1.9	2.8	1.9	5.3	1.8	13
8. Unionized Ammonia content, mg/L	0.006	0.003	<0.001	0.001	0.001	0.002
9. E. coli count, cfu/100ml	1*	2.5*	1.6×10^{2} *	1.5×10^{2} *	1.5×10^{2} *	6.6×10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	2.2	1.6	1.6	1.6	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.01	0.02	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.028	0.039	0.020	0.022	0.014	0.012
5. Nitrite-Nitrogen content, mg/L	0.007	0.005	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.052	0.07	0.036	0.048	0.043	0.049
7. Chlorophyll-a, µg/L	0.42	2.4	1.6	1.8	1.1	2.7
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	0.001	<0.001	0.001
9. E. coli count, cfu/100ml	2.6 x 10	1*	0	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.8	1.9	1.3	1.1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	<0.01	0.05	0.06	<0.01	0.01	0.02
4. Nitrate-Nitrogen content, mg/L	<0.005	0.027	0.035	0.009	0.007	0.015
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	0.006	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.018	0.086	0.1	0.024	0.027	0.036
7. Chlorophyll-a, µg/L	2.7	3.4	3.7	2.9	2.1	2.4
8. Unionized Ammonia content, mg/L	<0.001	0.003	0.003	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	0	2*	1*	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.3	2.2	2.2	1.9	1.9	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.04	0.04	0.05	0.03	0.08
4. Nitrate-Nitrogen content, mg/L	0.021	0.025	0.026	0.029	0.021	0.029
5. Nitrite-Nitrogen content, mg/L	0.005	0.006	0.006	0.005	0.006	0.007
6. Total Inorganic Nitrogen content, mg/L	0.052	0.075	0.071	0.084	0.058	0.11
7. Chlorophyll-a, µg/L	1	7.4	4.7	3.7	3.6	1.5
8. Unionized Ammonia content, mg/L	0.001	0.002	0.002	0.003	0.002	0.004
9. E. coli count, cfu/100ml	0	4.8 x 10	3.0 x 10	1.7 x 10	1.2 x 10	1.7 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.6	1.7	1.6	1.7	1.4	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.1	0.03	0.03	0.04	0.05	0.06
4. Nitrate-Nitrogen content, mg/L	0.033	0.028	0.024	0.033	0.027	0.028
5. Nitrite-Nitrogen content, mg/L	0.006	0.006	0.005	0.005	0.006	0.006
6. Total Inorganic Nitrogen content, mg/L	0.14	0.062	0.056	0.077	0.08	0.091
7. Chlorophyll-a, µg/L	1.5	2.6	4.4	3.5	1.6	1.2
8. Unionized Ammonia content, mg/L	0.005	0.001	0.001	0.002	0.002	0.002
9. E. coli count, cfu/100ml	2*	0	4*	8*	8*	3*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2026

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.8	1.3	1.6	1.0	1.1	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	5
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.05	0.06	0.02	0.04
4. Nitrate-Nitrogen content, mg/L	0.008	0.011	0.018	0.016	0.006	0.015
5. Nitrite-Nitrogen content, mg/L	0.005	0.006	0.006	0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.034	0.042	0.071	0.084	0.028	0.061
7. Chlorophyll-a, µg/L	2.8	3.2	1.9	1.6	1.8	3.9
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.001	0.003	<0.001	0.002
9. E. coli count, cfu/100ml	0	0	6 *	6*	0	1.0 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.9	1.6	1.5	1.6	1.4	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.09	0.07	0.05	0.04	0.02
4. Nitrate-Nitrogen content, mg/L	0.013	0.015	0.015	0.009	0.010	0.016
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.007	0.005	0.005	0.007
6. Total Inorganic Nitrogen content, mg/L	0.047	0.11	0.093	0.068	0.058	0.042
7. Chlorophyll-a, µg/L	6.2	2.6	4.3	2.6	4.2	1.5
8. Unionized Ammonia content, mg/L	0.002	0.005	0.004	0.002	0.002	<0.001
9. E. coli count, cfu/100ml	8 *	1 *	0	8.8 x 10	1 *	1.1 x 10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	2.2	2.2	1.6	1.6	1.7	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.01	0.02	<0.01	0.01	0.01	0.04
4. Nitrate-Nitrogen content, mg/L	0.020	0.018	<0.005	0.007	0.013	0.016
5. Nitrite-Nitrogen content, mg/L	0.008	0.006	<0.005	0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.042	0.048	0.013	0.028	0.03	0.061
7. Chlorophyll-a, µg/L	5.9	6.6	1.7	3.8	2.8	0.97
8. Unionized Ammonia content, mg/L	<0.001	0.001	<0.001	<0.001	<0.001	0.002
9. E. coli count, cfu/100ml	3.0 x 10	3.7 x 10	6*	3*	5*	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.7	1.6	1.8	2.3	1.4	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.04	0.05	0.09	0.04	<0.01
4. Nitrate-Nitrogen content, mg/L	0.009	0.009	0.022	0.025	0.010	<0.005
5. Nitrite-Nitrogen content, mg/L	0.007	0.006	0.005	0.009	0.007	0.005
6. Total Inorganic Nitrogen content, mg/L	0.06	0.056	0.074	0.13	0.053	0.02
7. Chlorophyll-a, µg/L	1.9	0.96	2	2.5	0.93	1.3
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.005	0.001	<0.001
9. E. coli count, cfu/100ml	0	0	2*	1*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(15)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.2	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	<0.01	0.03
4. Nitrate-Nitrogen content, mg/L	<0.005	0.010
5. Nitrite-Nitrogen content, mg/L	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.019	0.047
7. Chlorophyll-a, µg/L	1.1	1.7
8. Unionized Ammonia content, mg/L	<0.001	<0.001
9. E. coli count, cfu/100ml	0	1*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.3°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.73	1.63	5.95
			1.91	1.93	1.04
			1.63	1.66	1.82
			1.47	1.49	1.35

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	101.00	2.78	2.62	5.93
		102.40	3.91	4.20	7.15
		101.39	3.00	2.71	10.16
		95.73	3.01	3.06	1.65

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	98.50	5.63	5.78	2.63
	<0.005	104.00	5.48	5.43	0.92
	<0.005	102.68	6.92	6.42	7.50
	<0.005	102.50	5.33	5.33	0.00

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.67	0.067	0.066	1.50
	<0.005	103.00	0.049	0.049	0.00
	<0.005	99.00	0.019	0.018	5.41
	<0.005	106.67	0.030	0.030	0.00

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	103.1	2.9	2.8	5.92
	<0.01	108.5	3.7	3.6	2.43
	<0.01	100.6	1.6	1.5	6.11
	<0.01	111.5	1.8	1.7	4.88

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	2	3	15.49
			1.4 x 10	2.0 x 10	3.42
			1.2 x 10	1.1 x 10	17.61
			0	1	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 04/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(16)/1-74
Date of receipt of sample	:	04/01/2024
Date test commenced	:	04/01/2024
Date test completed	:	09/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	2.0	1.8	1.2	1.2	1.4	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.02	0.27	0.29	0.04	0.01
4. Nitrate-Nitrogen content, mg/L	0.013	0.013	0.033	0.034	0.014	0.007
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.047	0.041	0.31	0.33	0.062	0.023
7. Chlorophyll-a, µg/L	4	3.8	2.6	2	1.3	2.9
8. Unionized Ammonia content, mg/L	0.001	0.001	0.012	0.013	0.002	<0.001
9. E. coli count, cfu/100ml	9*	9*	$1.0 \times 10^{2*}$	5.2 x 10	6*	6*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.4	1.3	1.2	<1	<1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.09	0.13	0.12	0.02	0.03	0.01
4. Nitrate-Nitrogen content, mg/L	0.019	0.023	0.021	0.013	0.015	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.11	0.16	0.14	0.039	0.049	0.03
7. Chlorophyll-a, µg/L	2.7	3.7	4	1.6	1.4	1.5
8. Unionized Ammonia content, mg/L	0.004	0.005	0.005	<0.001	0.001	<0.001
9. E. coli count, cfu/100ml	6*	7*	7*	8*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1	1.1	<1	1.5	1.3	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.04	0.03	0.29	0.29
4. Nitrate-Nitrogen content, mg/L	0.011	0.018	0.016	0.018	0.033	0.031
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.036	0.055	0.057	0.054	0.33	0.33
7. Chlorophyll-a, µg/L	2.3	1.6	2.1	2.6	3.1	2.3
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.002	0.001	0.014	0.013
9. E. coli count, cfu/100ml	0	0	0	0	9.0 x 10	8.4 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.6	1.5	1.5	1.6	1.8	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.05	0.04	0.04	0.02	0.04	0.02
4. Nitrate-Nitrogen content, mg/L	0.019	0.016	0.014	0.008	0.016	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.073	0.059	0.054	0.034	0.063	0.035
7. Chlorophyll-a, µg/L	2.6	3.5	4	6.8	6.3	8.8
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.001	0.002	0.001
9. E. coli count, cfu/100ml	1.0 x 10	5.5*	1.0 x 10	4*	7*	6*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.4	1.4	1.6	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.01	0.01	0.01	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.008	0.012	0.014	0.008	0.011	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.033	0.03	0.032	0.023	0.035	0.027
7. Chlorophyll-a, µg/L	7.3	5.6	3.3	5.3	2.9	2
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	8*	3.9 x 10	3.0 x 10	3.3 x 10	0	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.2	<1	<1	<1	1	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.07	0.06	0.02	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.014	0.022	0.019	0.012	0.017	0.018
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.044	0.093	0.079	0.033	0.04	0.035
7. Chlorophyll-a, µg/L	3	2.6	1.9	2.4	2.2	0.69
8. Unionized Ammonia content, mg/L	0.001	0.002	0.002	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	0	6*	8*	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.7	1.6	1.7	1.4	1.4	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	3	3	4
3. Ammoniacal nitrogen content, mg/L	<0.01	0.01	0.02	0.28	0.27	0.05
4. Nitrate-Nitrogen content, mg/L	0.011	0.011	0.013	0.026	0.039	0.026
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.025	0.028	0.037	0.31	0.31	0.084
7. Chlorophyll-a, µg/L	1.5	5.9	4.4	4.4	1.9	3
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	0.012	0.012	0.002
9. E. coli count, cfu/100ml	0	9*	6*	8.5 x 10	$1.2 \times 10^{2*}$	5*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.3	1.3	1.1	1.2	<1	1.9
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.04	0.14	0.1	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.014	0.016	0.025	0.020	0.012	0.012
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.058	0.062	0.17	0.12	0.027	0.031
7. Chlorophyll-a, µg/L	4.4	4	3.3	2.7	3.3	4.6
8. Unionized Ammonia content, mg/L	0.002	0.002	0.006	0.004	<0.001	<0.001
9. E. coli count, cfu/100ml	8*	1.1 x 10	1.6 x 10	1.0 x 10	3*	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.9	<1	<1	1.2	1.3	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.02	0.2
4. Nitrate-Nitrogen content, mg/L	0.013	0.012	0.011	0.012	0.014	0.026
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.036	0.04	0.034	0.032	0.035	0.23
7. Chlorophyll-a, µg/L	3.8	4.4	2.9	4.1	3	3.3
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.009
9. E. coli count, cfu/100ml	0	0	0	0	0	7.2 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.3	1.4	1.6	1.4	1.4	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.29	0.04	0.02	0.03	0.03	0.02
4. Nitrate-Nitrogen content, mg/L	0.031	0.014	0.013	0.013	0.016	0.023
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.33	0.054	0.042	0.043	0.054	0.044
7. Chlorophyll-a, µg/L	5.1	3.2	4.6	3.9	3.9	8.1
8. Unionized Ammonia content, mg/L	0.013	0.001	0.001	0.001	0.002	<0.001
9. E. coli count, cfu/100ml	6.8 x 10	1.1 x 10	1*	0	3*	1.0 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.9	1.4	1.3	1.6	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.08	0.08	0.07	0.02
4. Nitrate-Nitrogen content, mg/L	0.013	0.011	0.027	0.024	0.025	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.038	0.031	0.11	0.11	0.099	0.038
7. Chlorophyll-a, µg/L	3.9	4.6	3.8	5.2	4.8	3.2
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.003	0.004	0.003	<0.001
9. E. coli count, cfu/100ml	5*	1.8 x 10	4.2 x 10	4.6 x 10	4.4 x 10	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	<1	1.1	1.3	1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.02	0.13	0.06	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.016	0.013	0.024	0.017	0.015	0.014
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.055	0.039	0.15	0.084	0.047	0.063
7. Chlorophyll-a, µg/L	2.7	2.6	2.2	2.1	2.1	1.1
8. Unionized Ammonia content, mg/L	0.001	<0.001	0.005	0.003	0.001	0.002
9. E. coli count, cfu/100ml	0	0	1*	1.2 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(16)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.0	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.01
4. Nitrate-Nitrogen content, mg/L	0.009	0.015
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.033	0.03
7. Chlorophyll-a, µg/L	1.7	2.7
8. Unionized Ammonia content, mg/L	<0.001	<0.001
9. E. coli count, cfu/100ml	0	1*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

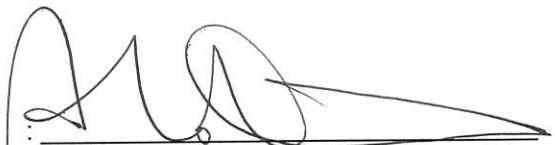
Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.58	1.50	5.19
			1.59	1.65	3.70
			1.42	1.41	0.71
			1.01	1.06	4.83

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	103.18	4.01	4.21	4.87
		98.92	3.44	3.44	0.00
		98.11	4.18	4.01	4.15
		101.40	2.56	3.21	22.53

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	99.50	4.58	4.55	0.66
	<0.005	100.10	4.87	4.69	3.77
	<0.005	99.10	4.78	4.76	0.42
	<0.005	101.00	4.78	4.60	3.84

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.43	0.037	0.035	5.56
	<0.005	95.33	0.278	0.282	1.43
	<0.005	117.17	0.016	0.015	6.45
	<0.005	106.00	0.010	0.010	0.00

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	118.5	3.5	3.5	0.32
	<0.01	93.5	4.5	4.4	3.25
	<0.01	107.0	8.1	8.0	1.92
	<0.01	111.6	2.8	2.7	4.15

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	4	7	8.20
			9.3 x 10	7.7 x 10	24.30
			0	0	0
			0	0	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 06/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(17)/1-74
Date of receipt of sample	:	06/01/2024
Date test commenced	:	06/01/2024
Date test completed	:	11/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.4	1.3	1.3	1.5	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.04	0.03	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	<0.005	0.027	0.014	0.013	0.014	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	0.008	0.005	0.006	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.022	0.067	0.061	0.05	0.053	0.044
7. Chlorophyll-a, µg/L	4.1	4	4.2	3.5	3.6	4.7
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.002	<0.001	0.002	<0.001
9. E. coli count, cfu/100ml	1.1×10^2	1.6×10^2	1.5×10^2	7.7 x 10	1.1×10^2	1.1×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.1	1.3	1.2	1.3	1	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.06	0.04	0.03	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.019	0.030	0.013	0.009	0.006	<0.005
5. Nitrite-Nitrogen content, mg/L	0.006	0.008	0.006	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.078	0.099	0.064	0.04	0.033	0.031
7. Chlorophyll-a, µg/L	5.2	3.8	3.4	3.9	4.7	3.5
8. Unionized Ammonia content, mg/L	0.002	0.002	0.001	0.001	<0.001	0.001
9. E. coli count, cfu/100ml	1.2×10^2	1.1×10^2	1.2×10^2	9*	2.1 x 10	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1	1.1	1.1	1.2	1.1	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.02	0.01	0.02	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.005	<0.005	<0.005	0.005	0.008	0.013
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.005	<0.005	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.04	0.026	0.023	0.034	0.044	0.06
7. Chlorophyll-a, µg/L	3.2	2.9	3.6	4.3	3.6	4
8. Unionized Ammonia content, mg/L	0.001	<0.001	<0.001	<0.001	0.001	0.001
9. E. coli count, cfu/100ml	0	1*	2*	0	1.1×10^2	1.6×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.3	1.4	1.1	1.3	1.2	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.03	0.03	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.014	0.014	0.015	0.018	0.013	0.017
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.005	0.006	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.052	0.05	0.052	0.056	0.048	0.057
7. Chlorophyll-a, µg/L	3.7	3.1	4.9	3.8	3.7	5
8. Unionized Ammonia content, mg/L	0.002	<0.001	0.002	0.002	<0.001	0.002
9. E. coli count, cfu/100ml	2.0×10^2	2.3×10^2	1.1×10^2	1.3×10^2	1.2×10^2	2.0×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.2	1.2	1.3	<1	1.2	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.02	0.03	0.01	0.02
4. Nitrate-Nitrogen content, mg/L	0.015	0.011	0.010	0.008	<0.005	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	<0.005	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.051	0.047	0.039	0.039	0.024	0.032
7. Chlorophyll-a, µg/L	3.8	3.4	3.4	4.5	3.1	4.6
8. Unionized Ammonia content, mg/L	<0.001	0.002	0.001	0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	2.9×10^2	1.3 x 10	4*	1.7 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.2	1	<1	1	1.1	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.04	0.04	0.02	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.006	0.014	0.012	<0.005	0.005	0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	0.006	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.031	0.06	0.057	0.025	0.029	0.03
7. Chlorophyll-a, µg/L	3	4.9	4.8	4	3.9	3.7
8. Unionized Ammonia content, mg/L	<0.001	0.002	0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	0	1.2×10^2	1.4×10^2	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.3	1.3	1.3	1.2	1.2	1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.03	0.03	0.04	0.03
4. Nitrate-Nitrogen content, mg/L	0.007	0.016	0.015	0.009	0.015	0.019
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.006	0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.033	0.053	0.051	0.043	0.06	0.057
7. Chlorophyll-a, µg/L	3.9	4	3.5	4.8	4.8	4.4
8. Unionized Ammonia content, mg/L	0.001	0.002	<0.001	0.001	0.001	0.001
9. E. coli count, cfu/100ml	1.0 x 10	1.4×10^2	$1.0 \times 10^{2*}$	1.4×10^2	1.2×10^2	$1.3 \times 10^{2*}$

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.2	1.2	1.2	1.1	<1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.03	0.04	0.03	0.02
4. Nitrate-Nitrogen content, mg/L	0.018	0.008	0.008	0.010	0.009	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	0.009	<0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.057	0.049	0.046	0.053	0.044	0.023
7. Chlorophyll-a, µg/L	3.8	4.1	3.3	3.6	3.7	2.4
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.001	0.001	0.002	<0.001
9. E. coli count, cfu/100ml	2.0×10^2	1.7×10^2	1.4×10^2	1.7×10^2	1.1×10	2.2×10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.1	1.1	1	1.2	1.2	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.02	0.04
4. Nitrate-Nitrogen content, mg/L	<0.005	0.006	0.006	0.007	<0.005	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.006	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.029	0.032	0.033	0.035	0.03	0.055
7. Chlorophyll-a, µg/L	3.7	3.4	4.1	3.3	4.1	3.8
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
9. E. coli count, cfu/100ml	0	0	0	1*	0	9.0 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.3	<1	1.2	1.3	1.3	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.02	0.03	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.009	0.020	0.010	0.013	0.016	0.017
5. Nitrite-Nitrogen content, mg/L	<0.005	0.007	0.005	<0.005	0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.048	0.06	0.039	0.051	0.051	0.054
7. Chlorophyll-a, µg/L	4.7	3.3	4.6	3.2	3.2	2.9
8. Unionized Ammonia content, mg/L	0.001	0.002	<0.001	0.002	0.001	<0.001
9. E. coli count, cfu/100ml	1.3×10^2	1.5×10^2	$1.1 \times 10^{2*}$	1.2×10	1.1×10^2	$1.4 \times 10^{2*}$

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.1	1	<1	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.02	0.03	0.03	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.014	0.008	0.007	0.008	<0.005	<0.005
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.006	0.005	0.006	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.053	0.036	0.039	0.042	0.025	0.034
7. Chlorophyll-a, µg/L	4.2	4.6	3.6	3.6	3.6	4
8. Unionized Ammonia content, mg/L	0.002	<0.001	0.001	0.001	<0.001	0.001
9. E. coli count, cfu/100ml	8.7 x 10	1.3×10^2	1.3 x 10	9*	6*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.1	1.1	<1	<1	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.03	0.04	<0.01	0.02
4. Nitrate-Nitrogen content, mg/L	<0.005	<0.005	0.008	0.014	<0.005	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.006	0.007	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.023	0.022	0.046	0.058	0.018	0.027
7. Chlorophyll-a, µg/L	5	3.8	2.8	3.1	4.9	3.5
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.001	0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	1*	0	5.6 x 10	1.3×10^2	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(17)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.1	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	<0.005	0.009
5. Nitrite-Nitrogen content, mg/L	0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.032	0.039
7. Chlorophyll-a, µg/L	3.2	2.7
8. Unionized Ammonia content, mg/L	<0.001	0.001
9. E. coli count, cfu/100ml	0	1.1 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.7°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.29	1.28	0.78
			1.32	1.28	3.08
			1.25	1.30	3.92
			1.12	1.08	3.64

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	99.67	2.96	3.18	7.17
		101.38	2.98	3.15	5.55
		98.82	3.13	3.15	0.64
		98.90	3.05	3.15	3.23

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	98.50	5.02	5.4	7.29
	<0.005	99.00	5.12	5.07	0.98
	<0.005	100.00	5.97	5.78	3.23
	<0.005	99.00	5.73	5.83	1.73

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	98.67	0.031	0.032	3.17
	<0.005	102.95	0.029	0.031	6.67
	<0.005	106.67	0.031	0.028	10.17
	<0.005	101.50	0.024	0.025	4.08

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	90.8	3.1	3.1	0.73
	<0.01	97.2	4.8	4.8	0.17
	<0.01	89.9	2.9	2.9	1.29
	<0.01	116.7	2.7	2.6	0.56

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	2.4 x 10	2.2 x 10	3.78
			1.4 x 10	1.5 x 10	3.00
			1.7 x 10	1.2 x 10	15.13
			0	0	0

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 08/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(18)/1-74
Date of receipt of sample	:	08/01/2024
Date test commenced	:	08/01/2024
Date test completed	:	16/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.9	2	2.1	2.2	1.7	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	5	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.05	0.05	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.012	0.013	0.018	0.018	0.006	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.032	0.041	0.068	0.073	0.03	0.041
7. Chlorophyll-a, µg/L	4.1	4.2	4.7	3.4	1.8	1.8
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.002	0.003	<0.001	0.001
9. E. coli count, cfu/100ml	1*	3*	3.2 x 10	5.1 x 10	2*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	2.0	2.0	1.9	1.3	1.2	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.03	0.02	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.018	0.020	0.028	0.015	0.005	0.006
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.051	0.054	0.068	0.038	0.025	0.03
7. Chlorophyll-a, µg/L	2.4	3.5	3.5	0.99	0.84	0.79
8. Unionized Ammonia content, mg/L	0.001	0.004	0.002	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	2.8 x 10	2.7 x 10	3.1 x 10	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.4	1.3	1.2	1.9	2.1	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.03	0.04	0.06	0.04
4. Nitrate-Nitrogen content, mg/L	0.006	0.012	0.015	0.014	0.018	0.020
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.03	0.042	0.053	0.055	0.08	0.069
7. Chlorophyll-a, µg/L	1.2	1.5	1.3	1.4	3.3	2
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.002	0.002	0.003	0.002
9. E. coli count, cfu/100ml	0	0	0	0	4.0 x 10	4.5 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.7	1.9	1.9	2.0	1.9	2.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.02	0.04
4. Nitrate-Nitrogen content, mg/L	0.007	0.013	0.014	0.009	0.012	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.032	0.036	0.041	0.034	0.041	0.065
7. Chlorophyll-a, µg/L	2.4	2.6	2.8	4.3	3.6	3.2
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.001	<0.001	0.001	0.002
9. E. coli count, cfu/100ml	3*	3 *	3*	3*	3*	3*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

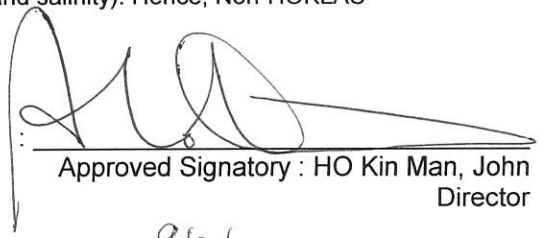
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.7	1.6	1.8	1.3	1.3	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.02	0.02	0.02	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.024	0.008	0.010	0.005	0.006	0.011
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.061	0.033	0.028	0.027	0.033	0.046
7. Chlorophyll-a, µg/L	2.9	1.2	2.1	2.1	1	0.74
8. Unionized Ammonia content, mg/L	0.002	<0.001	<0.001	<0.001	<0.001	0.001
9. E. coli count, cfu/100ml	3*	1*	0	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	2.0	1.3	1.3	1.3	1.3	2.0
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.04	0.04	0.02	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.011	0.023	0.017	0.008	0.009	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.043	0.069	0.057	0.032	0.038	0.033
7. Chlorophyll-a, µg/L	1.1	2.9	1.9	0.74	1.1	0.68
8. Unionized Ammonia content, mg/L	0.001	0.002	0.002	<0.001	0.001	<0.001
9. E. coli count, cfu/100ml	0	2.0 x 10	1.8 x 10	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.8	2.1	2.0	1.9	1.7	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.04	0.04	0.05	0.06	0.03
4. Nitrate-Nitrogen content, mg/L	0.007	0.018	0.019	0.021	0.017	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.005	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.031	0.06	0.06	0.076	0.085	0.045
7. Chlorophyll-a, µg/L	1.3	2.9	2.8	2.8	3.6	2.1
8. Unionized Ammonia content, mg/L	<0.001	0.002	0.002	0.003	0.003	0.001
9. E. coli count, cfu/100ml	2*	1*	0	7.5 x 10	6.8 x 10	5*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.9	1.7	1.3	1.6	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.05	0.04	0.05	0.03	0.02
4. Nitrate-Nitrogen content, mg/L	<0.005	0.026	0.018	0.016	0.031	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.010	0.007	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.025	0.085	0.067	0.072	0.07	0.048
7. Chlorophyll-a, µg/L	2.1	1.7	3.1	3.5	1.2	1.4
8. Unionized Ammonia content, mg/L	<0.001	0.002	0.002	0.002	0.001	<0.001
9. E. coli count, cfu/100ml	4*	2.4 x 10	2.6 x 10	2.5 x 10	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2020

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.3	1.3	1.2	1.3	2.2	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	3	5
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.03	0.03	0.03	0.07
4. Nitrate-Nitrogen content, mg/L	<0.005	0.010	0.012	0.009	0.011	0.018
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.028	0.034	0.044	0.042	0.045	0.088
7. Chlorophyll-a, µg/L	0.91	0.74	1.2	0.45	0.77	3.1
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.001	0.001	0.001	0.003
9. E. coli count, cfu/100ml	0	0	0	0	0	4.9 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	2.1	1.7	2.1	2.1	2.1	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.03	0.02	0.03	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.020	0.010	<0.005	0.011	0.016	0.018
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.091	0.042	0.032	0.049	0.054	0.048
7. Chlorophyll-a, µg/L	1.6	2.6	1.4	2.9	3.3	4.2
8. Unionized Ammonia content, mg/L	0.004	0.001	0.001	0.002	0.002	0.001
9. E. coli count, cfu/100ml	5.4 x 10	8*	3*	5*	5*	0.5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	2.1	2.0	1.9	1.9	1.5	1.9
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.04	0.02	0.03	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.014	0.018	<0.005	0.009	0.008	<0.005
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.05	0.061	0.031	0.042	0.035	0.028
7. Chlorophyll-a, µg/L	3.5	3.2	1.6	1.9	1.5	1.1
8. Unionized Ammonia content, mg/L	0.001	0.002	<0.001	0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	0	0	0	0	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

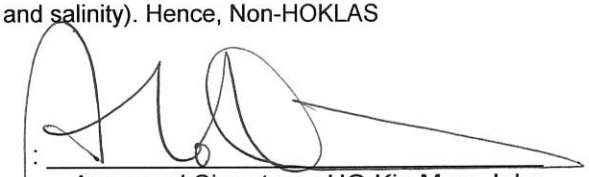
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.3	1.5	1.9	1.3	1.4	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.05	0.04	0.02	0.05
4. Nitrate-Nitrogen content, mg/L	<0.005	0.006	0.018	0.025	<0.005	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.026	0.032	0.07	0.074	0.026	0.069
7. Chlorophyll-a, µg/L	0.29	0.26	0.5	1.8	0.62	0.46
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.002	0.002	<0.001	0.002
9. E. coli count, cfu/100ml	0	0	2.2 x 10	1.8 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(18)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.3	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.009	0.029
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.041	0.06
7. Chlorophyll-a, µg/L	0.79	1.4
8. Unionized Ammonia content, mg/L	0.001	<0.001
9. E. coli count, cfu/100ml	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 4.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.67	1.76	5.25
			2.08	2.02	2.93
			2.10	2.05	2.41
			1.30	1.33	2.28

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	98.14	4.00	4.26	6.30
		95.12	3.99	4.28	7.01
		99.09	3.32	3.00	10.13
		101.82	3.18	3.20	0.63

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.00	4.66	4.73	1.49
	<0.005	102.00	5.02	5.30	5.43
	<0.005	101.00	5.27	5.22	0.95
	<0.005	102.05	4.84	4.97	2.65

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.83	0.018	0.020	10.53
	<0.005	103.50	0.050	0.051	1.98
	<0.005	97.33	0.025	0.024	4.08
	<0.005	97.73	0.026	0.025	3.92

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	87.7	2.5	2.6	0.94
	<0.01	115.9	2.8	2.8	2.74
	<0.01	104.6	3.9	4.5	14.27
	<0.01	115.9	1.3	1.4	3.91

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	0	6	3.48
			0	0	0
			0	0	0
			0	0	0

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 10/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(19)/1-74
Date of receipt of sample	:	10/01/2024
Date test commenced	:	10/01/2024
Date test completed	:	16/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.7	1.9	1.6	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.09	0.09	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.012	0.015	0.072	0.070	0.012	0.017
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.006	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.037	0.036	0.17	0.17	0.035	0.043
7. Chlorophyll-a, µg/L	2.5	2.3	5.1	5	2.2	1.8
8. Unionized Ammonia content, mg/L	0.001	<0.001	0.005	0.004	0.001	0.001
9. E. coli count, cfu/100ml	1*	1*	2.5×10^2	3.0×10^2	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.9	1.9	1.8	<1	1.5	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.1	0.1	0.11	0.02	0.03	0.02
4. Nitrate-Nitrogen content, mg/L	0.075	0.078	0.075	0.011	0.013	0.009
5. Nitrite-Nitrogen content, mg/L	0.006	0.005	0.006	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.18	0.19	0.19	0.037	0.041	0.034
7. Chlorophyll-a, µg/L	4	3.6	4.4	1.8	2	1.3
8. Unionized Ammonia content, mg/L	0.005	0.006	0.006	<0.001	0.001	0.001
9. E. coli count, cfu/100ml	1.9×10^2	2.3×10^2	2.1×10^2	1*	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2020

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.2	2.1	1.7	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	3	4	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.11	0.1
4. Nitrate-Nitrogen content, mg/L	0.008	0.010	0.011	0.012	0.068	0.068
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.006	0.006
6. Total Inorganic Nitrogen content, mg/L	0.029	0.035	0.036	0.037	0.19	0.18
7. Chlorophyll-a, µg/L	2	1.6	1.2	1.2	5.2	4.1
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.001	0.001	0.006	0.005
9. E. coli count, cfu/100ml	0	0	0	0	3.3×10^2	2.6×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

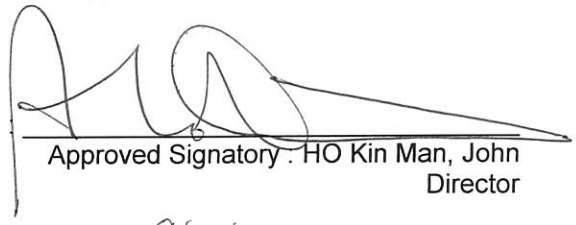
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	2.6	2.1	1.5	1.2	1.6	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.02	0.03	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.016	0.051	0.013	0.019	0.007	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.044	0.081	0.038	0.047	0.027	0.045
7. Chlorophyll-a, µg/L	2.1	3.1	1.4	1.6	1.8	2.2
8. Unionized Ammonia content, mg/L	0.001	0.001	0.001	0.001	<0.001	0.001
9. E. coli count, cfu/100ml	2*	1*	0	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.6	1.4	1.5	1.6	1.5	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.007	0.014	0.012	0.011	0.012	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.027	0.037	0.04	0.035	0.034	0.038
7. Chlorophyll-a, µg/L	1.1	1.8	1.4	1.4	1.9	1.4
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.001	0.001	<0.001	0.001
9. E. coli count, cfu/100ml	0	0	0	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

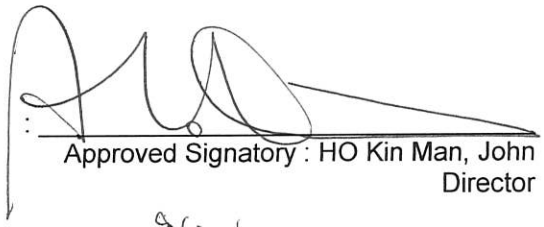
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.4	1.2	1.3	1.4	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.1	0.11	0.02	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.014	0.064	0.068	0.009	0.009	0.012
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.006	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.042	0.17	0.19	0.035	0.034	0.04
7. Chlorophyll-a, µg/L	0.89	4.2	3.7	0.68	0.99	1.8
8. Unionized Ammonia content, mg/L	0.001	0.005	0.006	<0.001	0.001	0.001
9. E. coli count, cfu/100ml	0	2.6×10^2	3.7×10^2	0	0	3*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.4	1.7	1.7	1.7	1.4	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.02	0.12	0.11	0.03
4. Nitrate-Nitrogen content, mg/L	0.008	0.011	0.012	0.063	0.062	0.042
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.005	0.006	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.036	0.045	0.039	0.19	0.18	0.071
7. Chlorophyll-a, µg/L	1.2	1.7	1.7	5.1	3.3	0.4
8. Unionized Ammonia content, mg/L	0.001	0.002	0.001	0.009	0.006	0.001
9. E. coli count, cfu/100ml	0	0	0	3.8×10^2	4.0×10^2	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2016

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.8	1.8	1.2	1.3	1.2	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.12	0.12	0.12	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.011	0.068	0.068	0.066	0.010	<0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.007	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.04	0.19	0.19	0.19	0.034	0.026
7. Chlorophyll-a, µg/L	0.31	4	4.2	2.7	1.9	2.2
8. Unionized Ammonia content, mg/L	0.001	0.006	0.01	0.006	<0.001	<0.001
9. E. coli count, cfu/100ml	0	3.7×10^2	3.2×10^2	2.6×10^2	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.2	1.3	1.4	1.9	1.9	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	5	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.02	0.12
4. Nitrate-Nitrogen content, mg/L	<0.005	0.007	0.006	0.006	0.008	0.059
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.028	0.031	0.029	0.029	0.035	0.18
7. Chlorophyll-a, µg/L	2.1	1.7	1.8	1.5	1.3	4.5
8. Unionized Ammonia content, mg/L	<0.001	0.001	<0.001	<0.001	0.001	0.006
9. E. coli count, cfu/100ml	3*	0	0	0	0	4.1×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.5	1.7	1.6	1.6	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.12	0.02	0.02	0.02	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.059	0.008	<0.005	0.006	<0.005	0.006
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.19	0.035	0.028	0.03	0.027	0.039
7. Chlorophyll-a, µg/L	3.3	1.5	1.4	1.3	1.5	2.3
8. Unionized Ammonia content, mg/L	0.006	0.001	0.001	0.001	<0.001	0.002
9. E. coli count, cfu/100ml	3.3×10^2	1*	7*	1*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2026

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.6	1.4	1.5	1.5	1.6	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.03	0.03	0.02
4. Nitrate-Nitrogen content, mg/L	0.008	0.005	0.007	0.011	0.011	0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.034	0.032	0.035	0.045	0.04	0.03
7. Chlorophyll-a, µg/L	1.2	1.6	0.91	1.7	1.8	0.99
8. Unionized Ammonia content, mg/L	0.001	0.001	0.001	0.002	0.001	0.001
9. E. coli count, cfu/100ml	1*	0	0	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.7	1.9	1.8	1.4	1.4	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.13	0.12	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.009	0.008	0.065	0.063	0.006	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.006	0.006	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.037	0.042	0.2	0.18	0.033	0.04
7. Chlorophyll-a, µg/L	1.8	1.3	4.1	4.2	1.3	0.71
8. Unionized Ammonia content, mg/L	0.001	0.001	0.007	0.006	<0.001	0.001
9. E. coli count, cfu/100ml	0	0	2.9×10^2	2.4×10^2	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(19)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.6	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	5
3. Ammoniacal nitrogen content, mg/L	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	<0.005	0.005
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.03	0.03
7. Chlorophyll-a, µg/L	0.42	2.5
8. Unionized Ammonia content, mg/L	0.001	<0.001
9. E. coli count, cfu/100ml	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 6.4°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	2.58	2.61	1.16
			1.73	1.65	4.73
			1.60	1.63	1.86
			1.63	1.60	1.86

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	98.54	3.84	3.52	8.70
		98.35	4.28	4.07	5.03
		102.55	3.50	3.05	13.74
		98.24	4.54	4.72	3.89

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.00	3.42	3.41	0.29
	<0.005	103.00	5.22	5.16	1.16
	<0.005	100.50	3.27	3.12	4.69
	<0.005	100.50	3.58	3.68	2.75

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

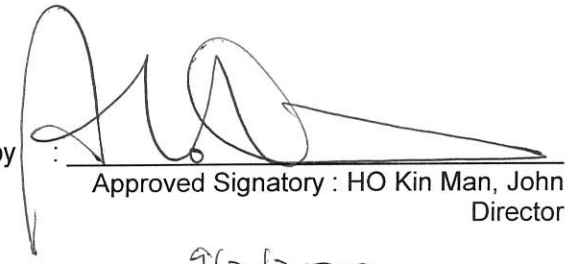
Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	103.50	0.026	0.027	3.77
	<0.005	102.00	0.119	0.117	1.69
	<0.005	107.50	0.029	0.031	6.67
	<0.005	109.50	0.020	0.021	4.88

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	98.0	3.1	3.1	2.5
	<0.01	100.7	5.1	5.0	1.19
	<0.01	104.6	2.3	2.3	0.33
	<0.01	92.2	2.6	2.4	9.17

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	1	1	7.92
			0	0	0
			0	0	0
			0	0	0

Certified by : 

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2014

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 12/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(20)/1-74
Date of receipt of sample	:	12/01/2024
Date test commenced	:	12/01/2024
Date test completed	:	17/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.8	1.7	2	1.7	1.8	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	5	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.04	0.04	0.04	0.04	0.06
4. Nitrate-Nitrogen content, mg/L	0.020	0.022	0.012	0.011	0.022	0.022
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.062	0.069	0.053	0.053	0.07	0.083
7. Chlorophyll-a, µg/L	3.1	2.6	2.7	5.1	2.6	2.2
8. Unionized Ammonia content, mg/L	0.002	0.001	0.002	0.001	0.002	0.002
9. E. coli count, cfu/100ml	0	6*	2.0×10^2	1.4×10^2	1.7×10	2.0×10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2026

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.7	1.7	1.7	1.7	1.6	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.04	0.03	0.04	0.04	0.03
4. Nitrate-Nitrogen content, mg/L	0.013	0.011	0.015	0.012	0.012	0.008
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.064	0.053	0.055	0.054	0.054	0.042
7. Chlorophyll-a, µg/L	3.7	2.5	2	2.6	2.6	3.5
8. Unionized Ammonia content, mg/L	0.002	0.002	0.001	0.002	0.002	0.002
9. E. coli count, cfu/100ml	1.7×10^2	1.8×10^2	2.0×10^2	1.5 x 10	5*	5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.8	1.5	1.7	1.8	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.03	0.03	0.05	0.07
4. Nitrate-Nitrogen content, mg/L	0.008	0.007	0.009	0.007	0.014	0.019
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.052	0.04	0.046	0.042	0.07	0.091
7. Chlorophyll-a, µg/L	5.2	2.9	1.5	3.5	3.1	2
8. Unionized Ammonia content, mg/L	0.002	0.001	0.002	0.001	0.003	0.002
9. E. coli count, cfu/100ml	0	0	0	0	2.5×10^2	2.1×10^2

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.8	1.8	1.7	1.8	2.1	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.06	0.03	0.04	0.04	0.05	0.04
4. Nitrate-Nitrogen content, mg/L	0.024	0.017	0.020	0.020	0.023	0.019
5. Nitrite-Nitrogen content, mg/L	0.006	<0.005	<0.005	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.09	0.056	0.068	0.061	0.076	0.061
7. Chlorophyll-a, µg/L	2.3	3.9	2.9	1.8	2.1	2.5
8. Unionized Ammonia content, mg/L	0.003	0.001	0.002	0.002	0.002	0.002
9. E. coli count, cfu/100ml	1.1 x 10	1.8 x 10	1.5 x 10	1.1 x 10	2.0 x 10	1.6 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.7	1.9	1.7	1.9	1.8	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.04	0.04	0.05	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.016	0.015	0.013	0.007	0.008	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.053	0.058	0.059	0.058	0.041	0.05
7. Chlorophyll-a, µg/L	3.1	3.6	3	2.3	3.4	3.7
8. Unionized Ammonia content, mg/L	0.001	0.002	0.002	0.002	0.002	0.002
9. E. coli count, cfu/100ml	2.2 x 10	7*	1.0 x 10	8*	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.9	1.9	2.1	1.8	1.9	2.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.06	0.06	0.04	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.006	0.030	0.030	0.020	0.008	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	0.007	0.006	0.006	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.039	0.096	0.099	0.065	0.04	0.042
7. Chlorophyll-a, µg/L	2.7	3.7	3.3	4	4.2	6.7
8. Unionized Ammonia content, mg/L	0.001	0.003	0.002	0.002	0.001	0.001
9. E. coli count, cfu/100ml	0	2.8×10^2	2.4×10^2	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.7	1.7	1.8	1.8	1.7	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.06	0.05	0.06	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.018	0.025	0.022	0.032	0.023	0.032
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	0.005	0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.074	0.092	0.076	0.095	0.057	0.079
7. Chlorophyll-a, µg/L	3.5	6.7	3.3	3	2.6	4
8. Unionized Ammonia content, mg/L	0.003	0.004	0.002	0.003	0.001	0.002
9. E. coli count, cfu/100ml	1.4 x 10	2.1 x 10	2.8 x 10	1.5×10^2	1.7×10^2	1.9 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.8	1.8	1.7	1.7	1.6	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.03	0.03	0.03	0.04
4. Nitrate-Nitrogen content, mg/L	0.026	0.025	0.020	0.018	0.012	0.021
5. Nitrite-Nitrogen content, mg/L	0.005	0.006	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.067	0.065	0.06	0.053	0.044	0.061
7. Chlorophyll-a, µg/L	3.1	1.3	3.9	2.9	3.7	3.2
8. Unionized Ammonia content, mg/L	0.001	<0.001	0.002	0.001	0.002	0.001
9. E. coli count, cfu/100ml	2.0 x 10	2.6×10^2	2.1×10^2	1.9×10^2	1.2 x 10	9*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.8	1.7	1.7	1.3	1.6	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.04	0.04	0.26	0.03	0.1
4. Nitrate-Nitrogen content, mg/L	0.016	0.014	0.009	0.238	0.013	0.077
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.053	0.057	0.052	0.5	0.053	0.18
7. Chlorophyll-a, µg/L	2.8	1.3	2.3	2.5	1.9	1.2
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.012	0.002	0.004
9. E. coli count, cfu/100ml	1*	3*	3*	0	0	3.0×10^2

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2020

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.6	1.6	1.8	1.7	1.7	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.07	0.03	0.12	0.04	0.06
4. Nitrate-Nitrogen content, mg/L	0.018	0.071	0.013	0.123	0.014	0.032
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.06	0.15	0.052	0.25	0.055	0.093
7. Chlorophyll-a, µg/L	2.5	3.4	1.9	2.2	2	3.2
8. Unionized Ammonia content, mg/L	0.002	0.004	0.001	0.007	0.002	0.002
9. E. coli count, cfu/100ml	2.7×10^2	1.5 x 10	1.0 x 10	0	0	1.5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.6	1.6	1.7	1.8	1.8	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.08	0.03	0.05	0.03	0.05
4. Nitrate-Nitrogen content, mg/L	0.016	0.062	0.006	0.037	0.006	0.031
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.059	0.14	0.04	0.09	0.042	0.082
7. Chlorophyll-a, µg/L	2.5	3.3	1.4	3.4	2.8	2.5
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.002	0.001	0.002
9. E. coli count, cfu/100ml	1.7 x 10	1.6 x 10	7*	1.0 x 10	6*	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.6	1.7	1.7	1.6	1.7	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.05	0.04	0.11	0.04	0.04
4. Nitrate-Nitrogen content, mg/L	0.008	0.024	0.013	0.058	0.018	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.046	0.073	0.06	0.17	0.062	0.053
7. Chlorophyll-a, µg/L	2.1	1.7	0.93	2.1	2.1	1.2
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.004	0.002	0.002
9. E. coli count, cfu/100ml	0	0	3.0×10^2	2.4×10^2	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(20)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.7	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.04
4. Nitrate-Nitrogen content, mg/L	0.015	0.009
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.058	0.055
7. Chlorophyll-a, µg/L	1.1	2.1
8. Unionized Ammonia content, mg/L	0.002	0.002
9. E. coli count, cfu/100ml	0	6*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 3.6°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.98	1.94	2.04
			1.90	1.99	4.63
			1.86	1.86	0.00
			1.90	1.93	1.57

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	100.41	3.50	3.40	2.90
		100.14	3.57	3.39	5.17
		100.04	3.50	3.64	3.92
		98.00	3.39	3.42	0.88

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	96.50	4.56	4.69	2.81
	<0.005	101.50	5.13	5.13	0.00
	<0.005	101.50	4.53	4.37	3.60
	<0.005	100.50	4.59	4.59	0.00

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	98.00	0.034	0.031	9.23
	<0.005	99.37	0.057	0.056	1.77
	<0.005	103.52	0.056	0.056	0.00
	<0.005	96.00	0.041	0.042	2.41

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	106.8	4.0	3.8	4.88
	<0.01	110.9	3.0	3.0	0.08
	<0.01	111.7	3.3	3.1	5.83
	<0.01	111.8	2.1	2.2	0.67

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike Recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	1.6 x 10	2.1 x10	11.81
			1.6 x 10	1.4 x 10	5.80
			2	1	24.30
			4	4	30.10

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 15/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(21)/1-74
Date of receipt of sample	:	15/01/2024
Date test commenced	:	15/01/2024
Date test completed	:	22/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.4	1.6	1.6	1.6	2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	4	4
3. Ammoniacal nitrogen content, mg/L	<0.01	0.01	0.16	0.12	0.01	<0.01
4. Nitrate-Nitrogen content, mg/L	0.013	0.008	0.044	0.042	0.010	0.020
5. Nitrite-Nitrogen content, mg/L	<0.005	0.006	0.006	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.027	0.024	0.21	0.17	0.027	0.032
7. Chlorophyll-a, µg/L	3.7	2.3	3.8	2	2	1.5
8. Unionized Ammonia content, mg/L	<0.001	<0.001	0.007	0.004	<0.001	<0.001
9. E. coli count, cfu/100ml	1.2×10^{2}*	1.0×10^{2}*	2.6 x 10	4.6 x 10	9.8 x 10	8.7 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.7	1.6	1.7	1.8	1.6	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	4	3	4
3. Ammoniacal nitrogen content, mg/L	<0.01	0.07	0.02	0.01	<0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.024	0.045	0.022	0.018	0.010	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.036	0.12	0.045	0.034	0.022	0.035
7. Chlorophyll-a, µg/L	0.76	0.66	1.9	3.1	1.8	1.1
8. Unionized Ammonia content, mg/L	<0.001	0.003	<0.001	<0.001	<0.001	<0.001
9. E. coli count, cfu/100ml	6.1 x 10	3.4 x 10	3.5 x 10	4.4 x 10	6.0 x 10	8*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.5	1.6	1.5	1.7	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.01	0.02	0.01	0.08	0.12	0.07
4. Nitrate-Nitrogen content, mg/L	0.017	0.020	0.007	0.028	0.041	0.032
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.034	0.041	0.023	0.11	0.17	0.11
7. Chlorophyll-a, µg/L	3.6	3.8	3.2	2.1	3	5.7
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	0.003	0.005	0.002
9. E. coli count, cfu/100ml	9*	1.0 x 10	1.1 x 10	9*	3.4 x 10	6.0 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.5	1.4	1.4	1.6	1.8	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	5	4	4
3. Ammoniacal nitrogen content, mg/L	0.01	0.01	<0.01	0.01	0.01	0.06
4. Nitrate-Nitrogen content, mg/L	0.015	0.028	0.009	0.012	0.020	0.020
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.031	0.043	0.022	0.029	0.036	0.081
7. Chlorophyll-a, µg/L	5	3.6	3.2	3.7	3.1	3.6
8. Unionized Ammonia content, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.003
9. E. coli count, cfu/100ml	8.2 x 10	4.8 x 10	1.7 x 10	5.2 x 10	1.8 x 10	6*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

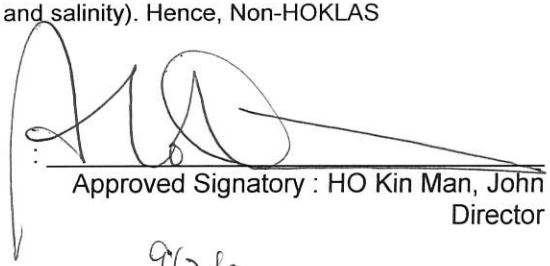
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.5	1.5	1.4	1.4	1.3	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	5	4	4	4	4	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.12	0.01	0.01	0.06	0.05
4. Nitrate-Nitrogen content, mg/L	0.019	0.020	0.013	0.013	0.024	0.023
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.059	0.14	0.029	0.03	0.087	0.073
7. Chlorophyll-a, µg/L	2.8	3.7	2.5	2.7	3.8	4.9
8. Unionized Ammonia content, mg/L	0.001	0.007	<0.001	<0.001	0.003	0.002
9. E. coli count, cfu/100ml	8.7 x 10	3.0 x 10	3.8 x 10	6.2 x 10	1.5 x 10	1.3 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.5	1.4	1.1	1.6	1.6	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.14	0.11	0.03	0.09	0.02
4. Nitrate-Nitrogen content, mg/L	0.021	0.036	0.035	0.013	0.023	0.012
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	0.006	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.058	0.19	0.15	0.044	0.11	0.034
7. Chlorophyll-a, µg/L	2.9	3.7	3.6	3.2	3.2	2.8
8. Unionized Ammonia content, mg/L	0.001	0.005	0.004	0.001	0.005	<0.001
9. E. coli count, cfu/100ml	4*	4.2 x 10	6.1 x 10	1.1 x 10	1.3 x 10	9*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 8/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.4	1.4	1.4	1.3	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.29	0.01	0.02	0.08	0.01	0.01
4. Nitrate-Nitrogen content, mg/L	0.026	0.015	0.012	0.040	0.019	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.32	0.034	0.04	0.13	0.036	0.03
7. Chlorophyll-a, µg/L	3.4	2.9	3.4	3.1	3.8	3.7
8. Unionized Ammonia content, mg/L	0.017	<0.001	<0.001	0.004	<0.001	<0.001
9. E. coli count, cfu/100ml	5*	5*	7*	5.1 x 10	5.6 x 10	8*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.3	1.3	1.5	1.4	1.4	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.05	0.01	0.13	0.14	0.15	0.28
4. Nitrate-Nitrogen content, mg/L	0.019	0.020	0.036	0.036	0.020	0.023
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.006	0.006	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.072	0.039	0.17	0.18	0.18	0.31
7. Chlorophyll-a, µg/L	3.5	4.1	2.7	2.9	2.5	3.2
8. Unionized Ammonia content, mg/L	0.002	<0.001	0.006	0.005	0.01	0.011
9. E. coli count, cfu/100ml	1.1×10^{2}*	3.9 x 10	3.7 x 10	4.5 x 10	4.8 x 10	3.6 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.4	1.4	1.4	1.4	1.4	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.07	0.03	0.03	0.02	0.04	0.02
4. Nitrate-Nitrogen content, mg/L	0.019	0.016	0.015	0.011	0.010	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.094	0.048	0.048	0.035	0.053	0.038
7. Chlorophyll-a, µg/L	1.9	3.3	3	2.2	2.8	2.7
8. Unionized Ammonia content, mg/L	0.004	0.001	0.002	<0.001	0.002	<0.001
9. E. coli count, cfu/100ml	4*	1.0 x 10	1.0 x 10	8*	8*	2.9 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by :
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.4	1.7	1.6	1.5	1.6	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.13	0.04	0.03	0.03	0.01	0.04
4. Nitrate-Nitrogen content, mg/L	0.029	0.014	0.014	0.011	0.016	0.021
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.17	0.057	0.043	0.042	0.035	0.066
7. Chlorophyll-a, µg/L	3.3	3.4	3.5	2.7	2.8	2.5
8. Unionized Ammonia content, mg/L	0.004	0.002	<0.001	0.002	<0.001	0.001
9. E. coli count, cfu/100ml	3.7 x 10	3.9 x 10	6.2 x 10	3*	4.6 x 10	1.0 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.6	2.1	1.7	1.5	1.5	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.03	0.03	0.13	0.16	0.1
4. Nitrate-Nitrogen content, mg/L	0.016	0.015	0.014	0.029	0.033	0.024
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.06	0.049	0.045	0.16	0.2	0.13
7. Chlorophyll-a, µg/L	2.9	3.7	2.2	3	2.9	2.6
8. Unionized Ammonia content, mg/L	0.002	<0.001	0.002	0.007	0.007	0.006
9. E. coli count, cfu/100ml	1.1 x 10	8*	2.8 x 10	5.0 x 10	3.8 x 10	3*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.5	1.3	1.5	1.5	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.05	0.16	0.17	0.06	0.05
4. Nitrate-Nitrogen content, mg/L	0.023	0.018	0.033	0.036	0.020	0.014
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.005	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.094	0.07	0.2	0.21	0.087	0.065
7. Chlorophyll-a, µg/L	2	2.9	2.7	3.4	2.2	2.7
8. Unionized Ammonia content, mg/L	0.003	0.002	0.007	0.006	0.004	0.002
9. E. coli count, cfu/100ml	5*	2*	2.9 x 10	4.4 x 10	8*	5*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(21)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.7	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4
3. Ammoniacal nitrogen content, mg/L	0.04	0.04
4. Nitrate-Nitrogen content, mg/L	0.012	0.021
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.052	0.066
7. Chlorophyll-a, µg/L	3.4	2.8
8. Unionized Ammonia content, mg/L	0.002	0.002
9. E. coli count, cfu/100ml	8*	3.0 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.51	1.52	0.66
			1.37	1.43	4.29
			1.53	1.56	1.94
			1.65	1.65	0.00

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	97.26	3.88	3.97	2.29
		97.56	4.01	4.33	7.67
		99.92	4.26	4.12	3.34
		99.40	3.76	3.54	6.03

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	102.00	4.57	4.60	0.65
	<0.005	101.00	5.37	5.47	1.85
	<0.005	102.00	4.72	4.77	1.05
	<0.005	101.50	4.77	4.67	2.12

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2020

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.00	0.010	0.010	0.00
	<0.005	102.50	0.080	0.079	1.26
	<0.005	102.43	0.039	0.040	2.53
	<0.005	98.67	0.040	0.040	0.00

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	111.0	3.8	3.3	16.17
	<0.01	109.8	3.1	3.0	4.67
	<0.01	90.8	2.6	2.4	6.84
	<0.01	104.0	2.9	2.7	3.74

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	4.8 x 10	4.9 x 10	0.90
			5.5 x 10	4.8 x 10	5.91
			1.1 x 10	1.0 x 10	4.14
			2.9 x 10	3.1 x 10	2.90

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 17/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(22)/1-74
Date of receipt of sample	:	17/01/2024
Date test commenced	:	17/01/2024
Date test completed	:	22/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.4	1.5	1.5	1.3	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.05	0.04	0.04	0.03
4. Nitrate-Nitrogen content, mg/L	0.015	0.015	0.018	0.019	0.008	0.014
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.043	0.039	0.068	0.063	0.047	0.045
7. Chlorophyll-a, µg/L	3	2.8	3.6	4.6	3.8	3.6
8. Unionized Ammonia content, mg/L	0.001	0.001	0.003	0.002	0.002	0.001
9. E. coli count, cfu/100ml	7*	9*	0	0	1.3 x 10	1.1 x 10

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.5	1.3	1.3	1.2	1.1	1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.03	0.02	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.015	0.010	0.023	0.011	0.009	0.014
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.043	0.039	0.053	0.039	0.035	0.05
7. Chlorophyll-a, µg/L	4.2	2.9	4.9	3.3	2.9	2.3
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.001	0.001	0.001	0.002
9. E. coli count, cfu/100ml	1*	1*	0	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.1	1.1	1.3	1.6	1.7	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.03	0.02	0.02	0.02	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.011	0.005	0.009	0.010	0.008	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.04	0.032	0.036	0.034	0.035	0.045
7. Chlorophyll-a, µg/L	2.7	2.2	2.7	2.5	3.6	3.4
8. Unionized Ammonia content, mg/L	0.001	0.001	0.001	<0.001	0.001	0.001
9. E. coli count, cfu/100ml	0	1*	0	0	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	1.4	1.4	1.4	1.3	1.4	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	4	3	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.011	0.017	0.011	0.011	0.009	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.038	0.041	0.036	0.037	0.032	0.035
7. Chlorophyll-a, µg/L	3.3	4.2	3.7	1.5	2.8	3.5
8. Unionized Ammonia content, mg/L	0.001	<0.001	0.001	0.001	<0.001	0.001
9. E. coli count, cfu/100ml	4*	1.0 x 10	9*	1.2 x 10	9*	8*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.4	1.5	1.3	1	1.1	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.03	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.010	0.017	0.013	0.015	0.011	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.035	0.042	0.039	0.045	0.035	0.041
7. Chlorophyll-a, µg/L	3.8	2.6	2.3	3.5	4.3	3.7
8. Unionized Ammonia content, mg/L	0.001	0.001	0.001	0.001	0.001	0.001
9. E. coli count, cfu/100ml	1.0 x 10	0	0	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.6	1.4	1.4	1.2	1.3	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.03	0.02	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.016	0.024	0.024	0.016	0.011	0.015
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.041	0.06	0.053	0.041	0.041	0.046
7. Chlorophyll-a, µg/L	3	4.3	4.4	2.9	2.2	1.9
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.001	0.001	0.001	0.001
9. E. coli count, cfu/100ml	0	2*	0	0	0	1*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.4	1.6	1.6	1.5	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	4	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.03	0.03	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.009	0.012	0.014	0.014	0.009	0.014
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.033	0.039	0.044	0.047	0.035	0.045
7. Chlorophyll-a, µg/L	2.9	4.6	3.3	4.2	4.2	3.7
8. Unionized Ammonia content, mg/L	0.001	0.001	0.001	0.002	<0.001	0.002
9. E. coli count, cfu/100ml	0	8*	6*	0	0	8*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	1.5	1.5	1.4	1.1	1.2	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.03	0.02	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.009	0.018	0.013	0.016	0.010	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.039	0.05	0.042	0.044	0.037	0.032
7. Chlorophyll-a, µg/L	4.2	4.5	5.2	3.8	3	3.1
8. Unionized Ammonia content, mg/L	0.001	0.002	0.001	0.001	0.001	0.001
9. E. coli count, cfu/100ml	6*	2*	0	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

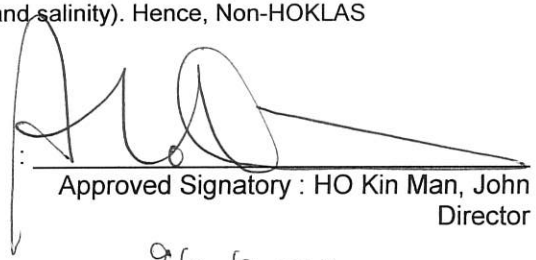
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.2	1.2	1.2	1.3	1.4	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.02	0.02	0.02	0.02
4. Nitrate-Nitrogen content, mg/L	0.019	0.015	0.011	0.011	0.013	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.046	0.04	0.035	0.037	0.042	0.043
7. Chlorophyll-a, µg/L	2.6	2.9	2.7	1.9	0.98	0.51
8. Unionized Ammonia content, mg/L	0.001	<0.001	0.001	0.001	0.001	0.001
9. E. coli count, cfu/100ml	0	0	0	1*	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	1.4	1.6	1.3	1.4	1.4	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	3	4	4
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.08	0.06	0.1	0.08
4. Nitrate-Nitrogen content, mg/L	0.006	0.011	0.007	0.012	0.014	0.012
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.032	0.035	0.088	0.074	0.12	0.095
7. Chlorophyll-a, µg/L	0.39	0.39	0.42	2.7	3.6	6.8
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.004	0.004	0.006	0.004
9. E. coli count, cfu/100ml	0	1.1 x 10	6*	1.0 x 10	1.0 x 10	1.3 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.3	1.3	1.3	1.2	1.2	1.3
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.07	0.07	0.07	0.06	0.06	0.06
4. Nitrate-Nitrogen content, mg/L	0.005	0.011	0.011	0.007	0.006	0.013
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.075	0.086	0.083	0.072	0.068	0.081
7. Chlorophyll-a, µg/L	3.2	3.4	2.6	2.7	2.2	2.3
8. Unionized Ammonia content, mg/L	0.004	0.004	0.004	0.003	0.003	0.003
9. E. coli count, cfu/100ml	1.1 x 10	8*	0	1*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.1	1.6	1.4	1.2	1.2	1.1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.06	0.08	0.05	0.07	0.08	0.08
4. Nitrate-Nitrogen content, mg/L	0.010	0.007	0.014	0.006	0.010	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.07	0.094	0.066	0.082	0.09	0.099
7. Chlorophyll-a, µg/L	1.8	1.8	3.5	4.6	0.21	0.42
8. Unionized Ammonia content, mg/L	0.003	0.004	0.003	0.003	0.004	0.004
9. E. coli count, cfu/100ml	0	0	0	2*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(22)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.5	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.06	0.05
4. Nitrate-Nitrogen content, mg/L	0.021	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.09	0.067
7. Chlorophyll-a, µg/L	0.2	3.6
8. Unionized Ammonia content, mg/L	0.003	0.003
9. E. coli count, cfu/100ml	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 5.5°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	1.61	1.61	0.0
			1.79	1.79	0.0
			1.59	1.61	1.3
			1.69	1.70	0.6

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	99.94	3.01	3.35	10.7
		98.62	4.24	3.35	23.5
		100.65	3.90	3.45	12.2
		100.63	2.93	3.25	10.4

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	100.00	4.11	3.94	4.2
	<0.005	100.50	3.93	4.01	2.0
	<0.005	100.00	4.36	4.21	3.5
	<0.005	100.00	4.02	3.89	3.3

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	100.67	0.020	0.020	0.0
	<0.005	99.67	0.029	0.029	0.0
	<0.005	95.50	0.079	0.078	1.3
	<0.005	103.33	0.054	0.056	3.6

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	92.0	4.2	4.3	2.48
	<0.01	107.1	4.2	4.3	2.57
	<0.01	97.5	6.7	6.8	1.79
	<0.01	96.2	3.5	3.6	3.46

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	10	4	23.04
			0	0	0
			0	0	0
			0	0	0

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2014

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Test Report on Analysis of Water

Information Supplied by Client

Client	:	DRAINAGE SERVICES DEPT.
Client's address	:	ROOM 4338, 43/F., REVENUE TOWER, 5 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Project	:	Provision of Environmental Team (ET) Services for Contract CPW 01/2023 ET for Relocation of Sha Tin Sewage Treatment Works to Caverns
Sample description	:	Seventy-four samples of water taken by the staff of FTS on 19/01/2024
Client sample ID	:	Refer to pages 2 to 14
Tests required	:	1. Biochemical oxygen demand 2. Total suspended solids dried at 103°C – 105°C 3. Ammoniacal Nitrogen content 4. Nitrate-Nitrogen content 5. Nitrite-Nitrogen content 6. Total Inorganic Nitrogen content 7. Chlorophyll-a 8. Unionized Ammonia content 9. E. coli count

Laboratory Information

Laboratory sample ID.	:	WA233340(23)/1-74
Date of receipt of sample	:	19/01/2024
Date test commenced	:	19/01/2024
Date test completed	:	24/01/2024
Test method used	:	1. APHA 23ed. 5210B 2. APHA 23ed. 2540D 3. APHA 23ed. 4500-NH3-H 4. APHA 23ed. 4500-NO3-O 5. APHA 23ed. 4500-NO2 A and NO3-I 6. In-house method E-T-112 (By Calculation) 7. In-house method with reference to APHA 23ed. 10200H 8. In house method E-T-115 (By Calculation) 9. Environment Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3, Environmental Protection Department, HKSAR

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

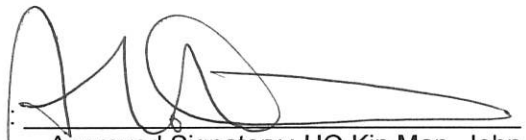
FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	W1/F/S	W1/F/B	W2/F/S	W2/F/B	C1/F/S	C1/F/B
1. Biochemical oxygen demand, mg/L	1.2	1.1	1.4	1.2	1.3	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	4	4	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.06	0.07	0.07	0.09	0.07	0.06
4. Nitrate-Nitrogen content, mg/L	0.047	0.047	0.020	0.022	0.062	0.063
5. Nitrite-Nitrogen content, mg/L	0.005	<0.005	<0.005	<0.005	0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.12	0.12	0.09	0.12	0.14	0.13
7. Chlorophyll-a, µg/L	5.7	3.9	3.2	4.3	7	7.1
8. Unionized Ammonia content, mg/L	0.004	0.003	0.004	0.003	0.004	0.002
9. E. coli count, cfu/100ml	2*	3*	8*	5*	5*	4*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : 
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	F1/F/S	F1/F/M	F1/F/B	F2/F/S	F2/F/B	F3/F/S
1. Biochemical oxygen demand, mg/L	1.7	1.8	2	1.6	1.3	1.2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.05	0.1	0.13	0.03	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.028	0.036	0.048	0.019	0.015	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.082	0.14	0.18	0.053	0.039	0.04
7. Chlorophyll-a, µg/L	4.6	3.9	3.4	2.7	2.6	2.1
8. Unionized Ammonia content, mg/L	0.003	0.005	0.005	0.002	<0.001	0.002
9. E. coli count, cfu/100ml	3.5 x 10	4.0 x 10	2.9 x 10	8*	0	2*

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2026

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	F3/F/B	F4/F/S	F4/F/M	F4/F/B	CR1/F/S	CR1/F/B
1. Biochemical oxygen demand, mg/L	1.3	1.3	1.7	1.2	<1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.03	0.05	0.03	0.03	0.06
4. Nitrate-Nitrogen content, mg/L	0.012	0.013	0.012	0.013	0.013	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.039	0.049	0.065	0.043	0.045	0.077
7. Chlorophyll-a, µg/L	2.7	1.9	2.3	2.6	4.3	4
8. Unionized Ammonia content, mg/L	<0.001	0.002	0.002	0.001	0.002	0.002
9. E. coli count, cfu/100ml	1*	0	1*	0	2.9 x 10	2.5 x 10

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	CR15/F/S	CR15/F/B	CR16/F/S	CR16/F/M	CR16/F/B	CR17/F/S
1. Biochemical oxygen demand, mg/L	<1	<1	1.3	1	1	<1
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	4	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.08	0.07	0.05	0.03	0.04	0.04
4. Nitrate-Nitrogen content, mg/L	0.045	0.068	0.061	0.014	0.028	0.059
5. Nitrite-Nitrogen content, mg/L	0.005	0.005	0.005	<0.005	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.13	0.14	0.12	0.044	0.071	0.11
7. Chlorophyll-a, µg/L	4.9	7	5.1	5.7	4.5	5.2
8. Unionized Ammonia content, mg/L	0.005	0.003	0.003	0.001	0.001	0.003
9. E. coli count, cfu/100ml	3*	5*	2.1 x 10	1.8 x 10	2*	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	CR17/F/B	G1/F/S	G1/F/M	G1/F/B	CR9/F/S	CR9/F/M
1. Biochemical oxygen demand, mg/L	1.6	1.5	1.8	1.3	1.4	1.4
2. Total suspended solids dried at 103°C - 105°C, mg/L	4	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.02	0.05	0.02	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.011	0.013	0.021	0.016	0.013	0.011
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.032	0.036	0.076	0.043	0.043	0.051
7. Chlorophyll-a, µg/L	5.9	4.5	3.9	3.8	3.9	2.6
8. Unionized Ammonia content, mg/L	<0.001	0.001	0.003	<0.001	0.001	0.002
9. E. coli count, cfu/100ml	1*	0	5*	6*	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	CR9/F/B	G1*/F/S	G1*/F/B	C1*/F/S	C1*/F/M	C1*/F/B
1. Biochemical oxygen demand, mg/L	1.5	1.4	1.4	1.4	1.3	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.16	0.14	0.02	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.016	0.049	0.048	0.015	0.014	0.014
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.049	0.21	0.19	0.044	0.049	0.053
7. Chlorophyll-a, µg/L	3.2	4.9	4.4	3.2	3	2.9
8. Unionized Ammonia content, mg/L	0.001	0.009	0.005	0.001	0.001	0.002
9. E. coli count, cfu/100ml	0	6.1 x 10	5.5 x 10	0	0	0

Remarks: 1.Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	TPLMB/F/M	W1/E/S	W1/E/B	W2/E/S	W2/E/B	C1/E/S
1. Biochemical oxygen demand, mg/L	1.7	1.6	1.6	1.9	1.6	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	4	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.04	0.03	0.05	0.06
4. Nitrate-Nitrogen content, mg/L	0.014	0.061	0.061	0.019	0.099	0.017
5. Nitrite-Nitrogen content, mg/L	0.005	0.006	0.005	<0.005	<0.005	0.006
6. Total Inorganic Nitrogen content, mg/L	0.045	0.1	0.11	0.053	0.15	0.081
7. Chlorophyll-a, µg/L	3.1	6	7.6	6.3	4.3	6.3
8. Unionized Ammonia content, mg/L	0.002	0.002	0.002	0.002	0.002	0.004
9. E. coli count, cfu/100ml	1*	6*	3*	3.4 x 10	2.9 x 10	2*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	C1/E/B	F1/E/S	F1/E/M	F1/E/B	F2/E/S	F2/E/B
1. Biochemical oxygen demand, mg/L	2	1.6	1.4	1.3	1.5	1.7
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.05	0.06	0.16	0.02	0.03
4. Nitrate-Nitrogen content, mg/L	0.063	0.012	0.036	0.048	0.016	0.016
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005	<0.005	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.11	0.067	0.11	0.21	0.037	0.046
7. Chlorophyll-a, µg/L	5.5	6	4.7	4.5	4.4	4.2
8. Unionized Ammonia content, mg/L	0.002	0.002	0.003	0.006	<0.001	0.001
9. E. coli count, cfu/100ml	3*	5.8 x 10	5.0 x 10	6.0 x 10	0	6*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/12/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	F3/E/S	F3/E/B	F4/E/S	F4/E/M	F4/E/B	CR1/E/S
1. Biochemical oxygen demand, mg/L	1.4	2	1.8	1.9	1.9	1.8
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	4
3. Ammoniacal nitrogen content, mg/L	0.05	0.05	0.02	0.03	0.04	0.04
4. Nitrate-Nitrogen content, mg/L	0.016	0.017	0.012	0.011	0.034	0.030
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.069	0.075	0.04	0.042	0.084	0.072
7. Chlorophyll-a, µg/L	3	4.1	4.3	3.8	3.6	6.5
8. Unionized Ammonia content, mg/L	0.003	0.003	0.001	0.001	0.002	0.002
9. E. coli count, cfu/100ml	0	0	0	0	0	8*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	CR1/E/B	CR15/E/S	CR15/E/B	CR16/E/S	CR16/E/M	CR16/E/B
1. Biochemical oxygen demand, mg/L	2	1.7	1.6	1.9	2	2
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.09	0.02	0.07	0.06	0.05	0.04
4. Nitrate-Nitrogen content, mg/L	0.030	0.023	0.021	0.018	0.034	0.018
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	<0.005	0.006	0.005
6. Total Inorganic Nitrogen content, mg/L	0.13	0.051	0.1	0.083	0.088	0.063
7. Chlorophyll-a, µg/L	5.6	6.4	3.8	3.7	5.1	5.2
8. Unionized Ammonia content, mg/L	0.004	0.002	0.003	0.004	0.003	0.001
9. E. coli count, cfu/100ml	9*	1*	3*	0	5*	3*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	CR17/E/S	CR17/E/B	G1/E/S	G1/E/M	G1/E/B	CR9/E/S
1. Biochemical oxygen demand, mg/L	1.3	1.2	1.4	1.5	1.7	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	4	3	3
3. Ammoniacal nitrogen content, mg/L	0.04	0.02	0.07	0.04	0.03	0.03
4. Nitrate-Nitrogen content, mg/L	0.016	0.016	0.022	0.018	0.020	0.010
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	<0.005	0.005	0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.058	0.042	0.096	0.061	0.054	0.04
7. Chlorophyll-a, µg/L	5.9	4.7	3.7	3.5	4	3.3
8. Unionized Ammonia content, mg/L	0.002	<0.001	0.004	0.002	0.001	0.001
9. E. coli count, cfu/100ml	0	4*	3*	3*	1*	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification					
	CR9/E/M	CR9/E/B	G1*/E/S	G1*/E/B	C1*/E/S	C1*/E/M
1. Biochemical oxygen demand, mg/L	1.4	1.7	1.8	1.5	1.6	1.5
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3	3	3	3	3
3. Ammoniacal nitrogen content, mg/L	0.03	0.03	0.04	0.1	0.04	0.02
4. Nitrate-Nitrogen content, mg/L	0.011	0.013	0.031	0.043	0.008	0.008
5. Nitrite-Nitrogen content, mg/L	<0.005	<0.005	0.006	0.005	<0.005	<0.005
6. Total Inorganic Nitrogen content, mg/L	0.043	0.045	0.075	0.15	0.052	0.036
7. Chlorophyll-a, µg/L	3.4	3.6	4.5	4.9	4.6	4.1
8. Unionized Ammonia content, mg/L	0.001	0.001	0.002	0.004	0.002	0.001
9. E. coli count, cfu/100ml	1*	0	6.5 x 10	7.1 x 10	0	0

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report No. : 230964WA233340(23)

Results :

Test parameters	Sample identification	
	C1*/E/B	TPLMB/E/M
1. Biochemical oxygen demand, mg/L	1.6	1.6
2. Total suspended solids dried at 103°C - 105°C, mg/L	3	3
3. Ammoniacal nitrogen content, mg/L	0.02	0.05
4. Nitrate-Nitrogen content, mg/L	0.009	0.018
5. Nitrite-Nitrogen content, mg/L	<0.005	0.005
6. Total Inorganic Nitrogen content, mg/L	0.034	0.072
7. Chlorophyll-a, µg/L	4.2	4.9
8. Unionized Ammonia content, mg/L	<0.001	0.003
9. E. coli count, cfu/100ml	0	1*

Remarks:
1. Total Inorganic Nitrogen (in mg/L) = Total Oxidised Nitrogen Content (in mg/L) + Ammoniacal Nitrogen Content (in mg/L)
2. Temperature of ice-box when samples being received were 7.0°C.
3. Unionized Ammonia content calculation is based on client submitted field record (pH value, temperature and salinity). Hence, Non-HOKLAS report is issued.
4. * Estimated for E. coli count means the colonies counted was not in the range of 10 to 100 cfu/100ml.
5. '0' for E. coli count means the colonies counted was less than one cfu/100ml.

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Biochemical oxygen demand, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	-	0.86	0.86	0.00
			1.58	1.64	3.73
			1.88	1.97	4.68
			1.55	1.57	1.28

Nitrate-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Total suspended solids dried at 103°C – 105°C, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
1	<1	102.28	3.73	3.49	6.65
		99.83	3.01	3.15	4.55
		98.97	2.75	2.69	2.21
		99.40	2.90	2.69	7.51

Nitrite-Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	101.50	5.25	5.25	0.00
	<0.005	98.50	4.85	4.95	2.04
	<0.005	98.00	5.00	5.05	1.00
	<0.005	99.00	5.10	5.00	1.98

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

Date : 9/2/2024

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Note

Laboratory Duplicate, Quality Assurance/Quality Control Report

Ammoniacal Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	<0.005	103.67	0.065	0.065	0.00
	<0.005	100.50	0.029	0.028	3.51
	<0.005	102.83	0.039	0.040	2.53
	<0.005	101.67	0.049	0.050	2.02

Total Inorganic Nitrogen content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.005	-	-	-	-	-

Chlorophyll-a, µg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	<0.01	96.9	6.8	7.3	6.05
	<0.01	94.2	6.2	6.5	6.06
	<0.01	110.9	5.1	5.3	2.64
	<0.01	98.8	5.0	4.9	3.07

Unionized Ammonia content, mg/L					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	RPD%
0.01	-	-	-	-	-

E. coli count, cfu/100ml					
Reporting Limit	Blank	Spike recovery (%)	Laboratory Duplicate		
			Original result	Duplicate result	Precision
1	0	-	9	1.2 x 10	12.49
			3.5 x 10	3.3 x 10	2.56
			0	0	0
			0	0	0

Certified by : _____
Approved Signatory : HO Kin Man, John
Director

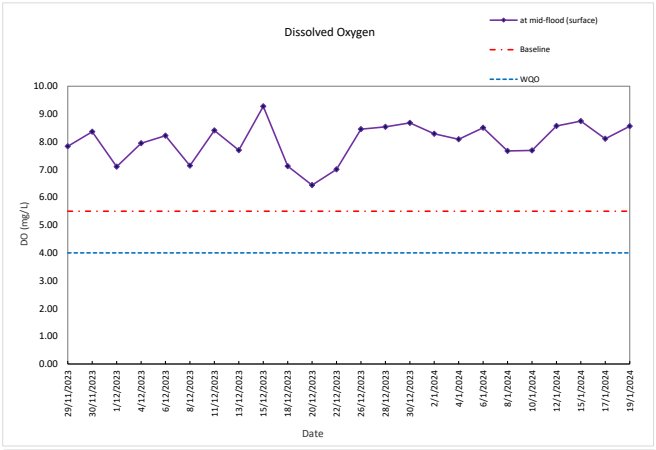
Date : 9/2/2024

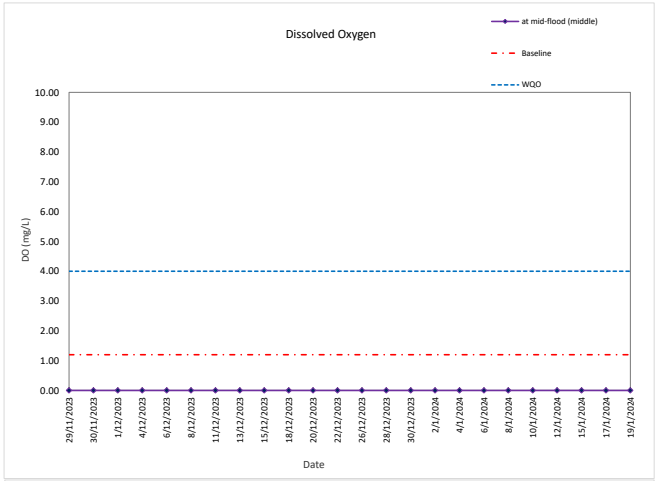
Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

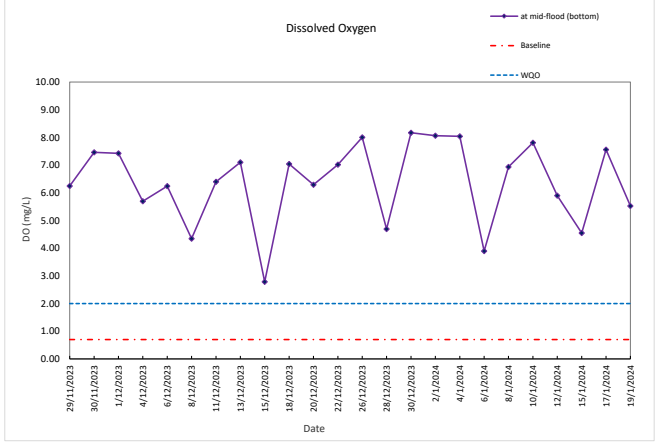
The copyright of this report is owned by Fugro Technical Services Limited. This report shall not be reproduced except in full.

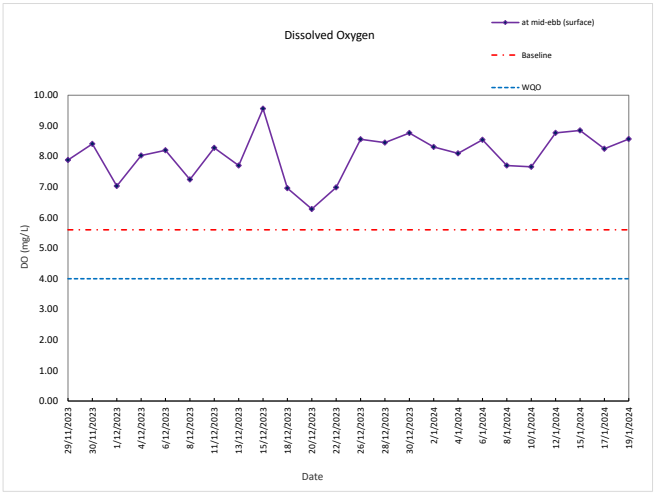
T +852 2450 8233 | **F** +852 2450 6138 | **E** matlab@fugro.com | **W** fugro.com

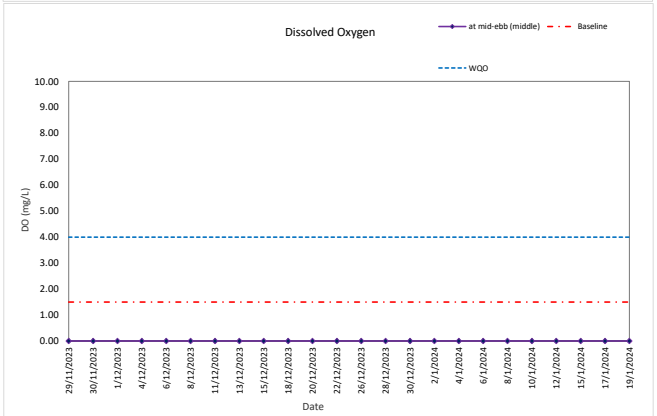
Graphic Presentation of Water Quality Result of
W1 - WSD Seawater Intake at Sha Tin

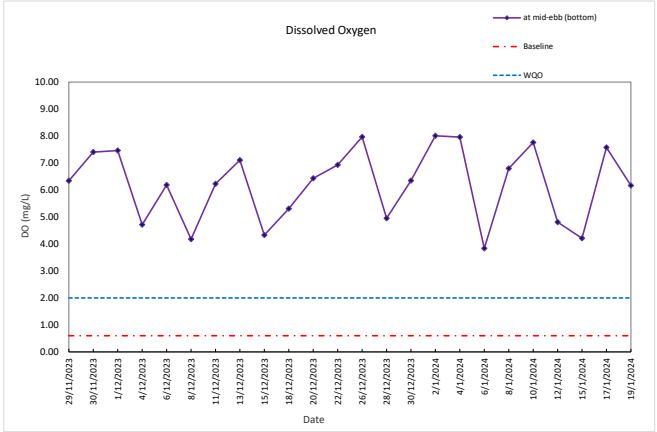


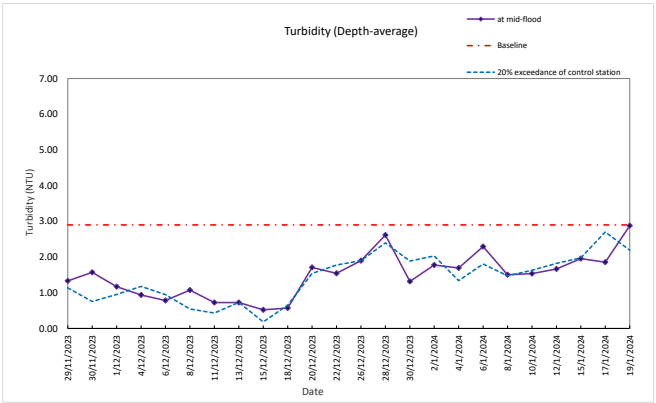


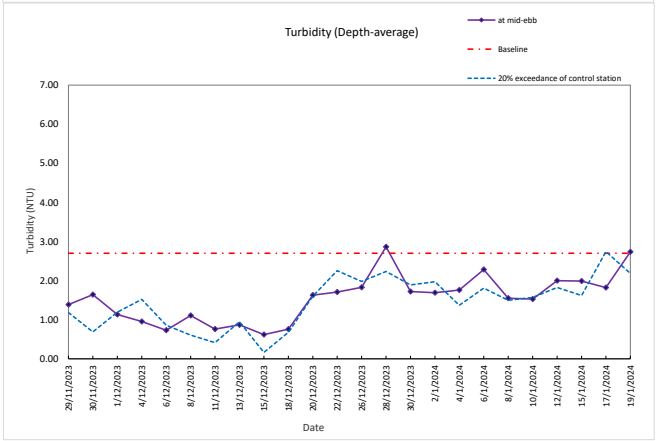


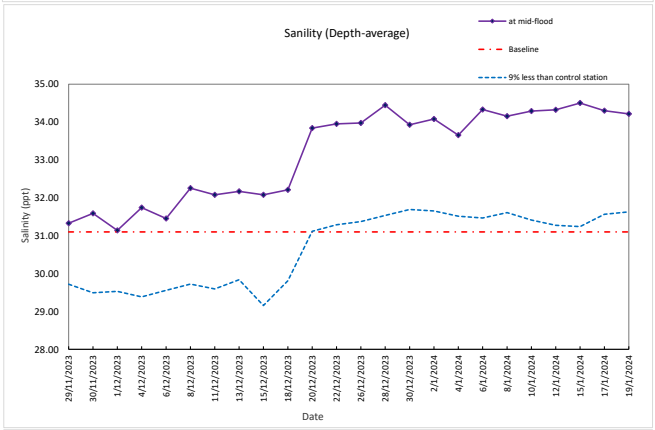

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

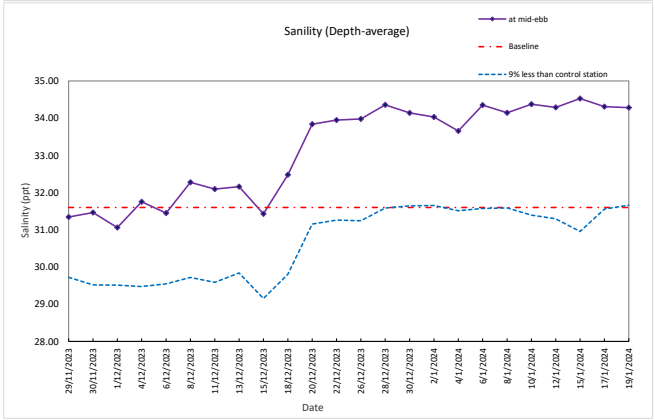

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

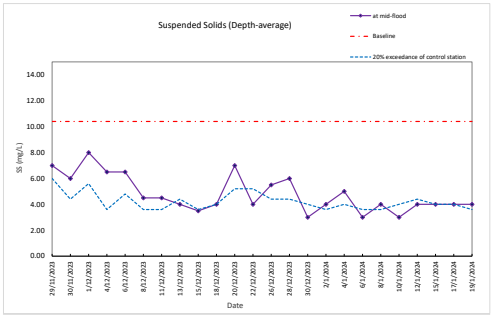

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

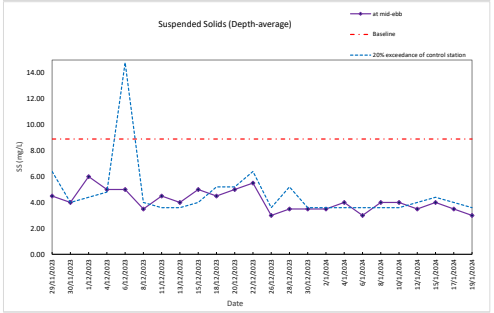

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

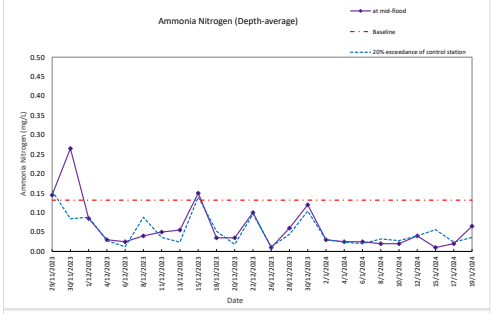

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

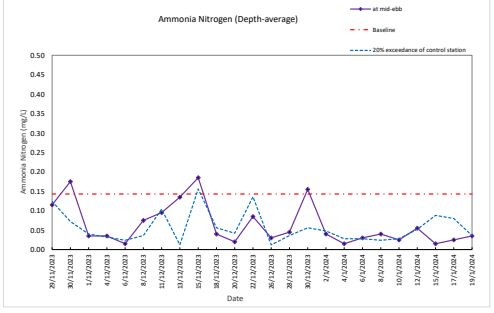

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

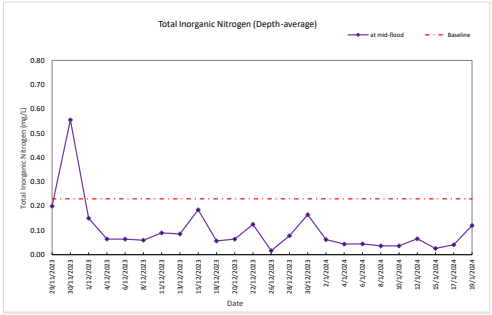

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

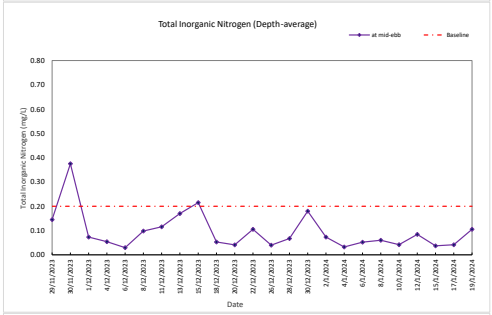

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

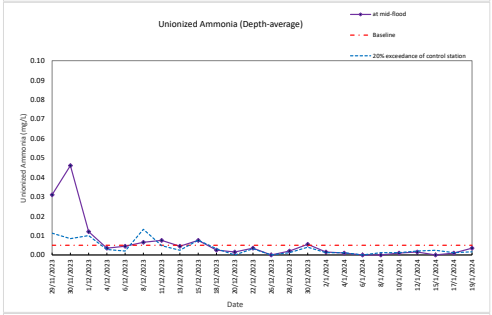

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

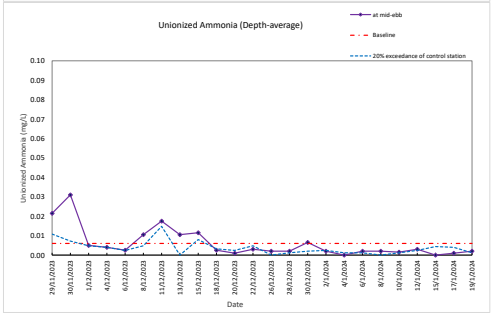

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

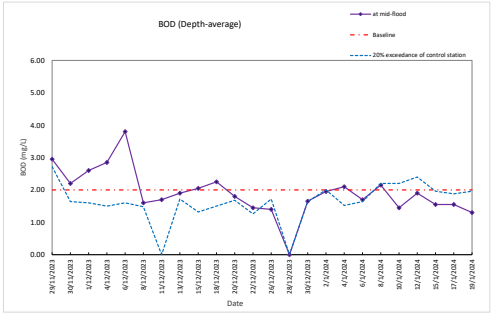

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

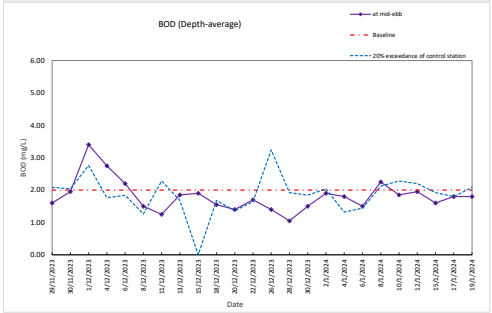

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

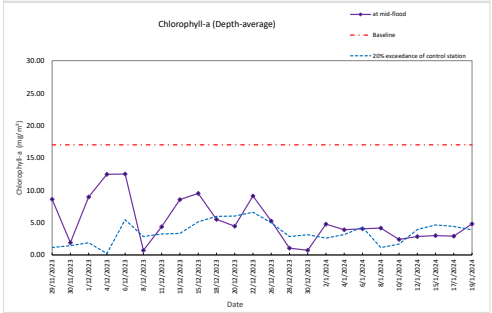

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

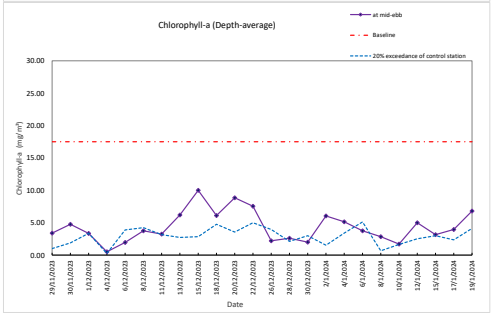

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

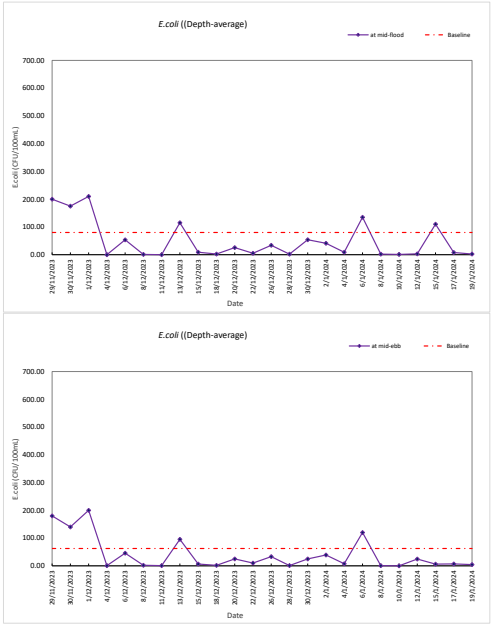

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date


BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

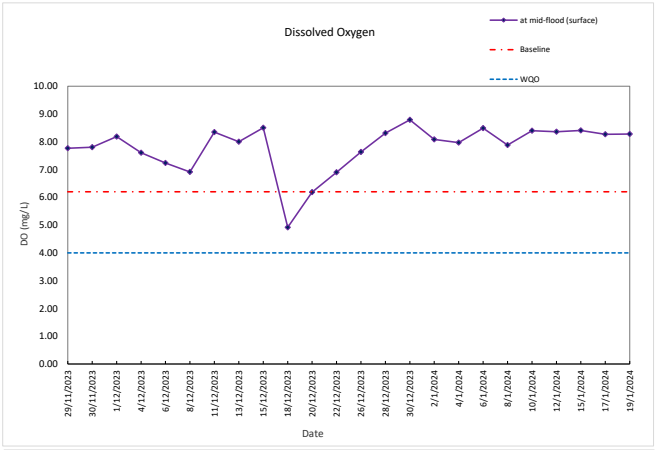

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

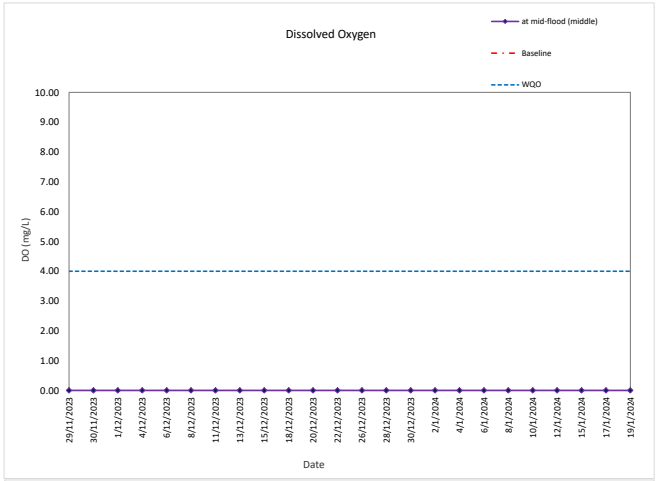

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

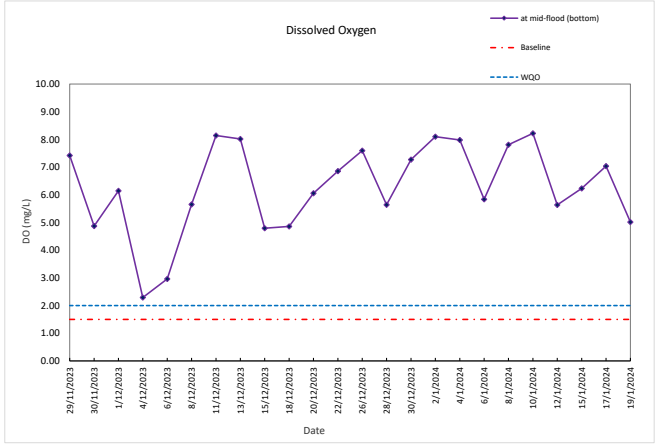

E.coli ((Depth-average)
at mid-flood
Baseline
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100ml)
29/11/2023
3/12/2023
7/12/2023
11/12/2023
15/12/2023
19/12/2023
23/12/2023
27/12/2023
31/12/2023
4/1/2024
8/1/2024
12/1/2024
16/1/2024
20/1/2024
24/1/2024
28/1/2024
Date

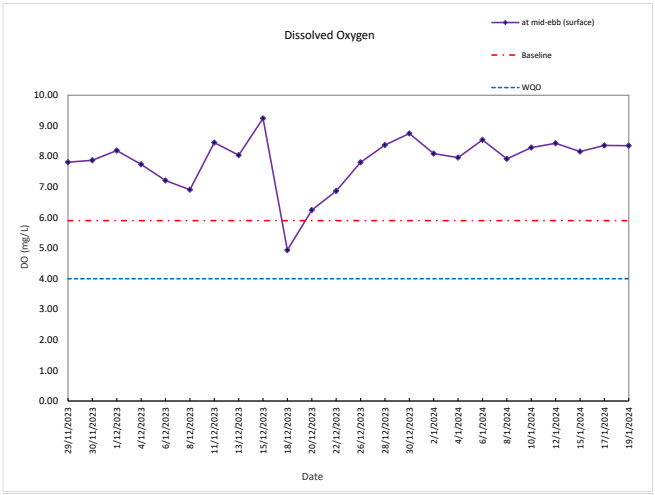
E.coli ((Depth-average)
at mid-ebb
Baseline
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100ml)
29/11/2023
3/12/2023
7/12/2023
11/12/2023
15/12/2023
19/12/2023
23/12/2023
27/12/2023
31/12/2023
4/1/2024
8/1/2024
12/1/2024
16/1/2024
20/1/2024
24/1/2024
28/1/2024
Date

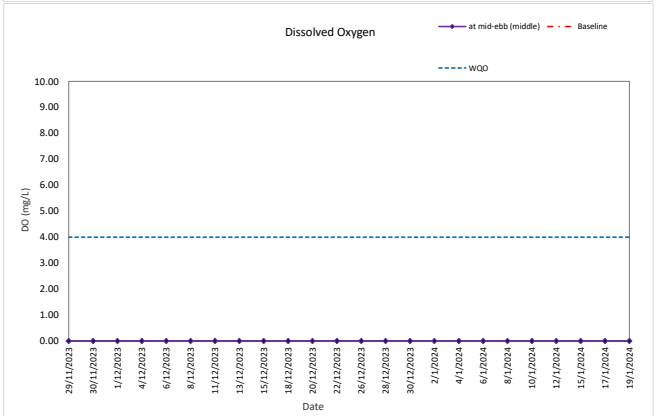
Graphic Presentation of Water Quality Result of
W2 - WSD Seawater Intake at Tai Po

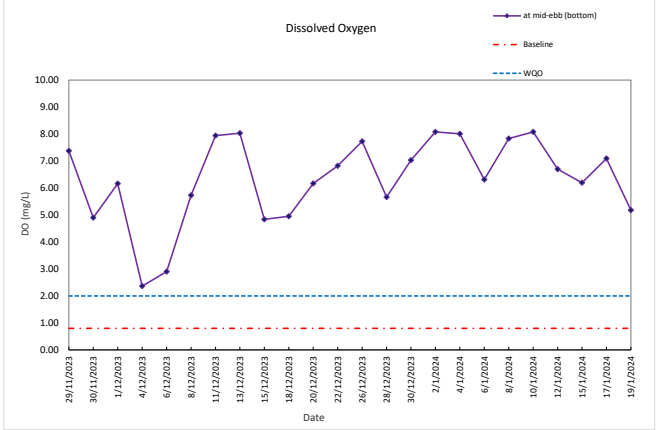


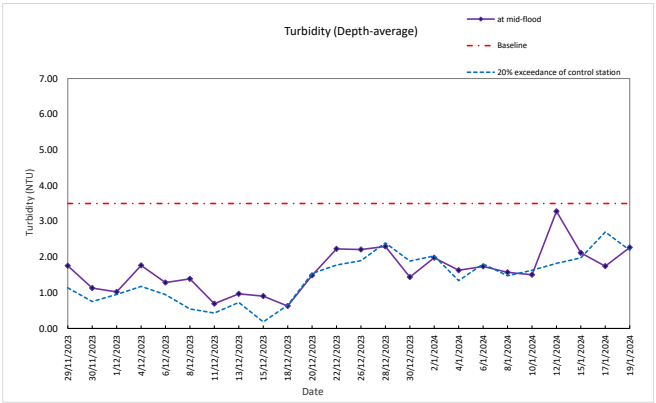


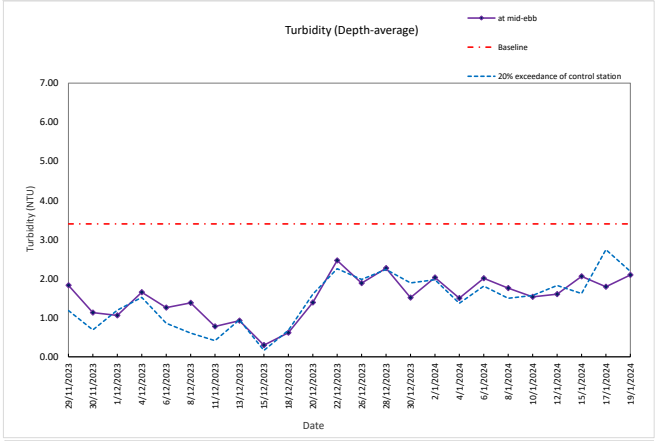


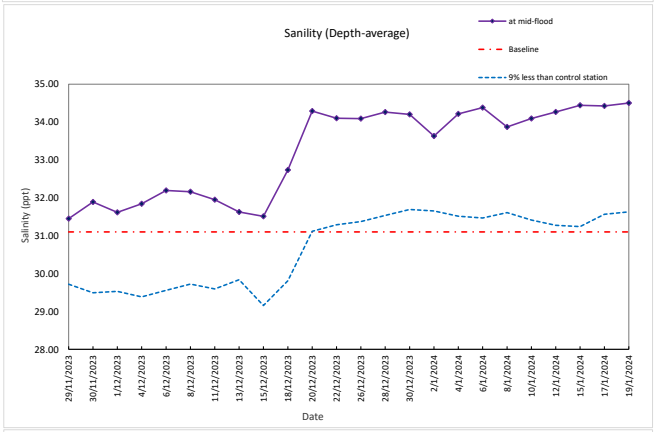

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

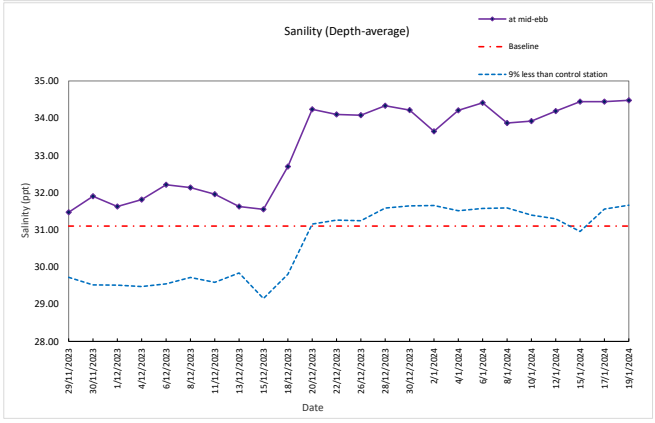

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

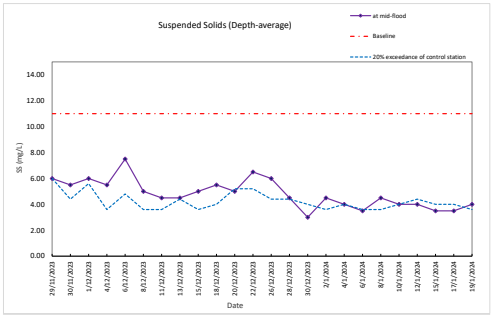

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

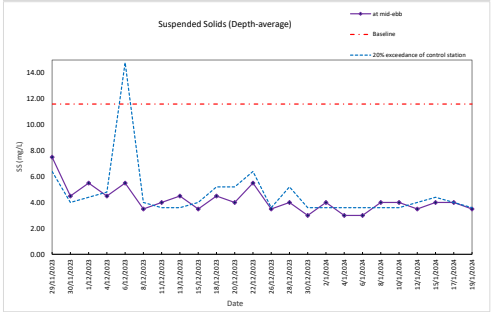

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

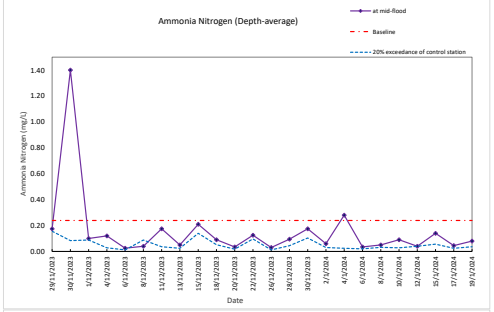

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

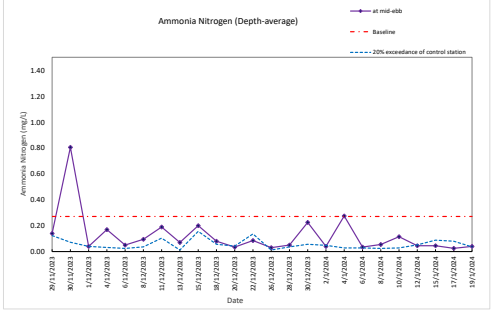

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

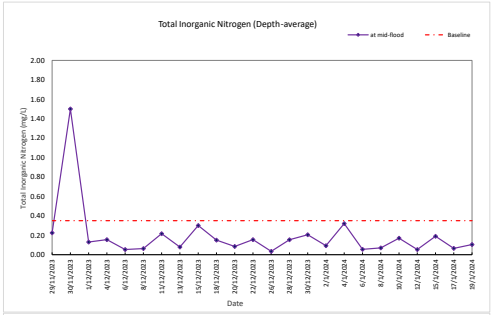

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

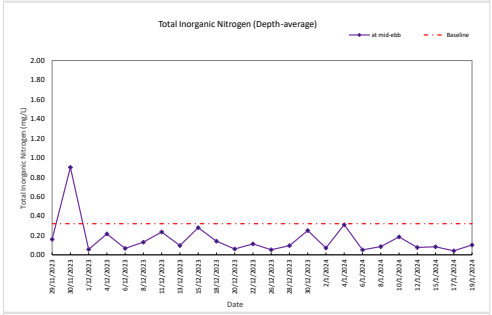

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

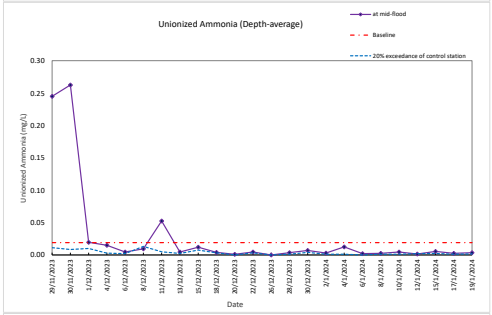

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

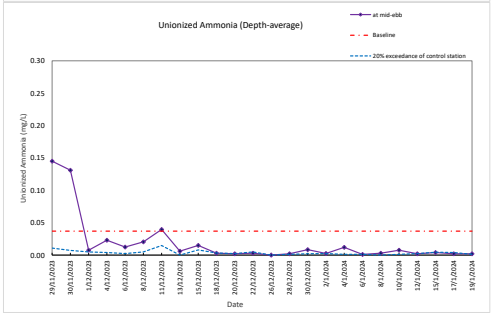

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

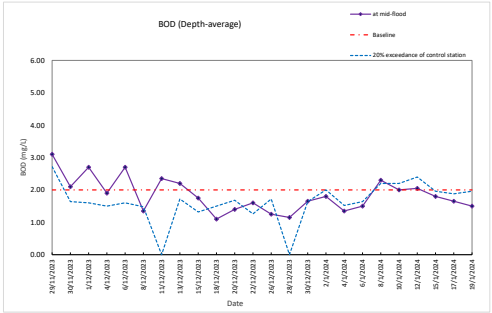

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

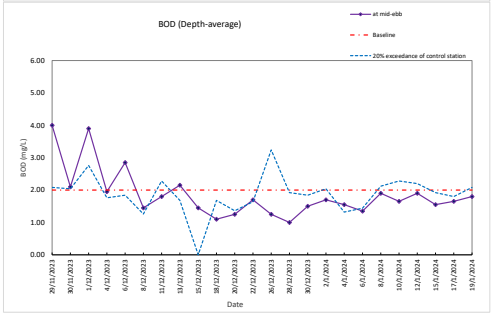

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

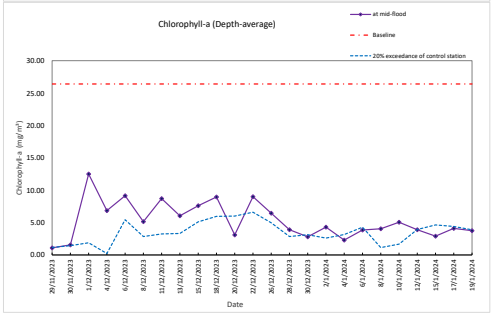

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

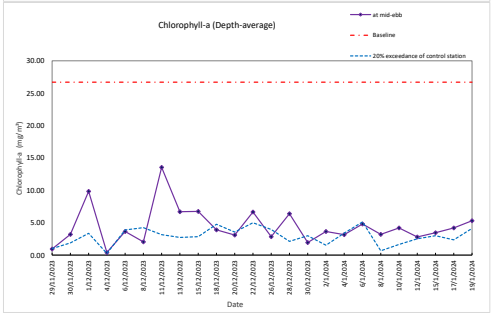

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

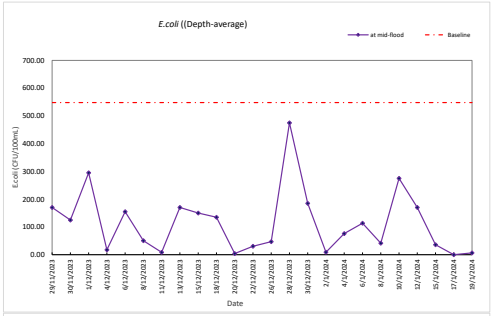

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

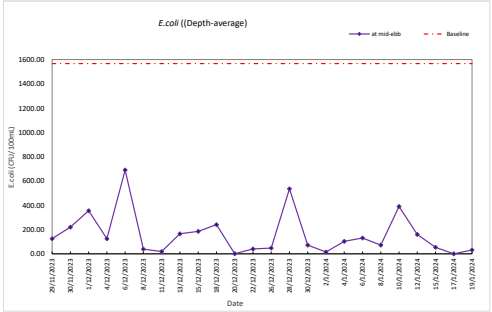

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

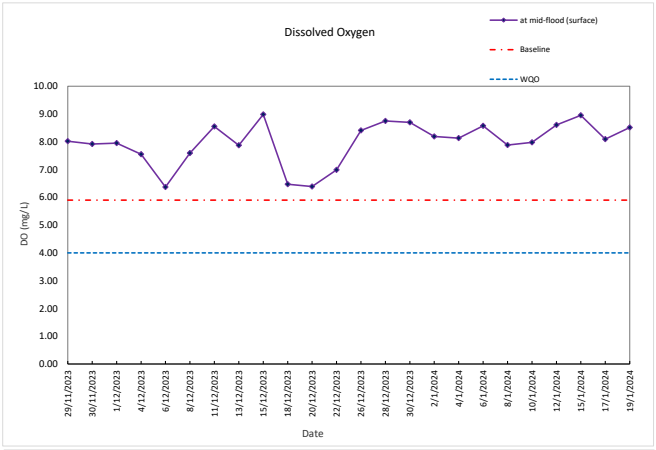

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

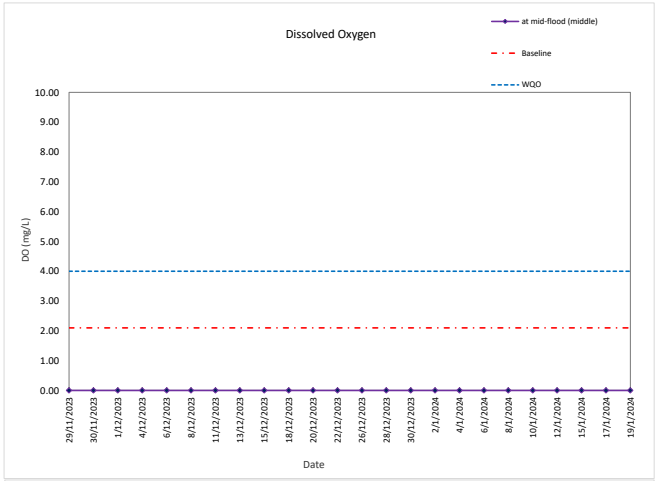

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

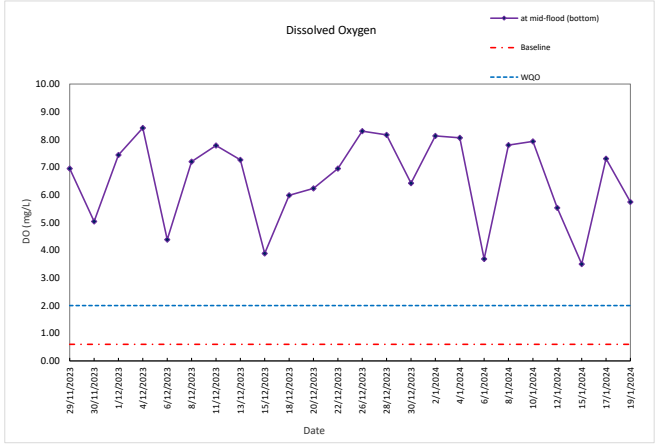

E.coli ((Depth-average)
at mid-flood
Baseline
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100mL)
29/11/2023
3/12/2023
7/12/2023
11/12/2023
15/12/2023
19/12/2023
23/12/2023
27/12/2023
31/12/2023
4/1/2024
8/1/2024
12/1/2024
16/1/2024
20/1/2024
24/1/2024
28/1/2024
Date

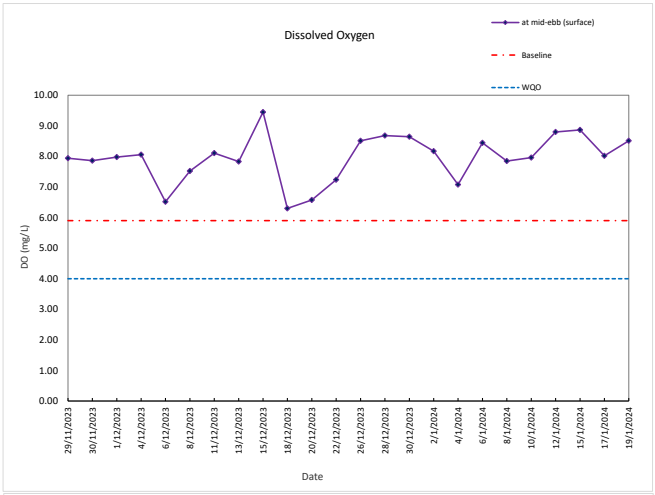

E.coli ((Depth-average)
at mid-ebb
Baseline
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
E.coli (CFU/100mL)
29/11/2023
3/12/2023
7/12/2023
11/12/2023
15/12/2023
19/12/2023
23/12/2023
27/12/2023
31/12/2023
4/1/2024
8/1/2024
12/1/2024
16/1/2024
20/1/2024
24/1/2024
28/1/2024
Date

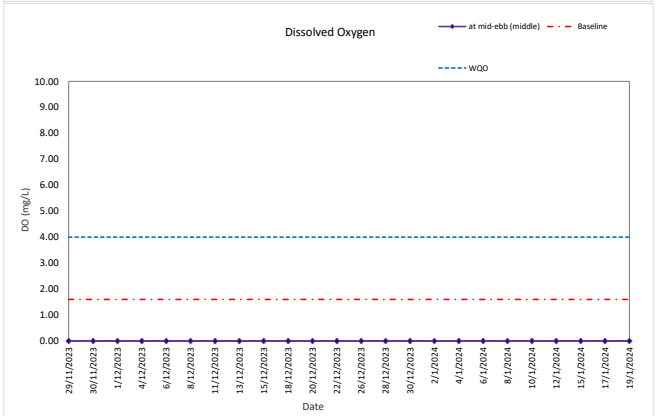
Graphic Presentation of Water Quality Result of
C1 - Cooling Water Intake at CUHK Marine Science Laboratory

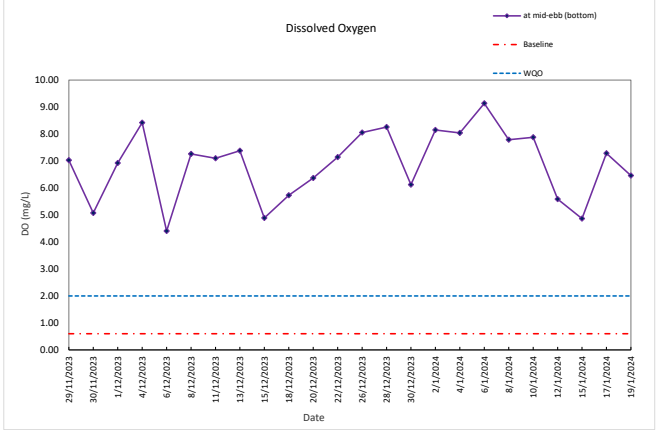


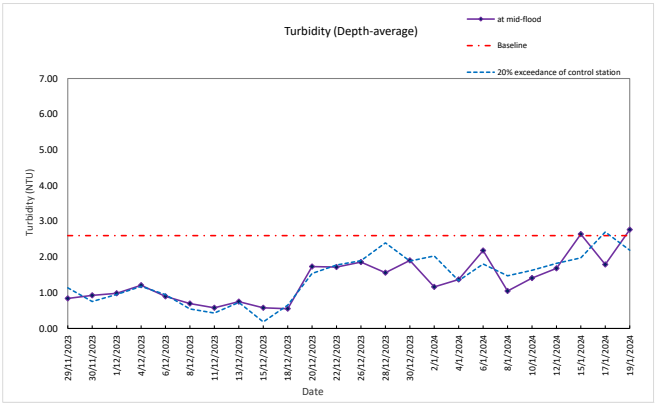


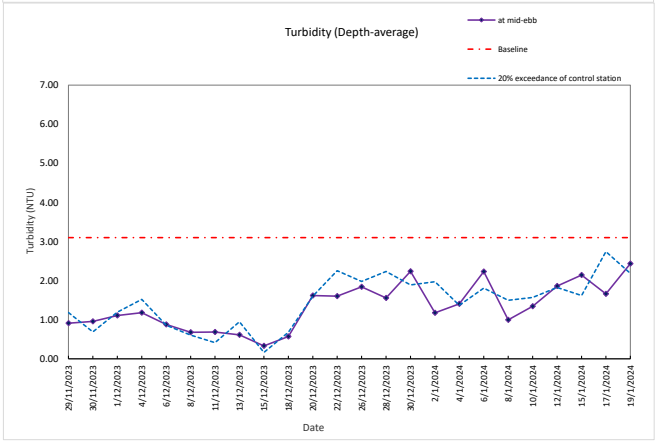


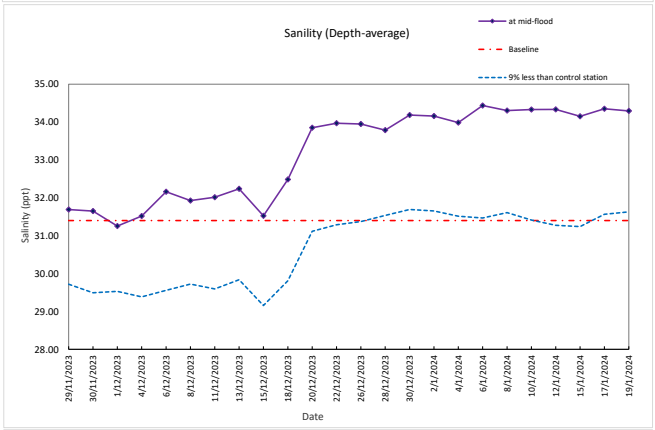

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

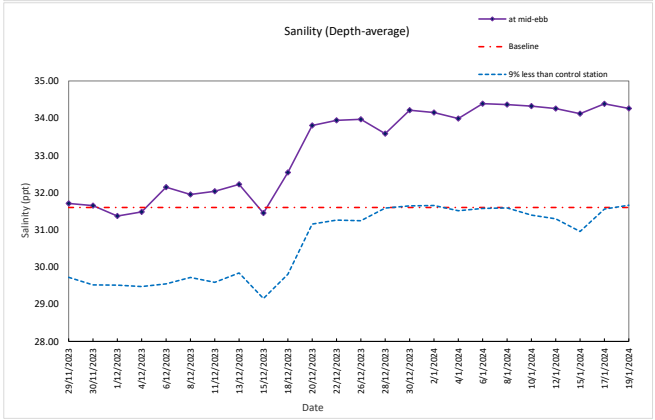

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

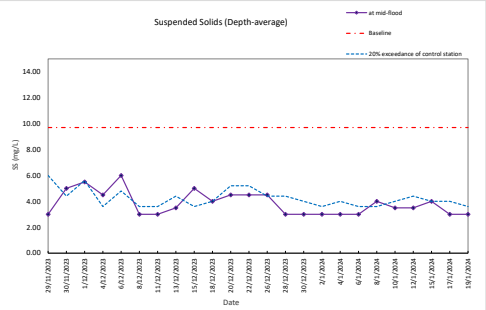

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

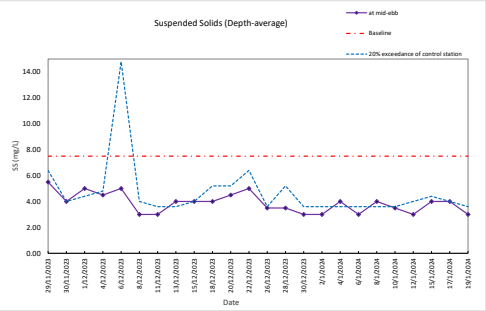

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

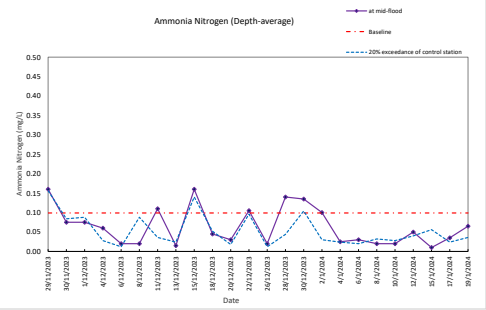

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

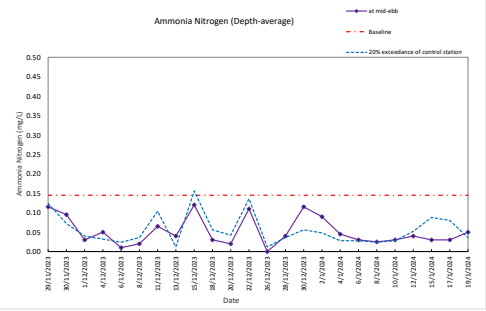

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

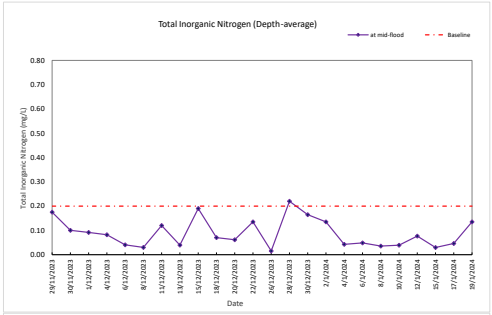

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

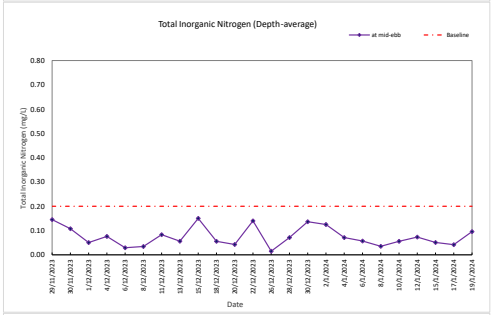

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

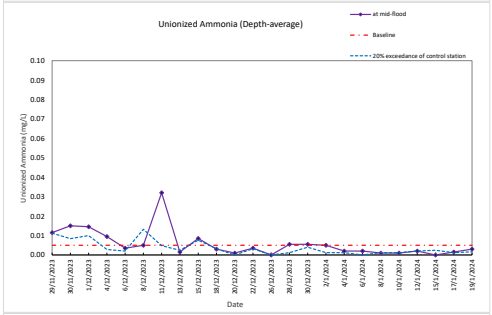

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

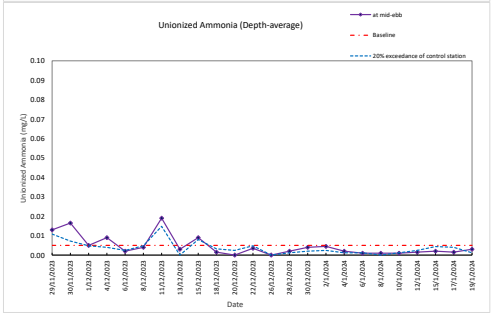

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

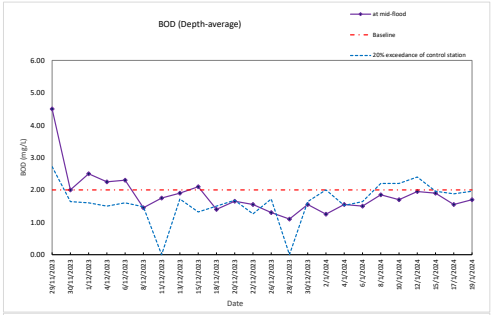

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

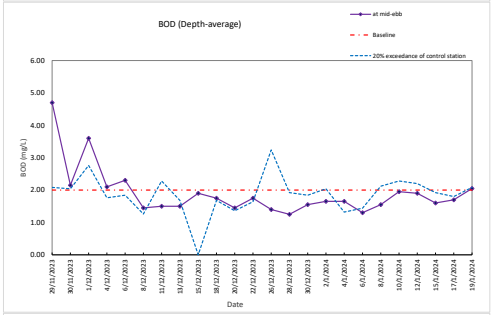

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

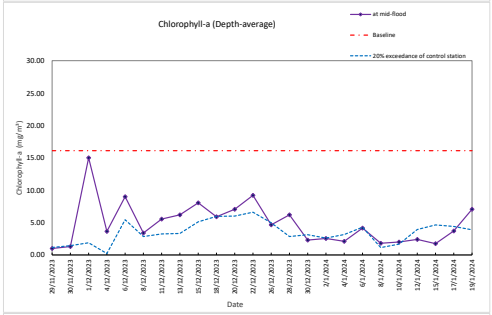

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

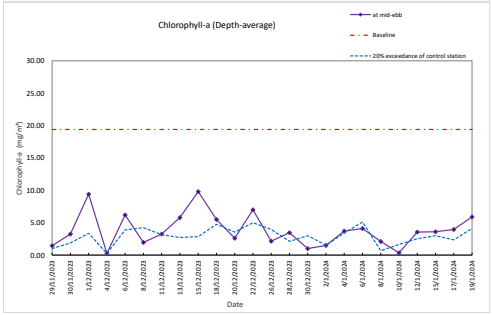

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

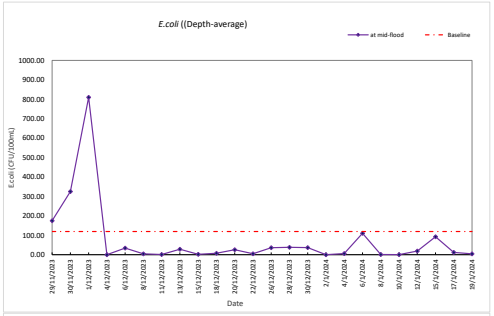

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

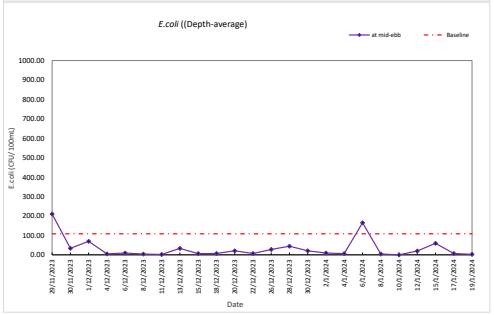

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

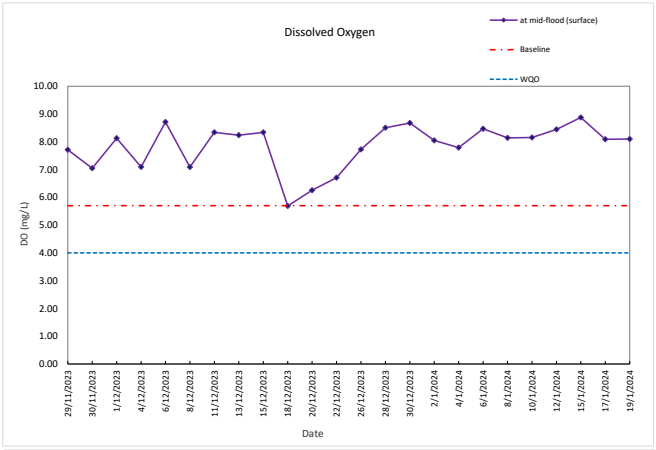

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

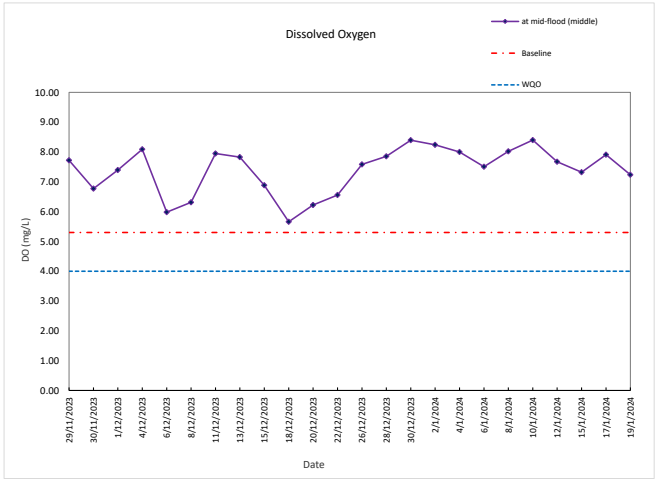

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

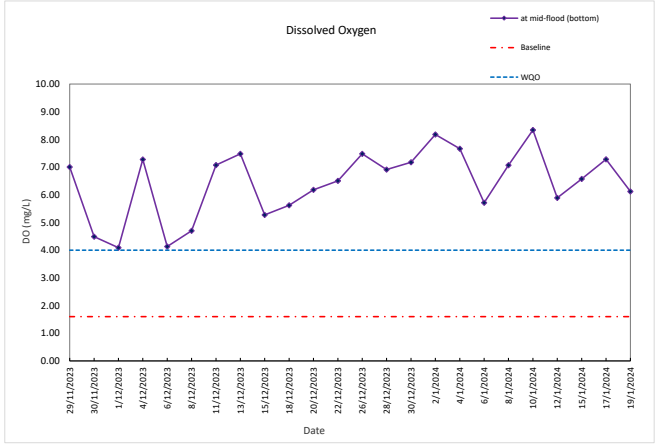

E.coli ((Depth-average)
at mid-flood
Baseline
1000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

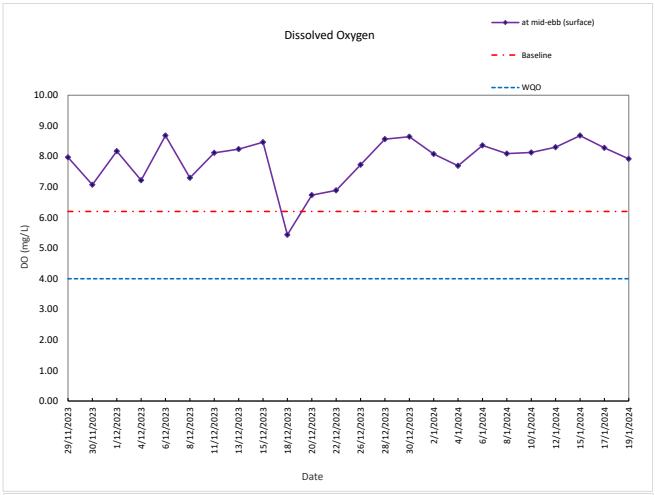

E.coli ((Depth-average)
at mid-ebb
Baseline
1000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

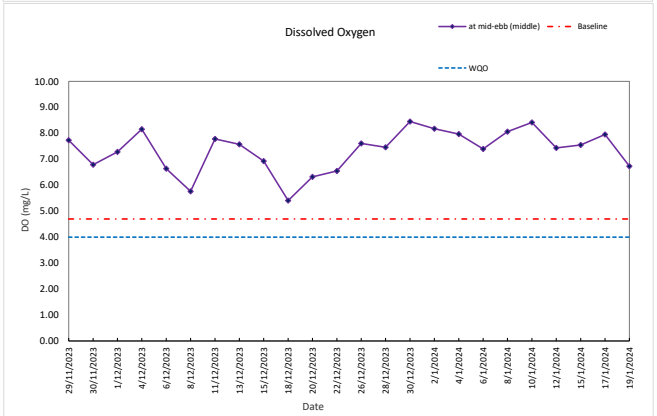
Graphic Presentation of Water Quality Result of
F1 - Yim Tin Tsai Fish Culture Zone

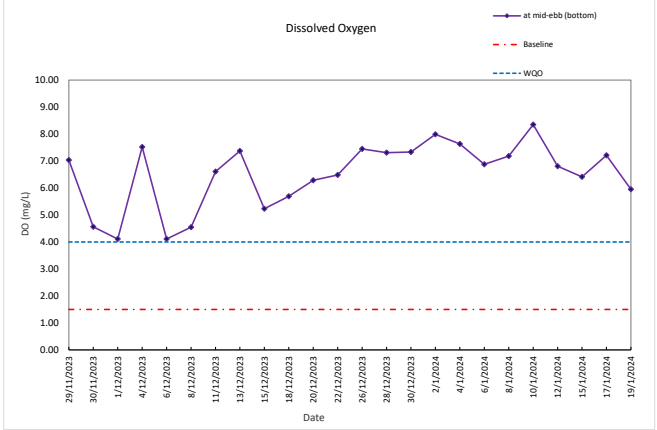


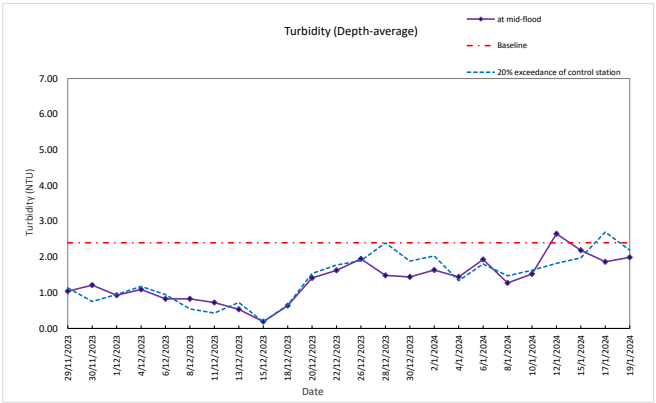


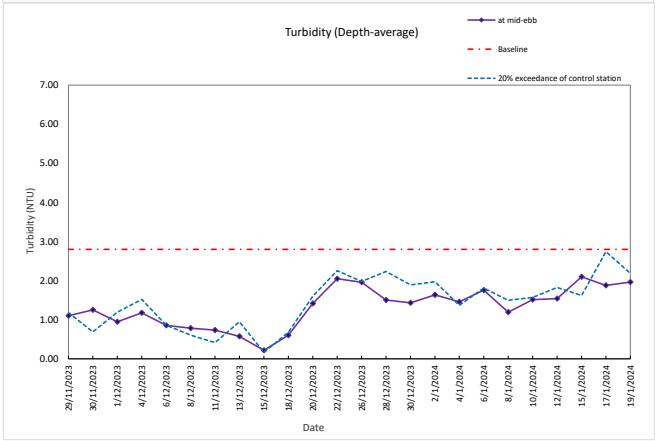


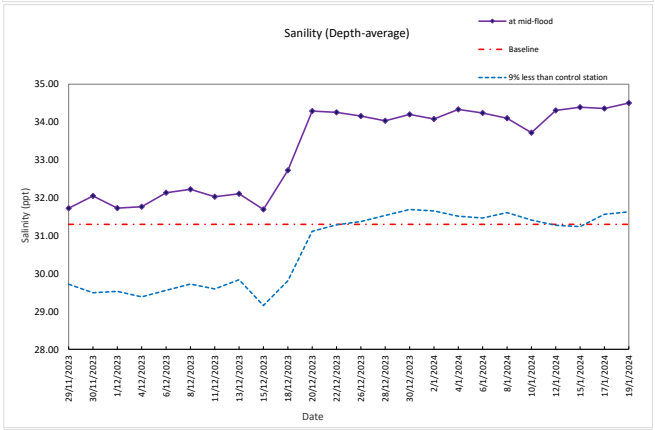

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

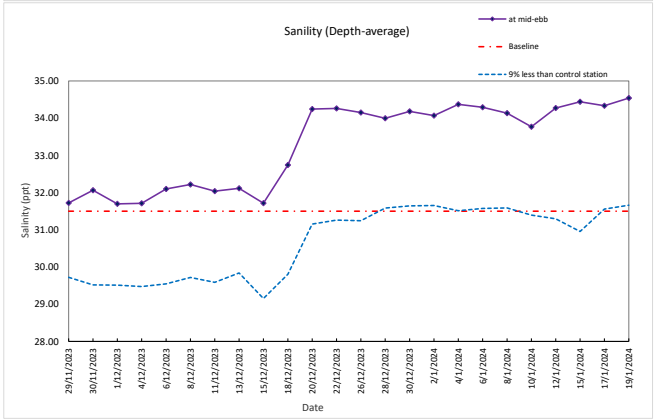

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

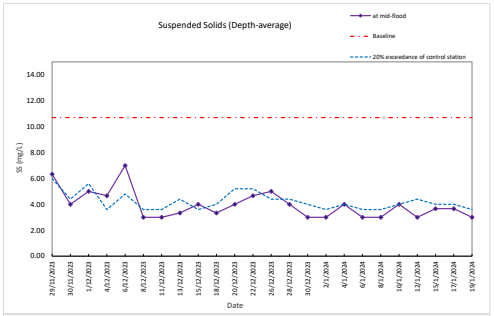

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

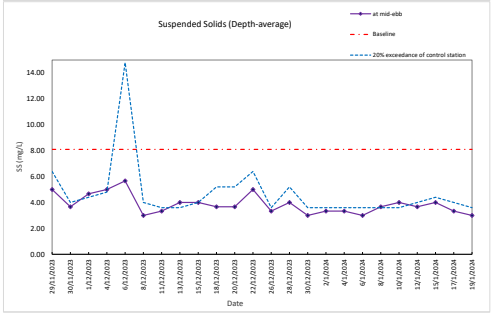

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

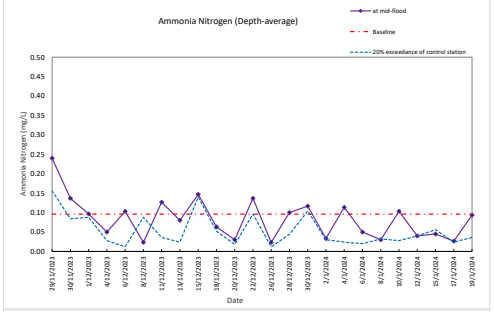

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

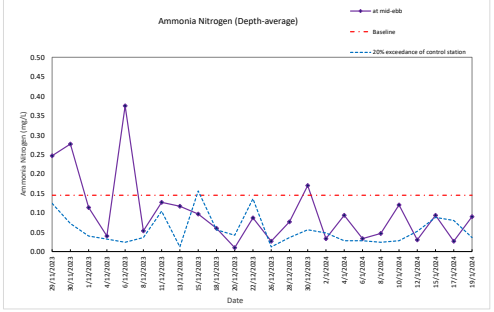

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

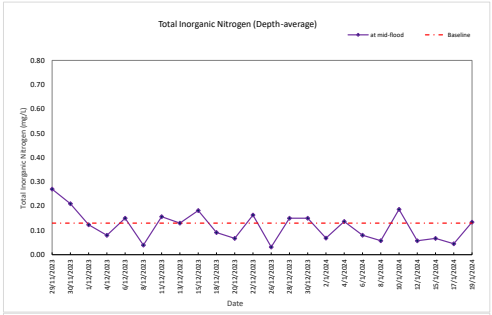

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

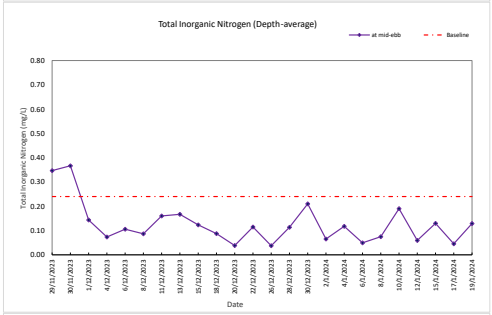

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

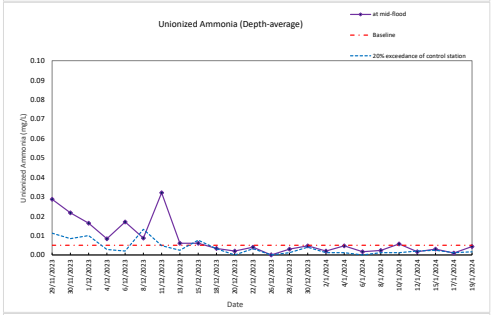

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

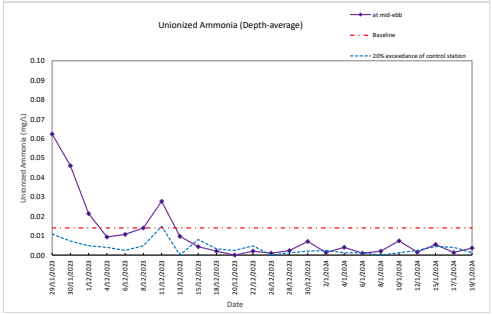

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

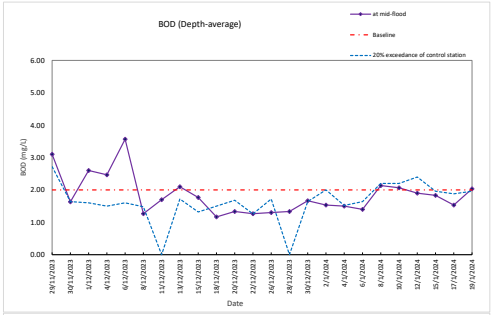

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

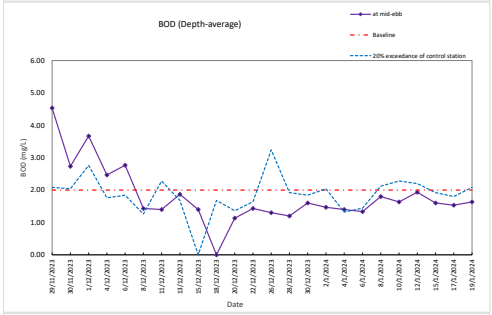

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

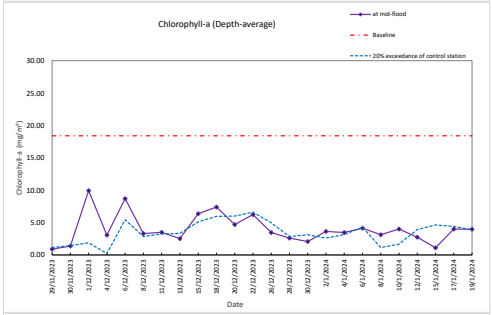

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

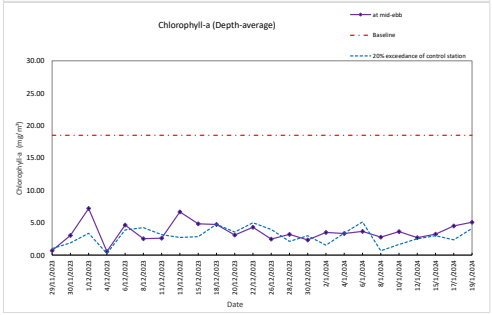

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

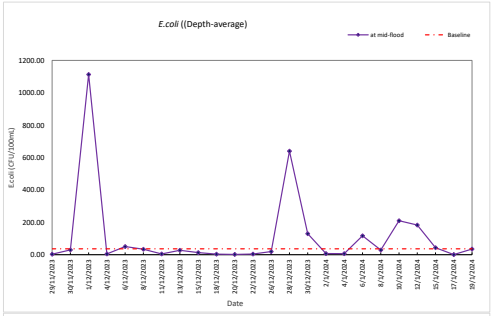

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

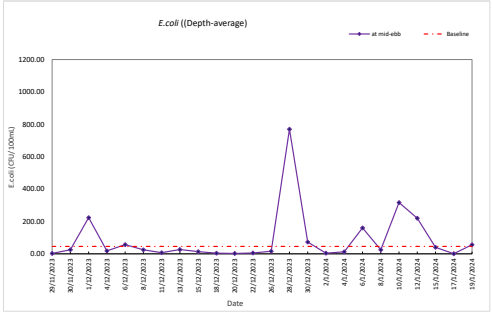

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

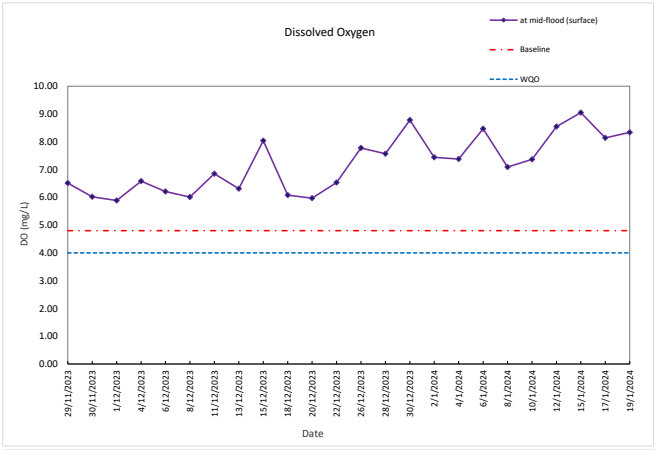

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

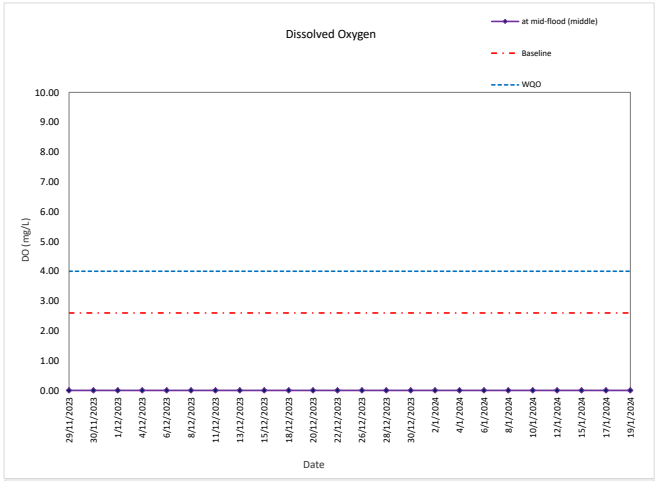

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

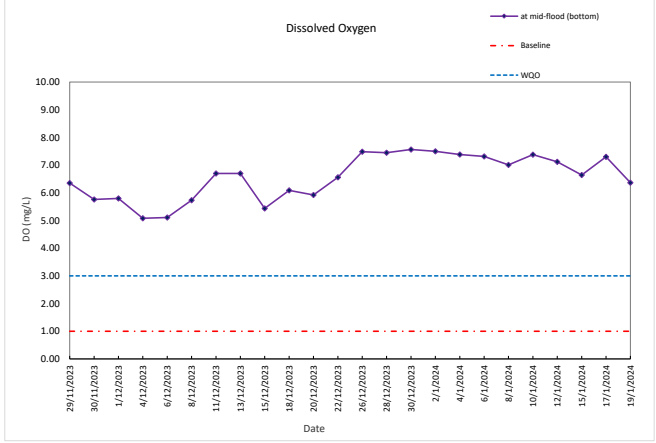

E.coli ((Depth-average)
at mid-flood
Baseline
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
E.coli (CFU/100mL)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

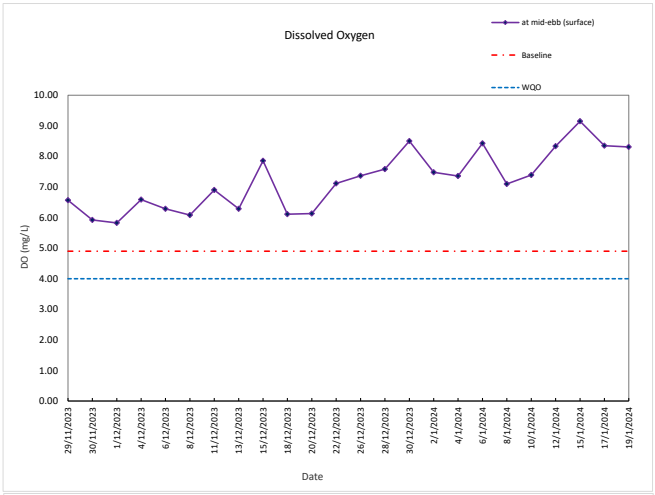

E.coli ((Depth-average)
at mid-ebb
Baseline
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
E.coli (CFU/100mL)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

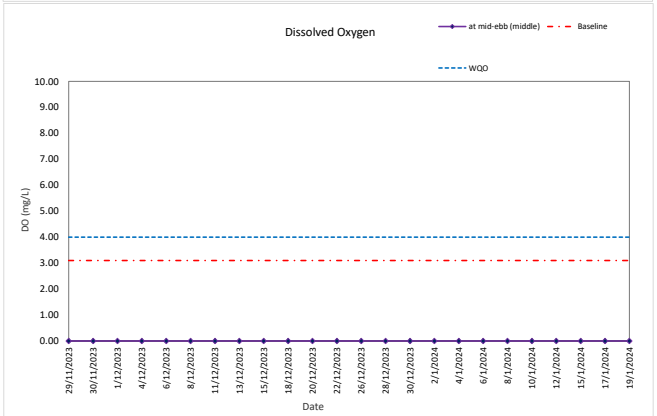
Graphic Presentation of Water Quality Result of
F2 -Yim Tin Tsai (East) Fish Culture Zone

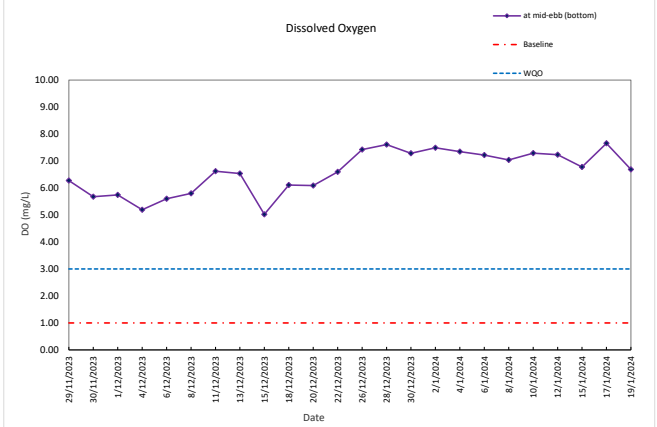


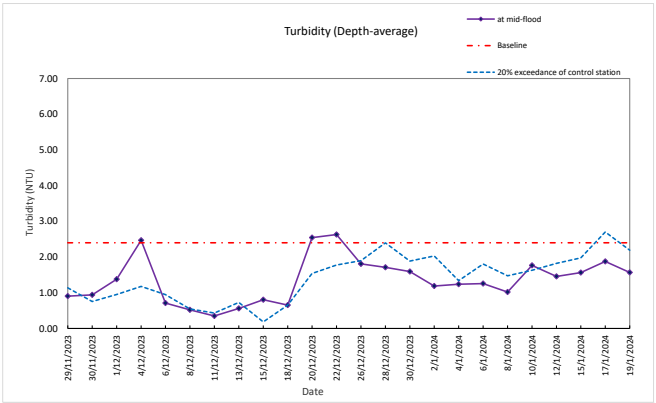


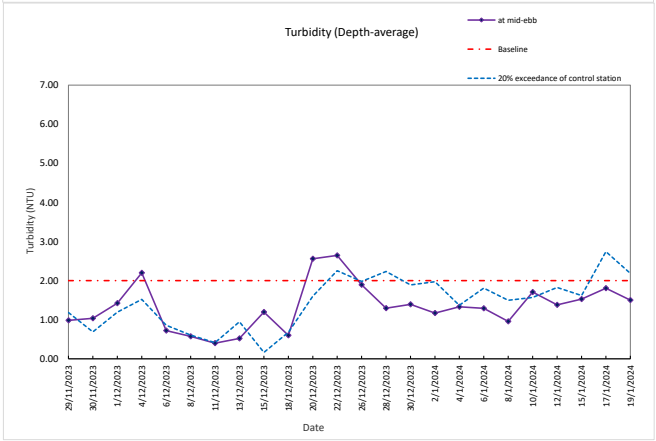


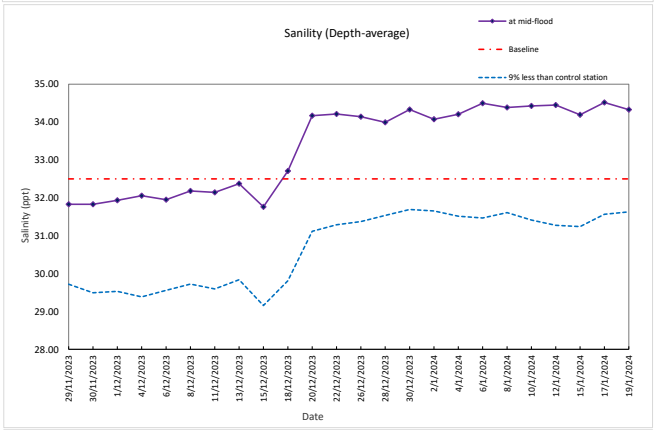

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

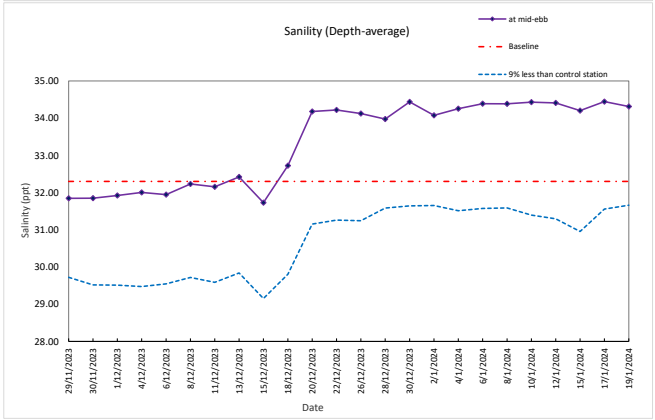

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

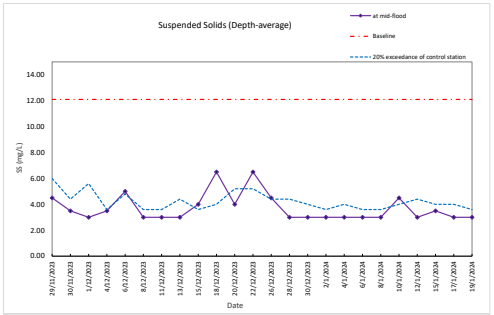

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

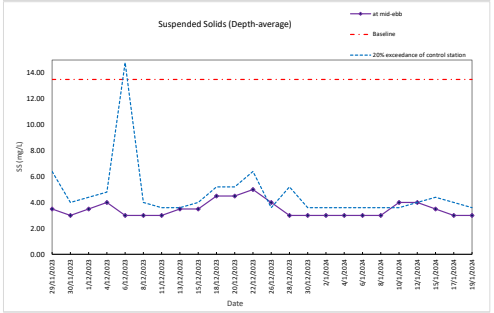

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

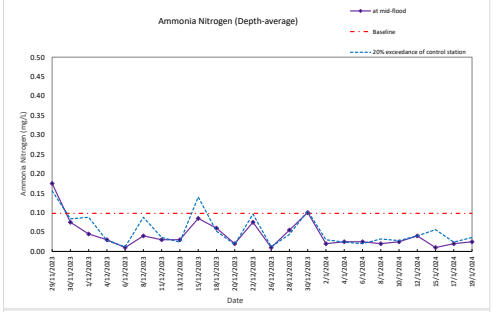

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

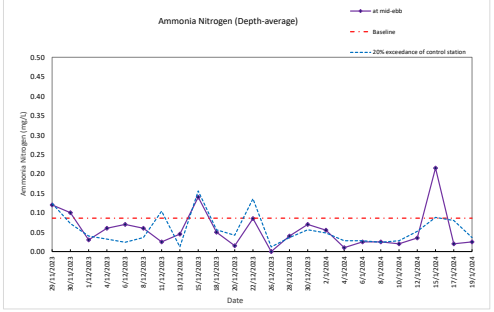

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

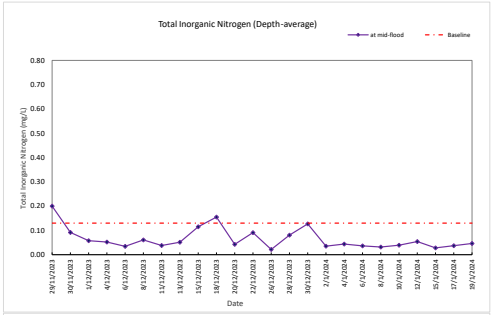

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

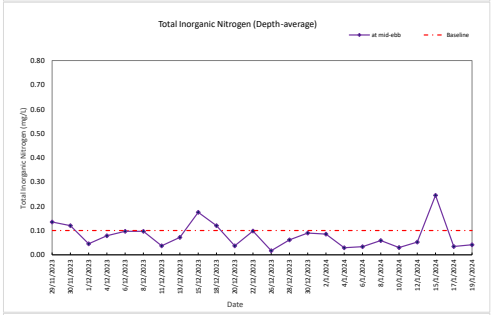

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

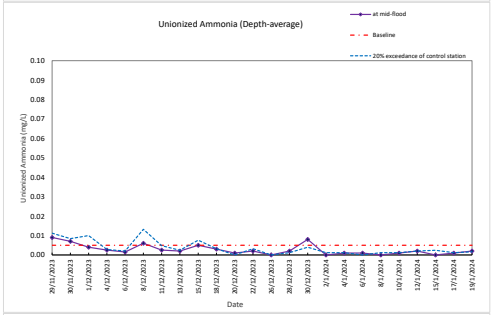

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

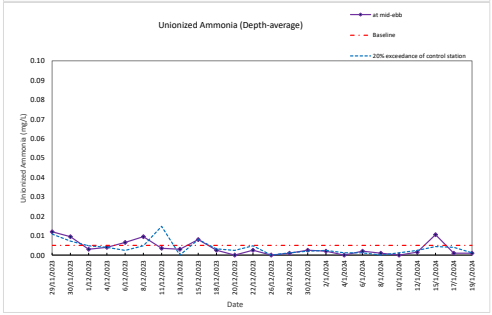

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

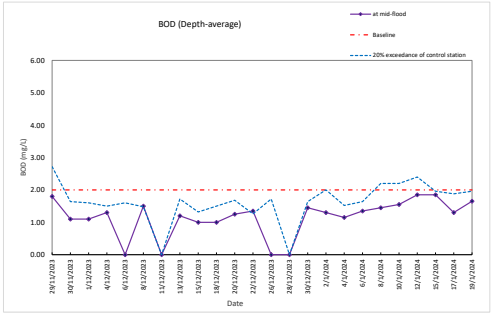

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

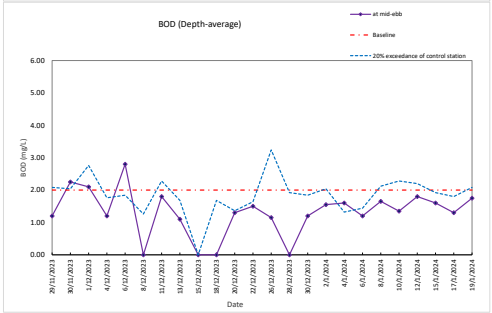

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

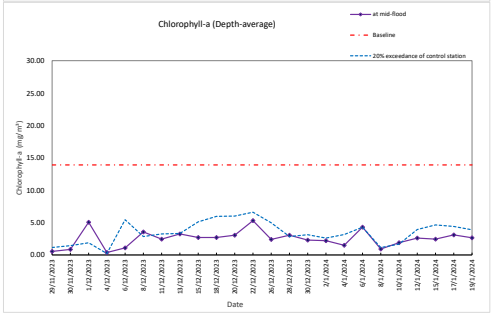

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

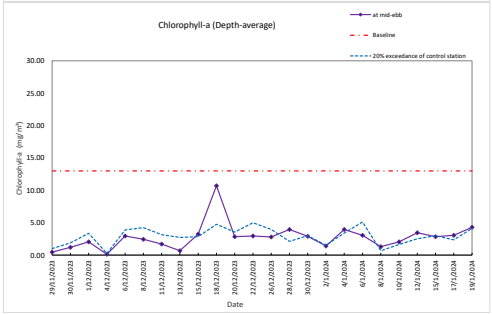

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

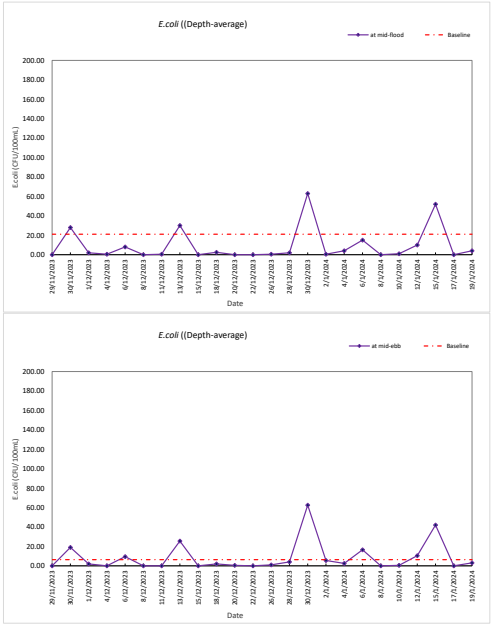

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date


BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

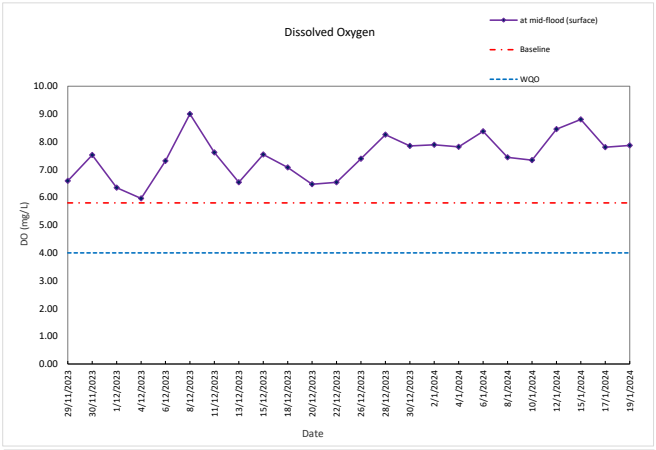

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

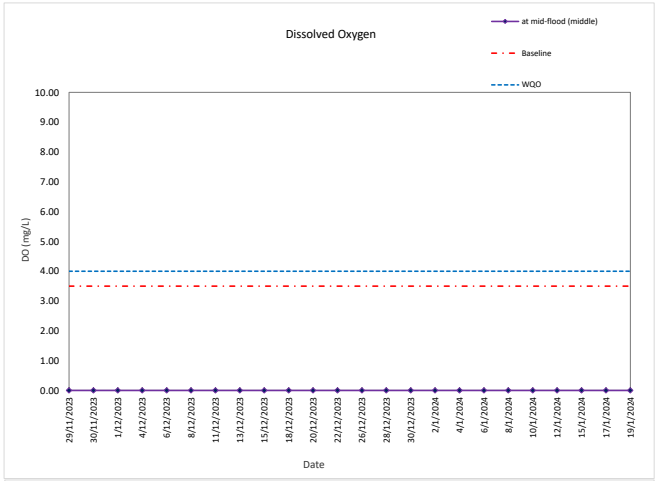

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

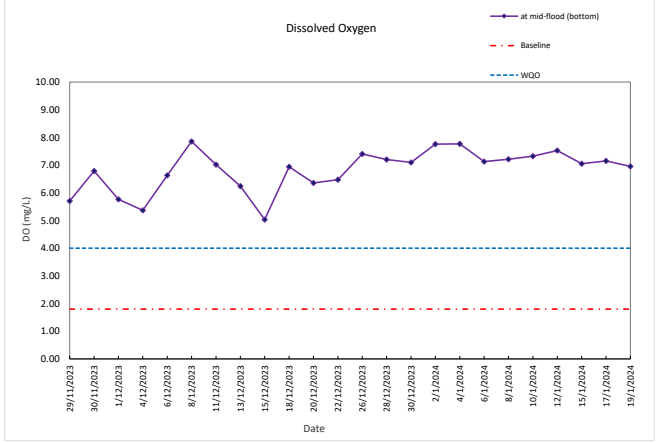

E.coli ((Depth-average)
at mid-flood
Baseline
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

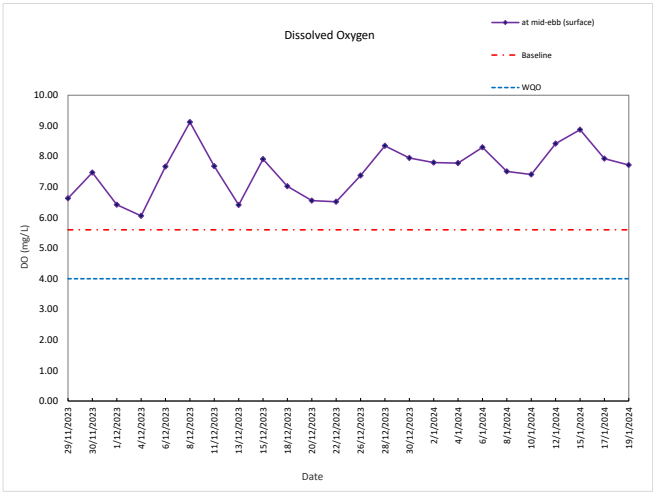
E.coli ((Depth-average)
at mid-ebb
Baseline
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

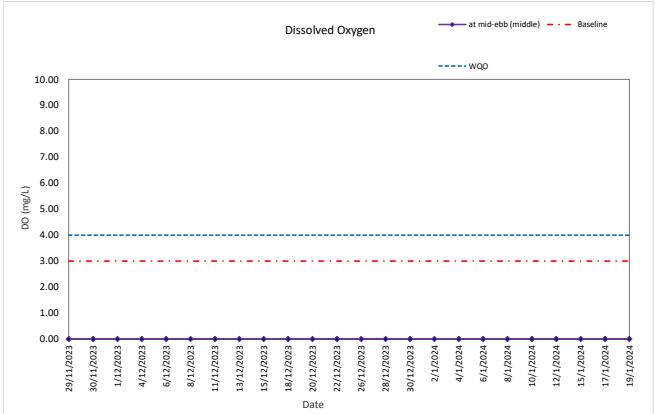
Graphic Presentation of Water Quality Result of
F3 - Yung Shue Au Fish Culture Zone / Important Nursery Area for Commercial Fisheries Resources at Three Fathoms Cove

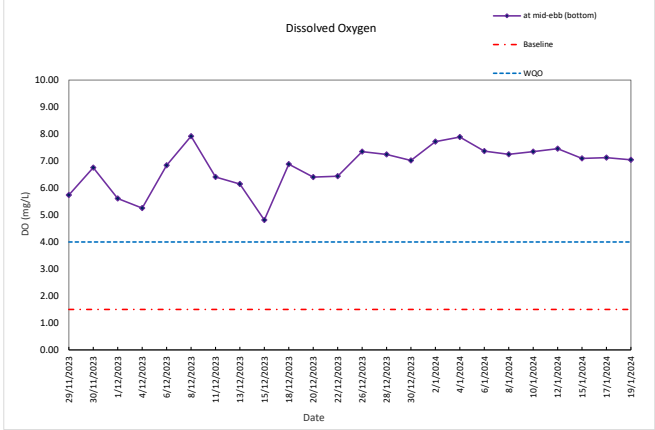


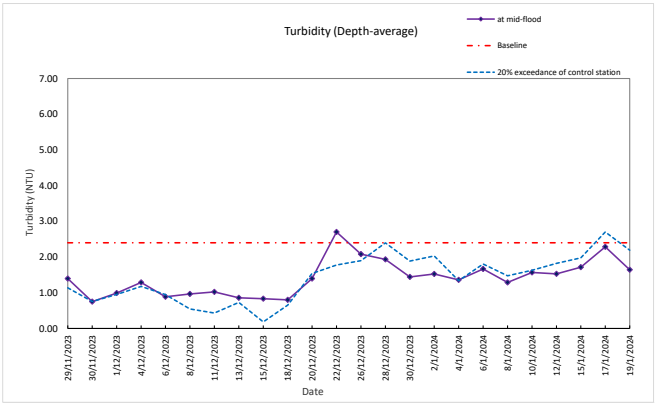


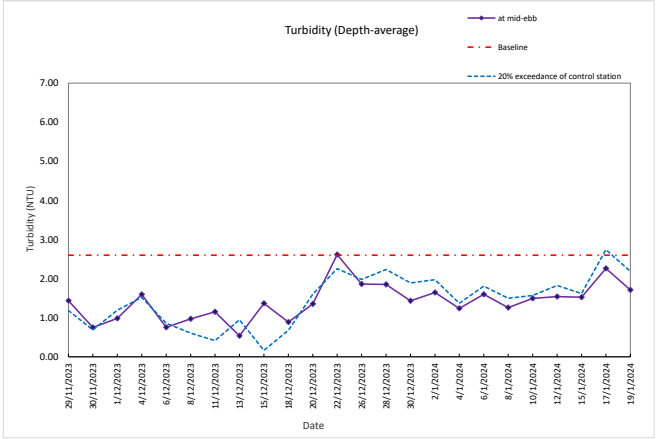


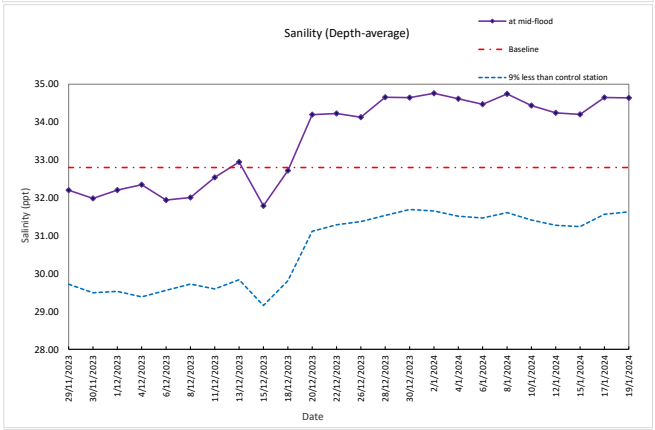

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

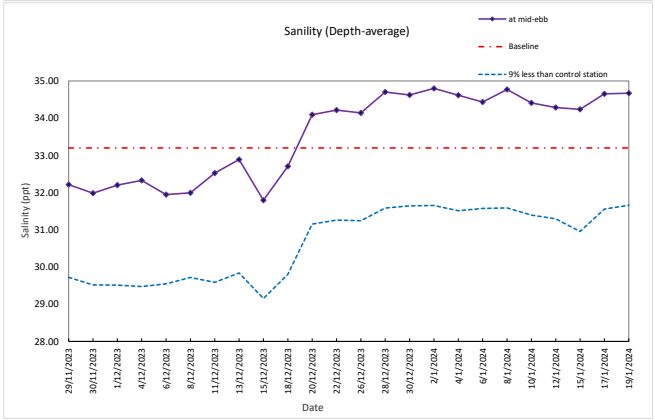

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

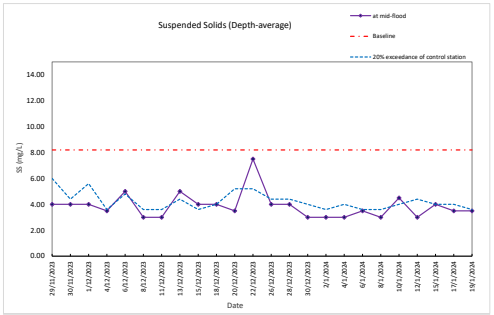

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

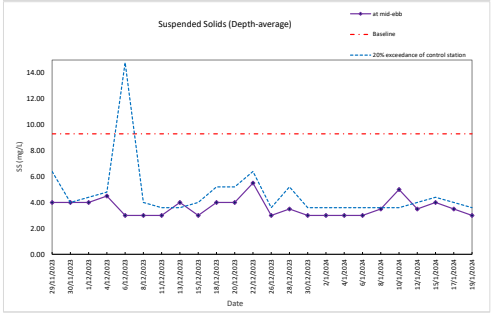

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

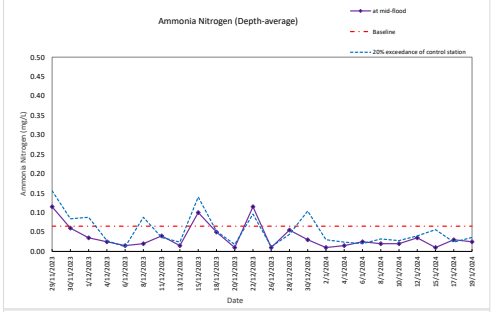

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

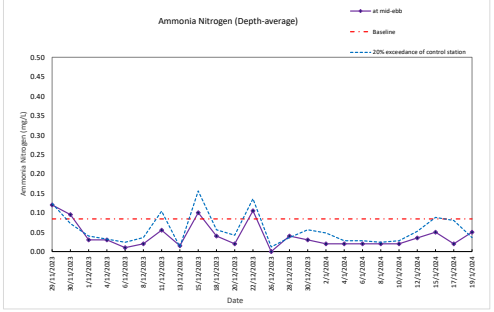

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

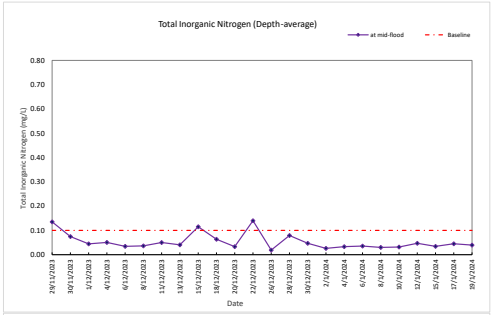

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

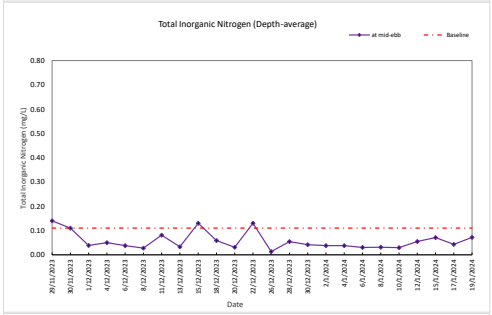

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

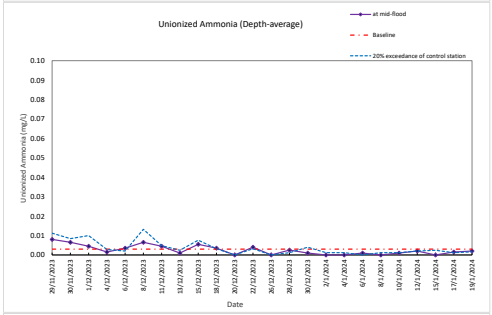

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

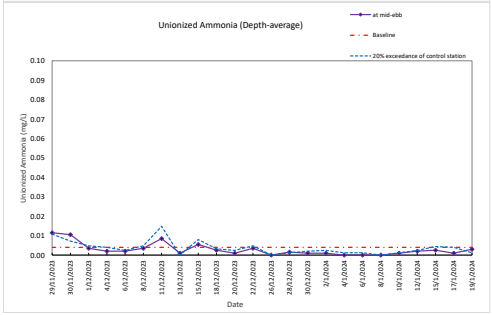

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

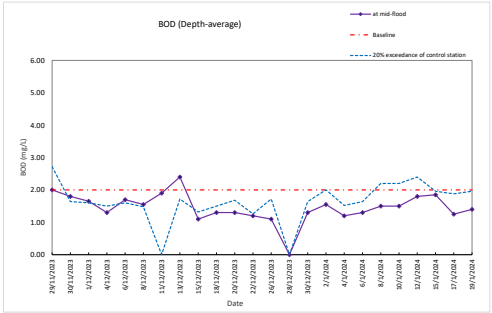

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

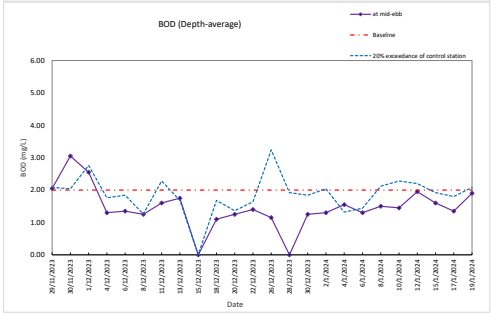

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

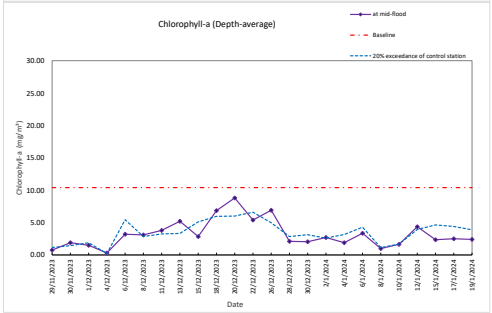

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

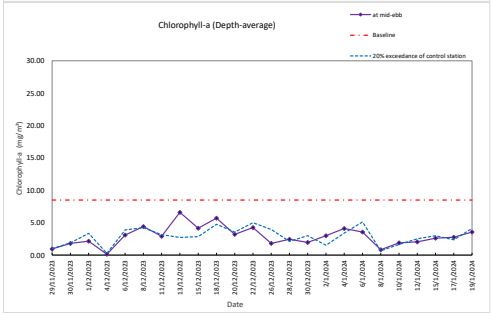

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

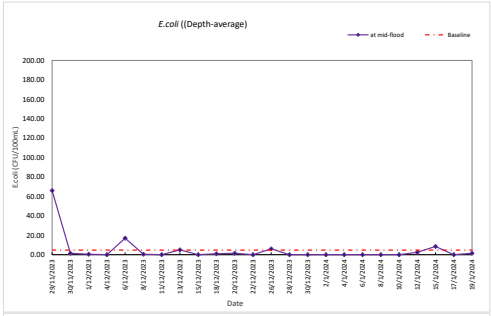

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

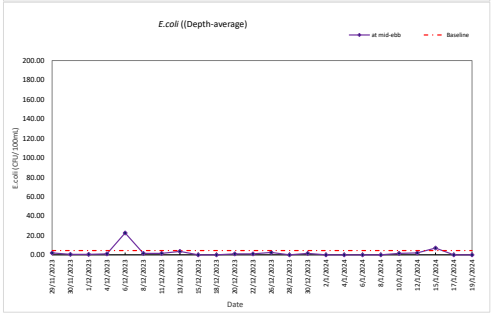

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

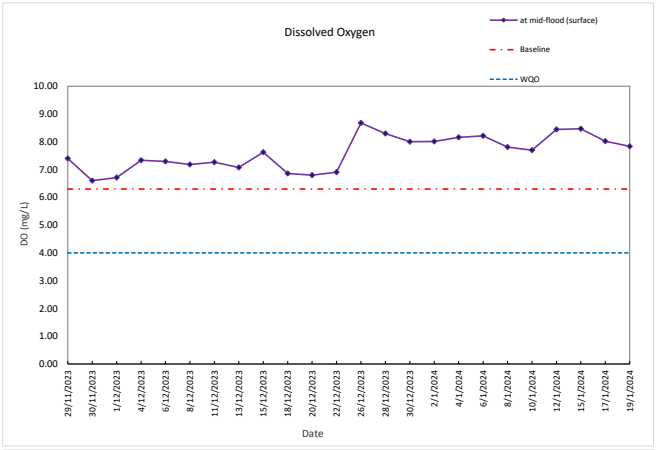

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

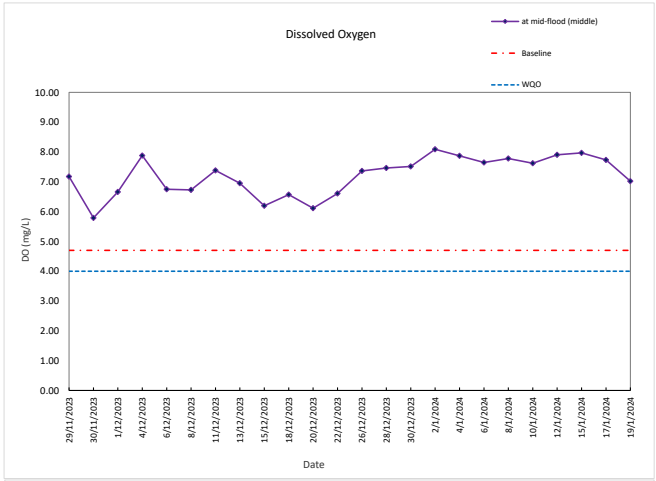

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

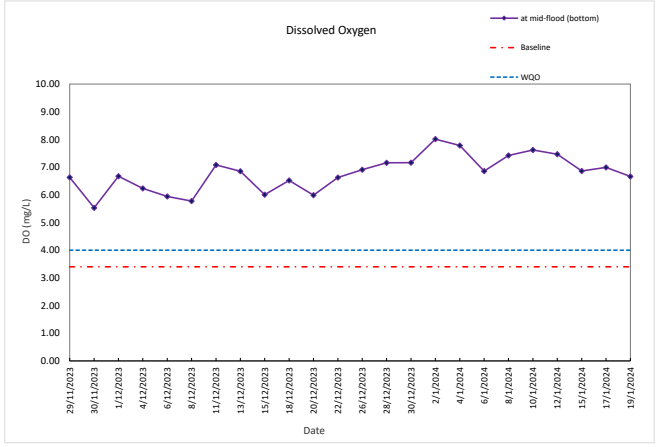

E.coli ((Depth-average)
at mid-flood
Baseline
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
E.coli (CFU/100ml)
29/11/2023
3/12/2023
7/12/2023
11/12/2023
15/12/2023
19/12/2023
23/12/2023
27/12/2023
31/12/2023
4/1/2024
8/1/2024
12/1/2024
16/1/2024
20/1/2024
24/1/2024
28/1/2024
1/2/2024
5/2/2024
9/2/2024
13/2/2024
17/2/2024
21/2/2024
25/2/2024
29/2/2024
Date

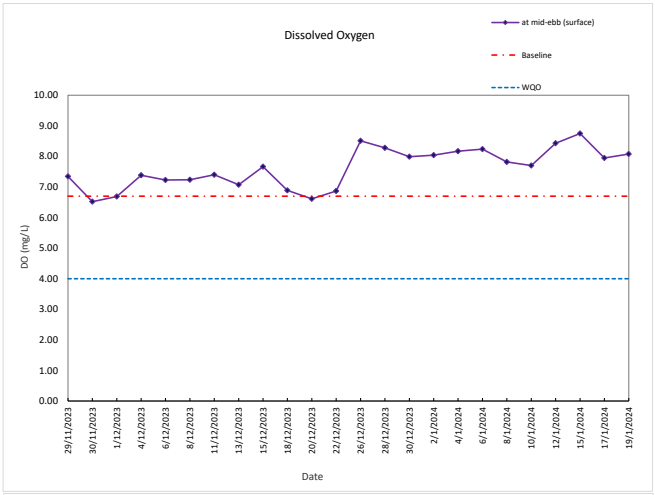

E.coli ((Depth-average)
at mid-ebb
Baseline
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
E.coli (CFU/100ml)
29/11/2023
3/12/2023
7/12/2023
11/12/2023
15/12/2023
19/12/2023
23/12/2023
27/12/2023
31/12/2023
4/1/2024
8/1/2024
12/1/2024
16/1/2024
20/1/2024
24/1/2024
28/1/2024
1/2/2024
5/2/2024
9/2/2024
13/2/2024
17/2/2024
21/2/2024
25/2/2024
29/2/2024
Date

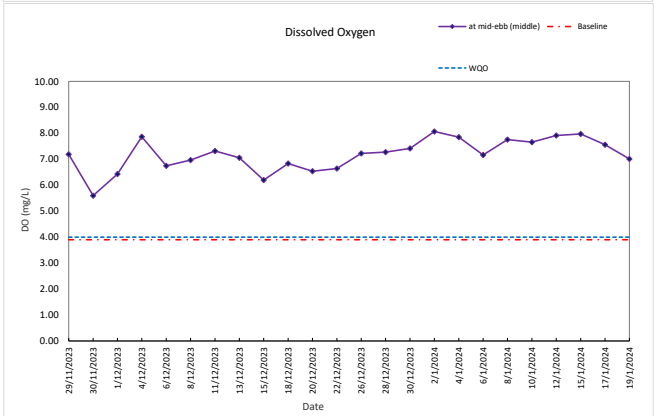
Graphic Presentation of Water Quality Result of
F4 - Lo Fu Wat Fish Culture Zone

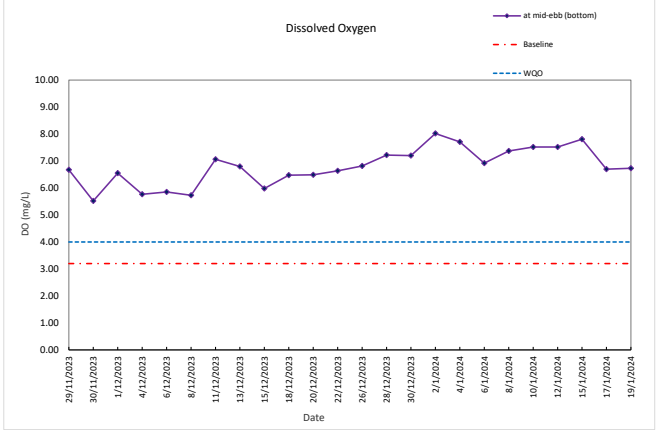


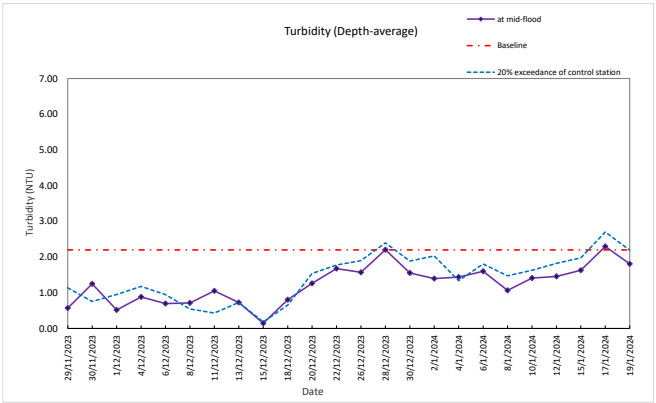


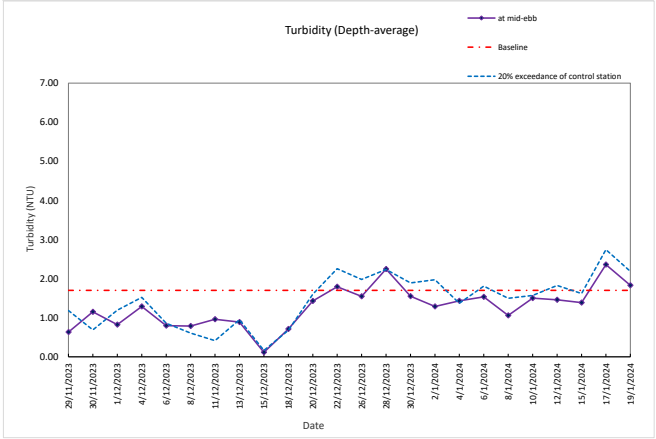


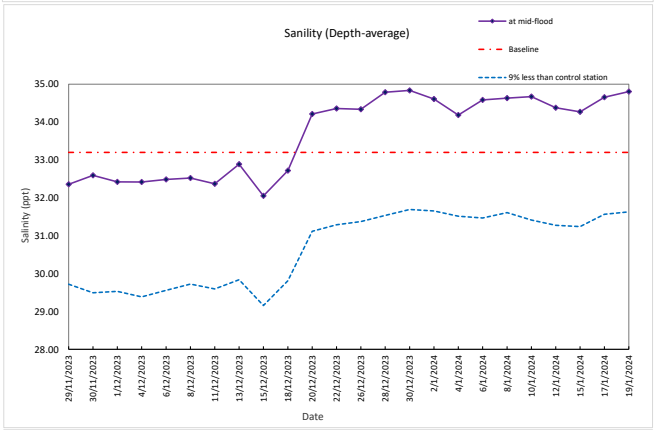

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

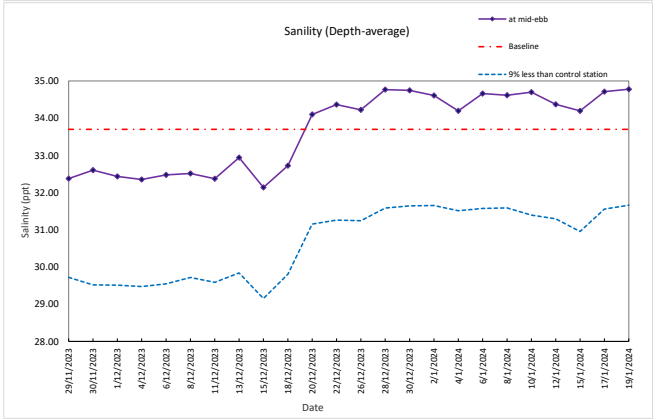

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

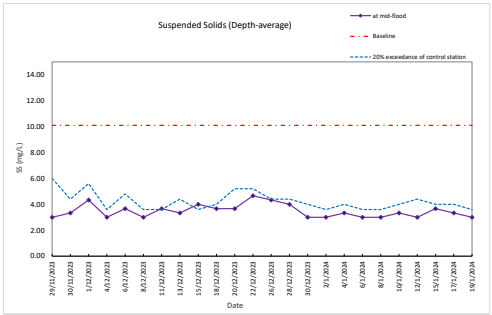

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

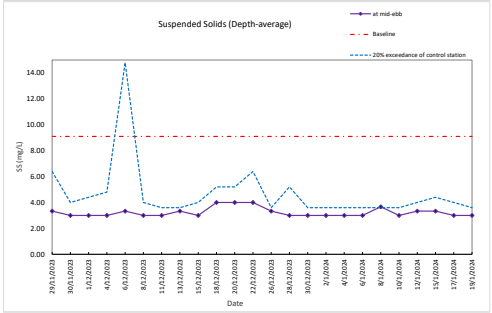

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

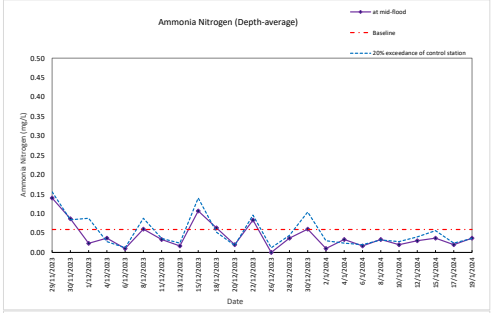

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

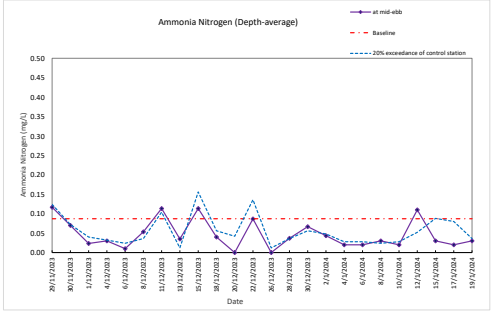

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

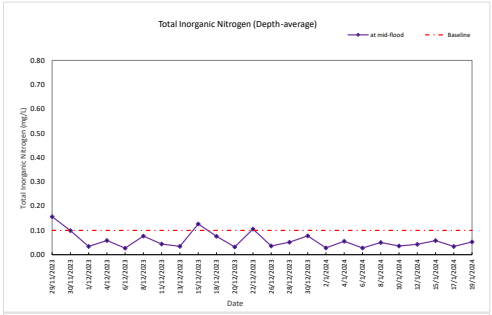

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

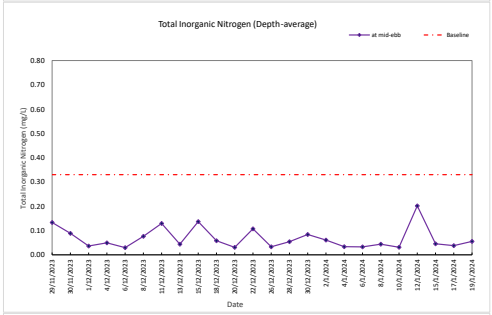

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

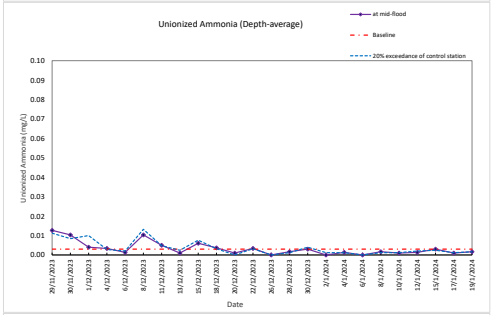

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

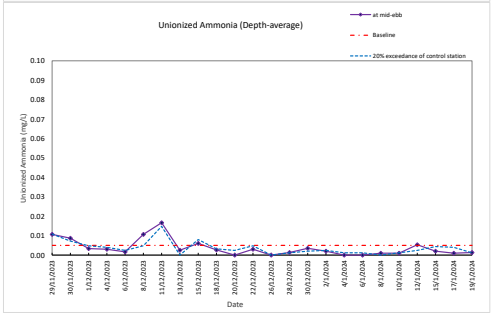

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

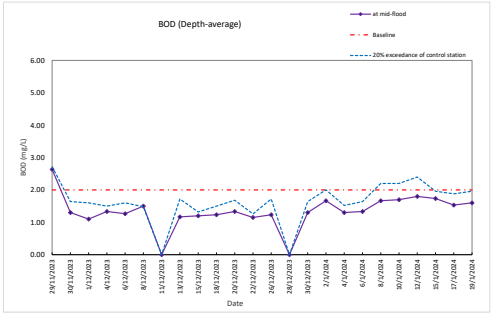

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

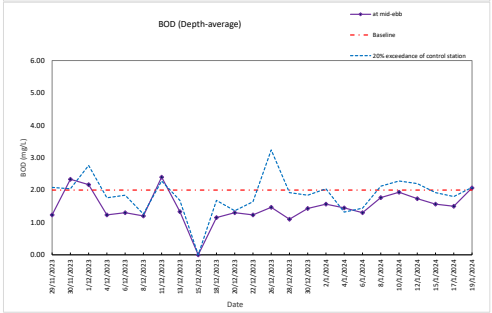

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

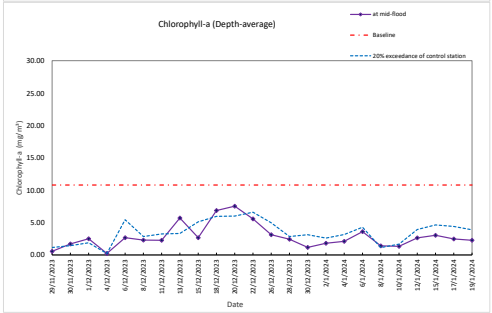

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

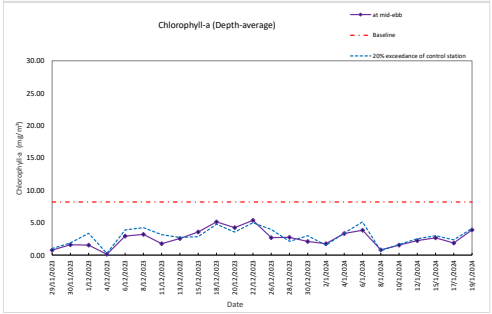

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

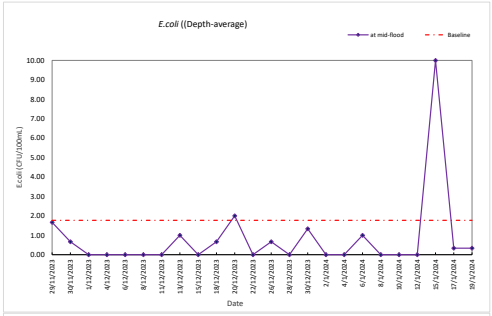

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

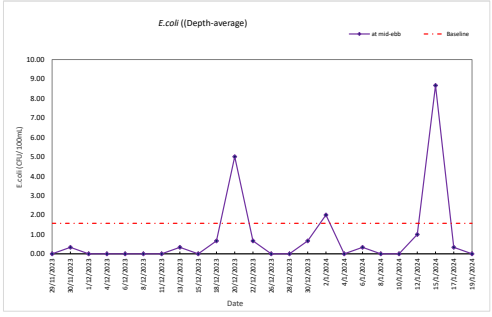

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

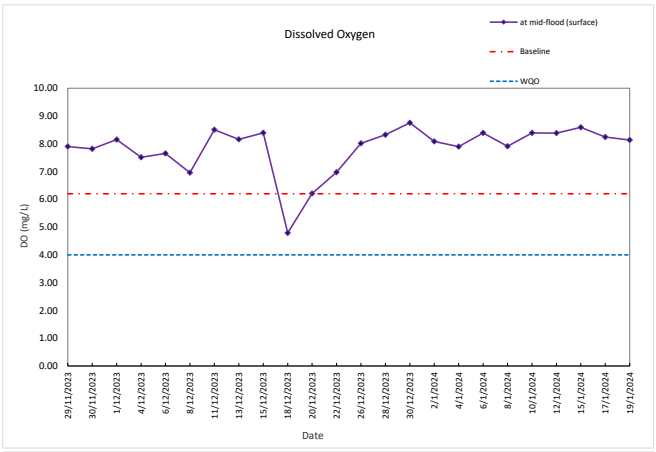

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

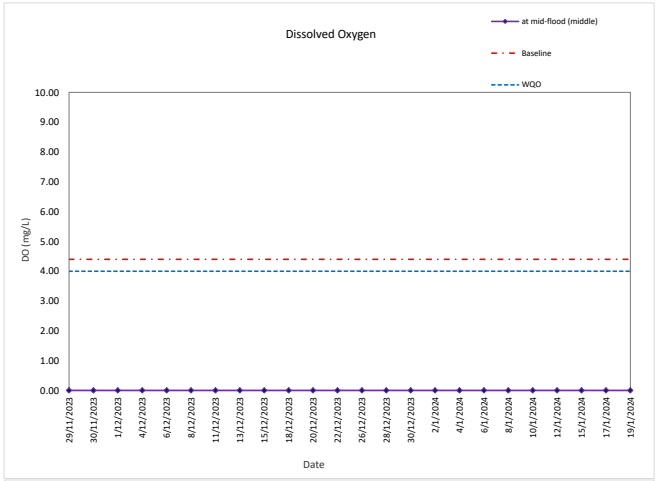

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

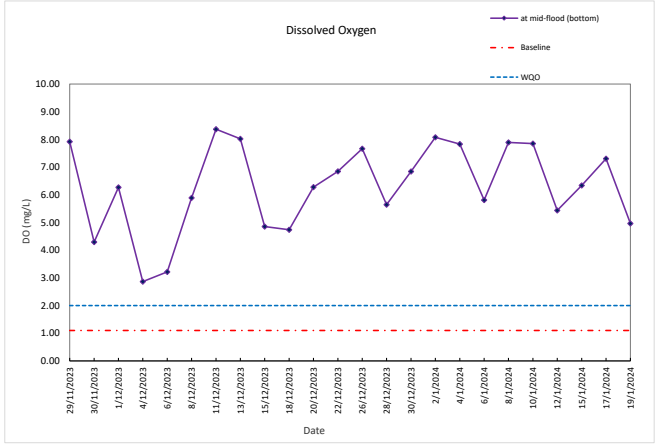

E.coli ((Depth-average)
at mid-flood
Baseline
E.coli (CFU/100mL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
3/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
30/1/2024
1/2/2024
15/2/2024
17/2/2024
19/2/2024
Date

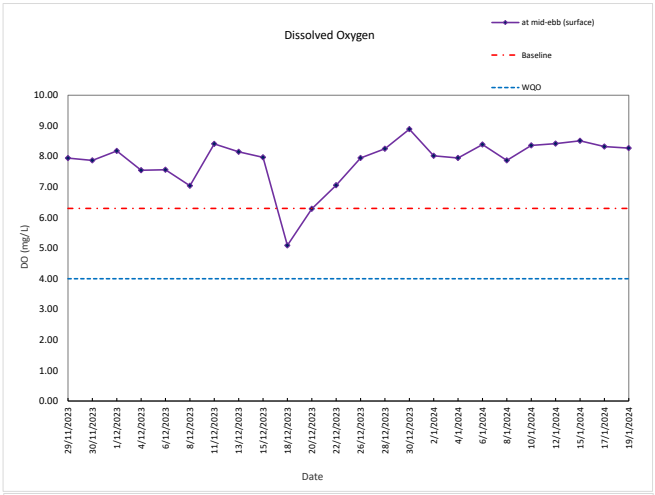

E.coli ((Depth-average)
at mid-ebb
Baseline
E.coli (CFU/100mL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
3/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

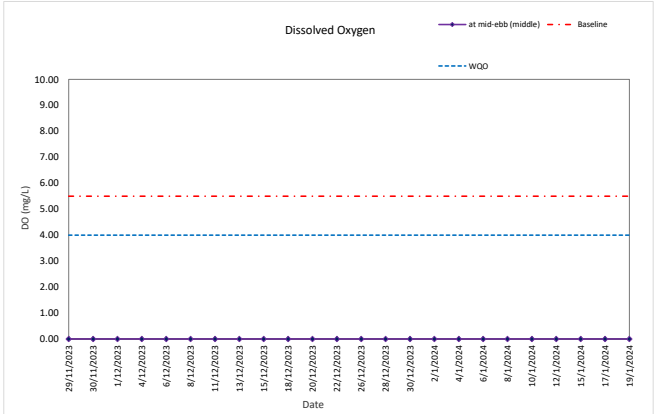
Graphic Presentation of Water Quality Result of
CR1 - Corals at Tai Po Industrial Estate

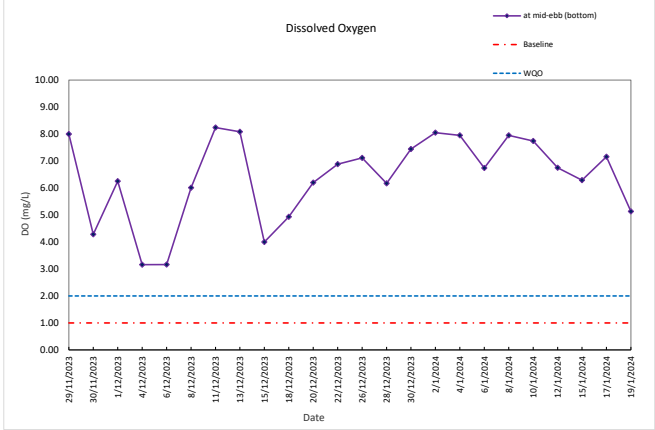


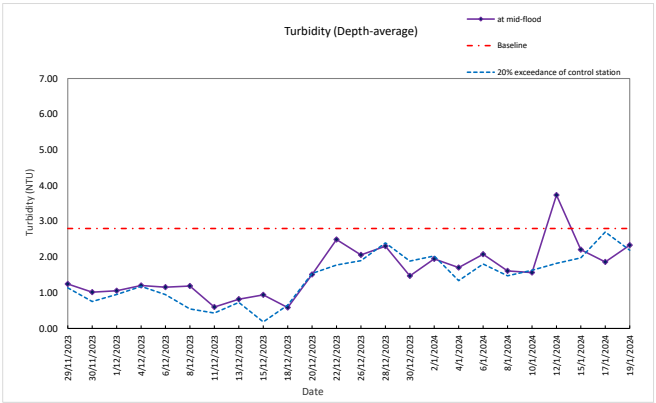


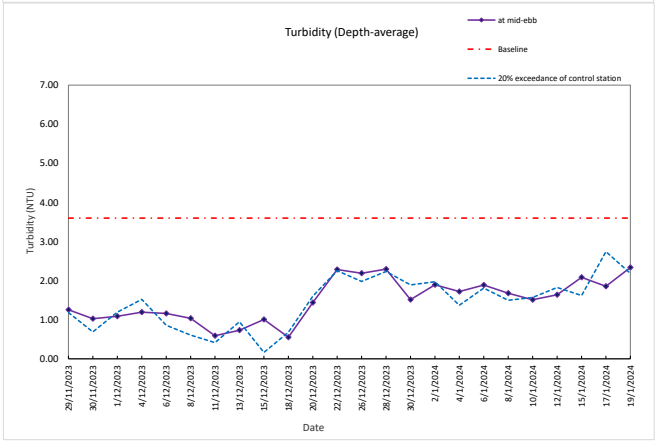


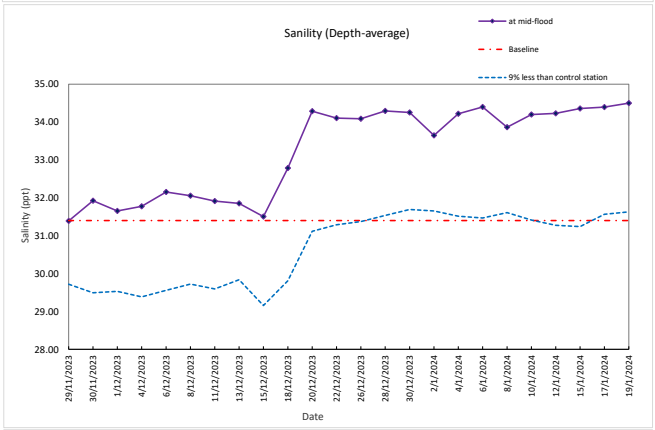

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

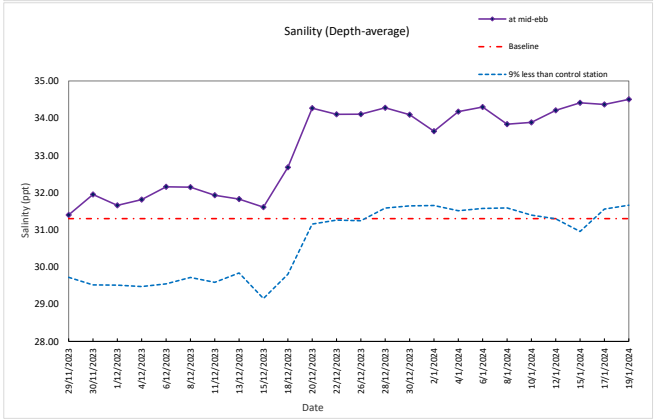

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

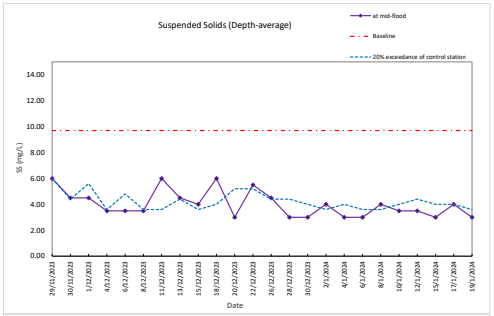

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

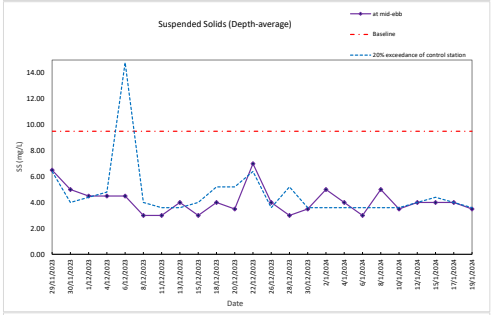

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

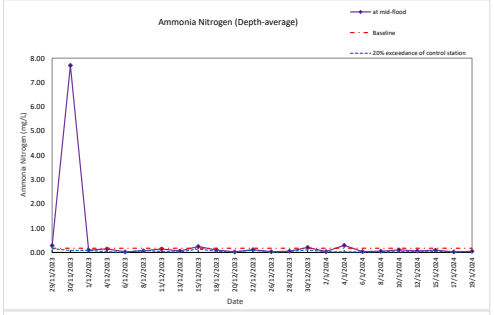

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

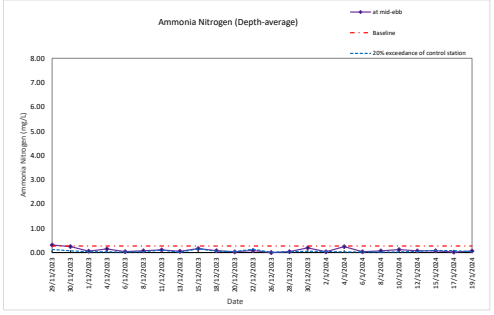

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

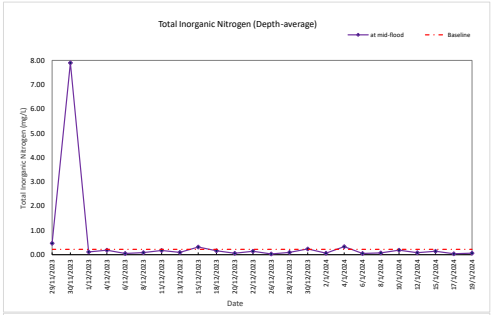

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

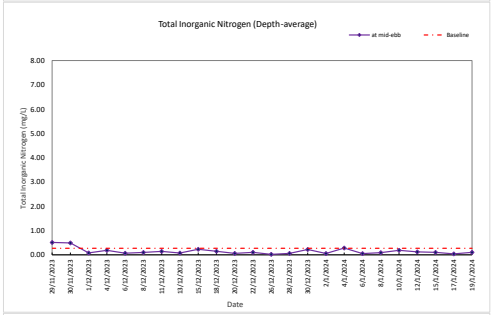

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

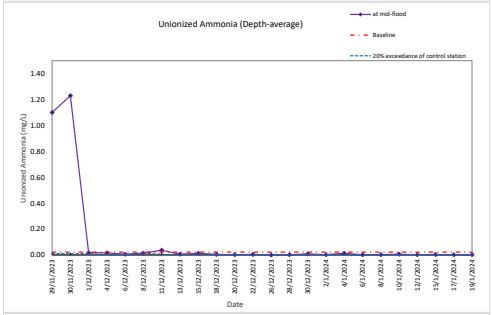

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

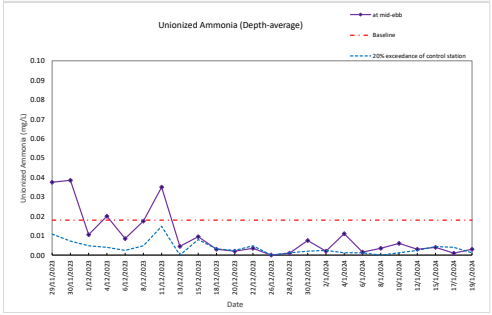

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

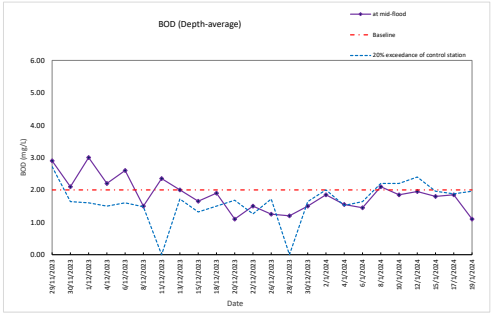

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

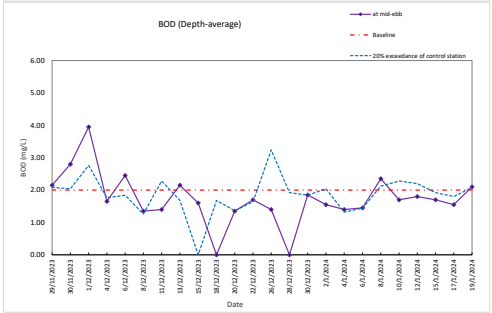

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

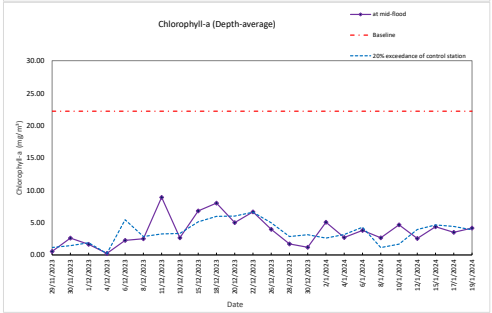

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

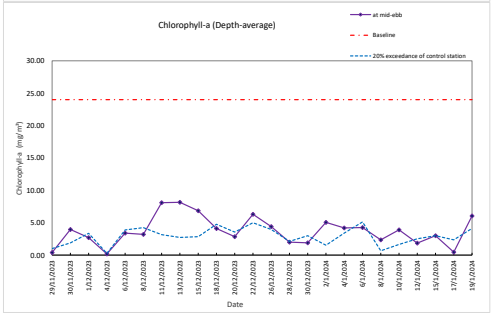

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

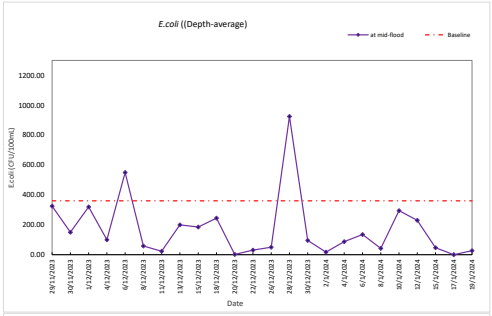

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

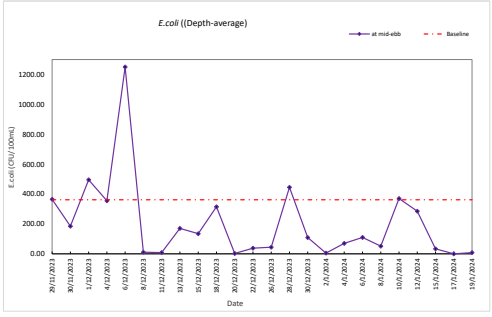

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

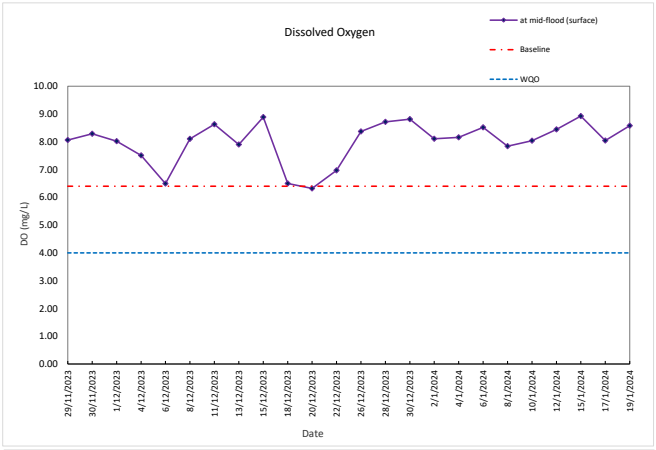

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

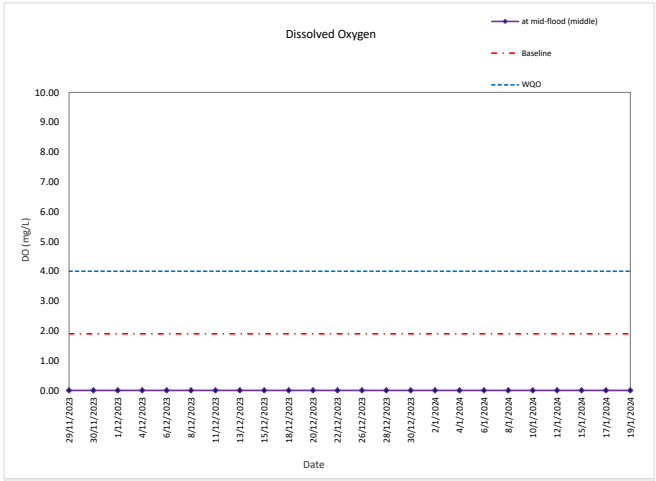

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

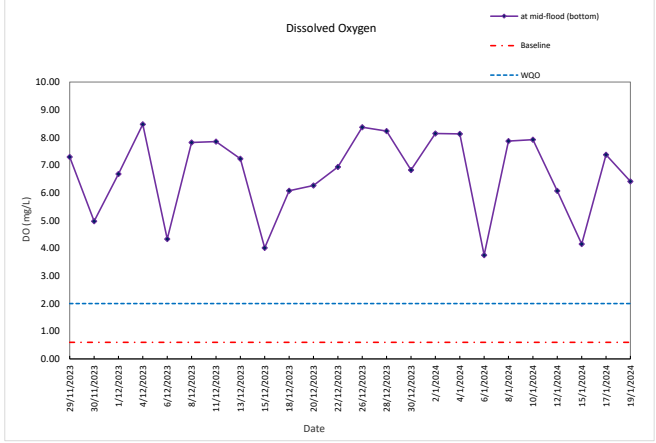

E.coli ((Depth-average)
at mid-flood
Baseline
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

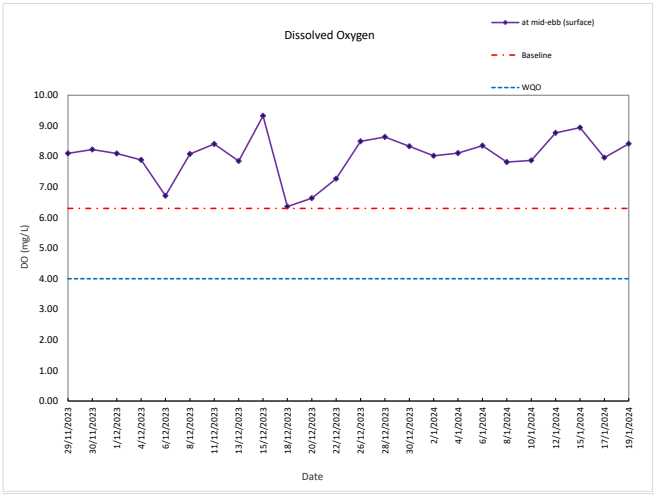

E.coli ((Depth-average)
at mid-ebb
Baseline
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

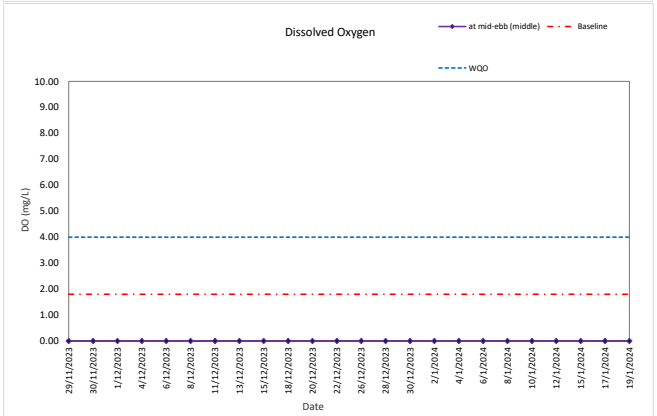
Graphic Presentation of Water Quality Result of
CR15 - Corals at Science Park

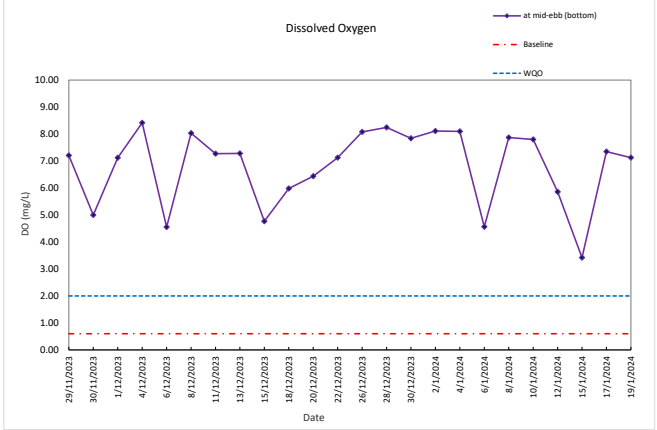


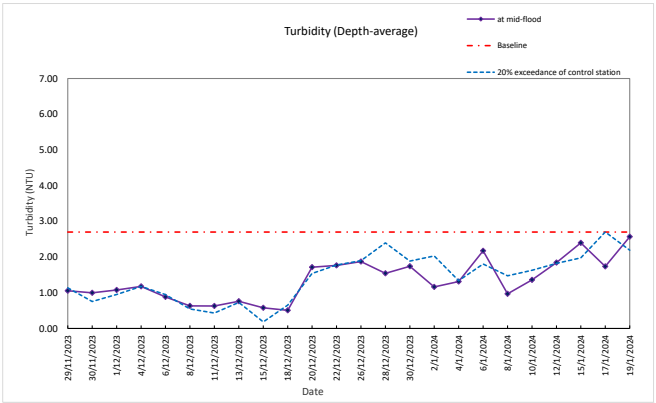


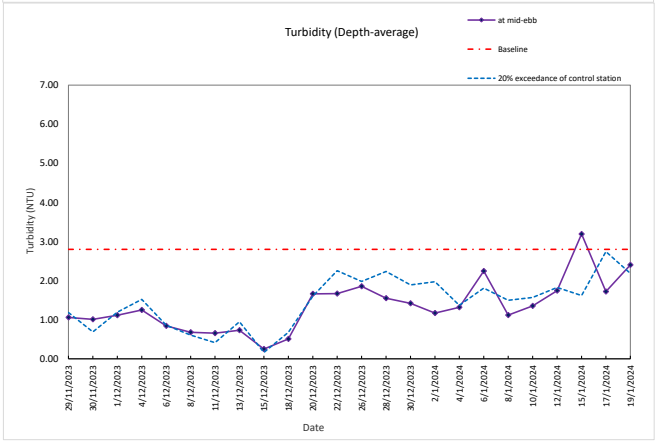


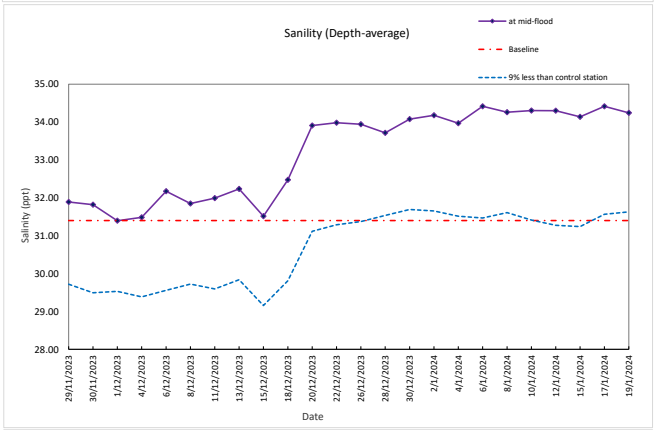

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

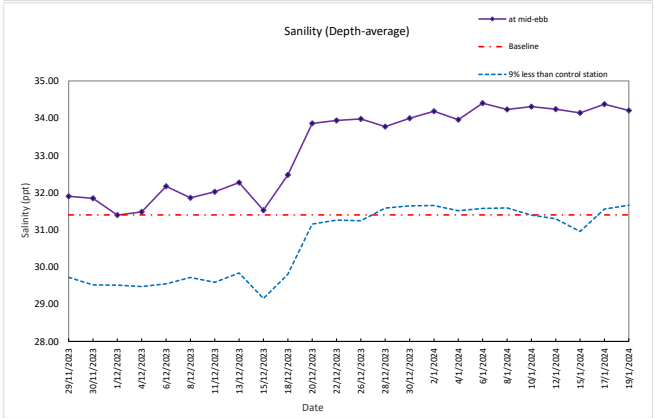

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

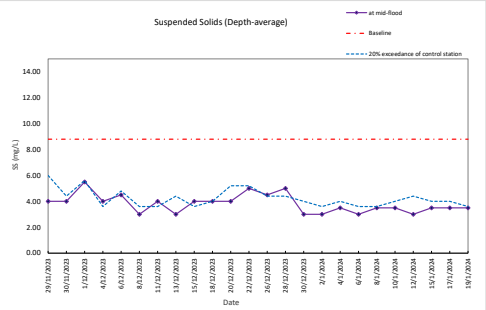

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

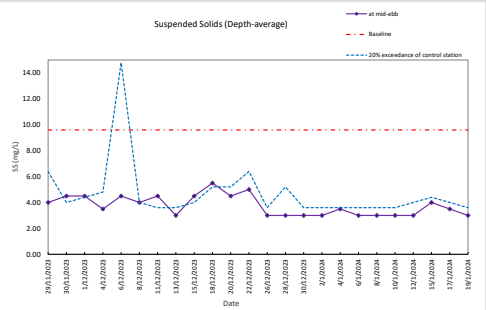

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

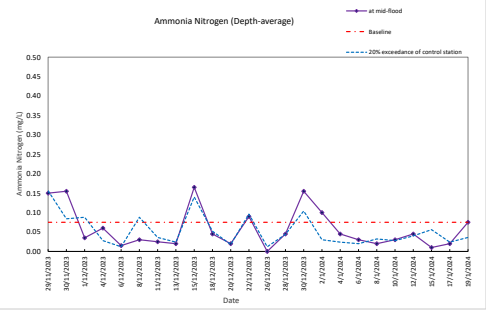

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

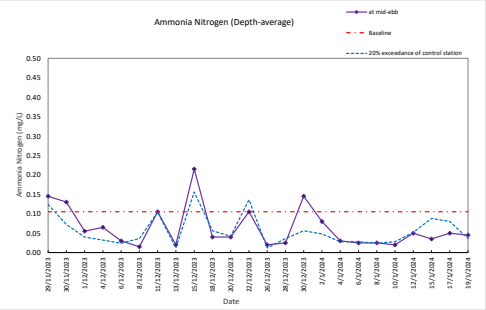

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

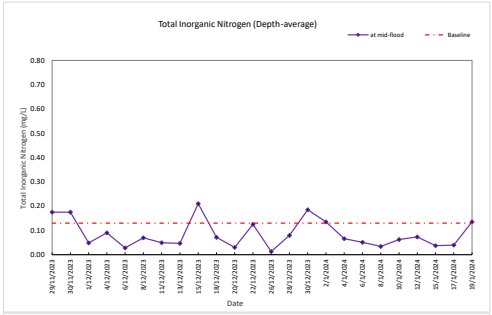

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

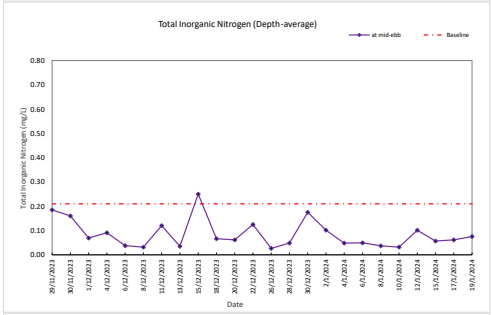

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

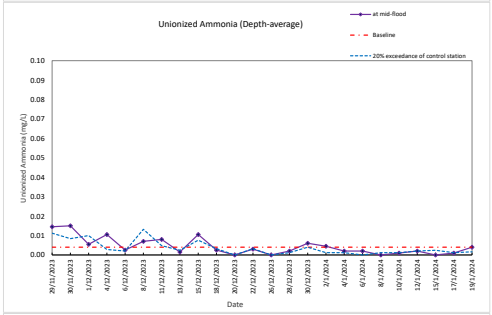

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

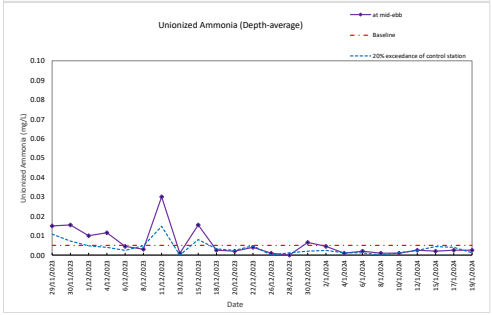

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

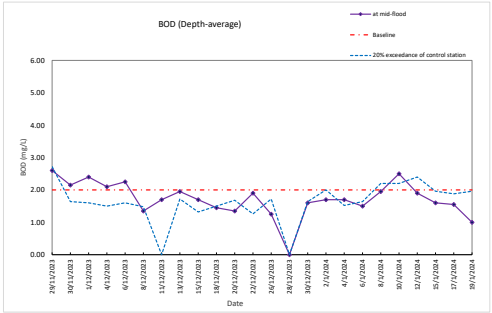

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

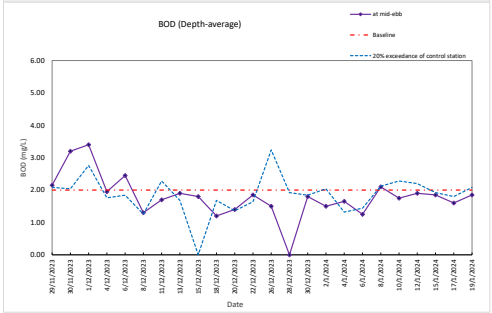

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

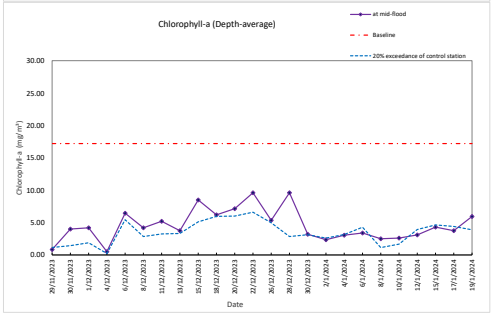

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

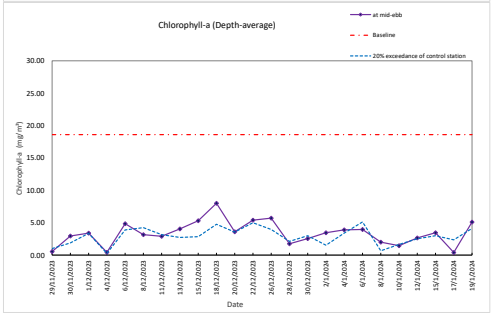

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

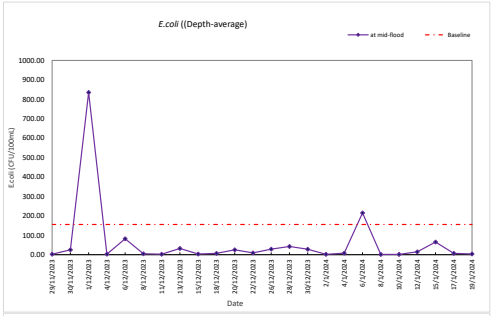

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

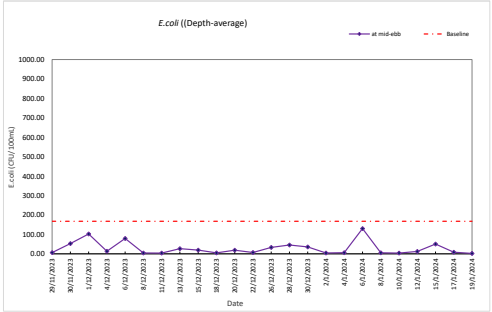

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

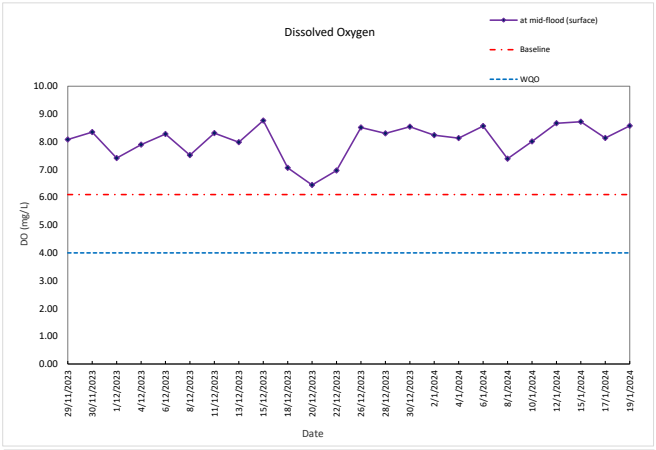

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

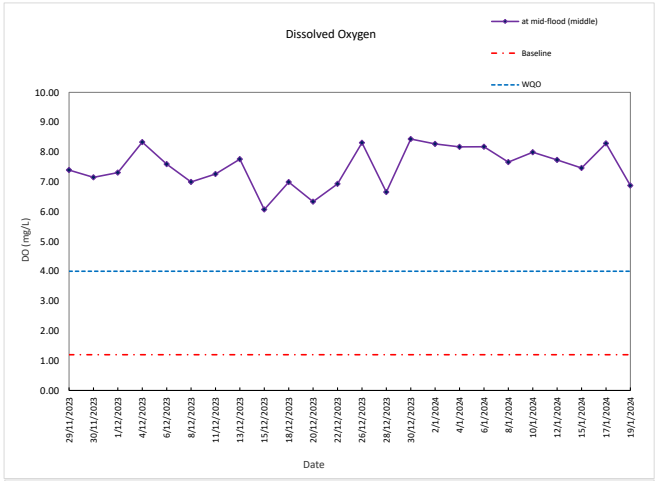

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

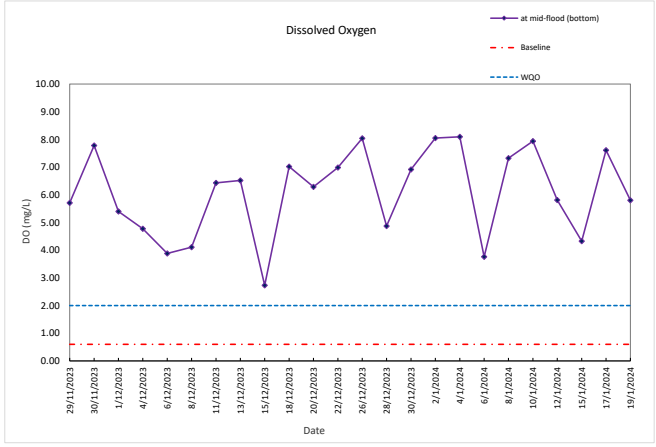

E.coli ((Depth-average)
at mid-flood
Baseline
1000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

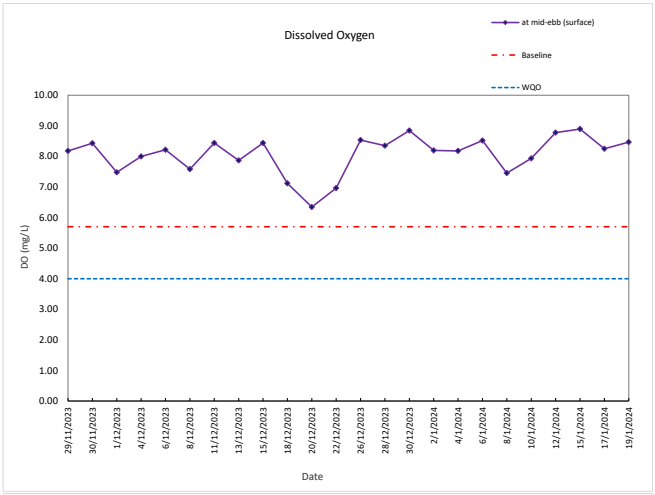

E.coli ((Depth-average)
at mid-ebb
Baseline
1000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

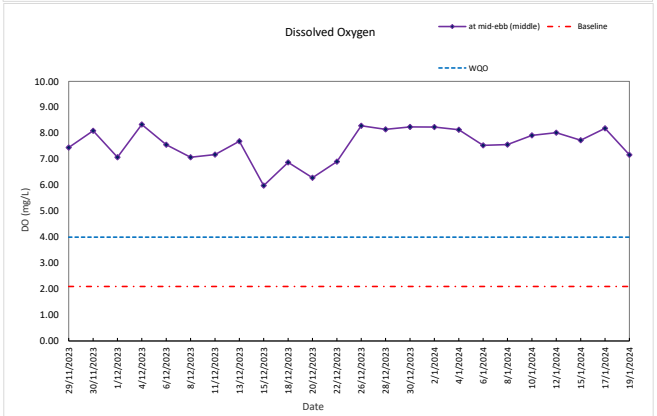
Graphic Presentation of Water Quality Result of
CR16 - Corals at Sha Tin Hoi North

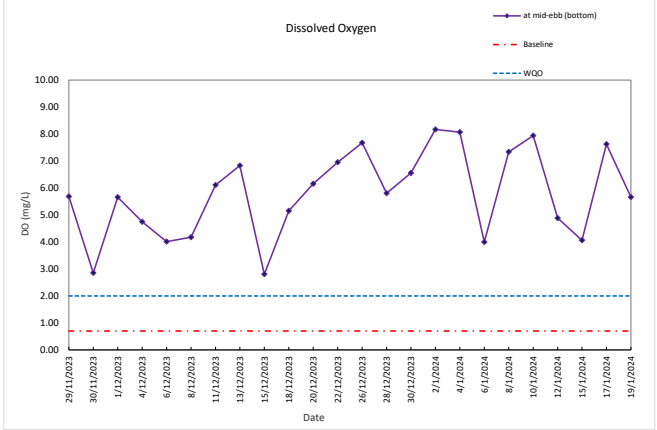


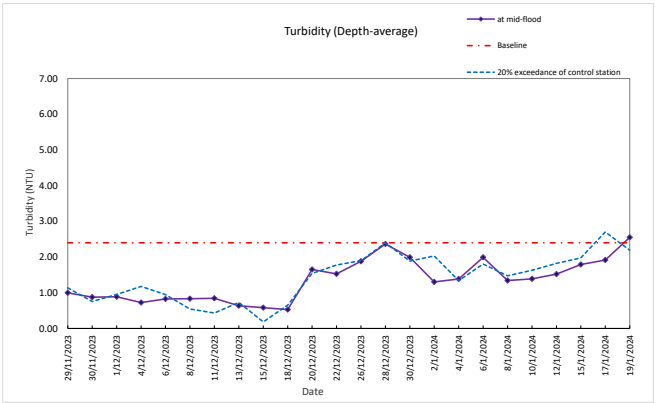


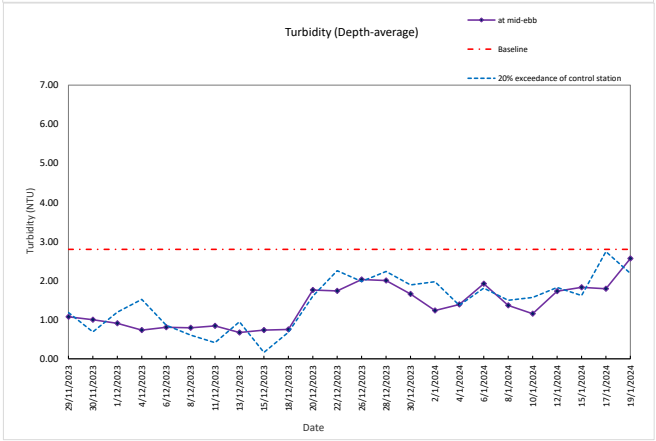


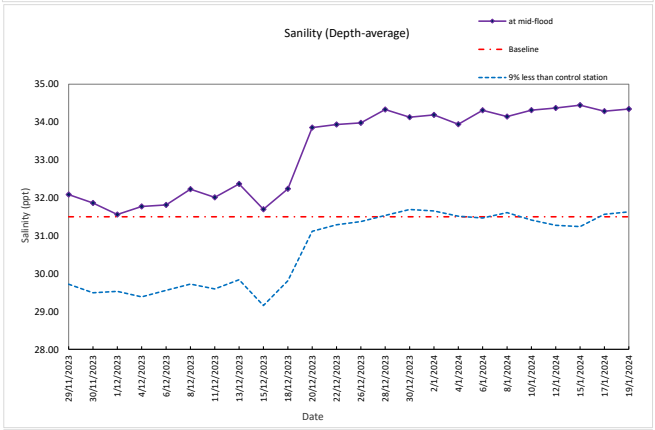

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

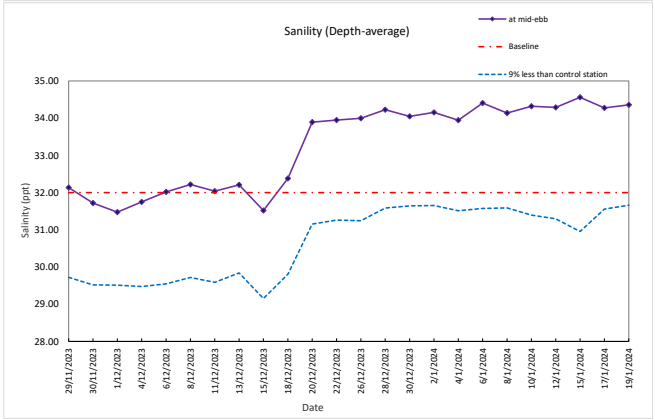

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

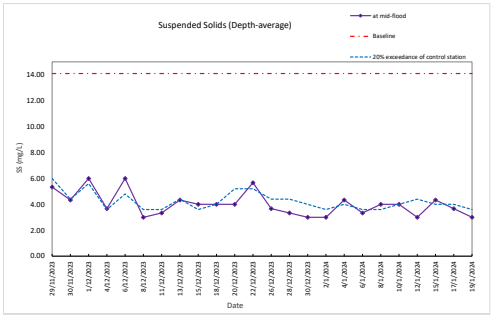

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

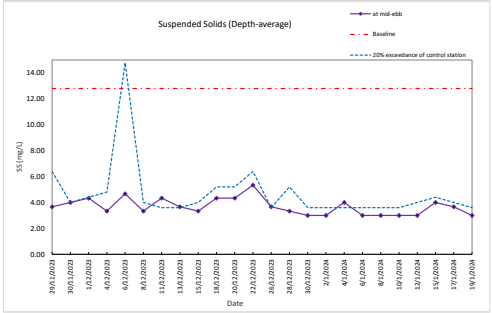

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

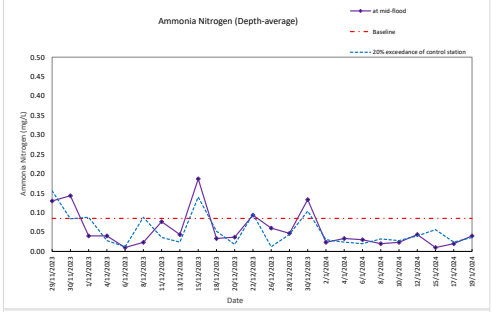

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

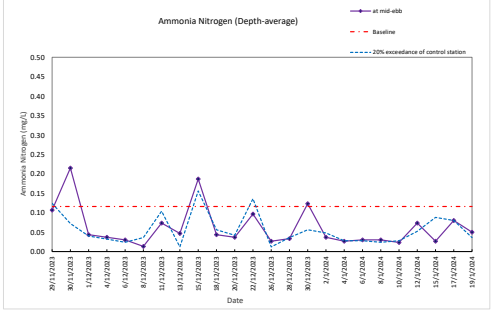

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

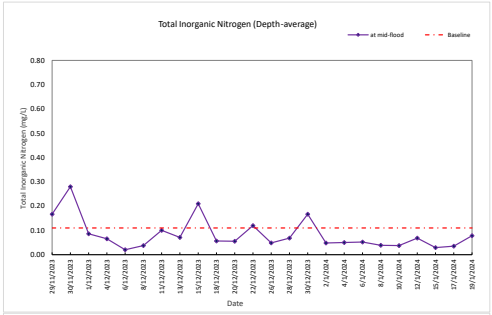

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

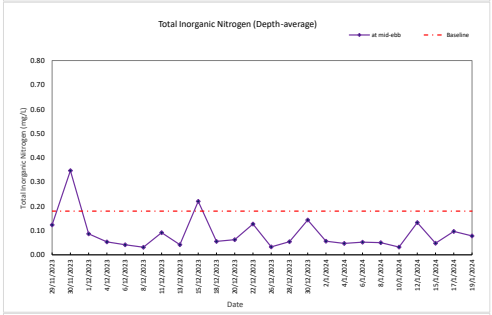

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

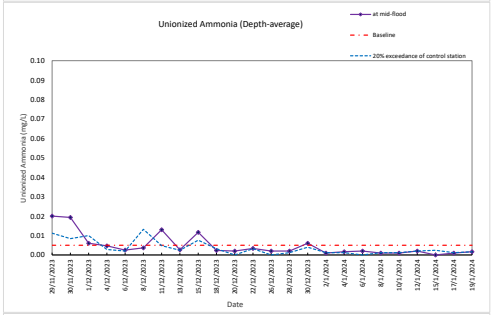

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

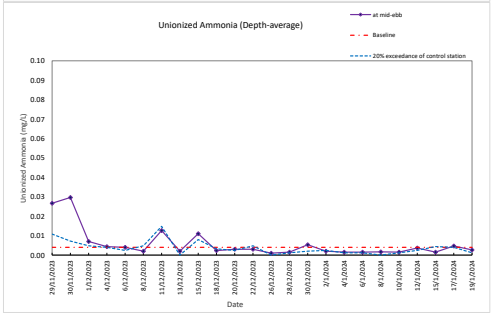

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

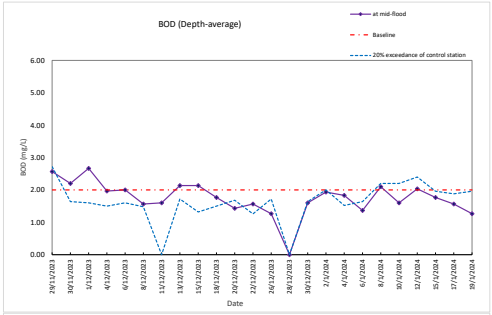

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

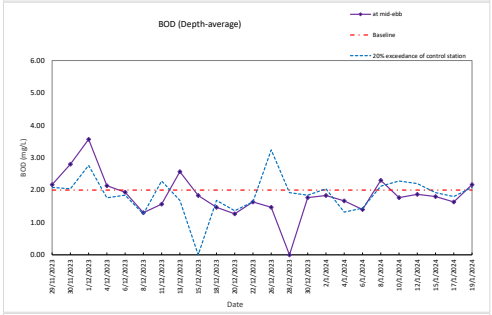

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

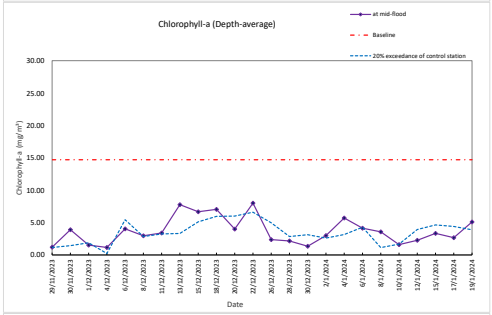

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

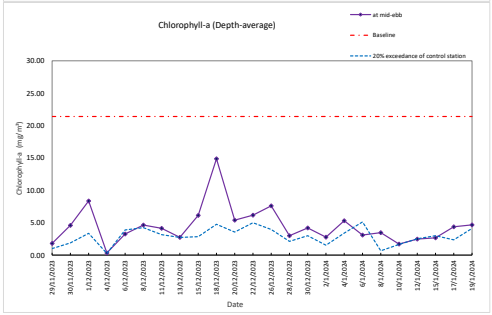

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

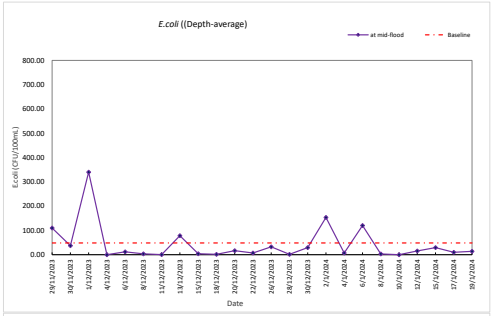

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

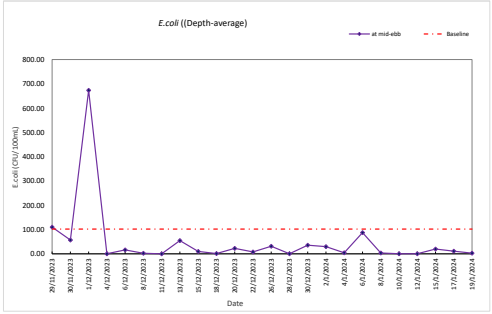

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

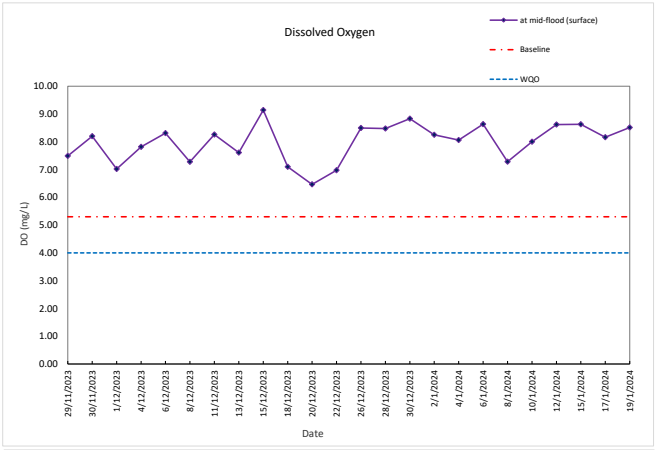

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

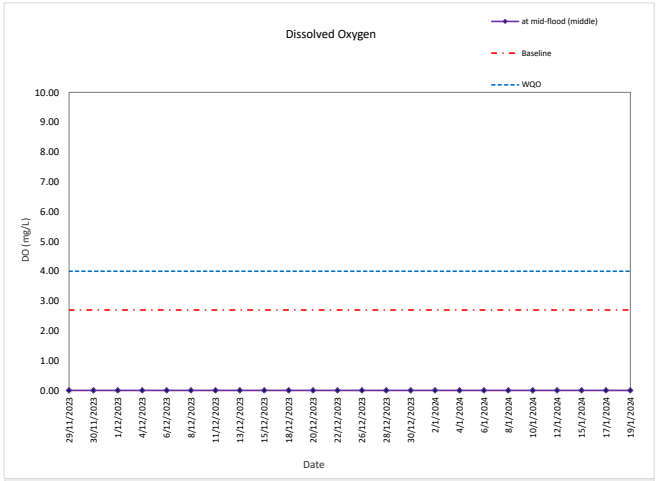

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

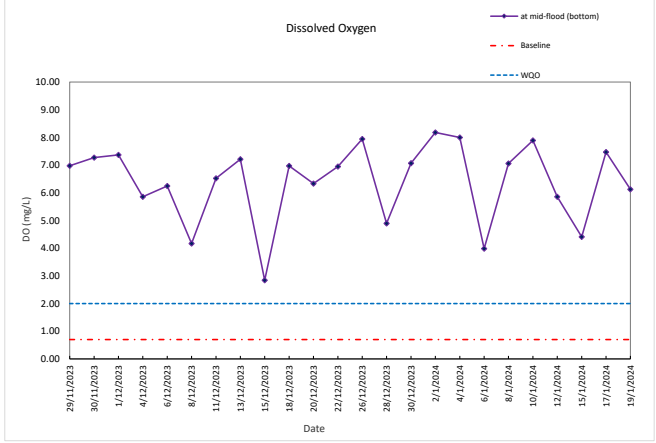

E.coli ((Depth-average)
at mid-flood
Baseline
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
30/1/2024
32/1/2024
35/1/2024
37/1/2024
39/1/2024
Date

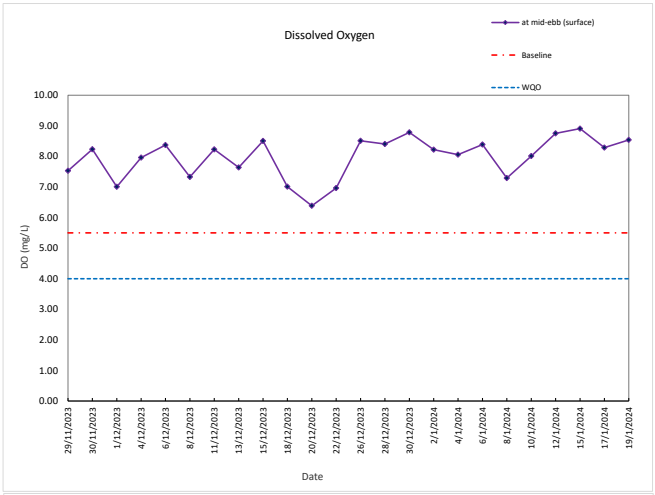

E.coli ((Depth-average)
at mid-ebb
Baseline
800.00
700.00
600.00
500.00
400.00
200.00
100.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

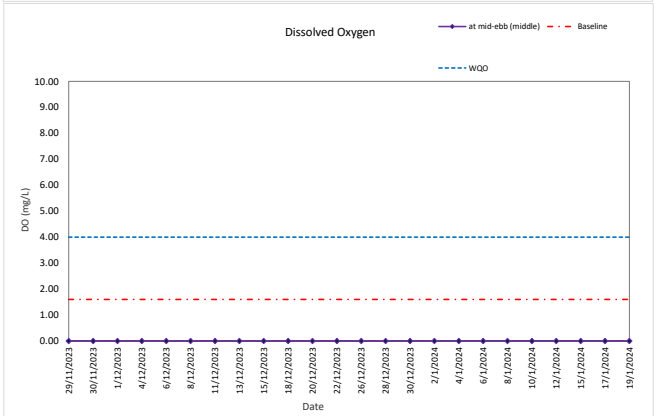
Graphic Presentation of Water Quality Result of
CR17 - Corals at Sha Tin Hoi South

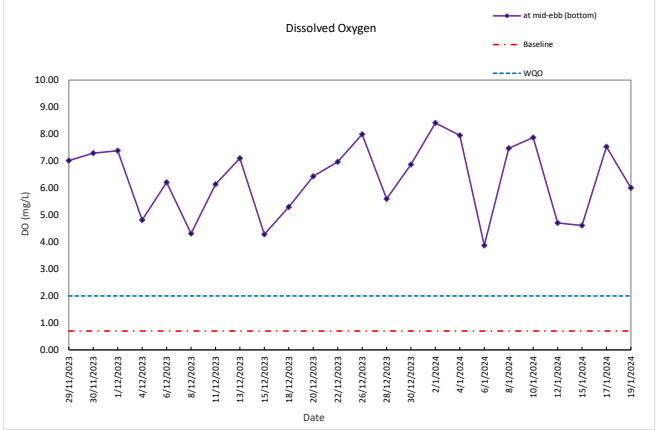


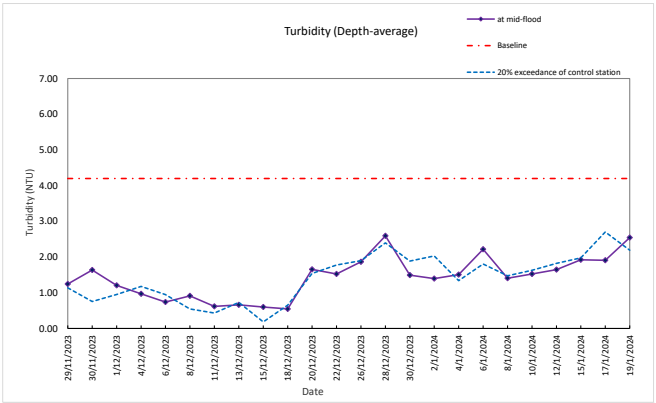


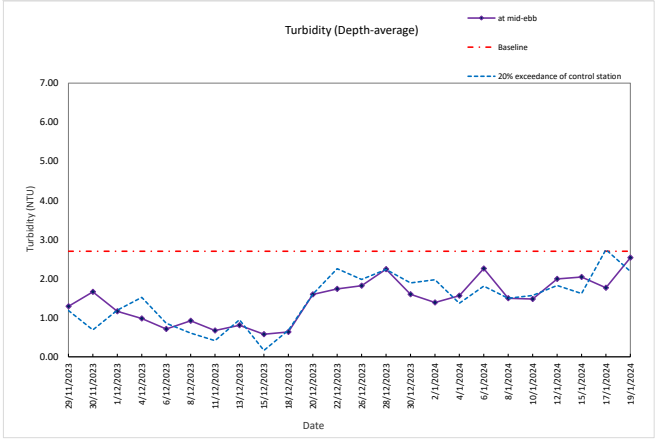


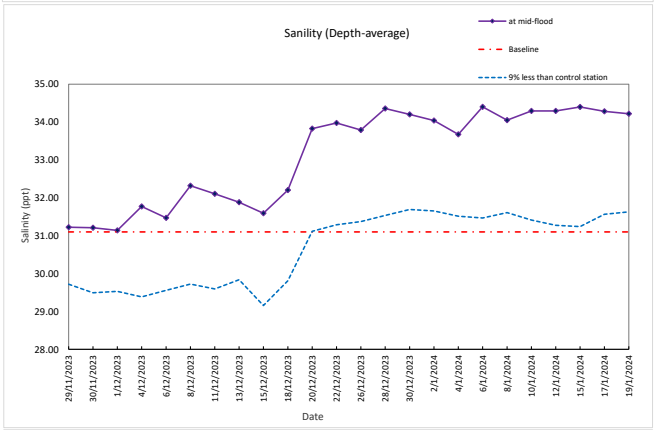

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

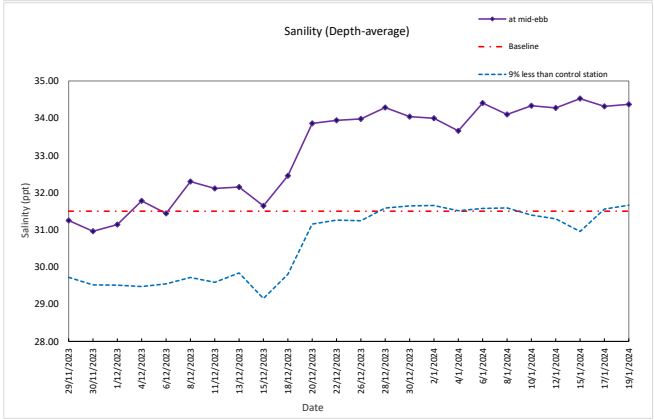

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

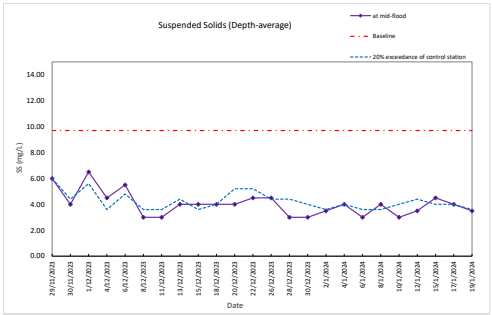

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

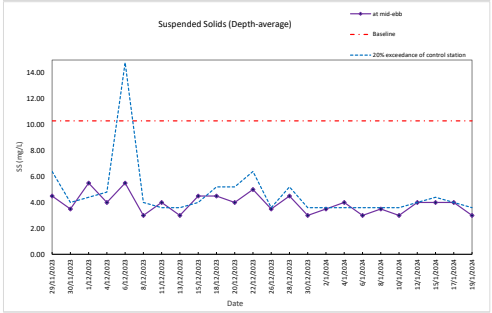

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

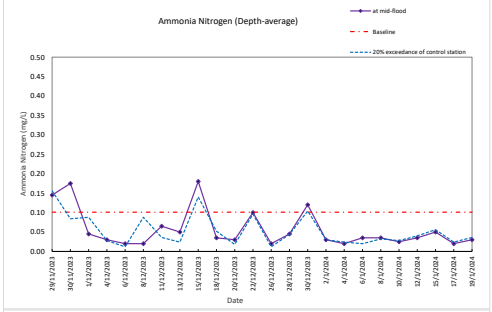

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

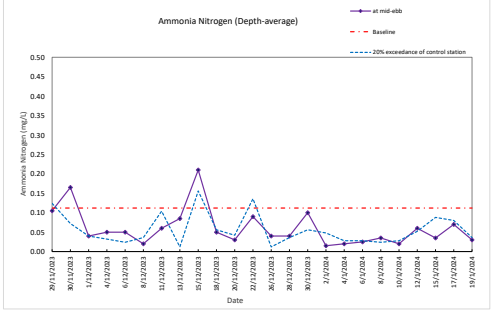

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

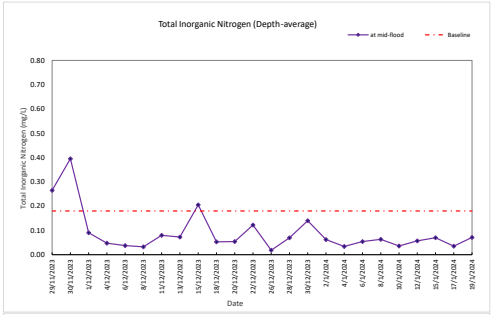

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

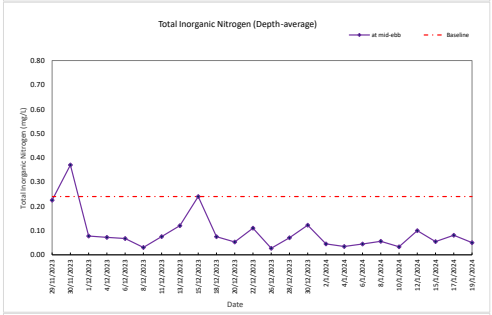

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

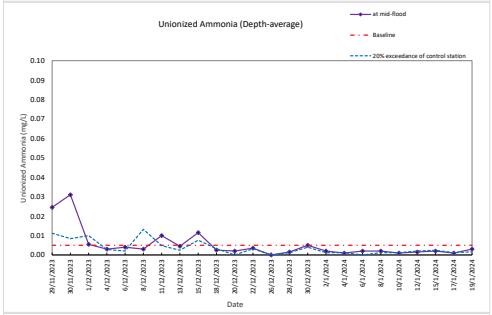

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

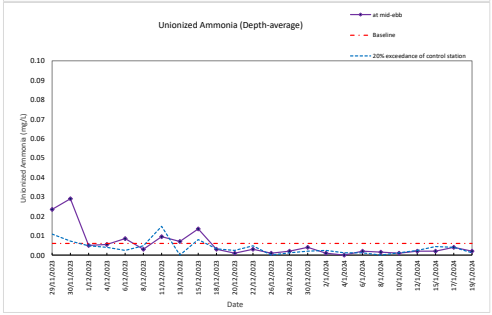

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

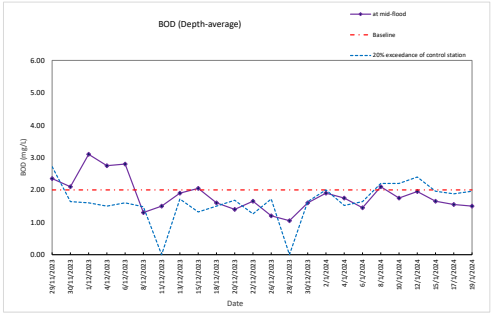

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

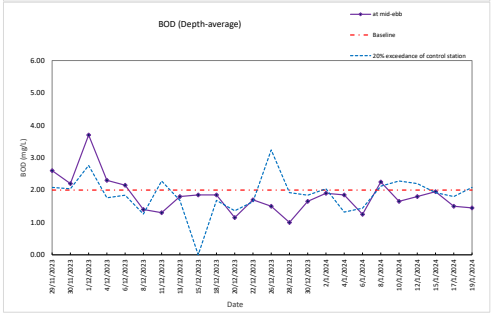

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

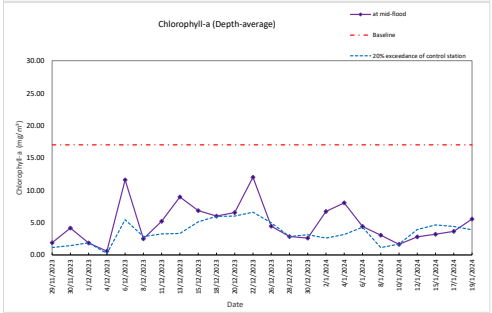

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

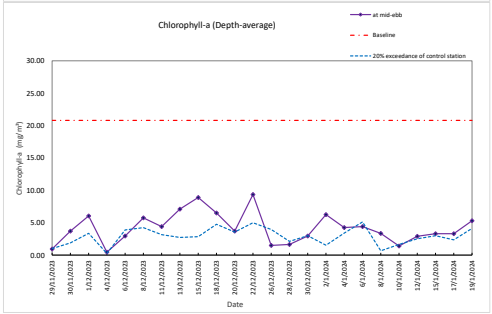

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

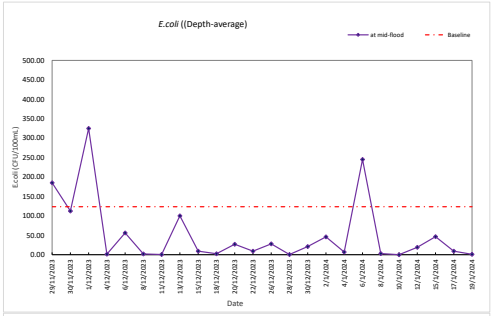

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

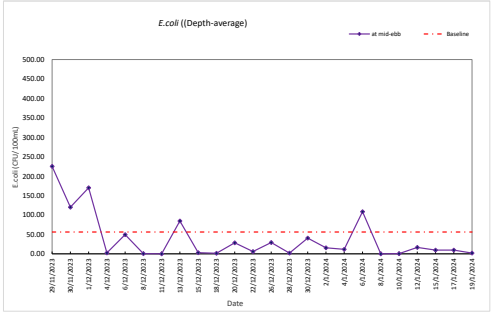

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

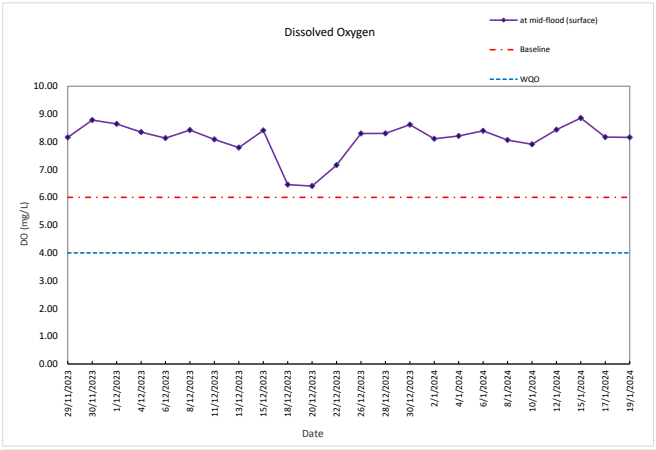

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

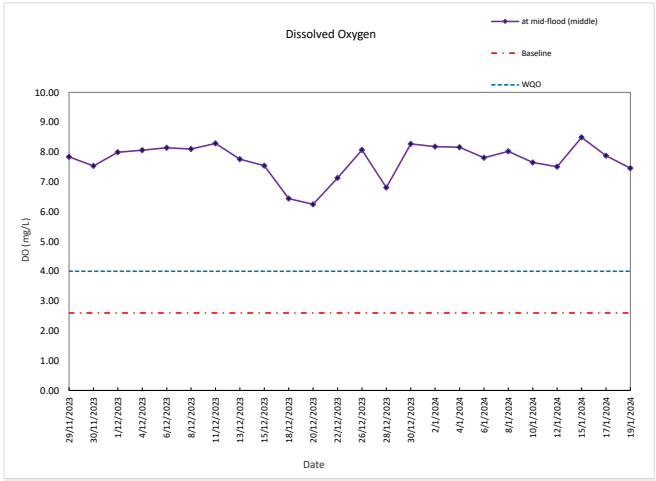

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

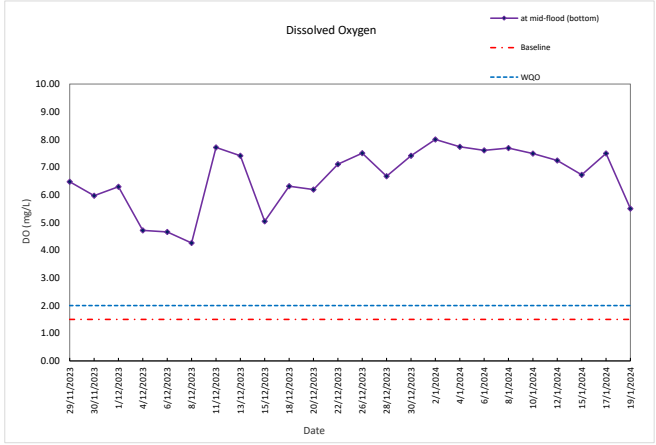

E.coli ((Depth-average)
at mid-flood
Baseline
500.00
450.00
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

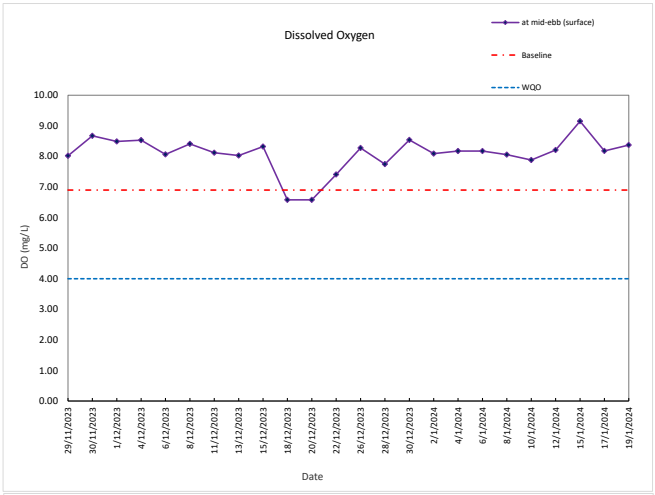

E.coli ((Depth-average)
at mid-ebb
Baseline
500.00
450.00
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
E.coli (CFU/100ml)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

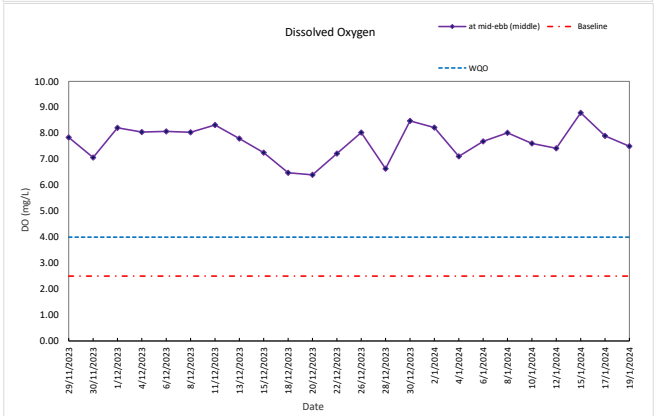
Graphic Presentation of Water Quality Result of
G1 - Potential Subzone of Yim Tin Tsai Fish Culture Zone / Gradient Station

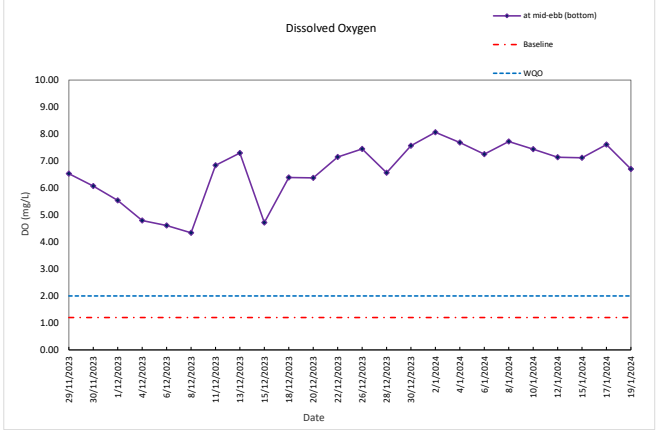


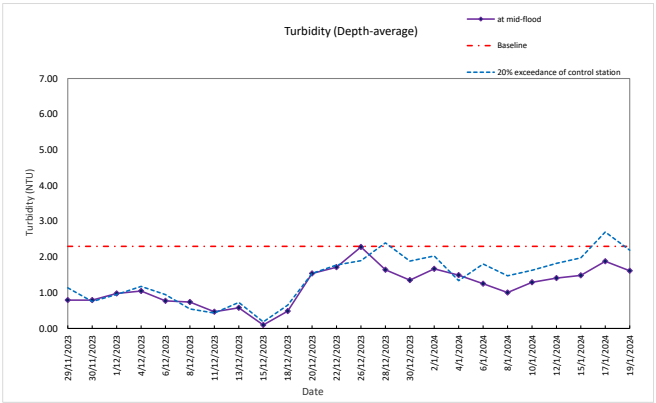


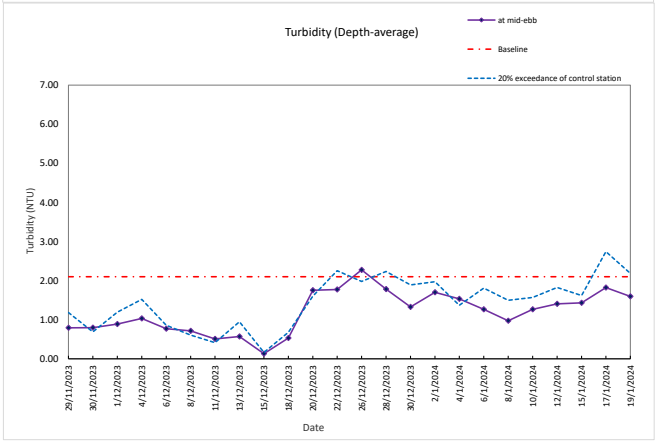


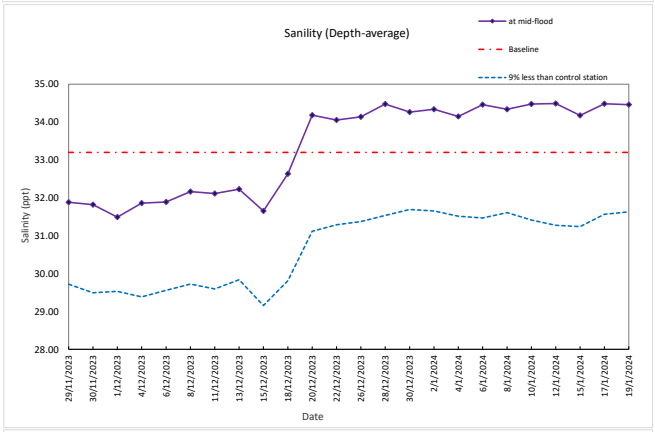

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

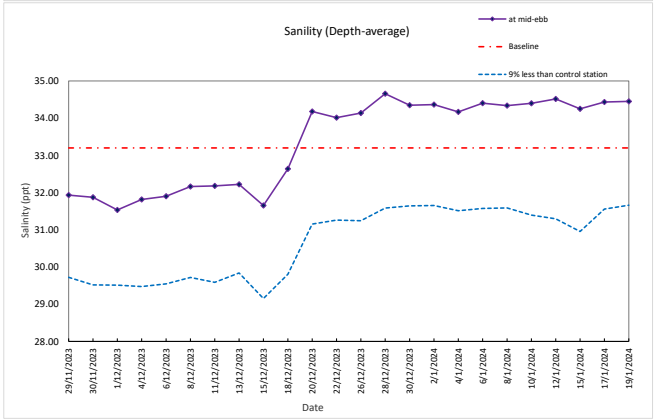

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

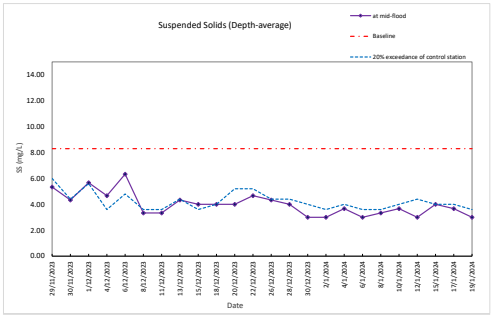

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

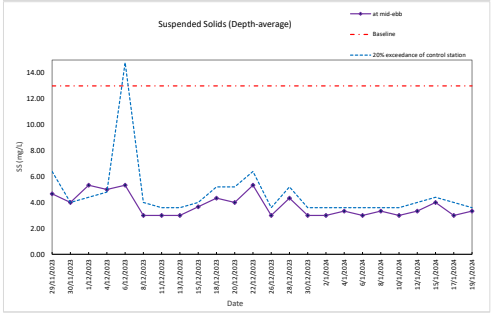

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

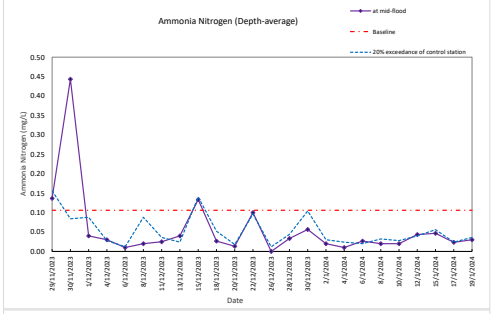

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

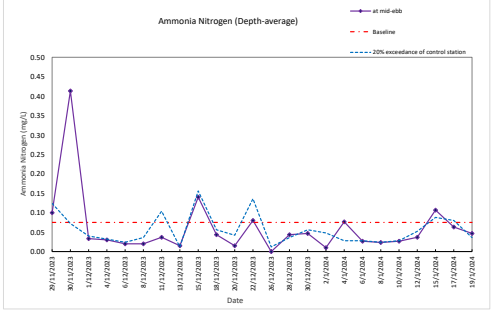

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

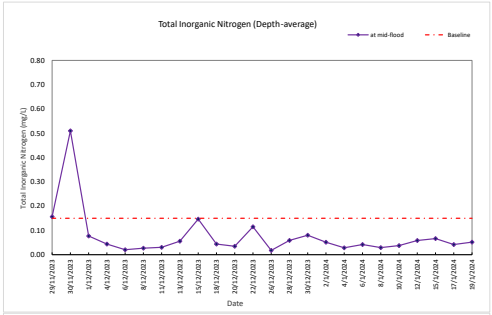

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
35.00
34.00
33.00
32.00
31.00
30.00
29.00
28.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

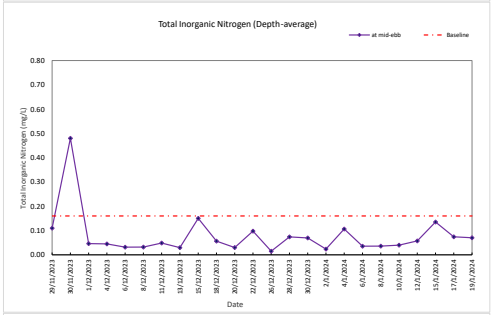

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

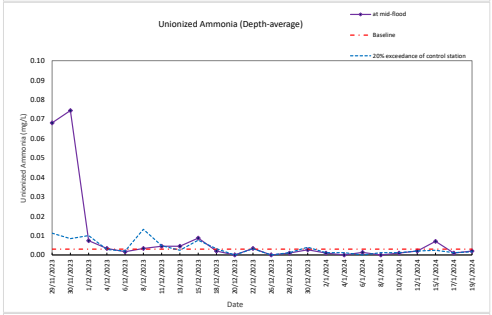

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

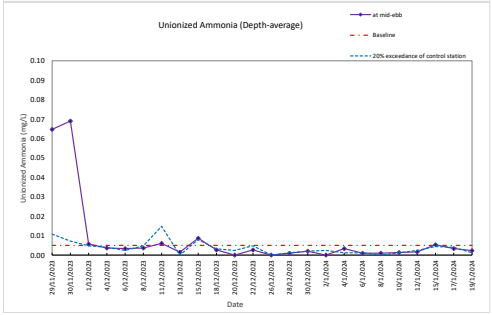

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

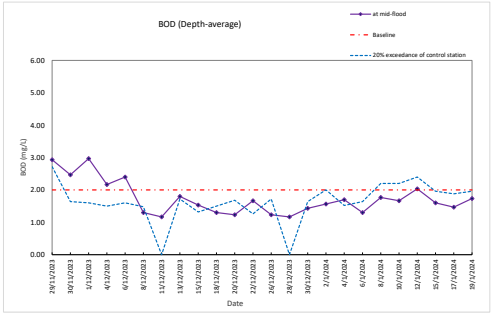

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

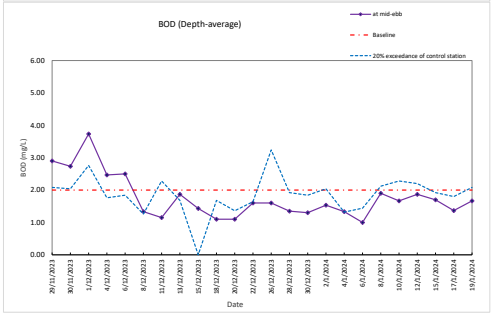

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
Date

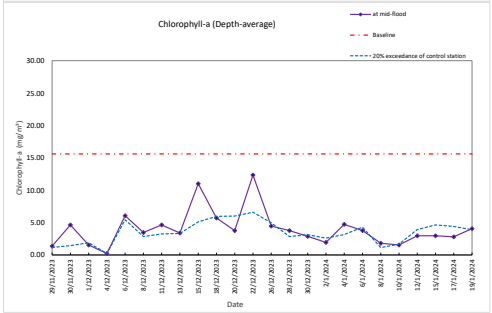

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
Date

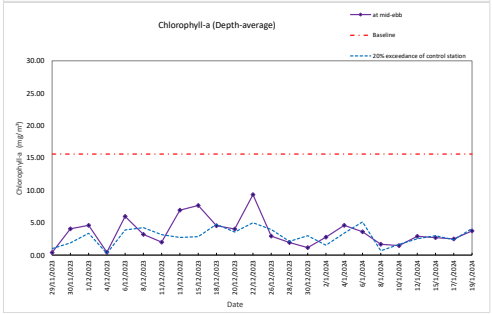

Unionized Ammonia (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

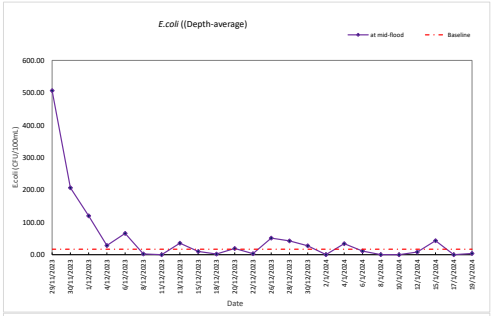

Unionized Ammonia (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
Date

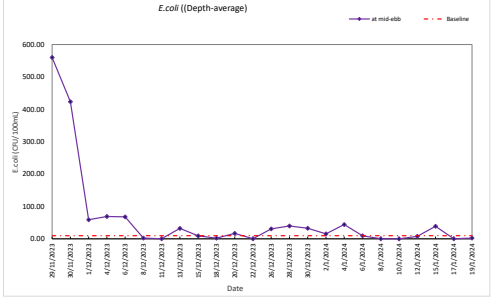

BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
Date

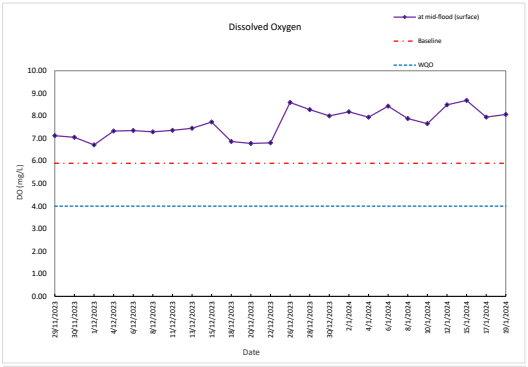

Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

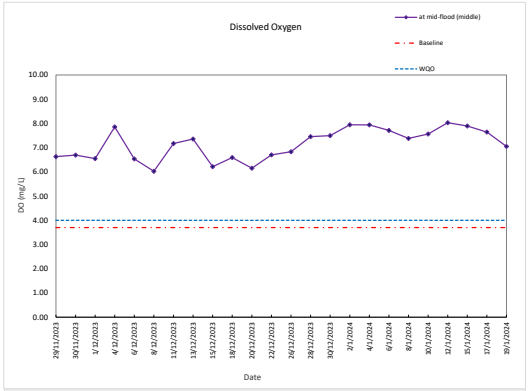

Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
Date

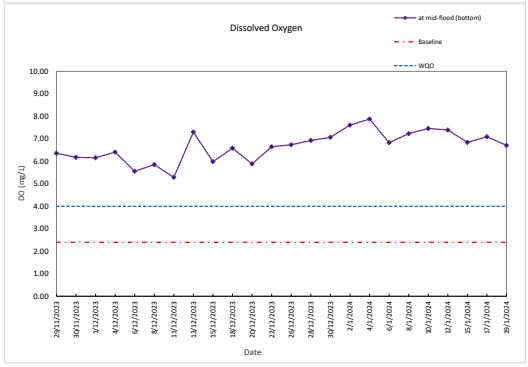

E.coli ((Depth-average)
at mid-flood
Baseline
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100mL)
29/11/2023
3/12/2023
7/12/2023
11/12/2023
15/12/2023
19/12/2023
23/12/2023
27/12/2023
31/12/2023
4/1/2024
8/1/2024
12/1/2024
16/1/2024
20/1/2024
24/1/2024
28/1/2024
1/2/2024
5/2/2024
9/2/2024
13/2/2024
17/2/2024
21/2/2024
25/2/2024
29/2/2024
Date

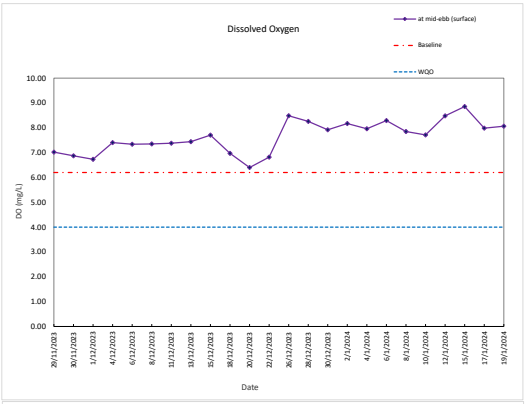

E.coli ((Depth-average)
at mid-ebb
Baseline
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100mL)
29/11/2023
3/12/2023
7/12/2023
11/12/2023
15/12/2023
19/12/2023
23/12/2023
27/12/2023
31/12/2023
4/1/2024
8/1/2024
12/1/2024
16/1/2024
20/1/2024
24/1/2024
28/1/2024
1/2/2024
5/2/2024
9/2/2024
13/2/2024
17/2/2024
21/2/2024
25/2/2024
29/2/2024
Date

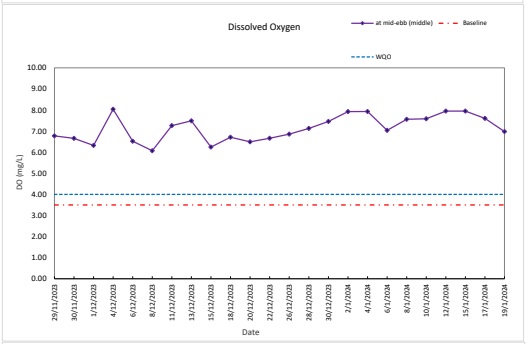
Graphic Presentation of Water Quality Result of
CR9 - Gruff Head Corals (Control Station)

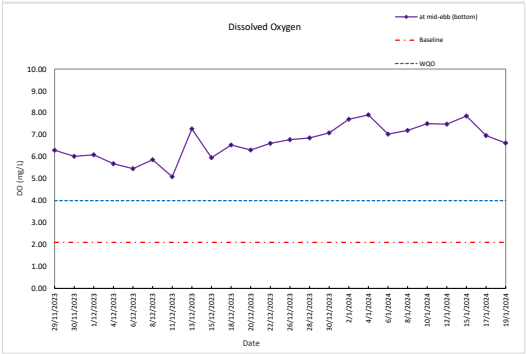


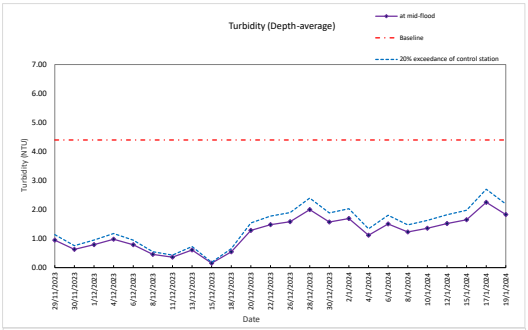


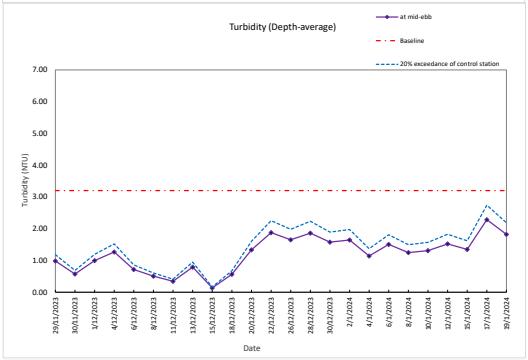


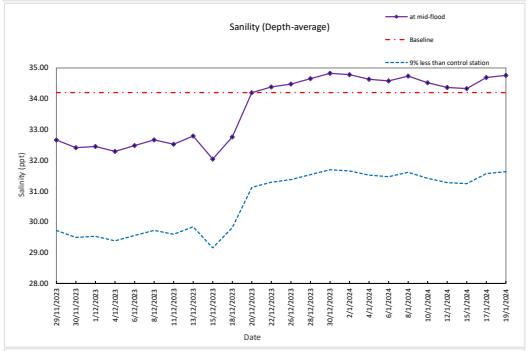

Dissolved Oxygen
at mid-ebb (surface)
Baseline
WQO
DO (mg/L)
Date

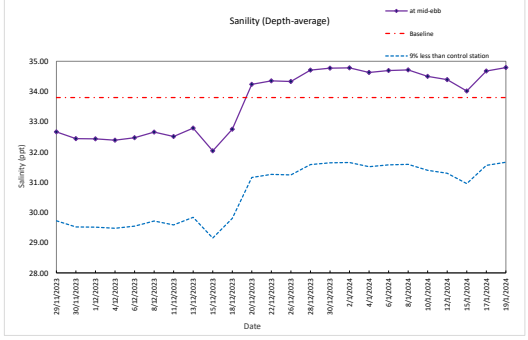

Dissolved Oxygen
at mid-ebb (middle)
Baseline
WQO
DO (mg/L)
Date

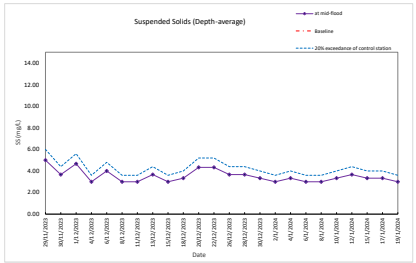

Dissolved Oxygen
at mid-ebb (bottom)
Baseline
WQO
DO (mg/L)
Date

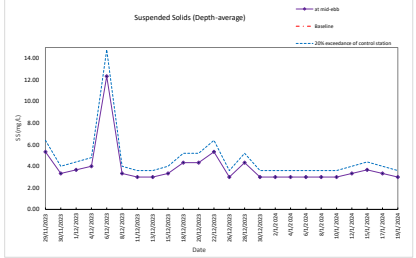

Turbidity (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Turbidity (NTU)
Date

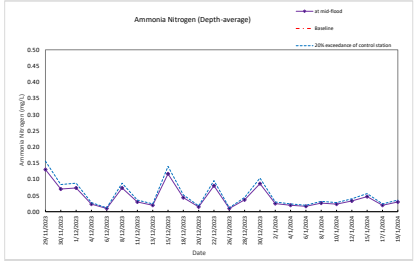

Turbidity (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Turbidity (NTU)
Date

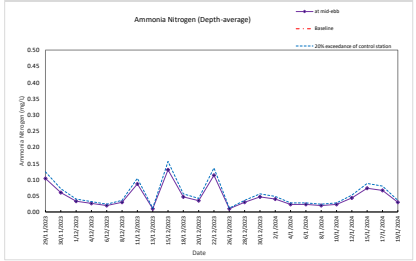

Sanility (Depth-average)
at mid-flood
Baseline
9% less than control station
Salinity (ppt)
Date

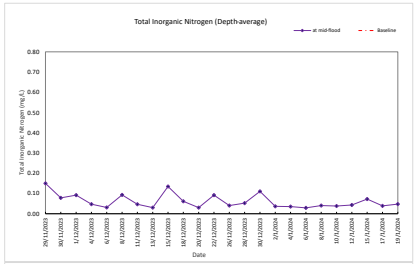

Sanility (Depth-average)
at mid-ebb
Baseline
9% less than control station
Salinity (ppt)
Date

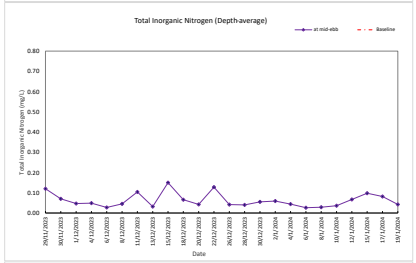

Suspended Solids (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
SS (mg/L)
Date

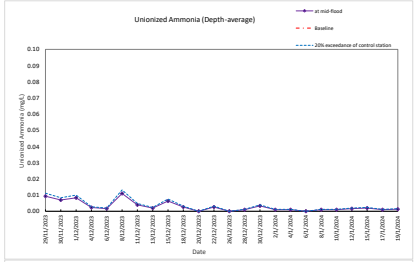

Suspended Solids (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
SS (mg/L)
Date

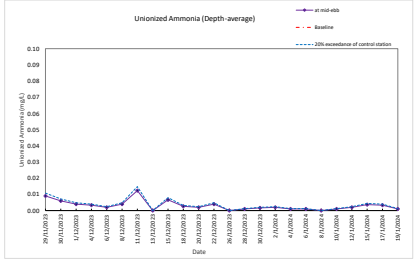

Ammonia Nitrogen (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

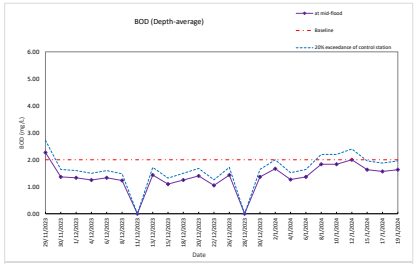

Ammonia Nitrogen (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Ammonia Nitrogen (mg/L)
Date

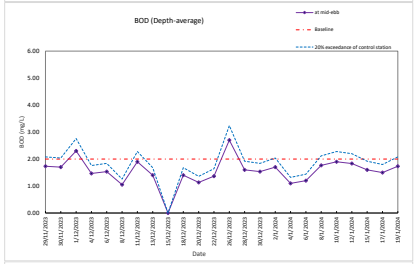

Total Inorganic Nitrogen (Depth-average)
at mid-flood
Baseline
Total Inorganic Nitrogen (mg/L)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

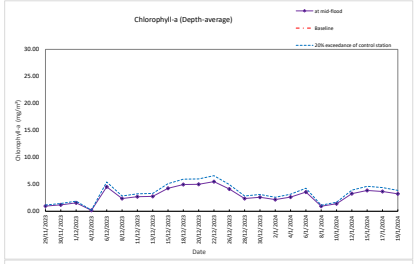

Total Inorganic Nitrogen (Depth-average)
at mid-ebb
Baseline
Total Inorganic Nitrogen (mg/L)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

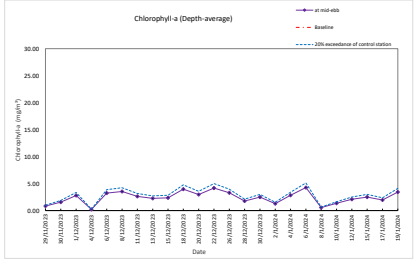

Unionized Ammonia (Depth -average)
at mid-flood
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

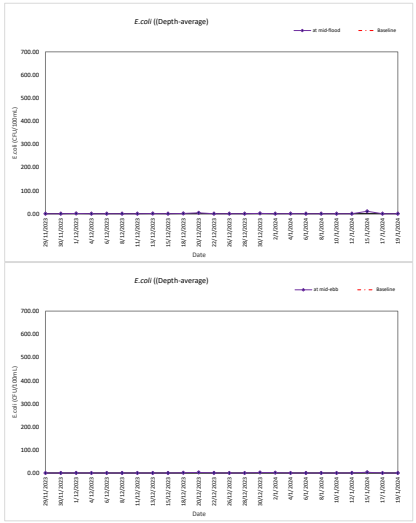

Unionized Ammonia (Depth -average)
at mid-ebb
Baseline
20% exceedance of control station
Unionized Ammonia (mg/L)
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date


BOD (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
BOD (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date


BOD (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
BOD (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date


Chlorophyll-a (Depth-average)
at mid-flood
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date


Chlorophyll-a (Depth-average)
at mid-ebb
Baseline
20% exceedance of control station
Chlorophyll-a (mg/m³)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date


E.coli ((Depth-average)
at mid-flood
Baseline
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100 mL)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

E.coli ((Depth-average)
at mid-ebb
Baseline
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E.coli (CFU/100mL)
29/11/2023
30/11/2023
1/12/2023
4/12/2023
6/12/2023
8/12/2023
11/12/2023
13/12/2023
15/12/2023
18/12/2023
20/12/2023
22/12/2023
26/12/2023
28/12/2023
30/12/2023
2/1/2024
4/1/2024
6/1/2024
8/1/2024
10/1/2024
12/1/2024
15/1/2024
17/1/2024
19/1/2024
Date

Appendix 4.6

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department: Drainage Services Department **Contract No.: DC/2020/05**

Monthly Summary Waste Flow Table for December 2023 [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly				
	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 3)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed as Public Fill	(f) Metals	(g) Paper/cardboard packaging	(h) Plastics (see Note 2)	(i) Chemical Waste	(j) Others, e.g. general refuse disposed at Landfill
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in tonne)
Jan-23	0.333	0.007	0.000	0.137	0.189	0.000	0.000	0.000	0.000	43.610
Feb-23	5.173	0.021	3.267	1.596	0.289	0.000	0.300	0.000	0.000	28.380
Mar-23	0.695	0.000	0.000	0.357	0.338	0.000	0.000	0.000	0.000	56.250
Apr-23	0.703	0.100	0.000	0.189	0.414	0.000	0.750	0.000	0.000	31.000
May-23	1.173	0.213	0.000	0.462	0.499	0.000	0.200	0.000	0.000	18.830
Jun-23	0.538	0.081	0.000	0.410	0.047	0.000	0.250	0.000	0.000	30.210
Sub-total	8.616	0.423	3.267	3.150	1.776	0.000	1.500	0.000	0.000	208.280
Jul-23	1.810	0.000	0.000	0.557	1.254	0.000	0.300	0.000	0.000	34.31
Aug-23	1.597	0.006	0.000	1.386	0.205	0.000	0.000	0.000	0.000	39.35
Sep-23	1.062	0.018	0.000	0.851	0.193	0.000	0.200	0.000	0.000	52.41
Oct-23	1.595	0.009	0.000	0.179	1.408	0.000	0.000	0.000	0.000	7.21
Nov-23	0.665	0.000	0.000	0.084	0.581	0.000	0.250	0.000	0.000	53.62
Dec-23	1.614	0.281	0.000	0.000	1.334	0.035	0.150	0.000	0.000	68.530
Total	16.959	0.737	3.267	6.206	6.750	0.035	2.400	0.000	0.000	463.710

Notes:

(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastics bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates.

(4) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 5 m^3 by volume.

(5) Conversion factors for reporting purpose:

Excavated: rock = 2.0 tonnes/m^3, soil = 1.8 tonnes/m^3, broken concrete and bitumen = 2.4 tonnes/m^3, Slurry = 2.8 tonnes/m^3

Monthly Summary Waste Flow Table

Name of Department: Drainage Services Department **Contract No.: DC/2020/05**

Monthly Summary Waste Flow Table for February 2024 [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly				
	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 3)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed as Public Fill	(f) Metals	(g) Paper/cardboard packaging	(h) Plastics (see Note 2)	(i) Chemical Waste	(j) Others, e.g. general refuse disposed at Landfill
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in tonne)
1月-24	3.782	0.053	0.000	0.399	3.330	0.025	0.000	0.200	0.000	54.970
2月-24	1.853	0.429	0.000	0.557	0.867	0.000	0.000	0.000	0.000	61.670
Sub-total	5.634	0.481	0.000	0.956	4.197	0.025	0.000	0.200	0.000	116.640
Total	5.634	0.481	0.000	0.956	4.197	0.025	0.000	0.200	0.000	116.640

Notes:

(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastics bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates.

(4) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 5 m^3 by volume.

(5) Conversion factors for reporting purpose:

Excavated: rock = 2.0 tonnes/m^3, soil = 1.8 tonnes/m^3, broken concrete and bitumen = 2.4 tonnes/m^3, Slurry = 2.8 tonnes/m^3

Monthly Summary Waste Flow Table

Name of Department: Drainage Services Department **Contract No.: DC/2023/12**

Monthly Summary Waste Flow Table for December 2023 [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly				
	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 3)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed as Public Fill	(f) Metals	(g) Paper/cardboard packaging	(h) Plastics (see Note 2)	(i) Chemical Waste	(j) Others, e.g. general refuse disposed at Landfill
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000tonne)
Jan-23										
Feb-23										
Mar-23										
Apr-23										
May-23										
Jun-23										
Sub-total										
Jul-23										
Aug-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009

Notes:

(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastics bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates.

(4) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 5 m^3 by volume.

(5) Conversion factors for reporting purpose:

Excavated: rock = 2.0 tonnes/m^3, soil = 1.8 tonnes/m^3, broken concrete and bitumen = 2.4 tonnes/m^3, Slurry = 2.8 tonnes/m^3

Monthly Summary Waste Flow Table

Name of Department: Drainage Services Department **Contract No.: DC/2023/12**

Monthly Summary Waste Flow Table for February 2024 [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly				
	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 3)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed as Public Fill	(f) Metals	(g) Paper/cardboard packaging	(h) Plastics (see Note 2)	(i) Chemical Waste	(j) Others, e.g. general refuse disposed at Landfill
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000tonne)
1月-24	0.077	0.000	0.000	0.000	0.077	0.000	0.000	0.000	0.000	0.000
2月-24	0.061	0.000	0.000	0.000	0.061	0.000	0.000	0.000	0.000	0.000
Sub-total	0.138	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.000	0.000
Total	0.138	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.000	0.000

Notes:

(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastics bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates.

(4) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 5 m^3 by volume.

(5) Conversion factors for reporting purpose:
Excavated: rock = 2.0 tonnes/m^3, soil = 1.8 tonnes/m^3, broken concrete and bitumen = 2.4 tonnes/m^3, Slurry = 2.8 tonnes/m^3

Appendix 6.1

Event and Action Plans

Event and Action Plan for Construction Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Action level being exceedance by one sampling	1 Identify source, investigate the causes of exceedance and propose remedial measures; 2 Inform Contractor, IEC, ER, and EPD; 3 Repeat measurement to confirm finding; 4 Increase monitoring frequency to daily.	1 Check monitoring data submitted by ET; 2 Check Contractor's working method; and 3 Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	1 Notify Contractor.	1 Identify source(s), investigate the causes of exceedance and propose remedial measures; 2 Implement remedial measures; and 3 Amend working methods agreed with the ER as appropriate
2. Action level being exceeded by two or more consecutive sampling	1 Identify source; 2 Inform Contractor, IEC and ER; 3 Advise the Contractor and ER on the effectiveness of the proposed remedial measures; 4 Repeat measurements to confirm findings; 5 Increase monitoring frequency to daily; 6 Discuss with IEC and Contractor on remedial actions required; 7 If exceedance continues, arrange meeting with Contractor, IEC and ER; 8 If exceedance stops, cease additional monitoring.	1 Check monitoring data submitted by ET; 2 Check Contractor's working method; 3 Discuss with ET, ER and Contractor on possible remedial measures; 4 Advise the ET and ER on the effectiveness of the proposed remedial measures; and 5 Supervise Implementation of remedial measures.	1 Confirm receipt of notification of exceedance in writing; 2 Notify Contractor; 3 Ensure remedial measures properly implemented. 4 If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1 Identify source and investigate the causes of exceedance; 2 Submit proposals for remedial measures to the ER with a copy to ET and IEC within three working days of notification; 3 Implement the agreed proposals; and Amend proposal as appropriate. 4 Amend proposal as appropriate.

Event and Action Plan for Construction Air Quality (Con't)

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

Event and Action Plan for Construction Noise

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

Appendix 6.2

Summary for Notification of Exceedance

Ref no.	Date	Location	Parameters (Unit)	Measures	Action Level	Limit Level	Follow-up action
-	-	-	-	-	-	-	-

Appendix 7.1

Complaint Log

Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
190808	29/07/2019	DSD	Construction site area Portion 6	Exposed slope surface without any covering was observed at Portion 6	A public complaint regarding construction dust received by DSD on 29 July 2019 was subsequently referred to ET on 6 August 2019. The complainant reported that exposed slope surface without any covering at Portion 6. Based on the information provided by the Contractor, the concerned area was under slope cutting and filling works for temporary haul road construction. Based on the observation on 6 August 2019 and weekly site inspection on 7 August 2019, the concerned slope was observed covered with the tarpaulin sheets to alleviate the potential dust impact to the surroundings. Upon review on the monitoring data, no exceedances were recorded at the air quality monitoring stations AM2 - Block H, Kam Tai Court and AM4 - Wellborn Kindergarten (located nearest to the concerned slope) during the 1hr TSP monitoring on 23 July 2019 and 29 July 2019 respectively. Follow up site inspection was conducted by the Environmental Team on 07 August 2019 and it was observed that the slope at Portion 6 was properly covered. Nevertheless, in view of the public concern, the Contractor of DC/2018/05 was reminded to enhance the dust suppression measure by providing adequate watering to any exposed surface during cutting slope and fill works to avoid potential dust impact to the surroundings.	Interim investigation report was issue on 16 August 2019
201112	12/11/2020	DSD	Outside site boundary of Portion 11	water contamination / ecological impact	A letter from Kadoorie Farm and Botanic Garden (KFBG) regarding water contamination / ecological impact received by DSD on 12 November 2020 was subsequently referred to ET on 12 November 2020. The KFBG alleged that: Extracting water directly from the stream, Surface run-off silt smothering forest understorey and silting the stream, Cement has been disposed into the forest understorey and the stream , and Diesel fuel leaking from pumps and generators at Portion 11. The concerned area is natural stream near slope cutting and filling works for temporary haul road construction, outside of the DC/2018/05 construction site boundary. The Contractor, RSS conducted walk-through survey on 17 November 2020 starting from around the tree tag T9511/ T9512 and ending at the pool of the natural stream near Portion 11 of DC/2018/05. Additional site inspection with EPD, DSD, RSS, ET and the Contractor was conducted on 17 November 2020, additional site inspection with KFBG, DSD, RSS, ET and the Contractor was conducted on 19 November 2020. No Pollutants were observed being discharged to the stream, the natural stream was clean with running water during above inspections. However, few spots were found with cement and silt on the bedding of the stream. According to the Contractor, the water pumps were the emergency pumps and it had been removed away from the natural stream. No pump was observed during above inspections. There was no sign of any diesel fuel leaking from pumps or generators. The nearest generator for the construction work has been located far away from the concerned location. By the walk-through	Interim investigation report was issue on 14 December 2020

					survey along the natural stream, there was no oil-strain or diesel likes contamination being observed. By the walk-through survey, various locations were found with silting / sand. The sources of the silt were not necessary from the construction site of DC/2018/05. It could also be contributed by the natural erosion from both sides of the stream. Nevertheless, in view of the public concern, the Contractor of DC/2018/05 was willing to clean up the stream to address the concerns from KFBG to protect the environment. The Contractor also reminded to keep review the performance of mitigation measures including well cover slope / area with exposed soil with tarpaulin sheets to prevent surface runoff, using cellular confinement system to prevent soil erosion.	
210127	27/01/2021	DSD	Construction Area at Portion 6 (Tunnel)	Air Quality	A public complaint regarding construction dust referred by DSD on 27 January 2021 was subsequently received by ET on 27 January 2021. The complainant reported that: - Construction dust emission arising from blasting works in tunnel was observed near Block 6, Chevalier Garden. Blasting in the tunnel was carried out under Contract DC/2018/05 at the concerned area According to the relevant site information provided by the Contractor of DC/2018/05, there are total of 13nos. of blasting works was carried out in January 2021 in the tunnel. The blasting works was carried out in the tunnel. Dust screen, mist curtain, sprinkler system and mist cannon were installed / operated when blasting, the blast door was tightly closed during blasting. Based on review on air quality monitoring data, no exceedances were recorded at the air quality monitoring stations AM3(B) - Outside A Kung Kok Street Garden and AM4 - Wellborn Kindergarten (located nearest to the concerned area) during the scheduled 1hr TSP monitoring in January 2021. Ad-hoc TSP monitoring and inspection was carried out on 29 January and 1 February 2021 during blasting, no exceedances were recorded at the air quality monitoring stations AM3(B) - Outside A Kung Kok Street Garden and AM4 - Wellborn Kindergarten. Based on the site inspection on 28 January 2021, 2nos. mist cannons have been installed and operated on the top of blast door during / after the blast door opened to reduce fumes / mists emission. The Contractor of DC/2018/05 was reminded to enhance the dust suppression measure by providing adequate watering after the blast door opened. Contractor is requested to consider extend the time to open the blast door after blasting in order to the fumes and rock dust have been settled in the tunnel. Also, the Contractor of DC/2018/05 was reminded that the ventilation system in the tunnel should be maintained in good condition.	Interim investigation report was issue on 7 February 2021

20211201	01/12/2021	AECOM	Construction Area at Portion 12 (The Neighbourhood Advice-Action Council Harmony Manor)	Noise	A public complaint regarding construction noise referred by AECOM on 3 December 2021 was subsequently received by ET on 3 December 2021. The complainant reported to 1823 online dated on 1 December 2021 that the construction noise (heavy vehicle and drilling works) generated from the construction site at A Kung Lok Shan Road was causing noise nuisance to complainant's son. According to the relevant site information provided by the Contractor of DC/2020/05, preparation works for sheet pile driving, which included machinery and materials mobilization, were carried out on 1 December 2021. Sheet pile work was commenced on 2 December 2021. Based on review on noise monitoring data, no exceedances were recorded at the noise monitoring station CM5 - R/F, The Neighbourhood Advice-Action Council Harmony Manor (located nearest to the concerned area) during the scheduled Leq30 min noise monitoring in November 2021. ET conducted regular noise monitoring on 3 December 2021, no exceedances was record at the noise monitoring stations CM5 - R/F, The Neighbourhood Advice-Action Council Harmony Manor. Weekly noise monitoring was conducted on 7 December 2021, no exceedances was recorded at the noise monitoring station CM5 - R/F, The Neighbourhood Advice-Action Council Harmony Manor. Site inspection was conducted on 8 December 2021, it is observed that breaking /drilling works by other contractor was conducted next to The Neighbourhood Advice-Action Council Harmony Manor. No heavy vehicles passing by A Kung Lok Shan Road during noise monitoring. After receiving the complaint, additional noise mitigation measures, including wrapping up the breaker tip with acoustic mat and deploying of temporary noise barrier have been implemented by the Contractor of DC/2020/05. The Contractor of DC/2020/05 was reminded to enhance the noise mitigation measures by providing sufficient temporary noise barrier. Contractor is advised to make good communication with The Neighbourhood AdviceAction Council Harmony Manor and consider scheduling the time of sheet pilling and machinery / materials mobilization in order to avoid further complaint.	Interim investigation report was issue on 10 December 2021
20220506	06/05/2022	Contractor	Construction Area at Portion 10 (Next to the Chevalier Garden)	Noise	A public complaint regarding construction noise referred by the Contractor was received by ET on 12 May 2022. The complainant reported to 1823 Call Centre (ICC) dated on 6 May 2022 that the construction noise (rock-breaking and excavation) generated from the construction site of Portion 10 at Mui Tsz Lam Road was causing noise nuisance to complainant. According to the relevant site information provided by the Contractor of DC/2020/05, rock-breaking and excavation works were conducted during the concerned period. Based on review on noise monitoring data, no exceedances were recorded at the noise monitoring stations CM1 - G/F, Wellborn Kindergarten and CM2(B) - G/F, Outside A Kung Kok Street Garden (located within the Chevalier Garden) during the scheduled Leq30 min noise monitoring in April 2022. ET conducted regular noise monitoring on 6 May 2022, no exceedances were recorded at the noise monitoring stations CM1 - G/F, Wellborn Kindergarten and CM2(B) - G/F, Outside A Kung Kok Street Garden. Site inspection was conducted on 5 &12 May 2022, it is observed that rock-breaking was conducted at the construction site of Portion 10. Ad-hoc noise monitoring at	Interim investigation report was issue on 13 May 2022

					CM1 - G/F, Wellborn Kindergarten and CM2(B) - G/F, Outside A Kung Kok Street Garden on 13 May 2022, no exceedances were recorded. During execution of rock breaking works, below noise mitigation measures had been implemented by the Contractor of DC/2020/05 • Erection of 8m height noise barrier • Wrapping up the breaker tip with acoustic material • Upgrade the existing hoarding to perform as noise barrier by affixing a layer of sound absorption material to the hoarding surface • Voluntary to late start of rock breaking work at 0900hrs instead of 0700hrs, which is allowed under the Regulation. Contractor of DC/2020/05 also carried out self-noise monitor for the rock-breaking works on 4, 5 & 6 May 2022, All results show the construction noise levels are below the 75dB(A). ET would continue to monitor the adequacy of mitigation measures and review the monitoring data of the monitoring stations of CM1 - G/F, Wellborn Kindergarten and CM2(B) - G/F, Outside A Kung Kok Street Garden. The Contractor is recommend to review the construction operation to erect the temporary noise barriers, if feasible and ensure all idled PME are shut down to minimize potential noise emanation at the concerned works area to avoid potential nuisance.	
20220816	16/08/2022	Contractor	WA3 (Ngau Kok Wan, Tsing Yi)	Air Quality	A public complaint suspecting improper operation of mineral works without relevant environmental permits/licenses and dust mitigation measures at WA3 referred by the Contractor was received by ET on 17 August 2022. The complaint was made via email to the relevant authorities, including Environmental Protection Department (EPD) and Drainage Services Department (DSD), on 16 August 2022, the complainant suspected a mineral site near Tsing Yi North Coastal Road and Ting Kau Bridge was in operation without relevant environmental permits/licenses, the complainant also stated no dust mitigation measures, such as covering and water spraying for dusty stockpile and conveyor belts; and provision of wheel washing facility, were implemented based on his observation. The location where the complaint refers to is one of the works areas for the Project (i.e. WA3 at Ngau Kok Wan, Tsing Yi) for the proposed rock crushing operation as the location for such operation under the Environmental Permit (EP) (EP-533/2017/A) issued on 11 August 2022, and the Specified Process License (SPL) for the category of mineral works (stone crushing works) under Air Pollution Control (Specified Processes) Regulations for such operation has been applied since April 2022 and the associated application result was pending from EPD at the time of the complaint received. The works activities at WA3 between 12 and 17 August 2022 were reviewed. As advised by the Contractor, the works activities undertaken during the period mainly included i) assembly and adjustment of the rock crushing machineries; ii) provision of training for workers on the operation of machineries for rock crushing activities; and iii) import of rocks from the main site (i.e. works areas of Cavern at Ma On Shan) on land logistics by dump trucks for construction of a loading platform and temporary storage at WA3. Relevant mitigation measures for air quality impacts were implemented on site during the period including i) water spraying on haul roads; ii) water	Interim investigation report was issue on 31 August 2022

spraying for the temporary stockpile of dusty materials; iii) covering dusty materials with use of impervious sheeting; and iv) installation of dust enclosure and misting system for conveyor systems, etc. In addition, regular site inspections were carried out by the ET at WA3 on 12 and 17 August 2022, with no particular observations associated with air quality recorded and wheel washing facilities were in place for subsequent use, during the site inspections except a verbal reminder on proper covering for the stockpiles being idle on site was given to the Contractor on 17 August 2022 for improvement.

As referred to the Air Pollution Control Plan (APCP) attached to the application of SPL, the proposed rock crushing operation with maximum output capacity of 1,400 tonnes per hour by two operation lines (i.e. output capacity of 700 tonnes per hour for each) for the rocks being processed as aggregates of about 3M tonnes was mentioned and 12 hours a day (7:00 to 19:00) was assumed for the rock crushing operation taken in the air quality modelling assessment except Sundays and public holidays whereas, as advised by the Contractor, about 2,000 tonnes of rock were processed in the training sessions for the workers during the period (i.e. 12 to 17 August 2022), which is below the allowed maximum output for the rock crushing operation (i.e. 100,800 tonnes) during the period. Moreover, relevant monitoring data in relation to suspended particulates were not available for review as a result of the fact that the application result for SPL is pending from EPD and actual rock crushing operation has not been commenced at the time of the complaint received such that the corresponding total suspended particulates (TSP) and respirable suspended particulates as required by the SPL, and 1-hr TSP as recommended in the Environmental Review Report (ERR) for the application of variation of EP (i.e. EP-533/2017/A), respectively, had not been monitored at the time of the complaint received.

Based on the investigation above, the works activities at WA3 did not result in any unacceptable environmental impacts to the surrounding environment as reviewed with the relevant environmental requirements under EP-533/2017/A and the associated APCP for application of SPL for the Project.

Though works activities at WA3 did not result in any unacceptable environmental impacts to the surrounding environment, the Contractor was reminded to properly maintain the implementation of recommended mitigation measures for air quality impacts as recommended in the approved EIA Report, EP (i.e. EP-533/2017/A), the Updated EM&A Manual and/or ERR/APCP for the Project, and all mitigation measures as stated in the APCP for obtaining the SPL approved by EPD.

An ad-hoc site inspection was also carried out by the ET at WA3 on 19 August 2022 noting that fugitive dust emission was observed during breaking of artificial hard material by a backhoe equipped with hydraulic breaker without effective mitigation measures for air quality impacts (e.g. water spraying) implemented properly, and the Contractor was subsequently reminded to follow up on this for improvement. The ET will continue carrying out site inspections on a regular basis to check that appropriate environmental protection and pollution control mitigation measures are properly implemented in accordance with the environmental documents mentioned.

20230317	17/03/2023	DSD	Construction site entrance at Ma On Shan Road (Portion 4) and Mui Tsz Lam Road (Portion 6)	Air Quality	A notice of complaints from Environmental Protection Department (EPD) referred by AECOM was subsequently received by ET on 17 March 2023. Based on the information provided by the Contractor, no construction activity and performs as an access road for construction vehicles at Portion 6 and fill the access road for retaining wall and slope, Footing & wall construction, removal of the temporary stockpile of soil and performs as an access road for construction vehicles at Portion 6. Moreover, the existing dust mitigation measures were implemented at portion 4 and 6 by Contractor in February 2023. According to the Main Contractor, enhanced mitigation measures were implemented after the complaint and summarized as below: Portion 4 ・Arrange workers and water tanker to spray water for the section of Ma On Shan Road connecting to the site entrance one hour earlier than before, i.e. at 0700 hrs. ・Rent a road sweeper to clean the section of Ma On Shan Road connecting to the site entrance at Portion 4 once a week. ・Upgrade the number of sprinklers from 6 to 8 to increase the water spraying area on 17 March 2023. Portion 6 ・Increase the frequency of watering and road sweeping to the works area and Mui Tsz Lam Road roundabout to maintain it clean and free of dust. According to the ET regular air quality monitoring results in February 2023, no exceedance for all monitoring stations including the nearest stations AM1 and AM3(B) was found in reporting month. An ad-hoc air quality monitoring was conducted at nearest station AM1 and AM3(B) by the ET on 22 March 2023 and no exceedance was recorded. Nevertheless, in view of the public concern, the Contractor of DC/2018/05 was reminded to increase the frequency of watering the haul roads in dry weather and dry seasons, appropriate speed control shall be adopted for the vehicles on construction sites haul roads and all the use of vehicle wheel and body washing facilities and the water sprinklers should be regularly reviewed and maintained that make sure they are functioning properly.	Interim investigation report was issue on 24 March 2023
20230525	05/06/2023	ET	The outfall outside construction site at Mui Tsz Lam Nullah.	Water Quality	A notice of complaints from Environmental Protection Department (EPD) letter dated on 25 May 2023 was subsequently received by ET on 5 June 2023. One complaint to EPD on 8 May 2023 regarding muddy water discharge from construction site to Mui Tsz Lam Nullah and finally direct to Shing Mun River. As mentioned in EPD's complaint letter, muddy water appeared at the outfall located in Portion 3. According to Contractor Discharge Licence (Licence No.: WT00040534-2022) provided, the effluent from the wastewater treatment system in Portion 4, Portion 6 and the Caverns are permitted to be discharged to the stormwater drain and come out at this outfall. Also, by reviewing the drainage record, this outfall is also connected to further upstream from A Kung Kok catchment areas.	Interim investigation report was issue on 16 June 2023.

					Other Works Area: Portion 4: Wastewater produced in Portion 4 generally came from wheel washing at its site entrance. The treated wastewater was recirculated and consumed internally for road dust suppression and considered as seldom discharged. Portion 6 and Portion 9: Two wastewater treatment systems with 80m3/hr treatment capacity are deployed at Portion 6 and Portion 9 (the Main Access Tunnel) respectively. As advised by Contractor, a full-time worker has been appointed responsible for the daily operation and maintenance of each of the wastewater treatment facilities. Tunnel: A Filtration System was installed and connected to the wastewater treatment system inside the tunnel which can further reduce the suspended particulate of the effluent from the existing treatment system and is able to monitor the pH and SS value of the effluent and generate an alert when it exceeds the standard. Contractor Self-Monitoring: According to the discharge licence (Licence No.: WT00040534-2022) part B2, The Contractor shall carry out self-monitoring monthly and recording of the constituents. A water sampling (6 samples in total were collected) was carried out on 9 May 2023 and no exceedance was recorded in May 2023. Contractor Daily Observation: Muddy water appeared at the outfall each time when the tidal is low, even though the Contractor's discharging was clear enough at the time. Besides, there are two manholes in Portion 4 and a layer of muddy sediment is identified at the bottom of the drain. The contractor believes that the sediment was exposed to the air during low tidal and it was eroded by the water flow especially when we discharged or there was rainfall. It is the reason why muddy water appeared when the tide is low at the outfall of Portion 3. Ad-hoc Inspection: An ad-hoc inspection was conducted by the representative of ET, RSS and Contractor representative on 8 June 2023. According to ET's field observations, there is no evidence to prove that the muddy water discharged from the outfall area is project related. Although there was no evidence to indicate that the muddy water being discharged from the outfall was related to the project, AECOM has proposed a proactive approach by instructing CSAJV to clean up a section of the storm drain adjacent to the last manhole to safeguard the water body along the Mui Tsz Lam culvert. The proposal is currently in progress. The ET will continue to carry out site inspections on a regular basis to check that appropriate environmental protection and pollution control mitigation measures are properly implemented in accordance with the environmental documents mentioned.	
20231109	06/11/2023	EPD	WA4 (Wok Tai Wan, Tsing Yi)	Air Quality and Water Quality	A notice of complaints from Environmental Protection Department (EPD) email dated on 7 November 2023 was subsequently received by ET on 9 November 2023. One complaint to EPD on 6 November 2023 concerning the operation of a stockpiling site at Wok Tai Wan (GLA-TKT 1939) allocated to DSD. The complainant reported that:	Interim investigation report was issue on 20 November 2023.

1. As mentioned in EPD's complaint letter, other than few areas, large area of rock stockpile were not covered and fugitive dust appeared.
2. There have been continuous heavy rains in recent days. If the rock stockpile is close to the seaside, there is a risk of landslides and seabed pollution.

Upon receipt of the complaint on 9 November 2023, the Environmental Team (ET) requested the Contractor (CSAJV) to provide necessary information for investigation on 9 November 2023, with following up on the supplementary information on 15 November 2023.

Contractor Response to the Complaint

Contractor have investigated the case and reported the environmental mitigation measures implemented before and after receiving the complaint.

Before the Complaint

1. Watering the haul road by both manpower and water bowser.
2. Covered the slope of the lower platform of the rock stockpile.

After the Complaint

More slope has been covered and the covering work will be continued.

Weekly Site Inspection

Weekly site inspection was conducted by the representative of ET, IEC, RSS and Contractor representative on 8 November 2023. According to ET's field observations, landslides from rock stockpile were not observed and no evidence to prove that the fugitive dust appeared from the rock stockpile was project related.

Corrective Action(s)

1. In view of public concerns, the Contractor was advised to water the haul road by both manpower and water bowser more frequently.
2. Cover the slope of the lower platform of the rock stockpile.

Preventive Action(s)

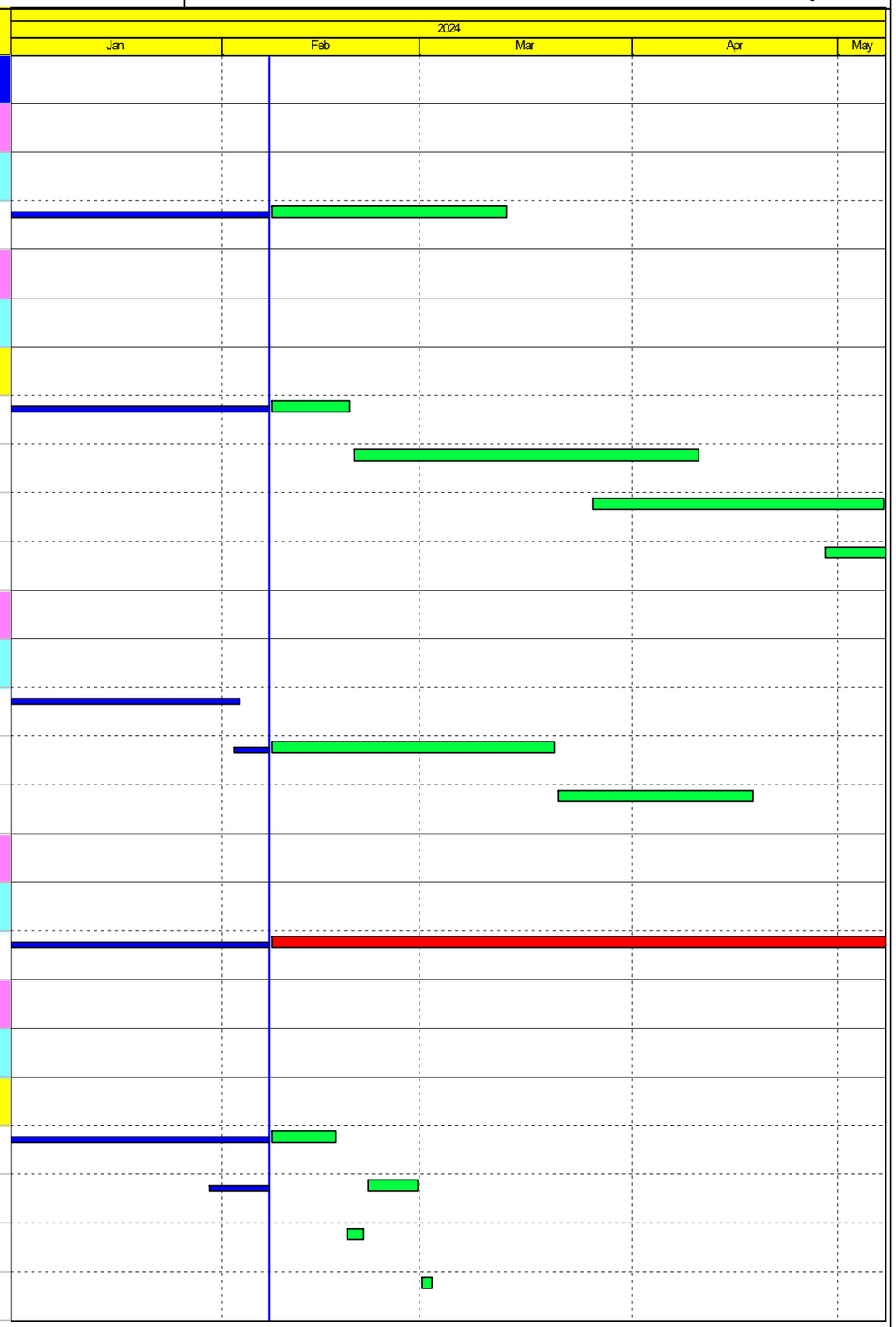
The Contractor was reminded to cover more slope and the covering work will be continued, and increase water spraying frequency for dust suppression particularly in dry season.

The ET will continue to carry out site inspections on a regular basis to check that appropriate environmental protection and pollution control mitigation measures are properly implemented in accordance with the environmental documents mentioned.

Appendix 8.1

Construction Programme of Individual Contracts

Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
DC/2020/05, Relocation of STST to Caverns - Main Caverns Construction					
CCEN, PMI & CE					
CCEN068 - delay of works due to Interpretation of Engineering Condition of WA3					
CCEN68-30	Under amendment of Noise Control Notice, no transportation happened on each Saturday from Cavern to P2	0%	24	02-Sep-23 A	13-Mar-24
Preliminary Works & Preparation Works					
Off-Site Fabrication for Cavern Complex					
Off-site Fabrication of Lining Shutter for Cavern Complex					
A20335	Subletting period	86%	4	08-Dec-23 A	19-Feb-24
A20340	Lining Shutter - Design preparation, review and accept by PM	0%	40	20-Feb-24	10-Apr-24
A20350	Lining Shutter - Place Order, Factory Fabrication and Delivery	0%	32	26-Mar-24	07-May-24
A20360	Lining Shutter - Assembling on site	0%	21	29-Apr-24	24-May-24
BIM Management [PS App 29.1]					
Proposal of Asset Information Requirements					
A24840	BIM - Proposal of Asset Information Requirement - PM review and comment	100%	0	24-Oct-23 A	03-Feb-24 A
A24850	BIM - Proposal of Asset Information Requirement - address PM's comment and resubmit	5%	30	03-Feb-24 A	20-Mar-24
A24860	BIM - Proposal of Asset Information Requirement - PM review and accept	0%	21	21-Mar-24	18-Apr-24
General Site Preparation Works					
Tree Preservation and Protection					
C1050	Preservation and Protection of Existing Trees	45%	854	05-Jul-21 A	07-Jan-27
Main Portal Area and Main Access Tunnel (MAT, MATE, MATW)					
Main Portal Area - Site Formation for Main Portal					
Main Portal Area - Soil Nail at Slope SMP5					
A25230	SMP5 - Excavation (24.5-20.5mpd)	55%	3	01-Dec-23 A	17-Feb-24
A25250	SMP5 - Soil Nail at 22.5mpd - (g1-17) - 17 nos.	30%	7	30-Jan-24 A	29-Feb-24
A25240	SMP5 - Soil Nail at 24.5mpd - (g18-23) - 6 nos.	0%	3	19-Feb-24	21-Feb-24
A25260	SMP5 - Soil Nail at 21.5mpd - (f48-51) - 3 nos.	0%	2	01-Mar-24	02-Mar-24



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Crit. Milestone

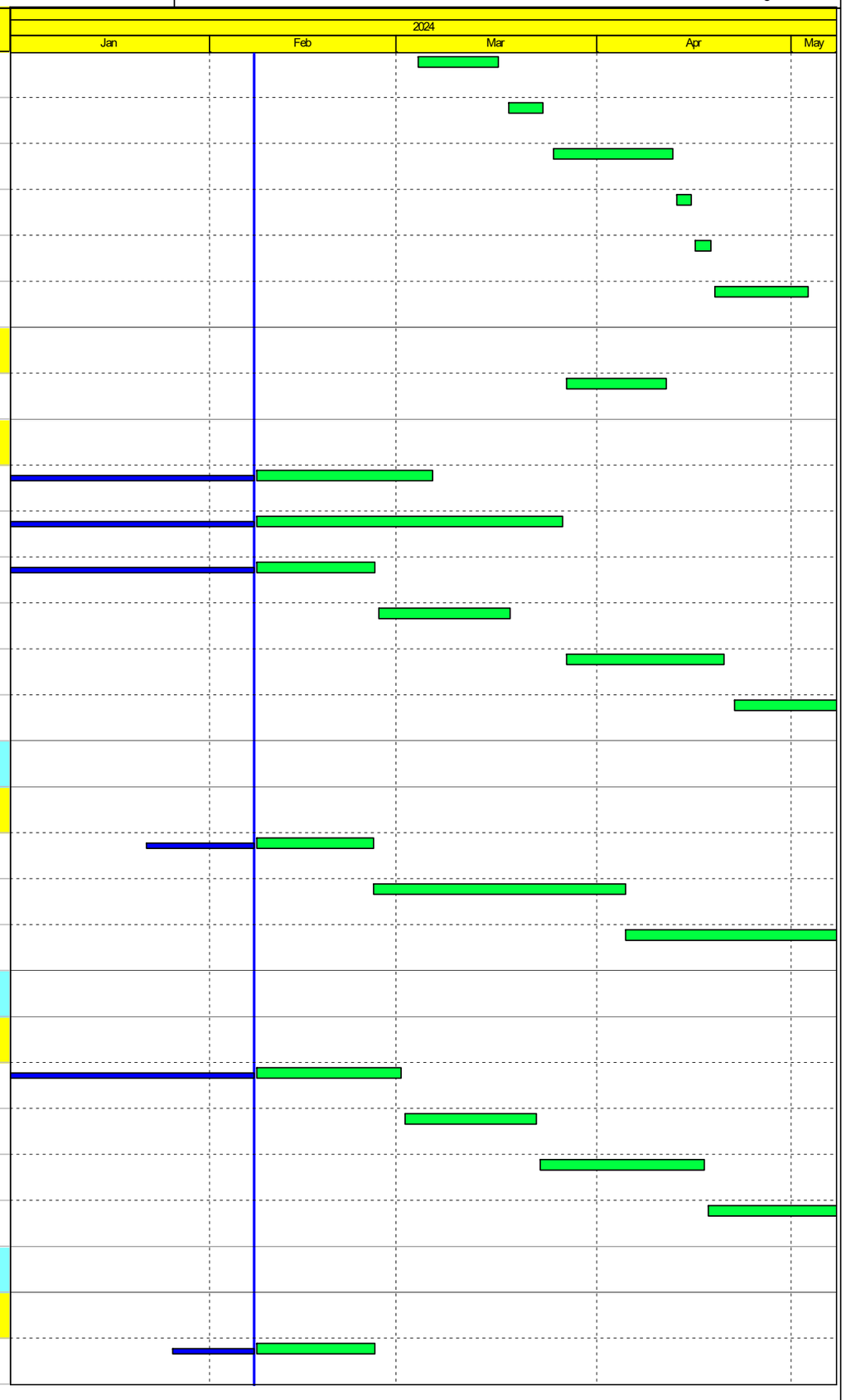
Project File: C2-MP008c-08Feb24
Layout: C2 - MPR - 3M Rolling Prog (submission)
Data Date: 08-Feb-24
Page 1 of 14

Contract No. DC/2020/05
Relocation of STST to Caverns - Main Caverns Construction

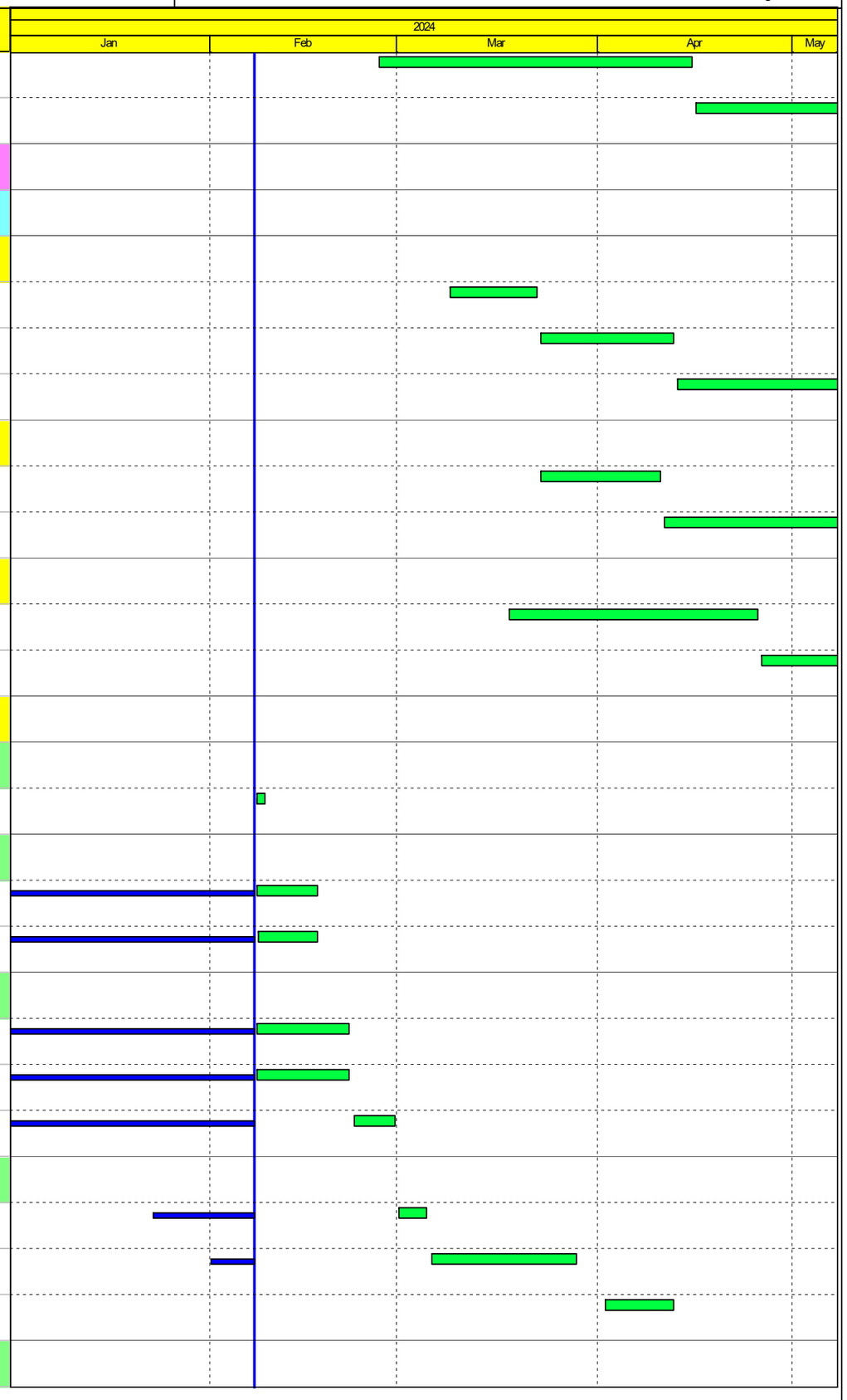
3 Months Rolling Programme (Feb to Apr 2024)

China State – Alchmex Joint Venture

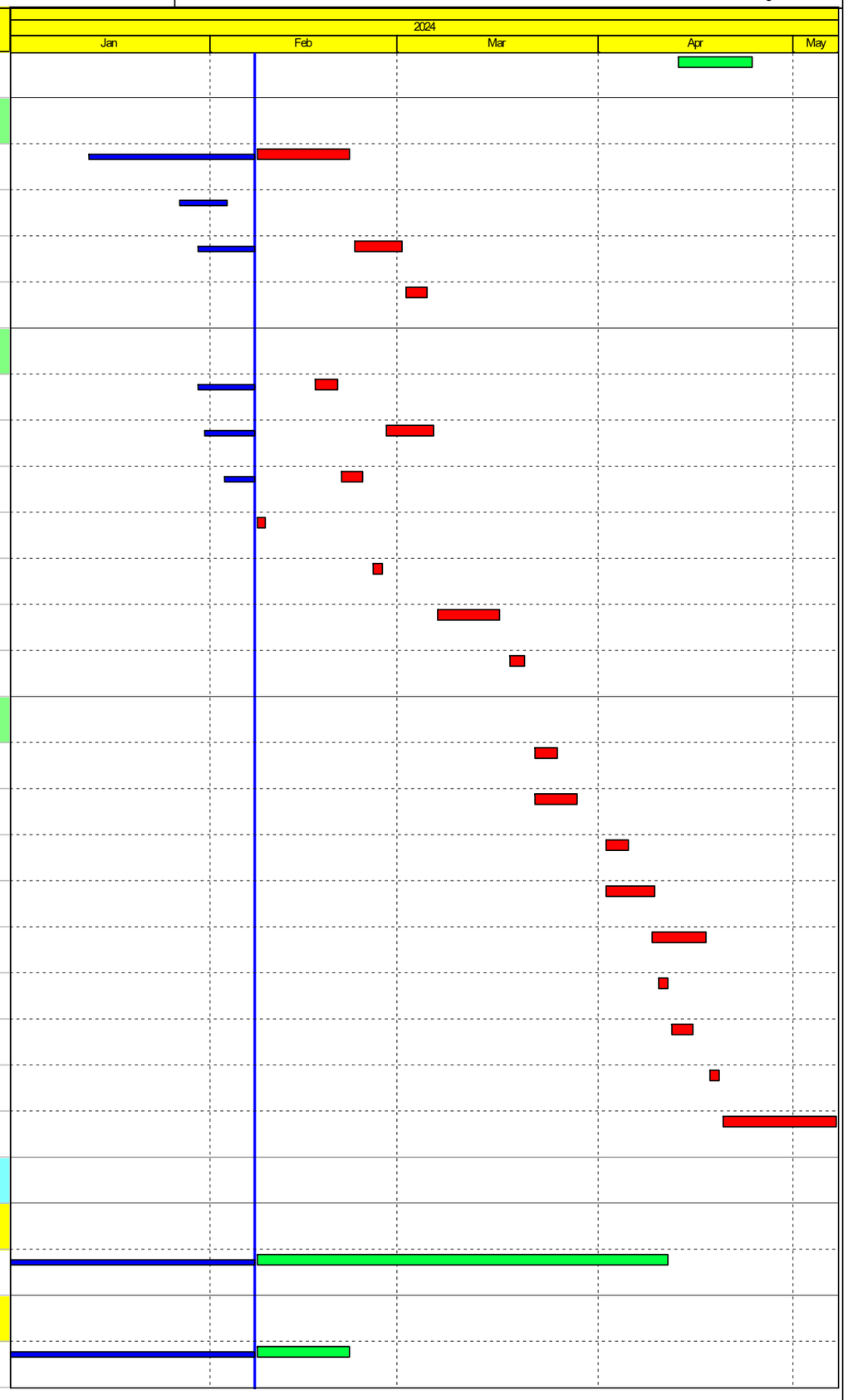
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
A25270	SMP5 - Soil Nail at 20.5mpd - (f1-47) - 47 nos.	0%	12	04-Mar-24	16-Mar-24
A25280	SMP5 - Excavation (20.5-16.5mpd)	0%	6	18-Mar-24	23-Mar-24
A25290	SMP5 - Soil Nail at 18.5mpd - (e1-52) - 52 nos.	0%	13	25-Mar-24	12-Apr-24
A25300	SMP5 - Soil Nail at 16.5mpd - (d48-50) - 3 nos.	0%	2	13-Apr-24	15-Apr-24
A25310	SMP5 - Excavation (16.5-12.5mpd)	0%	3	16-Apr-24	18-Apr-24
A25320	SMP5 - Soil Nail at 15.5mpd - (d1 - 47) - 47 nos.	0%	12	19-Apr-24	03-May-24
Main Portal Area - Soil Nail at Slope SMP4					
A11610	Main Portal West - Soil Nail at 26.5mpd (Bb19 - Bb23) - 5nos	0%	10	27-Mar-24	11-Apr-24
Main Portal Area - Retaining Wall RMP7					
A25220	RMP7 - Mass concrete at PL73	25%	18	16-Oct-23 A	06-Mar-24
A10650	RMP7 - Excavation & tie-back nail at (PL10-73)	50%	35	16-Oct-23 A	26-Mar-24
A10630	RMP7 - Excavation at (PL1-9)	55%	10	01-Dec-23 A	26-Feb-24
A25190	RMP7 - Skin wall and capping beam (PL1-9)	0%	18	27-Feb-24	18-Mar-24
A25200	RMP7 - Skin wall and capping beam (PL10-19)	0%	18	27-Mar-24	20-Apr-24
A25210	RMP7 - Skin wall and capping beam (PL20-73)	0%	60	22-Apr-24	04-Jul-24
Effluent Pipelines and Connection Chamber					
Effluent Pipeline - TBM Tunneling and Pipe Jacking					
A17265	Effluent Pipe - TBM for E101 - disassembly/retrieval	60%	10	22-Jan-24 A	26-Feb-24
A17270	Effluent Pipe - TBM Set up for E201	0%	30	26-Feb-24	05-Apr-24
A17280	Effluent Pipe - Pipe Jacking and install pipe for E201 (Ch718 - 386 @2m/d)	0%	166	05-Apr-24	24-Oct-24
Diversion of Steel Bridge					
Steel Bridge - Design Preparation, Submission, Approval					
A11670	Main Portal West - Steel Bridge - Design preparation and submission	50%	14	08-Sep-23 A	01-Mar-24
A11680	Main Portal West - Steel Bridge - PM 1st Comment	0%	18	02-Mar-24	22-Mar-24
A11690	Main Portal West - Steel Bridge - Design re-submission	0%	18	23-Mar-24	17-Apr-24
A11700	Main Portal West - Steel Bridge - Design approval	0%	18	18-Apr-24	09-May-24
Main Access Tunnel East (MATE)					
MAT - Overhead Ventilation Duct, Protected Corridor					
A16542-05	MAT - internal structure - preparation for footing construction (ch100 - 260)	80%	10	26-Jan-24 A	26-Feb-24



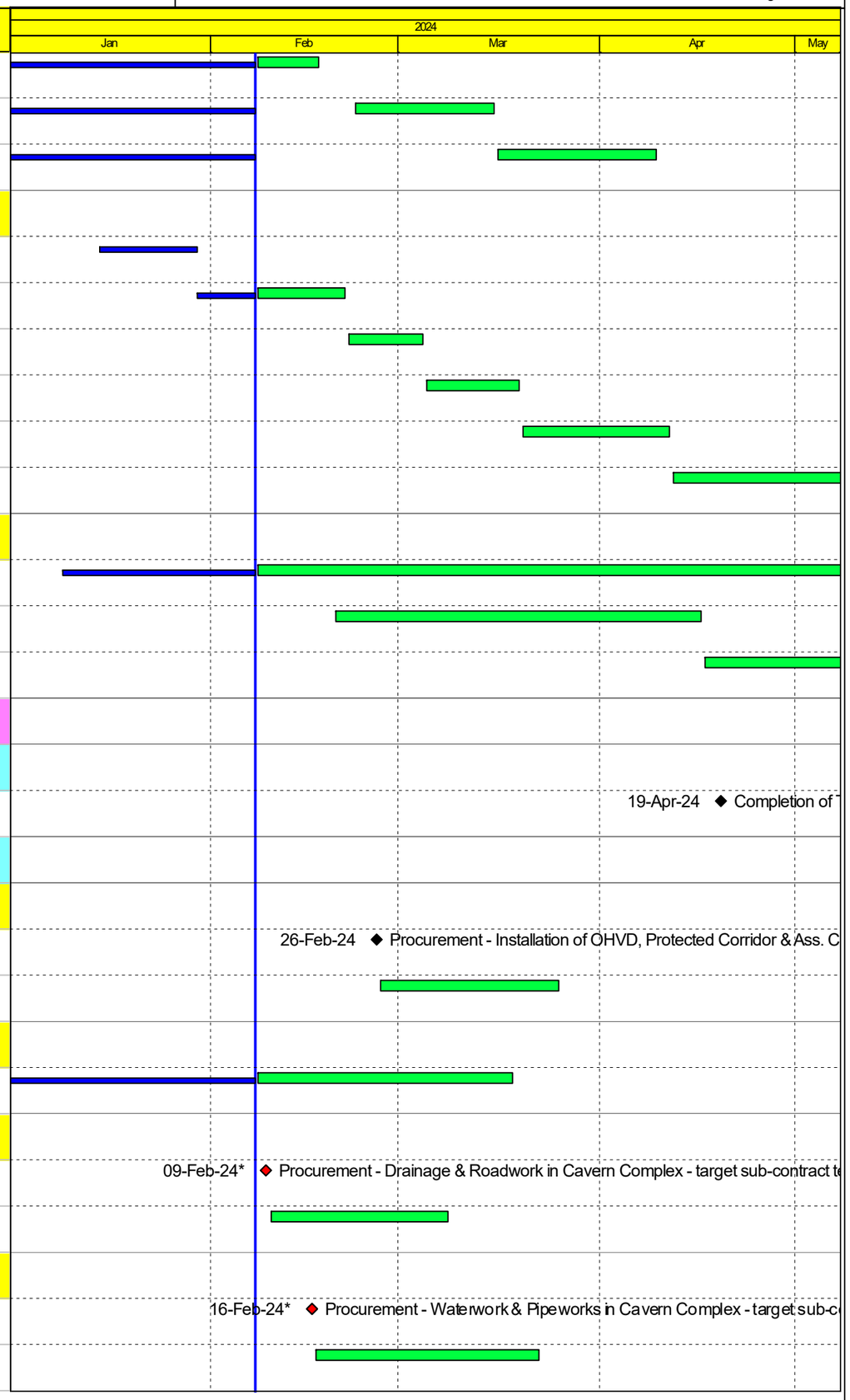
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
A16542-10	MAT - internal structure - footing (ch100 - 260) - (row near Press. Duct)	0%	38	27-Feb-24	15-Apr-24
A16542-20	MAT - internal structure - footing (ch100 - 260) - (middle row)	0%	31	16-Apr-24	23-May-24
Secondary Portal Area and Secondary Access Tunnel (SAT)					
Secondary Portal Area - Site Formation & Landscaping for Secondary Portal					
Secondary Portal Area - Soldier Pile Wall SP1					
A11200	Retaining Wall SP1 - Mobilization	0%	12	09-Mar-24	22-Mar-24
A11210	Retaining Wall SP1 - Construct r.c. retaining wall - base slab	0%	14	23-Mar-24	12-Apr-24
A11220	Retaining Wall SP1 - Construct r.c. retaining wall - stem wall	0%	26	13-Apr-24	14-May-24
Secondary Portal Area - Soldier Pile Wall SP2					
A11250	Soldier Pile Wall SP2 - Soldier Pile Wall SP2 - Mobilization	0%	12	23-Mar-24	10-Apr-24
A11260	Soldier Pile Wall SP2 - Prebored H-pile SP1-12 [12 nos.; 1 rig]	0%	40	11-Apr-24	29-May-24
Secondary Portal Area - Retaining Wall RW1					
A11160	RW1 - ELS for RW1	0%	30	18-Mar-24	25-Apr-24
A11170	RW1 - Excavation for RW1	0%	12	26-Apr-24	10-May-24
Secondary Portal Area - Slope SSP1 - Cut Slope and Soil Nail (+76mPD to +13.5mPD)					
Slope SSP1 - Stage 2 (+50mPD to +48.4mPD) [Area 1]					
A25720	Slope SSP1 - area 2 (50 to 48.4mPD) - lay erosion control mat & wire mesh for	70%	2	08-Feb-24 A	09-Feb-24
Slope SSP1 - Stage 2 (+48.4mPD to +40.9mPD) [Area 2]					
A25860	** Slope SSP1 - Stage2 - area 2 (48.4 to 40.9mPD) - construct u-channel & berm platform @+40.9mPD	90%	3	05-Aug-23 A	17-Feb-24
A25880	Slope SSP1 - Stage2 - area 2 (48.4 to 40.9mPD) - lay erosion control mat & wire mesh	80%	2	08-Sep-23 A	17-Feb-24
Slope SSP1 - Stage 2 (+40.9mPD to +33.4mPD) [Area 3]					
A25900	Slope SSP1 - Stage2 - area 3 (40.9 to 33.4mPD) - excavate to form slope profile	85%	7	04-Aug-23 A	22-Feb-24
A25890	Slope SSP1 - Stage2 - area 3 (40.9 to 33.4mPD) - drainage & access	98%	7	18-Aug-23 A	22-Feb-24
A25910	Slope SSP1 - Stage2 - area 3 (40.9 to 33.4mPD) - construct u-channel & beam platform @+33.4mPD	70%	6	11-Oct-23 A	29-Feb-24
Slope SSP1 - Stage 2 (+33.4mPD to +25.9mPD) [Area 4]					
A27120	===** Slope SSP1 - Stage2 - area 4 (33.4 to 25.9mPD) - drainage & access	50%	4	23-Jan-24 A	05-Mar-24
A27130	===Slope SSP1 - Stage2 - area 4 (33.4 to 25.9mPD) - excavate to form slope profile	15%	20	01-Feb-24 A	28-Mar-24
A27140	===Slope SSP1 - Stage2 - area 4 (33.4 to 25.9mPD) - construct u-channel & beam platform @+25.9mPD	0%	9	02-Apr-24	12-Apr-24
Slope SSP1 - Stage 1 (+25.9mPD to +19.5mPD) [Area 5]					



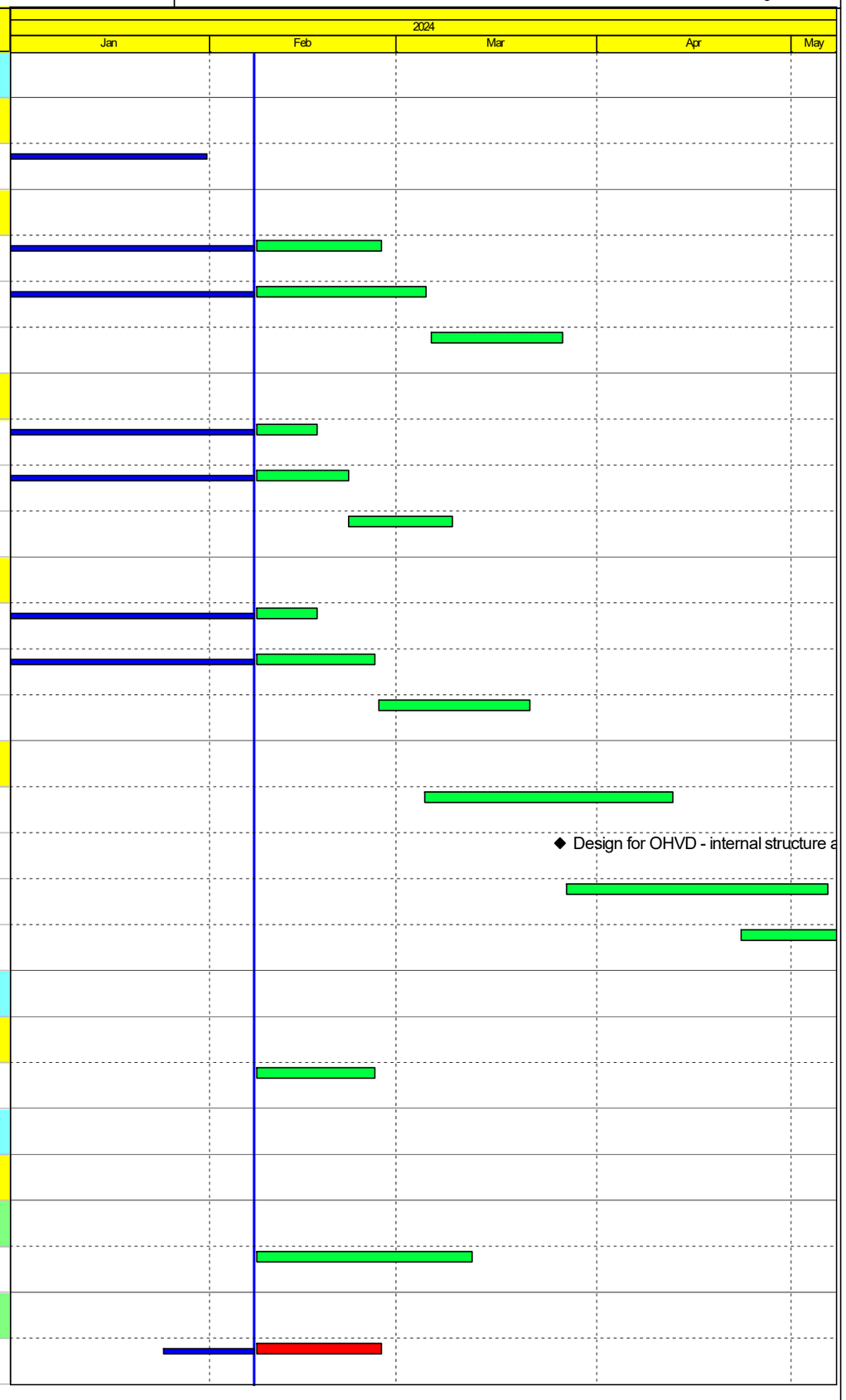
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
A27260	===Slope SSP1 - Stage1 - area 5 (25.9 to 19.5mPD) - construct u-channel & berm platform @+19.4mPD	0%	10	13-Apr-24	24-Apr-24
Slope SSP1 - Stage 3 (+63mPD to +55.9mPD) [Area 7]					
A26250	Slope SSP1 - Stage3 - area 7 (63 to 55.9mPD) - construct u-channel & berm platform @+55.9mPD	50%	7	13-Jan-24 A	22-Feb-24
A26210	Slope SSP1 - Stage3 - area 7 (63 to 55.9mPD) - soil nail works for N1 to N10 @+59.5mPD [10 nos.]	100%	0	27-Jan-24 A	03-Feb-24 A
A26255	Slope SSP1 - Stage3 - area 7 (63 to 55.9mPD) - construct soil nail head for Row O, N, M	20%	7	30-Jan-24 A	01-Mar-24
A26260	Slope SSP1 - Stage3 - area 7 (63 to 55.9mPD) - lay erosion control mat & wire mesh	0%	3	02-Mar-24	05-Mar-24
Slope SSP1 - Stage 3 (+55.9mPD to +48.4mPD) [Area 8]					
A26340	Slope SSP1 - Stage3 - area 8 (55.9 to 48.4mPD) - excavate for soil nail J1 to J25	30%	3	30-Jan-24 A	20-Feb-24
A26380	Slope SSP1 - Stage3 - area 8 (55.9 to 48.4mPD) - construct u-channel & berm platform @+48.4mPD	50%	7	31-Jan-24 A	06-Mar-24
A26350	Slope SSP1 - Stage3 - area 8 (55.9 to 48.4mPD) - soil nail works for J1 to J25 @+50mPD [25 nos.]	30%	4	03-Feb-24 A	24-Feb-24
A26320	Slope SSP1 - Stage3 - area 8 (55.9 to 48.4mPD) - install raking drain @+53.0mPD	0%	2	08-Feb-24	09-Feb-24
A26360	Slope SSP1 - Stage3 - area 8 (55.9 to 48.4mPD) - install raking drain @+50.0mPD	0%	2	26-Feb-24	27-Feb-24
A26385	Slope SSP1 - Stage3 - area 8 (55.9 to 48.4mPD) - construct soil nail head for Row J, K, L	0%	9	07-Mar-24	16-Mar-24
A26390	Slope SSP1 - Stage3 - area 8 (55.9 to 48.4mPD) - lay earth mat & wire mesh	0%	3	18-Mar-24	20-Mar-24
Slope SSP1 - Stage 3 (+48.4mPD to +40.9mPD) [Area 9]					
A26400	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - excavate for soil nail I1 to I27	0%	3	22-Mar-24	25-Mar-24
A26410	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - soil nail works for I1 to I27 @+54mPD [27 nos.]	0%	6	22-Mar-24	28-Mar-24
A26430	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - excavate for soil nail H1 to H29	0%	3	02-Apr-24	05-Apr-24
A26440	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - soil nail works for H1 to H29 @+44.5mPD [29 nos.]	0%	6	02-Apr-24	09-Apr-24
A26480	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - soil nail works for G1 to G30 @+42.5mPD [30 nos.]	0%	8	09-Apr-24	17-Apr-24
A26450	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - install raking drain @+45.5mPD	0%	2	10-Apr-24	11-Apr-24
A26470	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - excavate for soil nail G1 to G30	0%	3	12-Apr-24	15-Apr-24
A26490	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - install raking drain @+42.5mPD	0%	2	18-Apr-24	19-Apr-24
A26510	Slope SSP1 - Stage3 - area 9 (48.4mPD to 40.9mPD) - construct u-channel & berm platform @+40.9mPD	0%	14	20-Apr-24	07-May-24
Secondary Access Tunnel (SAT)					
SAT - General Works					
A20130	SAT - Application of CNP	15%	45	07-Mar-23 A	11-Apr-24
SAT - Hard Rock Excavation (Drill & Blast) (Ch187 - 388) - Top Heading					
B10052	SAT - Top Heading Permanent Sprayed Concrete (ch340-ch250; 90m)	62%	7	17-Apr-23 A	22-Feb-24



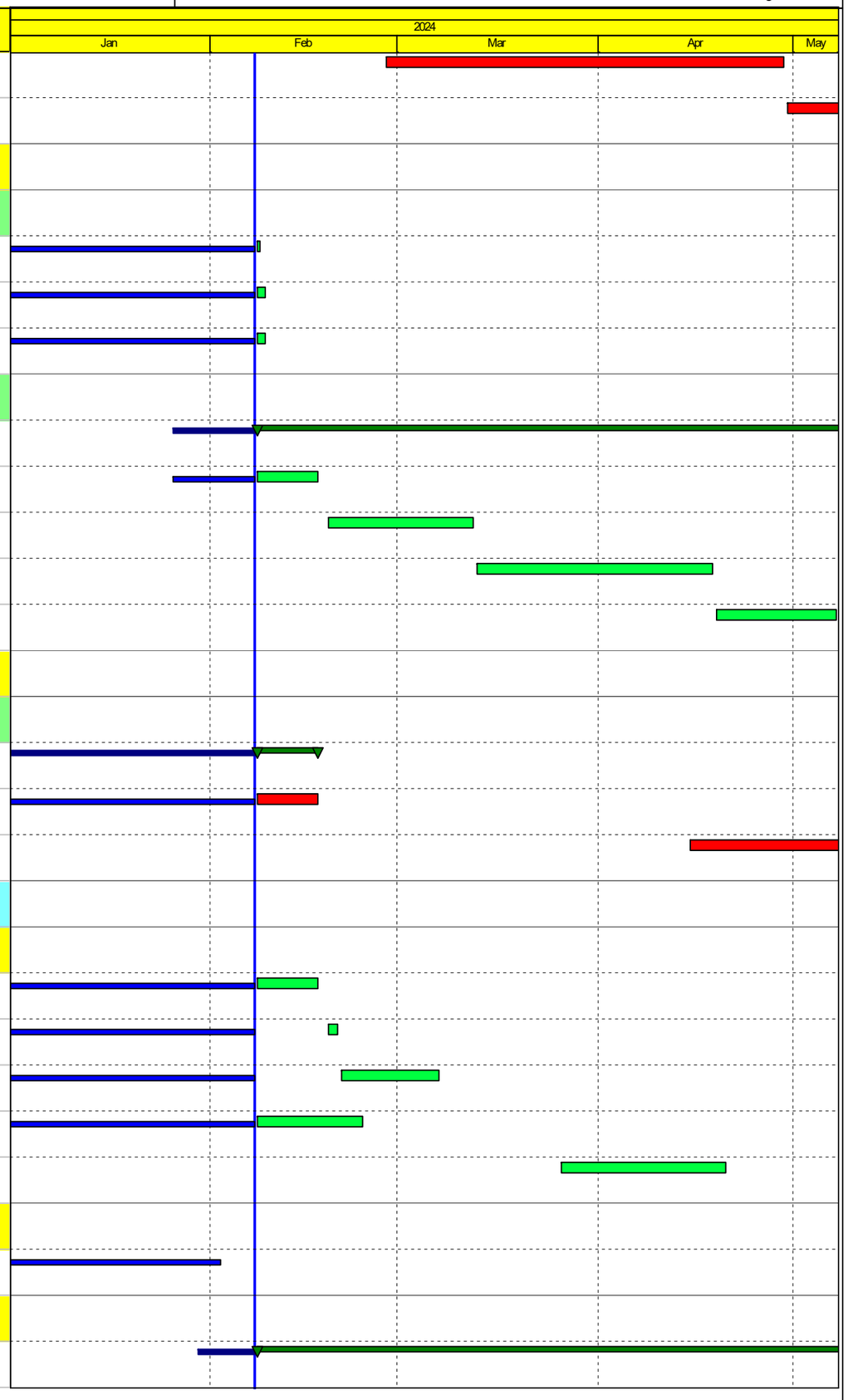
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
NT12220-2	SAT - (T) - Ch163.5 - 158.5, Mechanical Break & Steel Rib installation	95%	3	24-Nov-23 A	17-Feb-24
B10054	SAT - Top Heading Permanent Sprayed Concrete (ch250-ch195; 55m)	25%	19	27-Dec-23 A	15-Mar-24
B10056	SAT - Top Heading Permanent Sprayed Concrete (ch195-ch158; 37m)	8%	17	30-Dec-23 A	09-Apr-24
SAT - Hard Rock Excavation (Drill & Blast) (Ch187 - 388) - Bottom Bench					
NT12270	SAT - (B) - Ch343.9 - 303.4, 4.05m Pull, 10 blasts	100%	0	15-Jan-24 A	30-Jan-24 A
NT12280	SAT - (B) - Ch303.4 - 253.9, 4.95m Pull, 10 blasts	38%	6	30-Jan-24 A	21-Feb-24
NT12290	SAT - (B) - Ch253.9 - 218.9, 3.5m Pull, 10 blasts	0%	10	22-Feb-24	04-Mar-24
NT12300	SAT - (B) - Ch218.9 - 198.9, 2m Pull, 10 blasts	0%	13	05-Mar-24	19-Mar-24
NT12310	SAT - (B) - Ch198.9 - 185.4, 1.35m Pull, 10 blasts	0%	16	20-Mar-24	11-Apr-24
NT12320	SAT - (B) - Ch185.4 - 171.849, 1.13m Pull, 12 blasts	0%	30	12-Apr-24	18-May-24
SAT - Permanent Lining					
A12206	SAT - Permanent lining formwork procurement, fabrication and delivery	20%	103	09-Jan-24 A	21-Jun-24
A12202	SAT - Design submission of permanent lining formwork	0%	45	20-Feb-24	16-Apr-24
A12204	SAT - Design approval of permanent lining formwork	0%	18	17-Apr-24	08-May-24
Cavern Complex					
General					
A12550	Completion of Top Heading Blasting Works	0%	0		19-Apr-24
Cavern Complex - Procurement for Internal R.C. Structures & OHVD					
Procurement - Installation of OHVD, Protected Corridor and Associated Civil Structure					
A27040	Procurement - Installation of OHVD, Protected Corridor & Ass. Civil Structure - target sub-contract tender out	0%	0		26-Feb-24
A27050	Procurement - Installation of OHVD, Protected Corridor & Ass. Civil Structure - target award of sub-contract	0%	28	27-Feb-24	25-Mar-24
Procurement - OHVD Precast Fabrication & Delivery					
A27070	Procurement - OHVD Precast Fabrication & Delivery - target award of sub-contract	35%	40	30-Dec-23 A	18-Mar-24
Procurement - Drainage & Roadwork in Cavern & Tunnel					
A27080	Procurement - Drainage & Roadwork in Cavern Complex - target sub-contract tender out	0%	0		09-Feb-24*
A27090	Procurement - Drainage & Roadwork in Cavern Complex - target award of sub-contract	0%	28	10-Feb-24	08-Mar-24
Procurement - Waterwork & Pipeworks in Cavern & Tunnel					
A27100	Procurement - Waterwork & Pipeworks in Cavern Complex - target sub-contract tender out	0%	0		16-Feb-24*
A27110	Procurement - Waterwork & Pipeworks in Cavern Complex - target award of sub-contract	0%	35	17-Feb-24	22-Mar-24



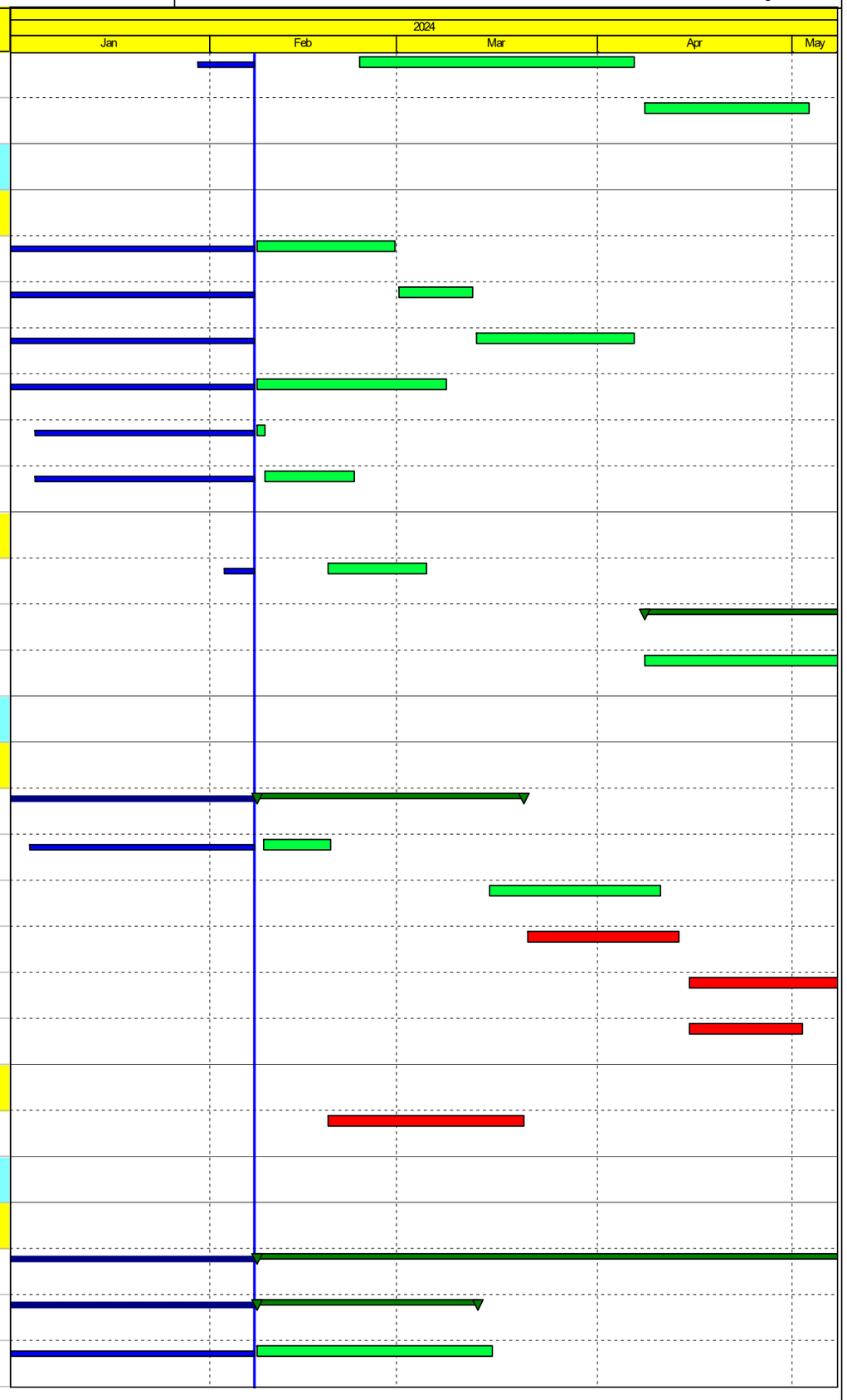
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
Cavern Complex - Design for Overhead Ventilation Duct (OHVD)					
Design - Typical BD Sections					
A26880	Design of Typical BD Sections - PM review DDA, address PM's comments, structurally no objection	100%	0	07-Aug-23 A	31-Jan-24 A
Design - Junctions of SD/BDs					
A26900	Design of Junctions of SD/BDs - PM review AIP, address PM's comments, grant AIP	88%	20	13-Jul-23 A	27-Feb-24
A26910	Design of Junctions of SD/BDs - prepare and submit DDA to PM	65%	27	02-Oct-23 A	05-Mar-24
A26920	Design of Junctions of SD/BDs - PM review DDA, address PM's comments, structurally no objection	0%	21	06-Mar-24	26-Mar-24
Design - Junctions of MAT/MATE/MATW and MAT/BD					
A26940	Design of Junctions of MAT/MATE/MATW & MAT/BD - PM review AIP, address PM's comments, grant AIP	75%	10	22-Aug-23 A	17-Feb-24
A26950	Design of Junctions of MAT/MATE/MATW & MAT/BD - prepare and submit DDA to PM	65%	15	02-Oct-23 A	22-Feb-24
A26960	Design of Junctions of MAT/MATE/MATW & MAT/BD - PM review DDA, address PM's comments, structurally no objection	0%	16	22-Feb-24	09-Mar-24
Design - Junctions of BD/CAVs					
A26990	Design of Junctions of BD/CAVs - PM review AIP, address PM's comments, grant AIP	65%	10	26-Aug-23 A	17-Feb-24
A27000	Design of Junctions of BD/CAVs - prepare and submit DDA to PM	55%	19	02-Oct-23 A	26-Feb-24
A27010	Design of Junctions of BD/CAVs - PM review DDA, address PM's comments, structurally no objection	0%	24	27-Feb-24	21-Mar-24
Design - OHVD Design Final Review					
A16484	Design for OHVD - prepare method statement and shop drawings (above ground)	0%	30	05-Mar-24	12-Apr-24
A16482	Design for OHVD - internal structure and OHVD installation contractor on-board	0%	0	26-Mar-24	
A16500	Design for OHVD - Prepare and submit design review (above ground)	0%	30	27-Mar-24	06-May-24
A16510	Design for OHVD - PM comment and accept final design review	0%	28	23-Apr-24	20-May-24
Main Access Tunnel, MAT (ch288 - 297)					
MAT - Hard Rock Excavation (Drill & Blast) - Bottom Bench					
PA14410	MAT - Bottom Permanent Support - (R103, Ch288 - 297) - Bolt and spray concrete [9m]	0%	10	08-Feb-24	26-Feb-24
Main Driveway MD					
Main Driveway MD - Zone 1 (ch123 - 213)					
MD - Zone 1 - Hard Rock Excavation (Drill & Blast) - Bottom Bench					
PA14511	MD - Zone 1 - Bottom Permanent Support - (MD, ch123 - 213) - Bolt and spray concrete [90m] - Stage 2	0%	23	08-Feb-24	12-Mar-24
MD - Zone 1 - Overhead Ventilation Duct, Protected Corridor and Emergency Bypass					
A16612-05	----- MD - Zone 1 - preparation works for footing construction	0%	11	25-Jan-24 A	27-Feb-24



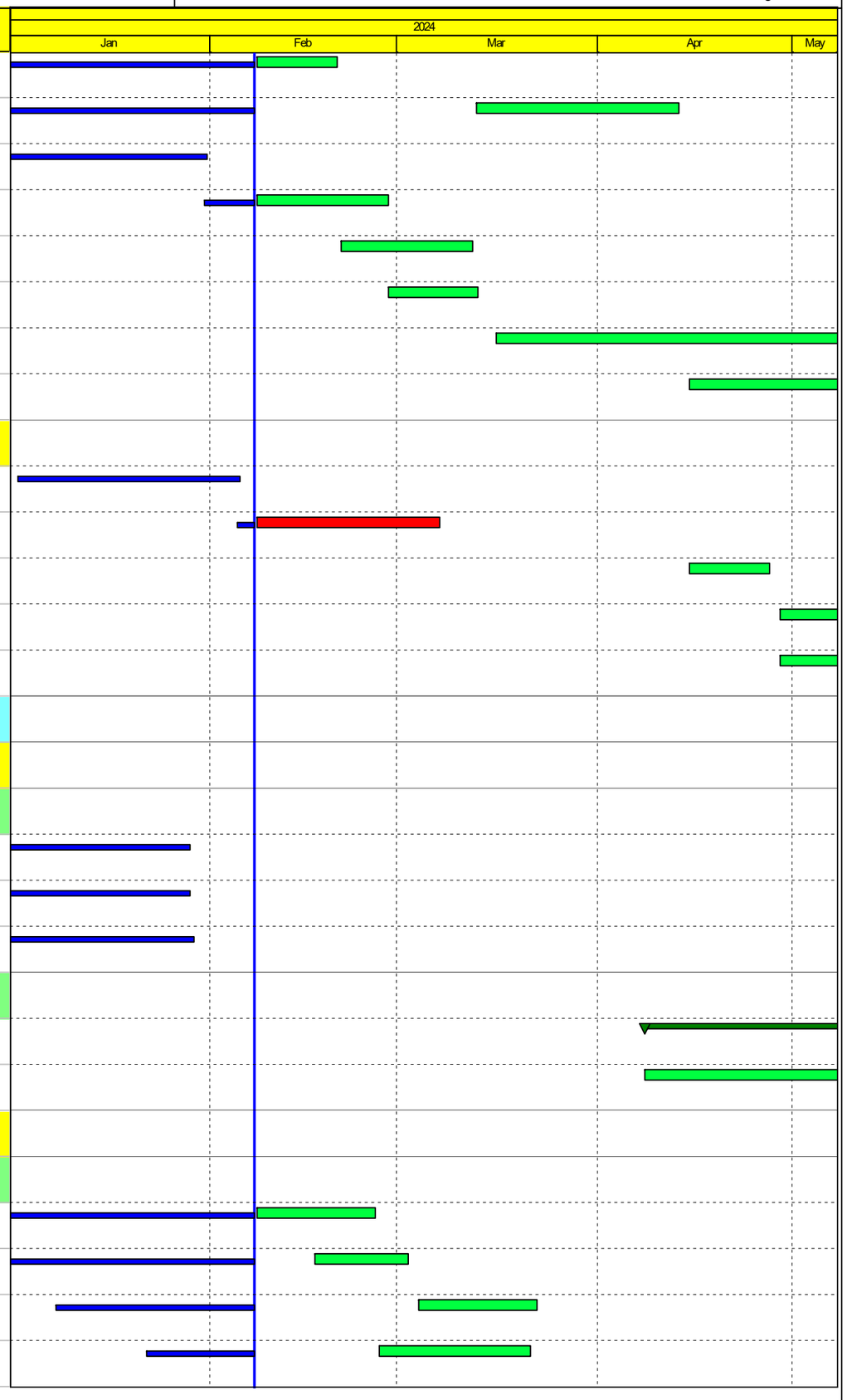
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
A16612-10	----- MD - Zone 1 - Internal Structure - footings (ch100-233) (near Press. Duct)	0%	49	28-Feb-24	29-Apr-24
A16612-20	----- MD - Zone 1 - Internal Structure - footings (ch100-233) (near Em. Bypass)	0%	33	30-Apr-24	08-Jun-24
Main Driveway MD - Zone 2 (ch213 - 392)					
MD - Zone 2 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14520-10	MD - Zone 2 - Top Permanent Support - (ch239 - 281; 42m) - Bolt and spray concrete - Stage 2	94%	1	27-Mar-23 A	08-Feb-24
PA14520-20	MD - Zone 2 - Top Permanent Support - (ch281 - 337; 56m) - Bolt and spray concrete - Stage 2	93%	2	28-Aug-23 A	09-Feb-24
PA14520-30	MD - Zone 2 - Top Permanent Support - (ch337 - 392; 55m) - Bolt and spray concrete [55m] - Stage 2	93%	2	28-Aug-23 A	09-Feb-24
MD - Zone 2 - Hard Rock Excavation (Drill & Blast) - Bottom Bench					
PA14530	MD - Zone 2 - Bottom Permanent Support - (MD, ch226 - 392) - Bolt and spray concrete [165.3m] - Stage 1	0%	98	26-Jan-24 A	15-Jun-24
NT10960	MD(B) - Zone 2 - Ch213 - 240.9, -4.65m Pull, 6 blasts	41%	3	26-Jan-24 A	17-Feb-24
NT10970	MD(B) - Zone 2 - Ch240.9 - 279.4, -3.85m Pull, 10 blasts	0%	20	19-Feb-24	12-Mar-24
NT10980	MD(B) - Zone 2 - Ch279.4 - 349.405, -2.5m Pull, 28 blasts	0%	28	13-Mar-24	18-Apr-24
NT10990	MD(B) - Zone 2 - Ch349.405 - 379.4, -2m Pull, 15 blasts	0%	15	19-Apr-24	07-May-24
Main Driveway MD - Zone 3 (ch392 - 480)					
MD - Zone 3 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14540	MD - Zone 3 - Top Permanent Support - (MD, ch408 - 480) - Bolt and spray concrete [72m] - Stage 1	88%	3	27-Jan-23 A	17-Feb-24
NT10920	MD(T RHS) - Zone 3 - Ch455.6 - 479.6, -1.2m Pull, 20 blasts	70%	3	02-Nov-23 A	17-Feb-24
PA14541	MD - Zone 3 - Top Permanent Support - (MD, ch408 - 450) - Bolt and spray concrete [42m] - Stage 2	0%	24	15-Apr-24	13-May-24
Branch Driveway BD4					
BD4 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14420-10	BD4 - Top Permanent Support - Bolt and spray concrete (ch119-180) [61m] - Stage 2	100%	3	08-Feb-23 A	17-Feb-24
PA14420-12	BD4 - Top Permanent Support - Bolt and spray concrete (ch180-200) [20m] - Stage 2	94%	2	08-Feb-23 A	20-Feb-24
PA14420-20	BD4 - Top Permanent Support - Bolt and spray concrete (ch200-ch250) [50m] - Stage 2	75%	13	10-Apr-23 A	07-Mar-24
PA14420-40	BD4 - Top Permanent Support - Bolt and spray concrete (ch419-ch430) [11m] - Stage 2	84%	9	19-Jun-23 A	24-Feb-24
PA14420-30	BD4 - Top Permanent Support - Bolt and spray concrete (ch358-ch419) [61m] - Stage 2	0%	19	26-Mar-24	20-Apr-24
BD4 - Hard Rock Excavation (Drill & Blast) - Middle Bench					
NT10080	MAT(B) ch288-297, -4.5m Pull, 6 blasts	100%	0	09-Oct-23 A	02-Feb-24 A
BD4 - Hard Rock Excavation (Drill & Blast) - Bottom Bench					
PA14430	BD4 - Bottom Permanent Support - Bolt and spray concrete - Stage 1	0%	132	30-Jan-24 A	26-Jul-24



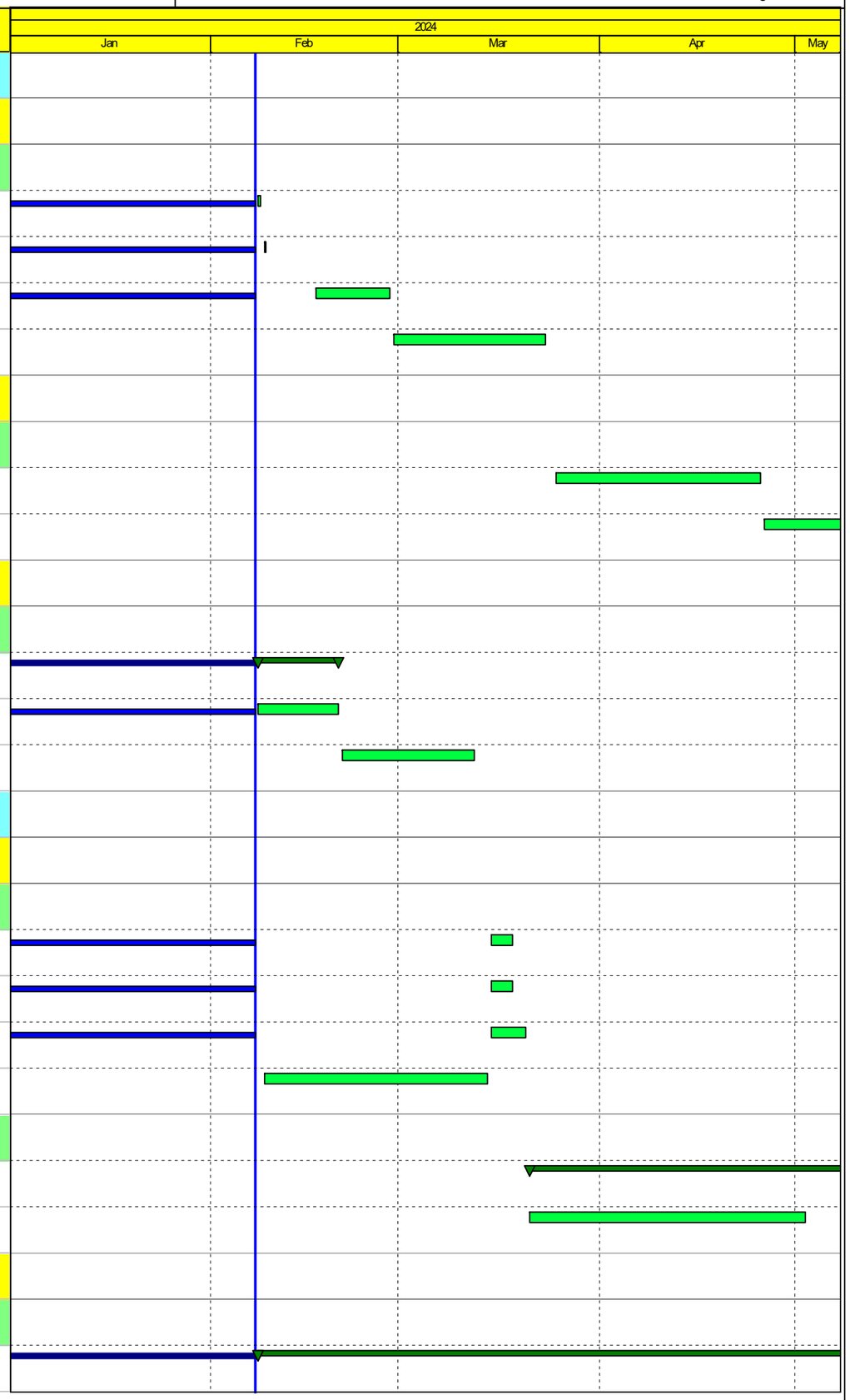
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
NT10100	BD4(B) - Ch150 - 205, -5m Pull, 11 blasts	27%	33	30-Jan-24 A	06-Apr-24
NT10110	BD4(B) - Ch205 - 260, -5m Pull, 11 blasts	0%	22	08-Apr-24	03-May-24
Branch Driveway BD3					
BD3 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14440-20	BD3 - Top Permanent Support - Bolt and spray concrete (ch205-ch300) [95m] - Stage 2	40%	13	15-May-23 A	29-Feb-24
PA14440-22	BD3 - Top Permanent Support - Bolt and spray concrete (ch300-ch318, ch350-358) [26m] - Stage 2	78%	10	15-May-23 A	12-Mar-24
PA14440-24	BD3 - Top Permanent Support - Bolt and spray concrete (ch318-ch350) [32m] - Stage 2	38%	18	15-May-23 A	06-Apr-24
PA14440-32	BD3 - Top Permanent Support - Bolt and spray concrete (ch412-ch444) [32m] - Stage 2	0%	20	04-Sep-23 A	08-Mar-24
PA14440-14	BD3 - Top Permanent Support - Bolt and spray concrete (ch150-ch180) [30m] - Stage 2	86%	2	05-Jan-24 A	09-Feb-24
PA14440-16	BD3 - Top Permanent Support - Bolt and spray concrete (ch180-ch205) [30m] - Stage 2	73%	5	05-Jan-24 A	23-Feb-24
BD3 - Hard Rock Excavation (Drill & Blast) - Bottom Bench					
NT10240	BD3(B) - Ch124 - 151.5, -4.58m Pull, 6 blasts	22%	14	03-Feb-24 A	05-Mar-24
PA14450	Permanent Support (Bolt and spray concrete) (BD3 - Bottom) - Stage 1	0%	77	08-Apr-24	10-Jul-24
NT10250	BD3(B) - Ch151.5 - 206.5, -5m Pull, 11 blasts	0%	33	08-Apr-24	17-May-24
Branch Driveway BD2					
BD2 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14460	BD2 - Top Permanent Support - Bolt and spray concrete - Stage 1	85%	30	30-Jan-23 A	20-Mar-24
NT10340-1	BD2(T-MB) - Ch292 - 250, -5m Pull, 8 blasts [JV SF]	72%	3	04-Jan-24 A	19-Feb-24
PA14460-14	BD2 - Top Permanent Support - Bolt and spray concrete (ch250-260, ch292-358) [76m] - Stage 2	0%	19	15-Mar-24	10-Apr-24
PA14460-10	BD2 - Top Permanent Support - Bolt and spray concrete (ch100-125, trim above MD) [25m] - Stage 2	0%	17	21-Mar-24	13-Apr-24
PA14460-20	BD2 - Top Permanent Support - Bolt and spray concrete (ch358-444) [86m] - Stage 2	0%	40	15-Apr-24	01-Jun-24
PA14460-11	BD2 - Top Permanent Support - Bolt and spray concrete (ch125-150) [25m] - Stage 2	0%	15	15-Apr-24	02-May-24
BD2 - Trimming Blast Excavation above MD - Top Heading					
NT10450	BD2/MD(Trim) - BD2 Ch100-125, -4.94m Pull, 9 blasts	0%	27	19-Feb-24	20-Mar-24
Branch Driveway BD1					
BD1 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14480	BD1 - Top Permanent Support - Bolt and spray concrete- Stage 1 (Ch100-234)	60%	169	04-Oct-23 A	07-Sep-24
PA14970	BD1 - Top Permanent Support - Bolt and spray concrete- Stage 1 (Ch234-340)	0%	24	01-Dec-23 A	13-Mar-24
NT10470	BD1(T) - Ch251 - 141.2, -5m Pull, 17 blasts [BDrill - stg.3a]	50%	26	08-Dec-23 A	15-Mar-24



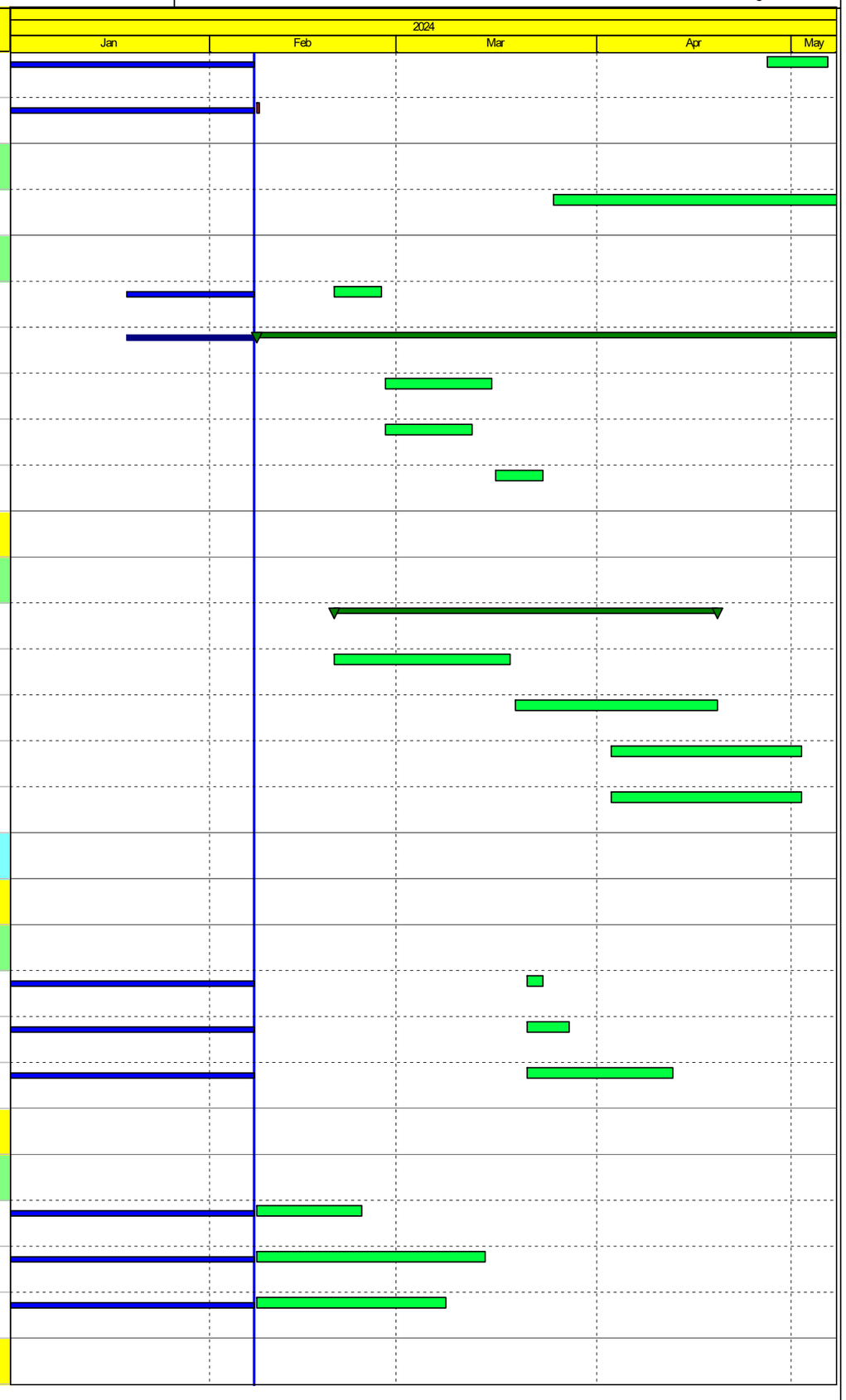
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
PA15000	BD1 - Top Permanent Support - Bolt and spray concrete (Ch340-384 LHS; 44m) - Stage 2	90%	5	20-Dec-23 A	20-Feb-24
PA14980	BD1 - Top Permanent Support - Bolt and spray concrete (Ch234-340 LHS; 106m) - Stage 2	20%	24	20-Dec-23 A	13-Apr-24
NT10520	BD1(T) - Ch293 - 315.5, -4.5m Pull, 5 blasts [JV]	100%	0	22-Dec-23 A	31-Jan-24 A
NT10510	BD1(T) - Ch261.5 - 293, -4.5m Pull, 7 blasts [JV]	16%	12	31-Jan-24 A	28-Feb-24
PA15002	BD1 - Top Permanent Support - Bolt and spray concrete (Ch340-384 RHS; 44m) - Stage 2	0%	18	21-Feb-24	12-Mar-24
NT10500	BD1(T) - Ch234.5 - 261.5, -4.5m Pull, 6 blasts [JV]	0%	12	28-Feb-24	13-Mar-24
NT10480	BD1(T) - Ch141.2 - 100, -2m Pull, 22 blasts [BDrill - stg.3b]	0%	66	16-Mar-24	07-Jun-24
PA15050	BD1 - Top Permanent Support - Bolt and spray concrete (Ch234-340 RHS; 106m) - Stage 2	0%	30	15-Apr-24	21-May-24
BD1 - Hard Rock Excavation (Drill & Blast) - Middle Bench					
NT10610	BD1(MB LHS) - Ch370.65 - 402.15, -4.5m Pull, 7 blasts [SF]	100%	0	02-Jan-24 A	05-Feb-24 A
NT10600	BD1(MB LHS) - Ch347 - 370.65, -3.94m Pull, 6 blasts [SF]	5%	19	05-Feb-24 A	07-Mar-24
NT10590	BD1(MB LHS) - Ch293 - 347, -4.5m Pull, 12 blasts [JV]	0%	12	15-Apr-24	27-Apr-24
NT10580	BD1(MB) - Ch225.5 - 293, -4.5m Pull, 15 blasts [BDrill]	0%	15	29-Apr-24	17-May-24
NT12600	BD1(MB RHS) - Ch429.8 - 443.5, -4.57m Pull, 3 blasts [SF]	0%	12	29-Apr-24	13-May-24
Cavern 1 - DAF1, MBBR1, PST1					
Cavern 1 - DAF1					
Cavern 1 - DAF1 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14560-30	CAV1 - DAF1 - Top Permanent Support - Bolt and spray concrete (ch145-ch160) [15m]- Stage 2	100%	0	17-Apr-23 A	29-Jan-24 A
PA14560-40	CAV1 - DAF1 - Top Permanent Support - Bolt and spray concrete (ch160-ch190) [30m]- Stage 2	100%	0	17-Apr-23 A	29-Jan-24 A
PA14560-20	CAV1 - DAF1 - Top Permanent Support - Bolt and spray concrete (ch130-ch145) [15m]- Stage 2	100%	0	15-May-23 A	29-Jan-24 A
Cavern 1 - DAF1 - Hard Rock Excavation (Drill & Blast) - Bottom Bench					
PA14570	CAV1 - DAF1 - Bottom Permanent Support - DAF1 - Bolt and spray concrete [90.2m]-stage 1	0%	63	08-Apr-24	22-Jun-24
NT11150	CAV1 - DAF1(B) - Ch190.21 - 146.5, 4.37m Pull, 10 blasts	0%	30	08-Apr-24	13-May-24
Cavern 1 - MBBR1					
Cavern 1 - MBBR1 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14580-40	CAV1 - MBBR1 - Top Permanent Support - Bolt and spray concrete (ch230-ch272) [42m] - stage 2	94%	10	19-Jun-23 A	26-Feb-24
PA14580-10	CAV1 - MBBR1 - Top Permanent Support - Bolt and spray concrete (ch100-ch150) [50m] - stage 2	35%	13	18-Dec-23 A	02-Mar-24
PA14580-20	CAV1 - MBBR1 - Top Permanent Support - Bolt and spray concrete (ch150-ch190) [40m] - stage 2	32%	17	08-Jan-24 A	22-Mar-24
PA14580-30	CAV1 - MBBR1 - Top Permanent Support - Bolt and spray concrete (ch190-ch230) [40m] - stage 2	15%	21	22-Jan-24 A	21-Mar-24



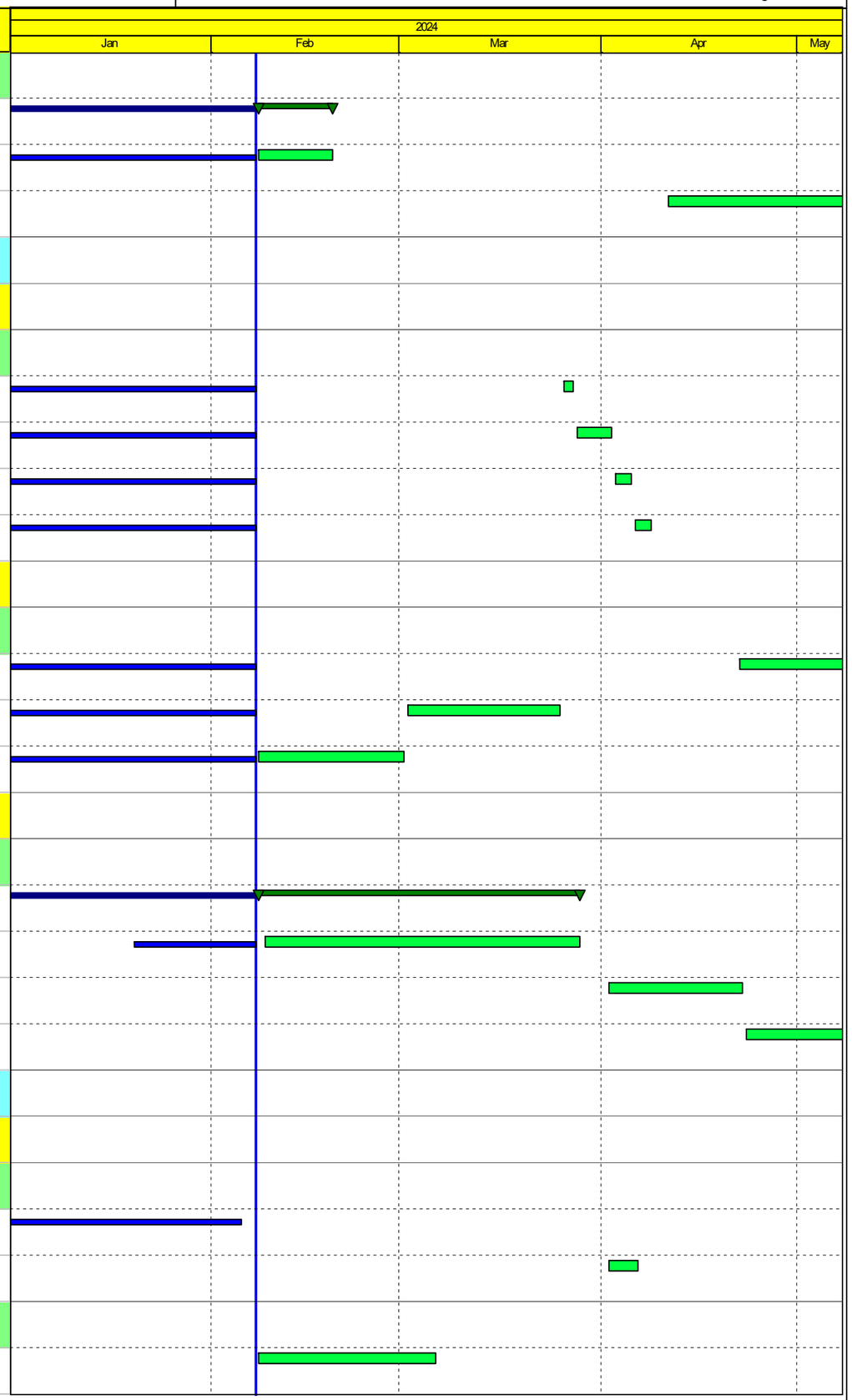
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
Cavern 2 - DAF2, MBBR2, PST2					
Cavern 2 - DAF2					
Cavern 2 - DAF2 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14620-20	CAV2 - DAF2 - Top Permanent Support - Bolt and spray concrete (ch172-ch154) [18m]- Stage 2	98%	1	11-Apr-23 A	08-Feb-24
PA14620-30	CAV2 - DAF2 - Top Permanent Support - Bolt and spray concrete (ch154-ch136) [18m]- Stage 2	95%	1	11-Apr-23 A	09-Feb-24
PA14620-40	CAV2 - DAF2 - Top Permanent Support - Bolt and spray concrete (ch136-ch118) [18m]- Stage 2	88%	10	11-Apr-23 A	28-Feb-24
PA14620-50	CAV2 - DAF2 - Top Permanent Support - Bolt and spray concrete (ch118-ch100) [18m]- Stage 2	0%	21	29-Feb-24	23-Mar-24
Cavern 2 - MBBR2					
Cavern 2 - MBBR2 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14640-10	CAV2 - MBBR2 - Top Permanent Support - Bolt and spray concrete (ch100-ch144 LHS) [44m]- Stage 2	0%	24	25-Mar-24	25-Apr-24
PA14640-12	CAV2 - MBBR2 - Top Permanent Support - Bolt and spray concrete (ch100-ch144 RHS) [44m]- Stage 2	0%	18	26-Apr-24	18-May-24
Cavern 2 - PST2					
Cavern 2 - PST2 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14660	CAV2 - PST2 - Top Permanent Support - Bolt and spray concrete - Stage 1	0%	5	15-Nov-23 A	20-Feb-24
NT11300	CAV2 - PST2(T) - Ch136.2 - 99.85, 4.54m Pull, 8 blasts	87%	5	12-Dec-23 A	20-Feb-24
NT11310	CAV2 - PST2(T LHS) - Ch99.85 - 72.35, 4.58m Pull, 6 blasts	0%	18	21-Feb-24	12-Mar-24
Cavern 3 - ELC2, STC, ELC1					
Cavern 3 - ELC2					
Cavern 3 - ELC2 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14680-10	CAV3 - ELC2 - Top Permanent Support - Bolt and spray concrete (ch190-167.5) [22.5m]- Stage 2	75%	3	27-Mar-23 A	18-Mar-24
PA14680-20	CAV3 - ELC2 - Top Permanent Support - Bolt and spray concrete (ch167.5-ch145) [22.5m]- Stage 2	75%	3	15-May-23 A	18-Mar-24
PA14680-30	CAV3 - ELC2 - Top Permanent Support - Bolt and spray concrete (ch145-ch122.5) [22.5m]- Stage 2	60%	5	15-May-23 A	20-Mar-24
PA14680-40	CAV3 - ELC2 - Top Permanent Support - Bolt and spray concrete (ch122.5-100) [22.5m]- Stage 2	0%	24	09-Feb-24	14-Mar-24
Cavern 3 - ELC2 - Hard Rock Excavation (Drill & Blast) - Bottom Bench					
PA14690	CAV3 - ELC2 - Bottom Permanent Support - Bolt and spray concrete [90.2m]- Stage 1	0%	66	21-Mar-24	13-Jun-24
NT11590	Cav3-ELC2(B) - Ch190.21 - 145.4, 4.48m Pull, 10 blasts	0%	32	21-Mar-24	02-May-24
Cavern 3 - STC					
Cavern 3 - STC - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14700	CAV3 - STC - Top Permanent Support - Bolt and spray concrete - Stage 1	40%	98	20-Feb-23 A	15-Jun-24



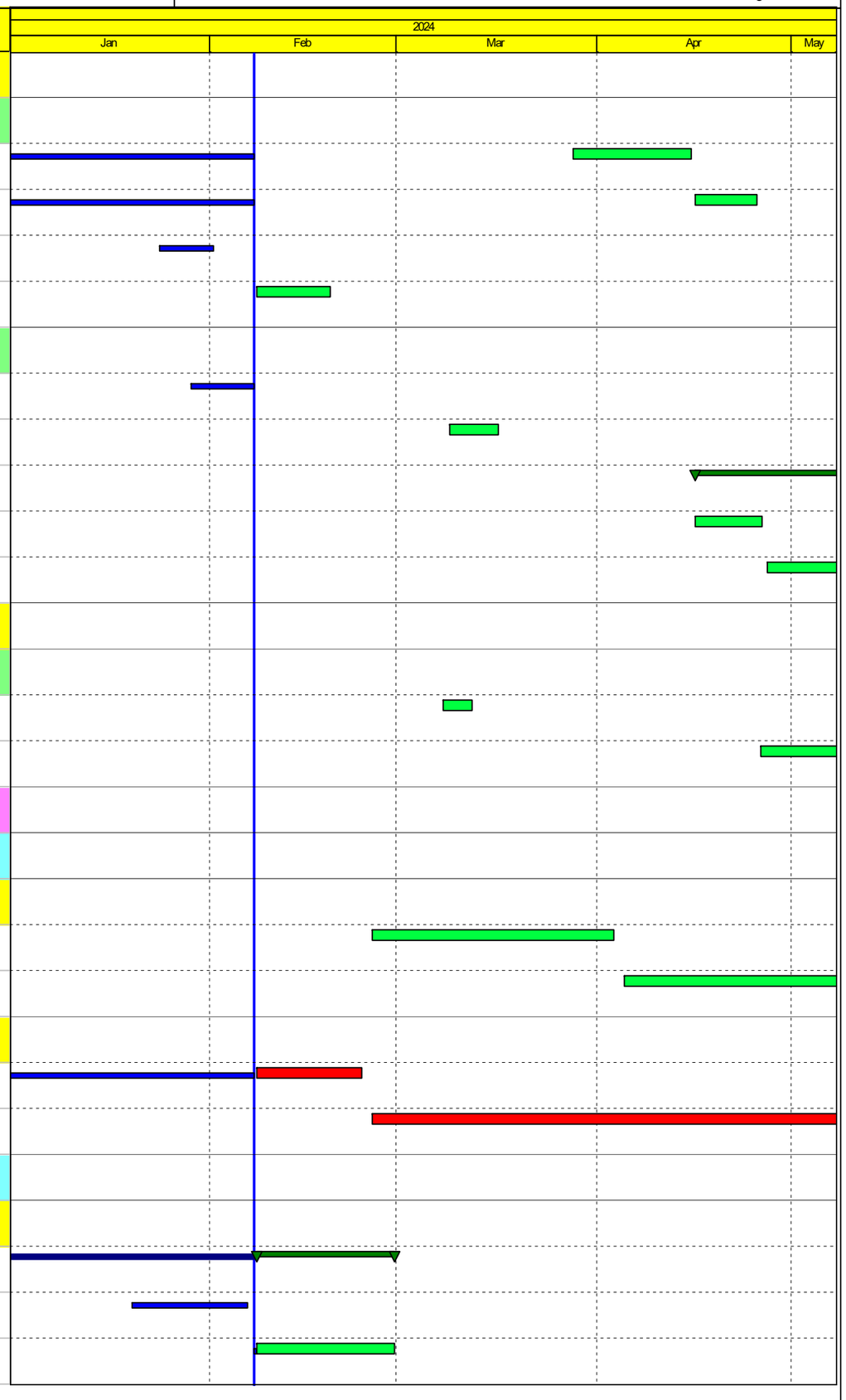
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
PA14700-20	CAV3 - STC - Top Permanent Support - Bolt and spray concrete (ch175-ch196) [21m] - Stage 2	15%	7	16-Oct-23 A	06-May-24
PA14700-10	CAV3 - STC - Top Permanent Support - Bolt and spray concrete (ch100-ch175) [75m] - Stage 2	98%	1	27-Oct-23 A	08-Feb-24
Cavern 3 - STC - Hard Rock Excavation (Drill & Blast) - Trim					
NT11565	Cav3-STC(TH Trim) - Ch171 - 292.2, 5m Pull, 25 blasts	0%	65	25-Mar-24	15-Jun-24
Cavern 3 - STC - Hard Rock Excavation (Drill & Blast) - Middle Bench					
NT11560	Cav3-STC(MB Inc) - Ch100 - 148.5, 4.41m Pull, 11 blasts [form ramp up]	80%	7	19-Jan-24 A	27-Feb-24
PA15010	CAV3 - STC - Top Permanent Support - Bolt and spray concrete - Stage 1	0%	185	19-Jan-24 A	27-Sep-24
NT11550	Cav3-STC(MB Inc) - Ch148.5 - 171, 4.5m Pull, 5 blasts [form ramp up]	0%	15	28-Feb-24	15-Mar-24
PA15010-10	CAV3 - STC - MB Permanent Support - Bolt and spray concrete (ch100-ch148) [48m] - Stage 2	0%	12	28-Feb-24	12-Mar-24
NT11542	Cav3-STC - Temp. backfill existing ramp from Ch 292.2 to 171 for TH Trim Blast at Ch171 - 292.2	0%	7	16-Mar-24	23-Mar-24
Cavern 3 - ELC1					
Cavern 3 - ELC1 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14720	[Summary] CAV3 - ELC1 - Top Permanent Support - Bolt and spray concrete - Stage 1	0%	48	20-Feb-24	19-Apr-24
NT11400	Cav3-ELC1(T) - Ch174 - 136.76, 4.66m Pull, 8 blasts	0%	24	20-Feb-24	18-Mar-24
NT11410	Cav3-ELC1(T) - Ch136.76 - 100, 4.6m Pull, 8 blasts	0%	24	19-Mar-24	19-Apr-24
PA14720-10	CAV3 - ELC1 - Top Permanent Support - Bolt and spray concrete (ch174-147) [27m] - Stage 2	0%	24	03-Apr-24	02-May-24
PA14720-20	CAV3 - ELC1 - Top Permanent Support - Bolt and spray concrete (ch147-120) [27m] - Stage 2	0%	24	03-Apr-24	02-May-24
Cavern 4 - DAF3, MBBR3, PST3					
Cavern 4 - DAF3					
Cavern 4 - DAF3 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14740-10	CAV4 - DAF3 - Top Permanent Support - Bolt and spray concrete (ch190-ch160) [30m] - Stage 2	80%	3	10-Feb-23 A	23-Mar-24
PA14740-20	CAV4 - DAF3 - Top Permanent Support - Bolt and spray concrete (ch160-ch130) [30m] - Stage 2	64%	6	17-Apr-23 A	27-Mar-24
PA14740-30	CAV4 - DAF3 - Top Permanent Support - Bolt and spray concrete (ch130-ch100) [30m] - Stage 2	5%	16	12-Jun-23 A	12-Apr-24
Cavern 4 - MBBR3					
Cavern 4 - MBBR3 - Hard Rock Excavation (Drill & Blast) - Top Heading					
PA14760-30	CAV4 - MBBR3 - Top Permanent Support - Bolt and spray concrete (ch253-ch272) [19m] - Stage 2	52%	9	14-Nov-23 A	24-Feb-24
PA14760-10	CAV4 - MBBR3 - Top Permanent Support - Bolt and spray concrete (ch100-ch150) [50m] - Stage 2	5%	25	27-Dec-23 A	14-Mar-24
PA14760-20	CAV4 - MBBR3 - Top Permanent Support - Bolt and spray concrete (ch150-ch253) [103m] - Stage 2	64%	20	27-Dec-23 A	08-Mar-24
Cavern 4 - PST3					



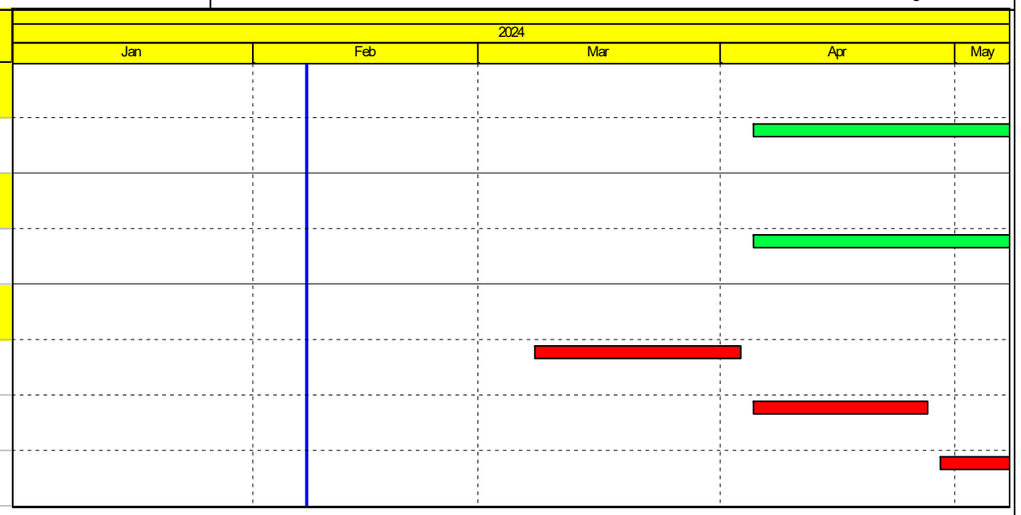
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
	Cavern 4 - PST3 - Hard Rock Excavation (Drill & Blast) - Top Heading				
PA14780	CAV4 - PST3 - Top Permanent Support - Bolt and spray concrete - Stage 1	85%	4	29-Nov-23 A	19-Feb-24
NT11730	Cav4-PST3(T) - Ch136.2 - 100, 4.53m Pull, 8 blasts	80%	4	28-Dec-23 A	19-Feb-24
PA14780-10	CAV4 - PST3 - Top Permanent Support - Bolt and spray concrete (ch168-120) [48m] - Stage 2	0%	24	11-Apr-24	09-May-24
	Cavern 5 - DAF4, MBBR4, PST4				
	Cavern 5 - DAF4				
	Cavern 5 - DAF4 - Hard Rock Excavation (Drill & Blast) - Top Heading				
PA14800-10	CAV5 - DAF4 - Top Permanent Support - Bolt and spray concrete (ch100-ch105) [5m] - Stage 2	91%	2	08-Mar-23 A	27-Mar-24
PA14800-12	CAV5 - DAF4 - Top Permanent Support - Bolt and spray concrete (ch105-ch130) [25m] - Stage 2	91%	2	08-Mar-23 A	02-Apr-24
PA14800-20	CAV5 - DAF4 - Top Permanent Support - Bolt and spray concrete (ch130-ch160) [30m] - Stage 2	93%	2	11-Apr-23 A	05-Apr-24
PA14800-30	CAV5 - DAF4 - Top Permanent Support - Bolt and spray concrete (ch160-ch190) [30m] - Stage 2	90%	2	11-Apr-23 A	08-Apr-24
	Cavern 5 - MBBR4				
	Cavern 5 - MBBR4 - Hard Rock Excavation (Drill & Blast) - Top Heading				
PA14820-10	CAV5 - MBBR4 - Top Permanent Support - Bolt and spray concrete (ch100-ch198 RHS) [98m] - Stage 2	8%	22	27-Dec-23 A	18-May-24
PA14820-20	CAV5 - MBBR4 - Top Permanent Support - Bolt and spray concrete (ch198-ch236 RHS) [38m] - Stage 2	22%	20	27-Dec-23 A	25-Mar-24
PA14820-30	CAV5 - MBBR4 - Top Permanent Support - Bolt and spray concrete (ch236-ch272 RHS) [36m] - Stage 2	25%	14	27-Dec-23 A	01-Mar-24
	Cavern 5 - PST4				
	Cavern 5 - PST4 - Hard Rock Excavation (Drill & Blast) - Top Heading				
PA14840	CAV5 - PST4 - Top Permanent Support - Bolt and spray concrete - Stage 1	25%	37	28-Oct-23 A	28-Mar-24
NT11890	Cav5-PST4(T) - Ch136.2 - 100, 4.53m Pull, 8 blasts	36%	36	20-Jan-24 A	28-Mar-24
PA14840-10	CAV5 - PST4 - Top Permanent Support - Bolt and spray concrete (Part 1 of 2) [34m] - Stage 2	0%	17	02-Apr-24	22-Apr-24
PA14840-20	CAV5 - PST4 - Top Permanent Support - Bolt and spray concrete (Part 2 of 2) [34m] - Stage 2	0%	17	23-Apr-24	13-May-24
	Secondary Driveway (SD)				
	Secondary Driveway (SD) - Zone 1 (ch418 - 488)				
	SD - Zone 1 - Hard Rock Excavation (Drill & Blast) - Top Heading				
PA14861	SD - Zone 1 - Top Permanent Support - (SD ch417 - 480) - Bolt and spray concrete [63m] - Stage 2	100%	0	27-Mar-23 A	05-Feb-24 A
NT11992	SD - BD4(Trim) - ch420 - ch430, 4 blasts	0%	4	02-Apr-24	06-Apr-24
	SD - Zone 1 - Hard Rock Excavation (Drill & Blast) - Bottom Bench				
PA14871	SD - Zone 1 - Bottom Permanent Support - (SD ch418-488 - Bottom) - Bolt and spray concrete [70m] - Stage 2	0%	18	08-Feb-24	06-Mar-24



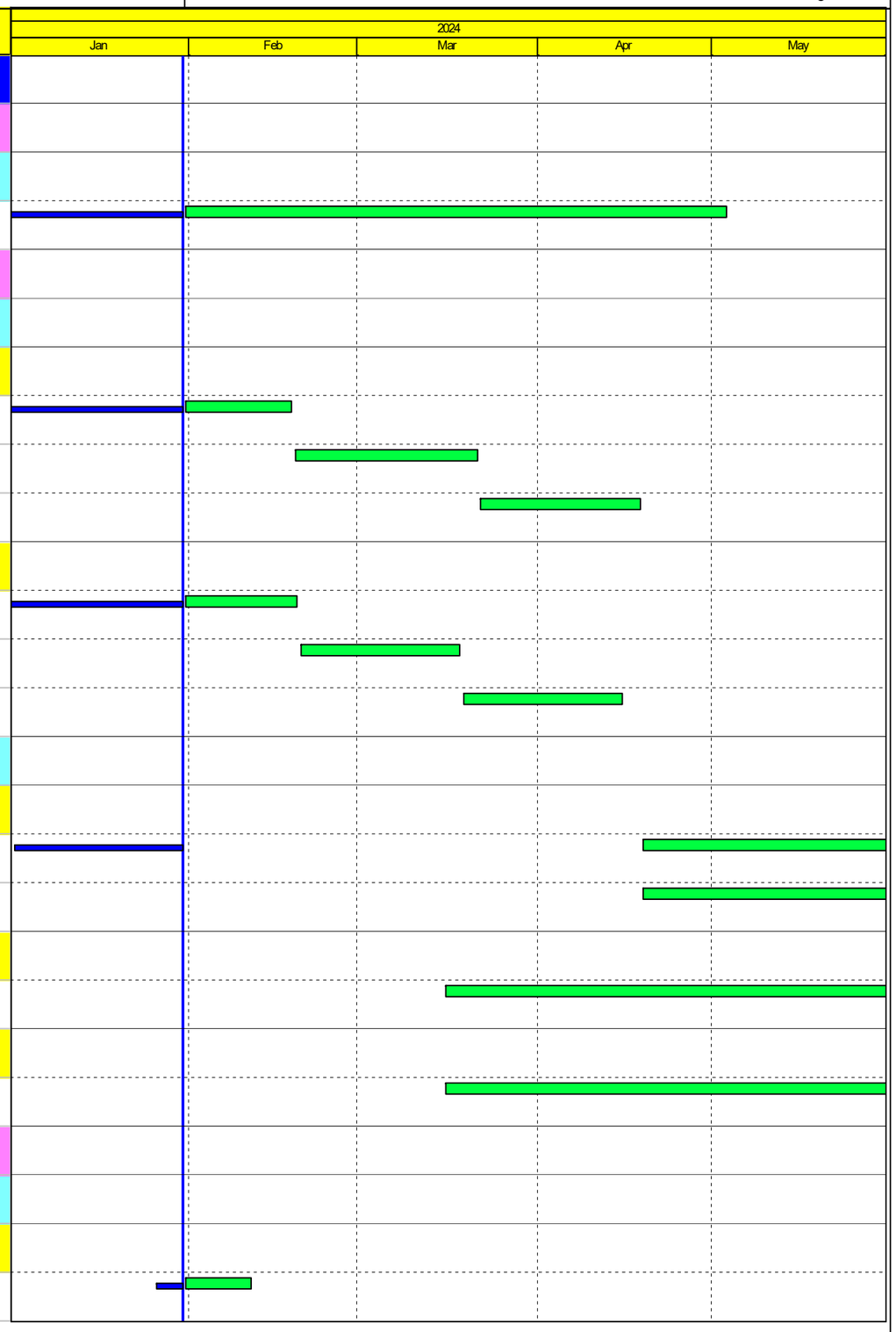
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
	Secondary Driveway (SD) - Zone 2 (ch488 - 675)				
	SD - Zone 2 - Hard Rock Excavation (Drill & Blast) - Top Heading				
PA14881	SD - Zone 2 - Top Permanent Support - (SD ch535 - 567) - Bolt and spray concrete [32m] - Stage 2	65%	12	24-Apr-23 A	15-Apr-24
PA14960	SD - Zone 2 - Top Permanent Support - (SD ch567 - 669) - Bolt and spray concrete [102m] - Stage 2	83%	9	24-Apr-23 A	25-Apr-24
NT12240	SD - BD3(Trim) - ch420-430 ,4 blasts	100%	0	24-Jan-24 A	01-Feb-24 A
NT12520	SD - BD2(Trim) - ch420-430 ,4 blasts	0%	4	08-Feb-24	19-Feb-24
	SD - Zone 2 - Hard Rock Excavation (Drill & Blast) - Bottom Bench				
NT12120	SD - (B) - Zone 2 - Ch622.7 - 672.7, -5m Pull, 10 blasts	20%	8	29-Jan-24 A	20-May-24
NT12090	SD - (B) - Zone 2 - Ch477.7 - 522.7, -5m Pull, 7 blasts	0%	7	09-Mar-24	16-Mar-24
PA14890	SD - Zone 2 - Bottom Permanent Support - (SD ch488 - 673) - Bolt and spray concrete [149.8m] - Stage 1	0%	34	16-Apr-24	27-May-24
NT12100	SD - (B) - Zone 2 - Ch522.7 - 572.7, -5m Pull, 10 blasts	0%	10	16-Apr-24	26-Apr-24
NT12110	SD - (B) - Zone 2 - Ch572.7 - 622.7, -5m Pull, 10 blasts	0%	10	27-Apr-24	09-May-24
	Secondary Driveway (SD) - Zone 3 (ch675 - 792)				
	SD - Zone 3 - Hard Rock Excavation (Drill & Blast) - Top Heading				
NT12530	SD - BD1(Trim) - ch420-430 ,2 blasts	0%	4	08-Mar-24	12-Mar-24
PA15020	SD - Zone 3 - Top Permanent Support - (SD ch710 - 760) - Bolt and spray concrete [50m] - Stage 2	0%	24	26-Apr-24	25-May-24
	Ventilation Shaft and Ventilation Adit				
	Ventilation Shaft (VS)				
	VS - Off-site Fabrication of Travelling Formworks for Ventilation Shaft				
A20365	Sub-letting for Traveling formork	0%	30	26-Feb-24	03-Apr-24
A20370	Travelling Formwork - Design preparation, review and accept by PM	0%	40	05-Apr-24	23-May-24
	VS - Hard Rock Excavation (Drill & Blast)				
NT12440	V-Shaft(F) - Ch154 - 130, 2.4m Pull, 10 blasts	85%	9	09-Nov-23 A	24-Feb-24
NT12450	V-Shaft(F) - Ch130 - 106.7, 2.91m Pull, 8 blasts	0%	60	26-Feb-24	10-May-24
	Ventilation Adit (VA)				
	VA - CBAR4 Blasting Method Statement				
A23210	CBAR4 - Summary of Blasting Method Statement (BMS) Submission and approval	50%	13	20-Feb-23 A	29-Feb-24
A23250	VA - CBAR4 Blasting Method Statement (BMS) - Mines review BMS	100%	0	20-Jan-24 A	07-Feb-24 A
A23260	VA - CBAR4 Blasting Method Statement (BMS) - response Mines comments on BMS	10%	13	08-Feb-24 A	29-Feb-24



Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
VA - Design and Approval of Permanent Lining Formwork					
A20170	VA - Design submission of permanent lining formwork	0%	45	05-Apr-24	29-May-24
VA - Blasting Door Installation					
A15090	VA - Installation of Blasting Door	0%	45	05-Apr-24	29-May-24
VA - Hard Rock Excavation (Drill & Blast)					
NT12330	V-Adit(F) - Ch100 - 191.5, -4.58m Pull, 20 blasts	0%	20	08-Mar-24	03-Apr-24
NT12340	V-Adit(F) - Ch191.5 - 301.5, -5.5m Pull, 20 blasts	0%	20	05-Apr-24	27-Apr-24
NT12350	V-Adit(F) - Ch301.5 - 356.5, -5.5m Pull, 10 blasts	0%	20	29-Apr-24	23-May-24



Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
DC/2023/12 Relocation of STSTW - Ancillary Buildings, Cavern Ventilation System & Associated Works					
===== Contract Particulars =====					
3D reality model for the construction site areas					
A30580	Develop 3D reality model for the construction site area	15%	70	01-Aug-23 A	03-May-24
===== Works in Works Area WA2 =====					
----- Designs for Works in Works Area WA2 -----					
Demolish Ex. Building - Demolition Plan					
A10320	Demolition Plan - prepare and submit to design checker	40%	19	01-Aug-23 A	18-Feb-24
A10340	Demolition Plan - design checker reveiw and issue check certificate	0%	32	19-Feb-24	21-Mar-24
A10360	Demolition Plan - submit to PM, PM review and accept	0%	28	22-Mar-24	18-Apr-24
Design of Site Accommodation for PM & Client					
A10000	Site accommodation for PM - prepare and submit design to design checker	35%	20	01-Aug-23 A	19-Feb-24
A10020	Site Accommodation for PM - design checker reveiw and issue check certificate	0%	28	20-Feb-24	18-Mar-24
A10220	Site Accommodation for PM - submit to PM, PM review and accept	0%	28	19-Mar-24	15-Apr-24
----- Major Sub-letting & Procurement for Works in WA2 -----					
WA2 - Sub-letting for Demolition Works					
A10540	Sub-letting of demolition works	50%	45	02-Jan-24 A	02-Jun-24
A10520	xxxxxxx Procurement of Specialist of Asbestor removal	0%	90	19-Apr-24	17-Jul-24
WA2 - Procurement for MiC Installation					
A28010	WA2 - Procurement - MiC Installation - prepare document, tender out & returning tender, tender assessment	0%	120	16-Mar-24	13-Jul-24
WA2 - Procurement for MiC Fabrication and Delivery					
A28050	WA2 - Procurement - MiC fabrication & delivery - prepare document, tender out & returning tender, tender assessment	0%	120	16-Mar-24	13-Jul-24
===== Main Portal Area =====					
----- Main Portal Area - Design Submission -----					
Additional Ground Investigation Plan					
A10580	Main Portal Area - Additional GI Plan - design checker reveiw and issue check certificate	30%	12	26-Jan-24 A	11-Feb-24



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Crit. Milestone

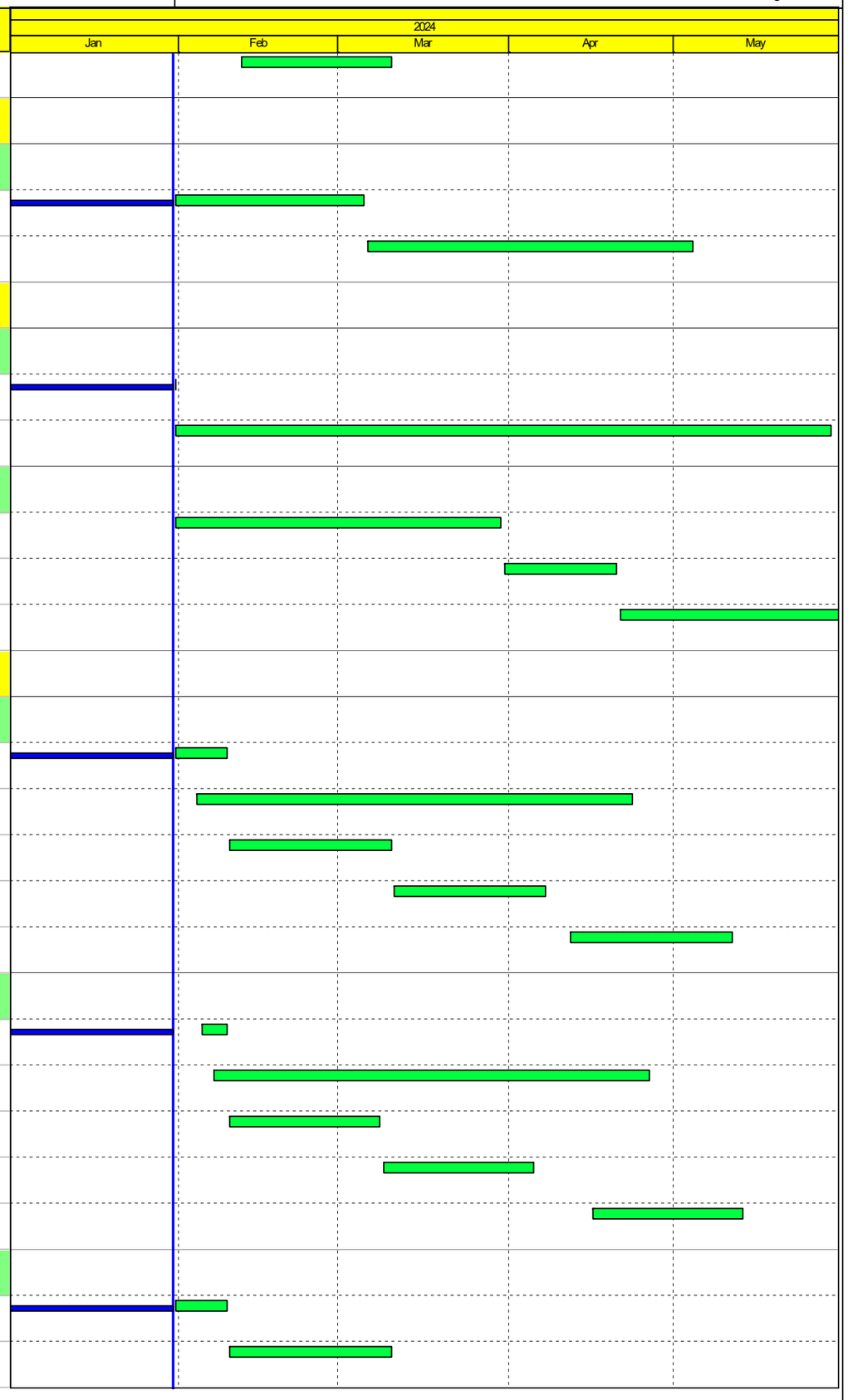
Project File: C3-P0d-31Jan24
Layout: C3 - MPR - 3M Rolling Prog (submission)
Data Date: 31-Jan-24
Page 1 of 6

Contract No. DC/2023/12 Relocation of STST to Caverns - Ancillary Buildings, Cavern Ventilation System and Associated Works

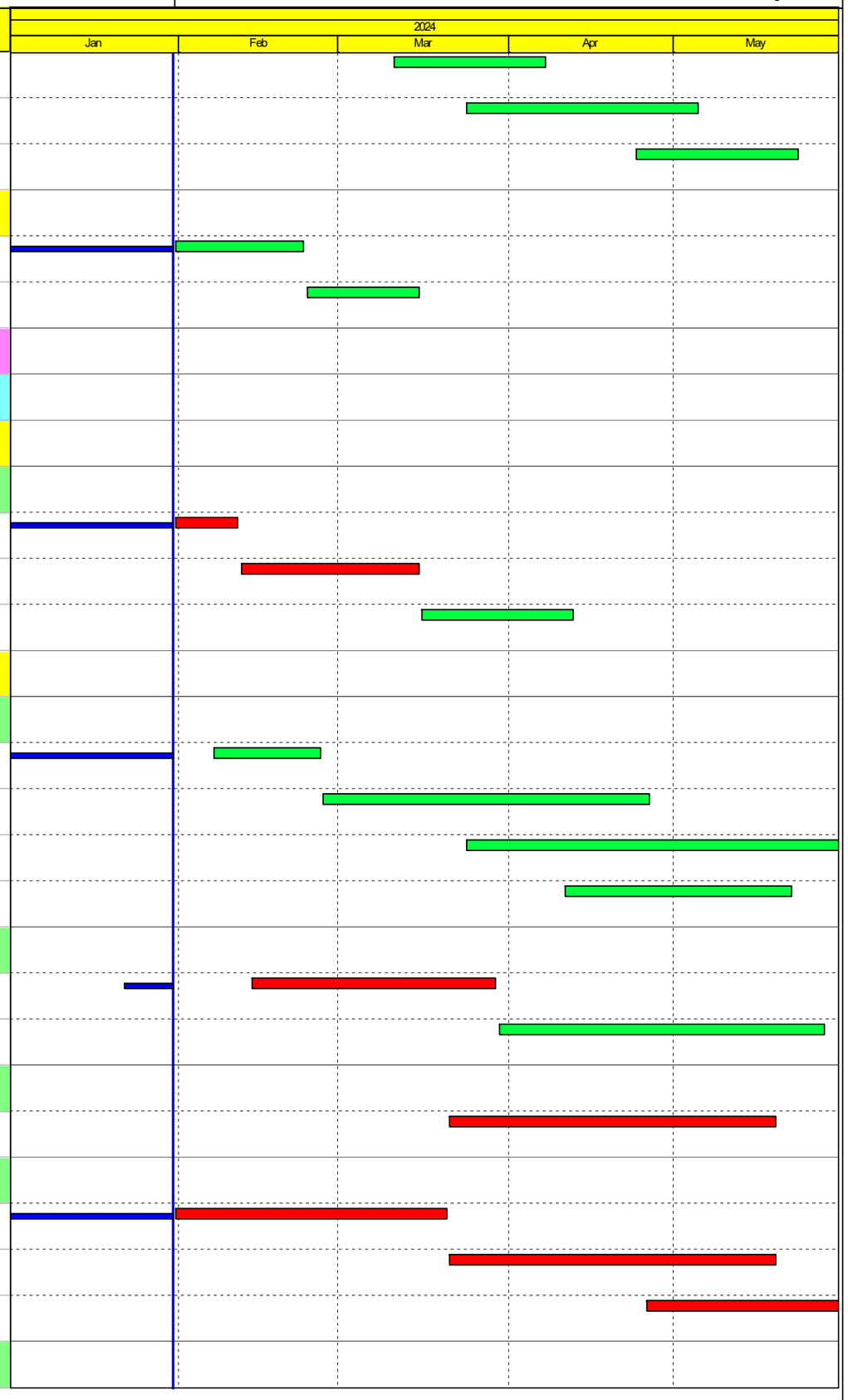
3 Months Rolling Programme (Feb to Apr 2024)

China State – Alchmex Joint Venture

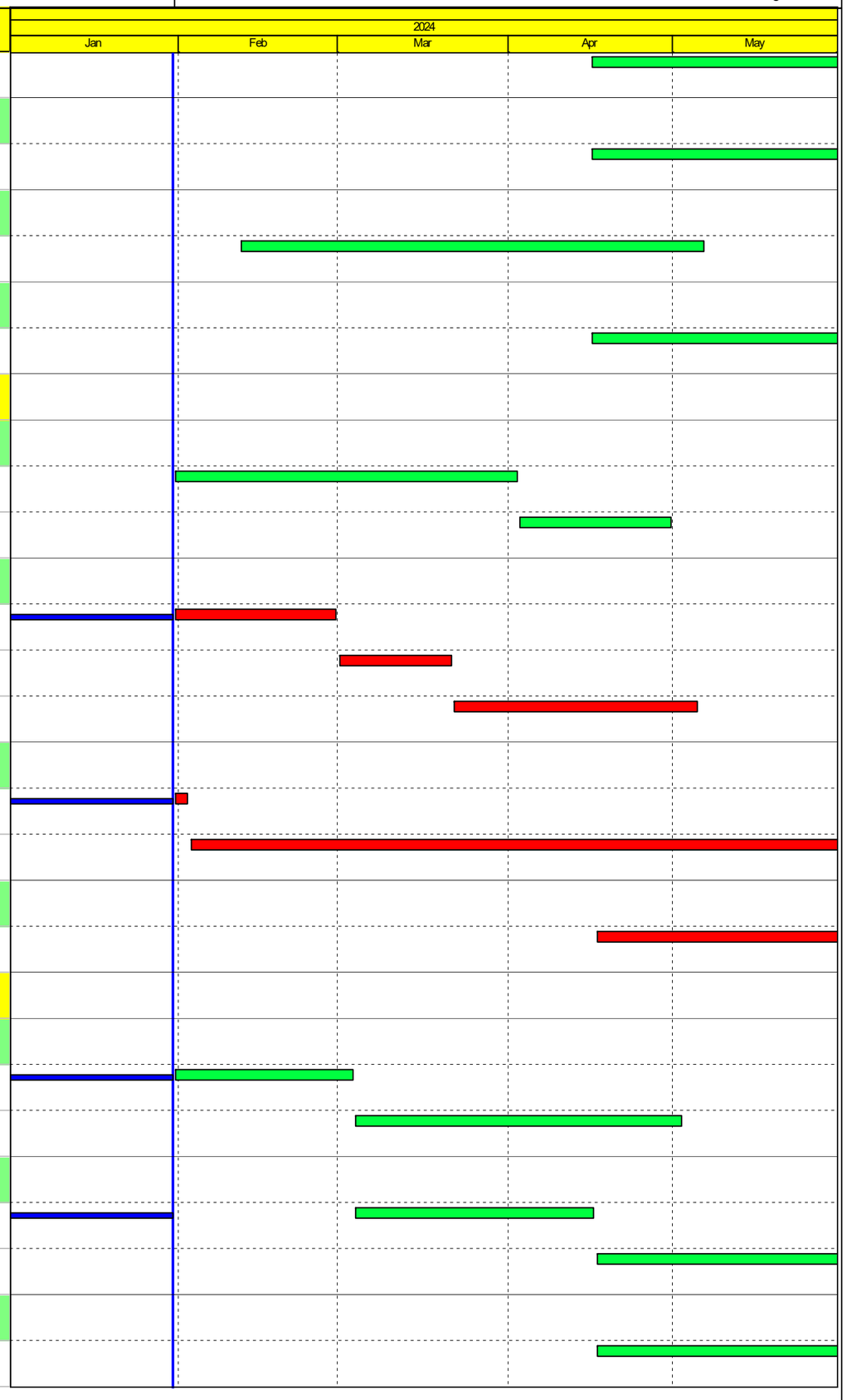
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
A10600	Main Portal Area - Additional GI Plan - submit to PM, PM review and accept	0%	28	12-Feb-24	10-Mar-24
----- ACVB - Design for Administration Cum Ventilation Building -----					
ACVB - Design of Building Plan					
A10620	ACVB - Building Plan - AIP - prepare and submit to design checker	30%	35	01-Aug-23 A	05-Mar-24
A10640	ACVB - Building Plan - AIP - authority & design checker reveiw, issue check certificate	0%	60	06-Mar-24	04-May-24
----- SUB1 - Designs for 132kV Substation No.1 -----					
SUB1 - Issue CLP Design Brief					
A28600	SUB1 - AECOM address CLP comments on SUB1 design for CLP start to prepare E&M design brief (by AECOM)	100%	0	18-Sep-23 A	31-Jan-24
A28640	SUB1 - CLP issue design brief for E&M works (by CLP)	0%	120	31-Jan-24	29-May-24
SUB1 - Preparation works for Design of Lightning / Earthing Protection System (CLP requirement)					
A28210	SUB1 - Subletting for soil resistivity measurement for design of earthing / lightning protection system	0%	60	31-Jan-24	30-Mar-24
A28230	SUB1 - Machine setting up	0%	21	31-Mar-24	20-Apr-24
A28250	SUB1 - Trial pit / Drill bore hole (approx.4nos)	0%	45	21-Apr-24	04-Jun-24
----- MSR1 - Designs for DSD Main Switchroom No.1 in Workshop No.1 -----					
MSR1 - Design of MVAC System					
A24400	MSR1 - MVAC Systems - AIP - prepare and submit to design checker	85%	10	01-Aug-23 A	09-Feb-24
A24460	MSR1 - MVAC Systems - DDA - prepare and submit to design checker	0%	80	04-Feb-24	23-Apr-24
A24420	MSR1 - MVAC Systems - AIP - authorities & design checker reveiw, issue check certificate	0%	30	10-Feb-24	10-Mar-24
A24440	MSR1 - MVAC Systems - AIP - submit to PM, PM review and gives consent to proceed DDA	0%	28	11-Mar-24	07-Apr-24
A24480	MSR1 - MVAC Systems - DDA - authorities & design checker reveiw, issue check certificate	0%	30	12-Apr-24	11-May-24
MSR1 - Design of CMCS					
A31440	MSR1 - CMCS Design for CVS system - AIP - prepare and submit to design checker	85%	5	01-Aug-23 A	09-Feb-24
A31500	MSR1 - CMCS Design for CVS system - DDA - prepare and submit to design checker	0%	80	07-Feb-24	26-Apr-24
A31460	MSR1 - CMCS Design for CVS system - AIP - design checker reveiw and issue check certificate	0%	28	10-Feb-24	08-Mar-24
A31480	MSR1 - CMCS Design for CVS system - AIP - submit to PM, PM review and gives consent to proceed DDA	0%	28	09-Mar-24	05-Apr-24
A31520	MSR1 - CMCS Design for CVS system - DDA - design checker reveiw and issue check certificate	0%	28	16-Apr-24	13-May-24
MSR1 - Design of HV & LV System					
A24280	MSR1 - HV & LV Systems - AIP - prepare and submit to design checker	85%	10	01-Aug-23 A	09-Feb-24
A24300	MSR1 - HV & LV Systems - AIP - design checker reveiw and issue check certificate	0%	30	10-Feb-24	10-Mar-24



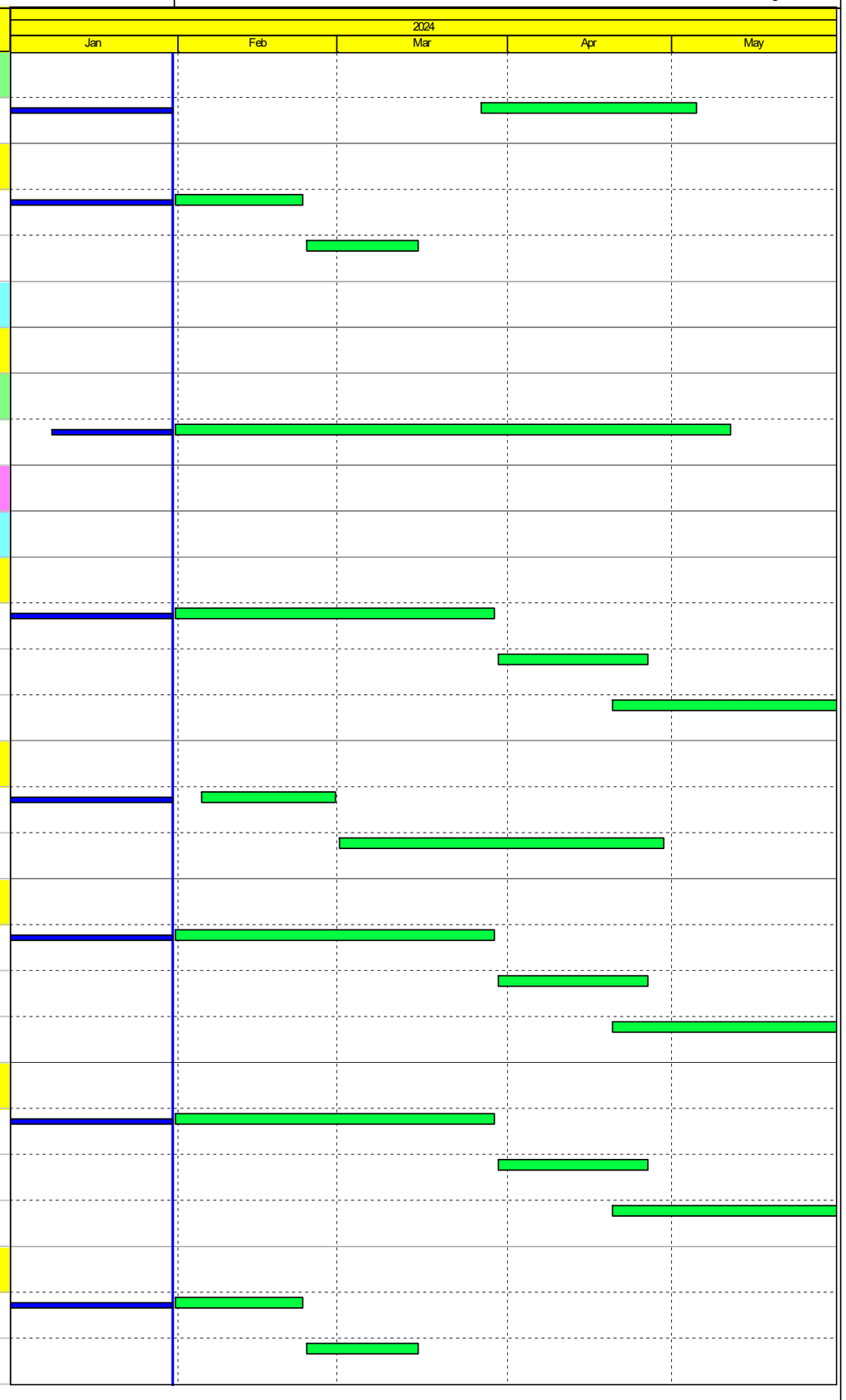
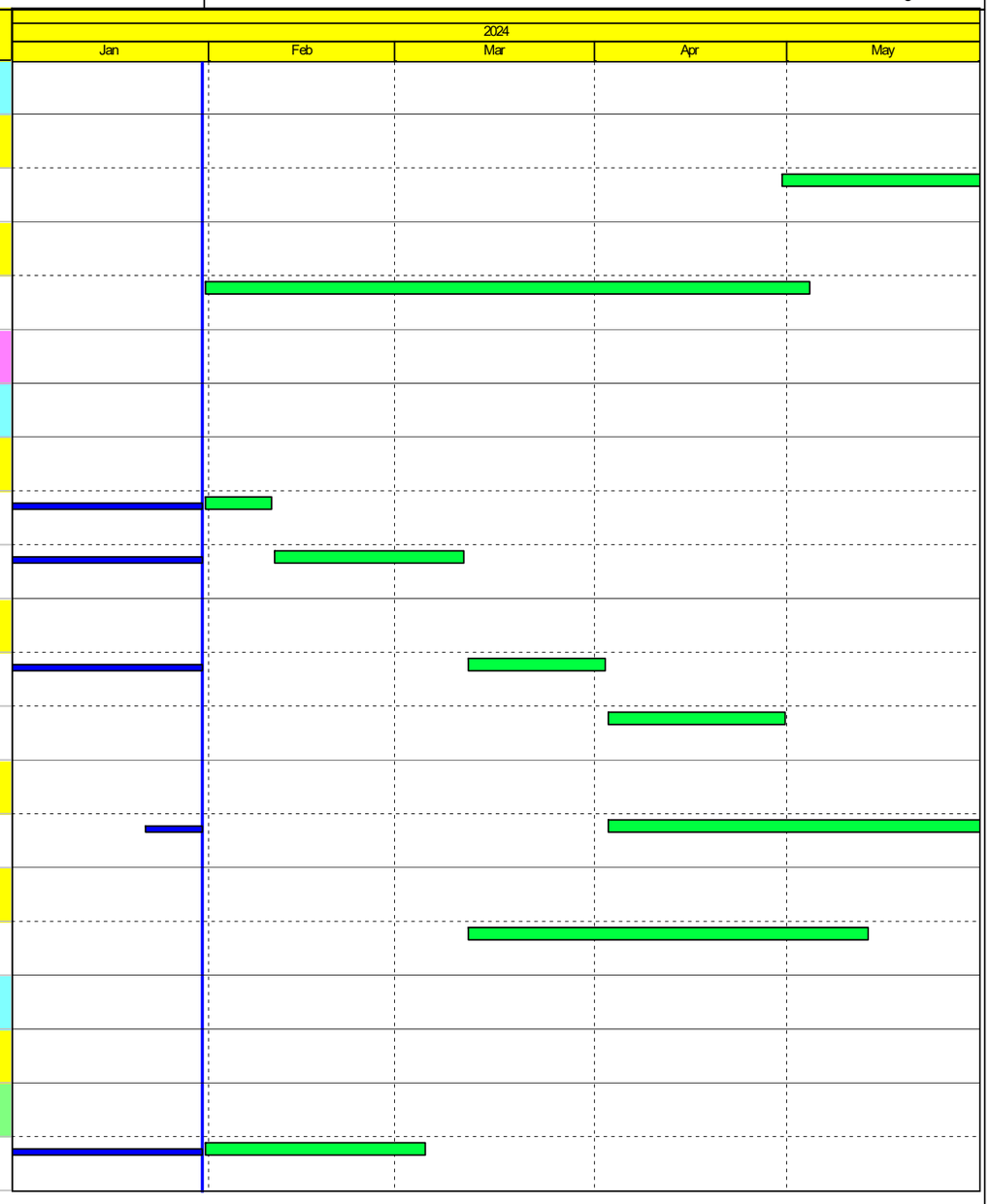
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
A24320	MSR1 - HV & LV Systems - AIP - submit to PM, PM review and gives consent to proceed DDA	0%	28	11-Mar-24	07-Apr-24
A24340	MSR1 - HV & LV Systems - DDA - prepare and submit to design checker	0%	43	24-Mar-24	05-May-24
A24360	MSR1 - HV & LV Systems - DDA - design checker reveiw and issue check certificate	0%	30	24-Apr-24	23-May-24
Main Portal Area - Submission of Inspection and Test Plans (ITPs)					
A28480	ITPs for Main Portal Area - Prepare and submit ITPs to PM [PS13.01G (1)]	50%	24	19-Jul-23 A	23-Feb-24
A28500	ITPs for Main Portal Area - PM accept	0%	21	24-Feb-24	15-Mar-24
===== Secondary Portal Area =====					
----- Sec. Portal Area - Design Submission -----					
----- General Design Submssion -----					
Sec Portal Area - Design of Additional Ground Investigation					
A14380	Sec Portal Area - Additional GI Plan - prepare and submit to design checker	32%	12	01-Aug-23 A	11-Feb-24
A14400	Sec Portal Area - Additional GI Plan - design checker review and issue check certificate	0%	33	12-Feb-24	15-Mar-24
A14420	Sec Portal Area - Additional GI Plan - submit to PM, PM review and accept	0%	28	16-Mar-24	12-Apr-24
----- VB - Design for Ventilation Building -----					
VB - Design of Building Plan					
A12160	VB - Building Plan - AIP - prepare and submit to design checker	60%	20	11-Sep-23 A	26-Feb-24
A12180	VB - Building Plan - AIP - authority & design checker reveiw, issue check certificate	0%	60	27-Feb-24	26-Apr-24
A12220	VB - Building Plan - DDA - prepare and submit to design checker	0%	90	24-Mar-24	21-Jun-24
A12200	VB - Building Plan - AIP - submit to PM, PM review and gives consent to proceed DDA	0%	42	11-Apr-24	22-May-24
VB - Design of Foundation Plan					
A12040	VB - Foundation Plan - AIP - prepare and submit to design checker	10%	45	22-Jan-24 A	29-Mar-24
A12060	VB - Foundation Plan - AIP - authority & design checker reveiw, issue check certificate	0%	60	30-Mar-24	28-May-24
VB - Design of Lightning Protection System					
A13000	VB - Lightning / Earthing Protection System - AIP - prepare and submit to design checker	0%	60	21-Mar-24	19-May-24
VB - Design of Structural Plan					
A12280	VB - Structural Plan - AIP - prepare and submit to design checker	20%	50	22-Dec-23 A	20-Mar-24
A12300	VB - Structural Plan - AIP - authority & design checker reveiw, issue check certificate	0%	60	21-Mar-24	19-May-24
A12340	VB - Structural Plan - DDA - prepare and submit to design checker	0%	90	26-Apr-24	24-Jul-24
VB - Design of Cavern Ventilation System (CVS) Installation (MFSD, silencer, Fan, etc.)					



Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
A32780	VB - CVS Design - AIP - prepare and submit to design checker	0%	60	16-Apr-24	14-Jun-24
VB - Design of CMCS for CVS system					
A12760	VB - CMCS Design for CVS system - AIP - prepare and submit to design checker	0%	60	16-Apr-24	14-Jun-24
VB - Design of Temp.MVAC					
A12640	VB - Temp. MVAC Design - AIP - prepare and submit to design checker	0%	85	12-Feb-24	06-May-24
VB - Design of HV & LV System for Electrical Plant Room					
A12880	VB - Design of HV & LV Installation for Room - AIP - prepare and submit to design checker	0%	60	16-Apr-24	14-Jun-24
----- SUB2 - Designs for 132kV Substation No.2 -----					
SUB2 - Design of ELS for Foundation Works					
A13200	SUB2 - Design ELS for Foundation Works - prepare and submit to design checker	0%	63	31-Jan-24	02-Apr-24
A13220	SUB2 - Design ELS for Foundation Works - design checker reveiw and issue check certificate	0%	28	03-Apr-24	30-Apr-24
SUB2 - Preparation works for Design of Lightning / Earthing Protection System (CLP requirement)					
A28290	SUB2 - Subletting for soil resistivity measurement for design of earthing / lightning protection system	35%	30	01-Aug-23 A	29-Feb-24
A28310	SUB2 - Machine setting up	0%	21	01-Mar-24	21-Mar-24
A28330	SUB2 - Trial pit / Drill bore hole (approx.4nos)	0%	45	22-Mar-24	05-May-24
SUB2 - Issue CLP Design Brief					
A28680	SUB2 - AECOM address CLP comments on SUB2 design for CLP start to prepare E&M design brief (by AECOM)	100%	3	18-Sep-23 A	02-Feb-24
A28720	SUB2 - CLP issue design brief for E&M works (4M) (by CLP)	0%	120	03-Feb-24	01-Jun-24
SUB2 - Design of Lightning Protection System					
A13920	SUB2 - Lightning / Earthing Systems - AIP - prepare and submit to design checker	0%	60	17-Apr-24	15-Jun-24
----- SSB - Design for Skip Storage Building -----					
SSB - Design of Building Plan					
A24920	SSB - Building Plan - AIP - prepare and submit to design checker	40%	33	01-Aug-23 A	03-Mar-24
A24940	SSB - Building Plan - AIP - authority & design checker reveiw, issue check certificate	0%	60	04-Mar-24	02-May-24
SSB - Design of Foundation Plan					
A24800	SSB - Foundation Plan - AIP - prepare and submit to design checker	20%	44	22-Dec-23 A	16-Apr-24
A24820	SSB - Foundation Plan - AIP - authority & design checker reveiw, issue check certificate	0%	60	17-Apr-24	15-Jun-24
SSB - Design of Lightning Protection System					
A25760	SSB - Lightning / Earthing Protection System - AIP - prepare and submit to design checker	0%	60	17-Apr-24	15-Jun-24



Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
	SSB - Design of Structural Plan				
A25040	SSB - Structural Plan - AIP - prepare and submit to design checker	20%	40	22-Dec-23 A	05-May-24
	Secondary Portal Area - Submission of Inspection and Test Plans (ITPs)				
A28520	ITPs for Secondary Portal Area - Prepare and submit ITPs to PM [PS13.01G (1)]	50%	24	19-Jul-23 A	23-Feb-24
A28540	ITPs for Secondary Portal Area - PM accept	0%	21	24-Feb-24	15-Mar-24
	----- Sec. Portal Area - Construction -----				
	----- SAT Portal Area External Works -----				
	Sec. Portal Area External Works - Mui Tsz Lam Road Portion 8, 12				
A21380	Sec Portal Area - Mui Tsz Lam Rd - TTA Stage 1 - waste water drainage and watermains (40m)	10%	77	09-Jan-24 A	11-May-24
	===== Cavern Complex =====				
	----- Design for Cavern Complex -----				
	Cavern Complex - Design of Cavern Ventilation System (CVS) (MFSD, AQMS,etc.)				
A14140	Cavern Complex - CVS - DDA - prepare and submit to design checker	30%	59	13-Nov-23 A	29-Mar-24
A14160	Cavern Complex - CVS - DDA - FSD and design checker reveiw and issue check certificate	0%	28	30-Mar-24	26-Apr-24
A14180	Cavern Complex - CVS - DDA - submit to PM, PM review and gives consent to proceed construction	0%	42	20-Apr-24	31-May-24
	Cavern Complex - FSD Submission of Motorized Fire & Smoke Damper (MFSD)				
A26240	Cavern Complex - MFSD design report - design preparation and submission to FSD	90%	25	30-Dec-23 A	29-Feb-24
A26260	Cavern Complex - MFSD design report - design approved by FSD	0%	60	01-Mar-24	29-Apr-24
	Cavern Complex - CMCS for Switch Rooms				
A31960	Cavern Complex - CMCS - DDA - prepare and submit to design checker	45%	59	13-Nov-23 A	29-Mar-24
A31980	Cavern Complex - CMCS - DDA - FSD and design checker reveiw and issue check certificate	0%	28	30-Mar-24	26-Apr-24
A32000	Cavern Complex - CMCS - DDA - submit to PM, PM review and gives consent to proceed construction	0%	42	20-Apr-24	31-May-24
	Cavern Complex - Pressurization System for protected corridor in cavern Pressurization System				
A28980	Cavern Complex - Pressurization System - DDA - prepare and submit to design checker	45%	59	13-Nov-23 A	29-Mar-24
A29000	Cavern Complex - Pressurization System - DDA - FSD and design checker reveiw and issue check certificate	0%	28	30-Mar-24	26-Apr-24
A29020	Cavern Complex - Pressurization System - DDA - submit to PM, PM review and gives consent to proceed construction	0%	42	20-Apr-24	31-May-24
	Cavern Complex - Submission of Inspection & Test Plans (ITPs)				
A28560	Cavern Complex - ITPs - prepare and submit ITPs to PM	50%	24	19-Jul-23 A	23-Feb-24
A28580	Cavern Complex - ITPs - PM accept	0%	21	24-Feb-24	15-Mar-24



Activity ID	Activity Name	% Complete	Remaining Duration	Start	Finish
----- Cavern Complex - Major Procurement for Long Lead Items -----					
Cavern Complex - Procurement for Motorized fire and smoke damper (MFSD) and AQMS					
A29980	Cavern Complex - Procurement of MFSD and AQMS - source supplier	0%	95	30-Apr-24	02-Aug-24
Cavern Complex - Procurement for CVS Fan					
A30100	Cavern Complex - Procurement of CVS Fan - source supplier	0%	95	31-Jan-24	04-May-24
===== Emergency Bypass =====					
----- Designs for Emergency Bypass -----					
Emergency Bypass - Submission of CIA to MTRC					
A22630	Emergency Bypass - prepare Construction Impact Assessment report (CIA)	55%	11	09-Nov-23 A	10-Feb-24
A28880	Emergency Bypass - MTRC review and accept CIA report & no comment to bypass alignment shown on contract drawings	15%	30	29-Dec-23 A	11-Mar-24
Emergency Bypass - Design of Civil Provision Works					
A22620	Emergency Bypass - Design of Civil Provision - AIP - prepare and submit to design checker	60%	22	02-Oct-23 A	02-Apr-24
A22640	Emergency Bypass - Design of Civil Provision - AIP - design checker reveiw and issue check certificate	0%	28	03-Apr-24	30-Apr-24
Emergency Bypass - Design of ELS for Launching / Retreving Shaft					
A22400	Emergency Bypass - Design of ELS for shaft - prepare and submit to design Checker	10%	63	22-Jan-24 A	04-Jun-24
Emergency Bypass - TTA in Existing STSTP Area					
A22460	Emergency Bypass - TTA in Ex. STSTP - prepare and submit to design checker	0%	63	12-Mar-24	13-May-24
----- Construction of Emergency Bypass -----					
Emergency Bypass - Section from Pit E3 to E4					
E3 to E4 - Site Preparation Works					
A22540	EB - condition and ug utilities survey to Portion 1,3, 9	35%	24	01-Aug-23 A	05-Mar-24