



Contract No. 13/WSD/17

**Design, Build and Operate First Stage of Tseung Kwan O
Desalination Plant**

**Annual EM&A Review Report No.6
(Period from May 2025 to April 2026)**

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Date:	11 September 2026

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Date : 11 September 2026

By Post and Email

Water Supplies Department
New Works Branch
Consultants Management Division
6/F, Sha Tin Government Offices,
1 Sheung Wo Che Road, Sha Tin,
New Territories

Attn: Mr. W.S. Wong / S K Wong

Dear Sir,

**Independent Environmental Checker (IEC) for Construction and Operation of the
First Stage Desalination Plant at Tseung Kwan O (Quotation Ref. No. TKO1/IEC/003)**

**Verification of Annual Environmental Monitoring and Audit (EM&A) Report No.6 for the
period of May 2026 to January 2026**

Referring to the Annual Environmental Monitoring and Audit (EM&A) Report No.6 (May 2024 to April 2025) as submitted by the Environmental Team on 11 September 2026, we hereby verify the captioned report for the period of May 2026 to January 2026 in accordance with Clause 3.5 of the Environmental Permit no. FEP-01/503/2015/A and FEP-01/503/2015/B.

Should you have any queries, please contact the undersigned at 61496683, or email at serenashek@lamenviro.com.

Yours sincerely,
For and On Behalf Of
Lam Environmental Services Limited



Serena Shek
Independent Environmental Checker

Binnies (Attn.: Image Yeung)
Aurecon (Attn.: Toby Wan)

By E-mail
By E-mail

REVISION HISTORY

REV.	DESCRIPTION OF MODIFICATION	DATE
0.	First Issue	9/08/2026
1.	Second Issue	8/09/2026
2.	Third Issue	10/09/2026
3.	Fourth Issue	11/09/2026

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EXECUTIVE SUMMARY

INTRODUCTION

- A1. The Project, Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (EP No. FEP – 01/503/2015/A and EP No. FEP – 01/503/2015/B) for the construction and operation of the Contract.
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Contract, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Aurecon Hong Kong Limited (Aurecon), during the operation phase of the Contract.
- A3. This is the 6th Annual EM&A Review Report, prepared by ASCL, for the Contract summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O Area 137 (TKO 137) during the reporting period from 1 May 2025 to 30 April 2026.
- A4. The EM&A programme for this contract has covered environmental monitoring and Contractor's environmental performance auditing in the aspects of dust, noise, water quality, landfill gas, waste management, landscape and visual and ecology.

SUMMARY OF ENVIRONMENTAL MONITORING AND AUDIT WORKS

- A5. A summary of the environmental monitoring and audit works undertaken in the reporting period are summarized in **Table I**.

Table I Summary of Environmental Monitoring Works

Environmental Monitoring works	Frequency
Operation Phase Water Quality Monitoring	130
Operation Phase Coral Monitoring	10
Operation Phase Fishery Monitoring	4
Operation Phase Landfill Gas Monitoring	11
Environmental Site Inspection	52

- A6. Operation Phase Impact Water Quality Monitoring was conducted from 1 May 2025 and completed on 30 June 2025. A total of three (3) action level exceedances and eleven (11) limit level exceedances of SS were recorded. Summary of exceedances could be referring to **Appendix G**.
- A7. The continuous monitoring of effluent quality was conducted from 1 May 2025 to 31 July 2025. No exceedance of the sampling was obtained during the reporting period.
- A8. According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, continuous monitoring of effluent quality was discontinued and replaced with effluent water monitoring in compliance with discharge license requirements starting from 15 August 2025.
- A9. Weekly in-situ monitoring and monthly laboratory measurements of the effluent quality were conducted from September 2025 to April 2026. No exceedance of the results was obtained during the reporting period. The detail results can be referred to the Monthly EM&A Report.
- A10. Monthly operational landfill gas monitoring was conducted from 1 May 2025 to 31 July 2025.
- A11. According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, landfill gas monitoring will be conducted on a six-month basis starting from August 2025.
- A12. A total of five (5) landfill gas monitoring was conducted during the reporting period. No exceedances of the Action or Limit Levels were recorded during the reporting period.
- A13. According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, coral monitoring will be conducted on a quarterly basis starting from August 2025.
- A14. A total of six (6) operation phase coral monitoring was conducted. There were no AL/LL exceedances observed during the reporting period.
- A15. Four (4) operation phase fishery monitoring were conducted during the reporting period. For wet season was carried out in 16 and 23 August 2025 and for dry season was carried out in 7 and 15 February 2026. No AL/LL exceedance was recorded during the reporting period.

COMPLAINT HANDLING AND PROSECUTION

- A16. No environmental complaint, notifications of summons and prosecution was received during the reporting period.

REPORTING CHANGE

- A17. According to the contractor's information, the Anti-scalant dosage commenced on 10 April 2025. The Anti-scalant water quality test was also conducted starting from the same date.
- A18. The works of TKODP were substantially completed on 30 June 2024 and the plant commenced the operation phase on 1 July 2024. A Justification of Termination of the EM&A Programme for the Construction Phase was resubmitted to the EPD on [11 August 2025](#) and approved by the EPD on [15 August 2025](#).
- A19. A proposal to change the operation phase EM&A programme was submitted to the EPD on [11 August 2025](#) and approved by the EPD on [15 August 2025](#).

1. BASIC CONTRACT INFORMATION

1.1. BACKGROUND

The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading as AJC Joint Venture (AJCJV) is contracted to carry out the Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP) under Contract No. 13/WSD/17 (the Contract).

Acuity Sustainability Consulting Limited (ASCL) is commissioned by AJCJV to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-192/2015) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Contract; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements and Contract No. 13/WSD/17 Specification requirements.

Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Environmental Permit (No. EP-01/503/2015) and Variation of Environmental Permit (No. EP-01/503/2015/A and No. EP-01/503/2015/B) to Water Supplies Department (WSD); and granted the Further Environmental Permit (No. FEP-01/503/2015/A and No. EP-01/503/2015/B) to AJCJV for the Contract.

1.2. THE REPORTING SCOPE

This is the 6th Annual EM&A Review Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May 2025 to 30 April 2026.

1.3. CONTRACT ORGANIZATION

The Contract Organization structure for Construction Phase is presented in **Figure 1.1** and contact details of the key personnel are presented in **Table 1.1** below:

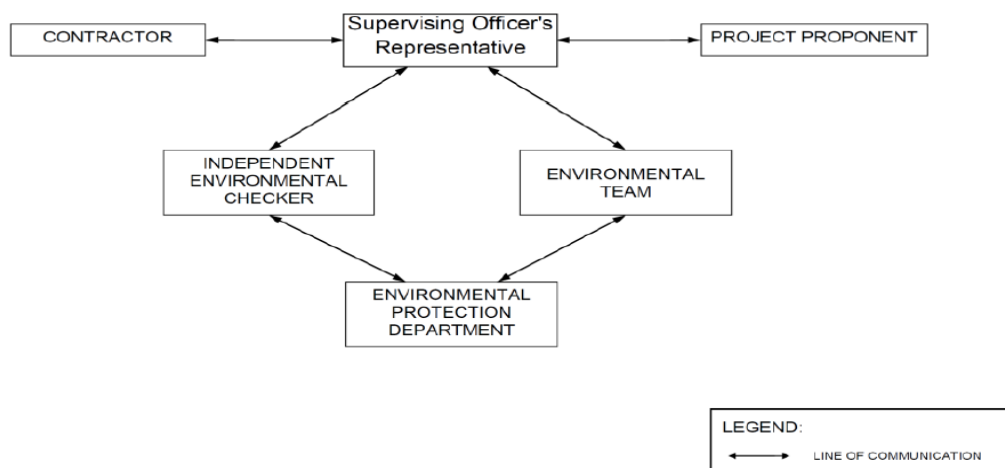


Figure 1.1 Contract Organization Chart

Table 1.1 Contact Details of Key Personnel

Party	Position	Name	Telephone no.	Remark
Project Proponent (WSD)	SE/CM2	Milton Law	2634-3573	-
Supervising Officer (Binnies Hong Kong Limited)	Project Manager	Augustine Li	2608-7671	-
	Senior Resident Engineer	Mason Pau	6765-4131	-
The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading	Project Manager	Arnes, Parra, Victor	6468-6710	-
	Environmental Monitoring Manager	Tommy Law	6468-1782	-
Aurecon Hong Kong Limited	Environmental Team Leader (ETL)	Toby Wan	9719-5422	-
Lam Environmental Services Limited	Independent Environmental Checker (IEC)	Serena Shek	6149-6683	Until 31 January 2026
SGS Hong Kong Limited	Independent Environmental Checker (IEC)	Roy Hung	2774-7406	Started from 1 February 2026

1.4. SUMMARY OF OPERATION WORKS

Detail of the major operation activities undertaken could be referred to Section 1.8 in each monthly EM&A Report.

The status for all environmental aspects is presented in **Table 1.2**.

Table 1.2 Summary of Status for Key Environmental Aspects under the EM&A Manual

Parameters	Status
Water Quality	
Baseline Monitoring under EM&A Manual	The baseline water quality monitoring was conducted between 12 May 2020 to 6 June 2020
Construction Phase Marine Impact Monitoring	Ceased from 1 September 2023
Pre-Operation Phase Marine Impact Monitoring	Ceased from 30 June 2024
Operation Phase Marine Impact Monitoring	Completed on 30 June 2025

Parameters	Status
Impact Monitoring of Effluent Discharge from Main Disinfection	Complete in November 2023 and December 2024
Continuous Monitoring of Effluent Quality	Ceased from 15 August 2026
Monthly Effluent Quality Monitoring (Discharge License Requirement)	On-going
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Completed
Landfill Gas	
Regular Monitoring when construction works are within the 250 m Consultation Zone	According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. No landfill gas monitoring was carried out. The landfill gas monitoring was ceased from 31 October 2024.
Monthly Monitoring for buildings, manholes and utility pits within the Project Site and along the freshwater mains	According to the approved proposal to change the operation phase EM&A programme for the 2 nd to 10 th years, landfill gas monitoring will be conducted on a six-month basis starting from August 2025.
Six-month Basis Monitoring for buildings, manholes and utility pits within the Project Site and along the freshwater mains	On-going
Ecology (Coral)	
Pre-operation phase Regular Coral Monitoring (Monthly)	Completed
Operation phase Regular Coral Monitoring (Monthly)	According to the approved proposal to change the operation phase EM&A programme for the 2 nd to 10 th years, coral monitoring will be conducted on a quarterly basis starting from August 2025.
Operation phase Regular Coral Monitoring (Quarterly)	On-going
Ecology (Fishery)	
Pre-operation phase Regular Fishery Monitoring	Completed
Operation phase Regular Fishery Monitoring	On-going

Waste Management	
Mitigation Measures in Waste Management Plan	On-going
Ecology (Landscape)	
Pre-operation phase Landscape and Visual Site Inspection	Completed
Operation phase Landscape and Visual Site Inspection	According to the approved proposal to change the operation phase EM&A programme for the 2 nd to 10 th years, site inspection will be conducted on a bi-weekly basis starting from 15 August 2025.
Environmental Audit	
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going

Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.

The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the Contract during the reporting period is provided in **Appendix B**.

2. WATER QUALITY

In accordance with the recommendations of the EIA, water quality EM&A is required during dredging for the submarine pipelines and, during operation phase. In addition, baseline water quality monitoring was prior to the commencement of marine construction activities.

The following Section provides details of the water quality monitoring to be undertaken by the Environmental Team (ET) to verify the distance of sediment and brine plume dispersion and to identify whether the potential exists for any indirect impacts to occur to ecological sensitive receivers.

Water quality monitoring for the Contract can be divided into the following stages:

- Dredging activities during construction phase;
- Discharge of effluent from main disinfection during construction phase;
- Pre-operation – before operation phase
- Operation phase – first year upon commissioning; and,
- Continuous monitoring of effluent quality (Operation phase)

In addition, the marine works contractor is required to complete a silt curtain efficiency test for the combined use of floating silt curtain type and cage type silt curtain for dredging at seawater intake to confirm the silt curtain reduction efficiency assumptions of the assessment. The details of testing plan together with the silt curtain deployment plan shall be submitted by the ET to seek approval from the IEC and EPD.

2.1. WATER QUALITY PARAMETERS

Marine Water Quality Monitoring

The parameters that have been selected for measurement in situ and in the laboratory are those that were either determined in the EIA to be those with the most potential to be affected by the construction works or are a standard check on water quality conditions. Parameters to be measured in the impact water quality monitoring are listed in **Table 2.1**.

Table 2.1 Parameters measured in the impact marine water quality monitoring

Parameters	Unit	Abbreviation	Stage
			Operation
In-situ measurements			
Dissolved oxygen	mg/L	DO	✓
Temperature	°C	-	✓
pH	-	-	✓
Turbidity	NTU	-	✓
Salinity	0/00	-	✓
Total Residual Chlorine	mg/L	TRC	✓

Parameters	Unit	Abbreviation	Stage
			Operation
Laboratory measurements			
Suspended Solids	mg/L	SS	✓
Iron	mg/L	Fe	✓

In addition to the water quality parameters, other relevant data were measured and recorded in Water Quality Monitoring Logs, including the location of the sampling stations, water depth, time, weather conditions, sea conditions, tidal stage, current direction and velocity, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

b) Continuous Monitoring of Effluent Quality

The monitoring requirement for the continuous effluent quality monitoring shall be conducted in accordance with the effluent parameters and standards stipulated by the Water Pollution Control Ordinance Discharge License (No.: WT00044188-2023) conditions. Details derived limit levels for water quality are presented in **Table 2.2**.

c) Monthly Effluent Monitoring (Water Discharge License)

In accordance with the WT00044188-2023 Part 1, the sampling should be followed the specified frequency, and the parameters of the sample should not be exceeded the limit stated as the water discharge license. Details derived limit levels for water quality are presented in **Table 2.2**.

Table 2.2 Parameters measured in the Continuous Monitoring of Effluent Quality

Parameters	Unit	Abbreviation
In-situ measurements		
Temperature	°C	-
pH	pH	-
Salinity	0/00	-
Total Residual Chlorine	mg/L	TRC
Laboratory measurements		
Suspended Solids	mg/L	SS
Iron-Soluble	mg/L	Fe
Total Inorganic Nitrogen	mg/L	-
Total Phosphorus	mg/L	-
Sodium Metabisulphite	mg/L	SMBS
Anti-scalant as Reactive Phosphorus *	mg/L	PO4 as P-

*Remark: Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

Table 2.3 Derived Limit Levels for Water Quality

Parameters	Limit
Monitoring of Effluent Quality	
Flow Rate in m ³ /day	216841
Temperature in °C	Maximum 40
Salinity	71347
SS in mg/L	13
pH	6-9
Iron in mg/L	0.6
Total residual chlorine in mg/L	0.1
Total Inorganic Nitrogen in mg/L	2
Total Phosphorous in mg/L	1
Sodium Metabisulphite in mg/L	0.5
Anti scalant in mg/L*	2.2

*Remark:

1. Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

2.2. MONITORING EQUIPMENT

The monitoring methodology, monitoring equipment and QA/QC procedure could refer to the Monthly EM&A Report.

2.3. MONITORING LOCATION

Marine Water Quality Monitoring

The water quality monitoring locations are in accordance with the EM&A Manual and detailed in **Table 2.3** and **Figure 2.1** below.

Table 2.3 Location of Impact Water Quality Monitoring Station

Station	Easting	Northing	Description
CE	843550	815243	Upstream control station at ebb tide
CF	846843	810193	Upstream control station at flood tide
WSR1	846864	812014	Ecological sensitive receiver at Tung Lung Chau
WSR2	847645	812993	Fisheries sensitive receiver at Tung Lung Chau
WSR3	848023	813262	Ecological sensitive receiver at Tung Lung Chau
WSR4	847886	814154	Ecological sensitive receiver at Tai Miu Wan
WSR16	845039	815287	Ecological sensitive receiver at Fat Tong Chau

Station	Easting	Northing	Description
WSR33	847159	814488	Ecological sensitive receiver at Tai Miu Wan
WSR36	846878	814081	Ecological sensitive receiver at Kwun Tsai
WSR37	846655	813810	Ecological sensitive receiver at Tit Cham Chau
NF1*	846542	813614	Edge of mixing zone, ~ 200m west of outfall diffuser
NF2*	846942	813614	Edge of mixing zone, ~ 200m east of outfall diffuser
NF3*	846742	813414	Edge of mixing zone, ~ 200m south of outfall diffuser

Remark*: NF1 to NF3 are added for the operation phase of TKODP in accordance with Table 5.3 in the approved EM&A Manual.

WSR1 to WSR37 were identified in accordance with Annex 14 of the EIAO-TM as well as Clause 3.4.4.2 of the Environmental Impact Assessment Study Brief for Desalination Plant at Tseung Kwan O (No. ESB-266/2013). WSR1 to WSR3 are sited near the Tung Lung Chau Fish Culture Zone; WSR16 and WSR36 are sited near the coral assemblages along the coastlines of Fat Tong Chau and Kwun Tsai respectively; WSR 4 and WSR33 are sited near the Coastal Protection Area and coral assemblages in waters of Tai Miu Wan; WSR37 is sited near the fisheries resource including spawning and nursery grounds at the coastal water of Tit Cham Chau. NF1 to NF3 are the Edge of Mixing zone.

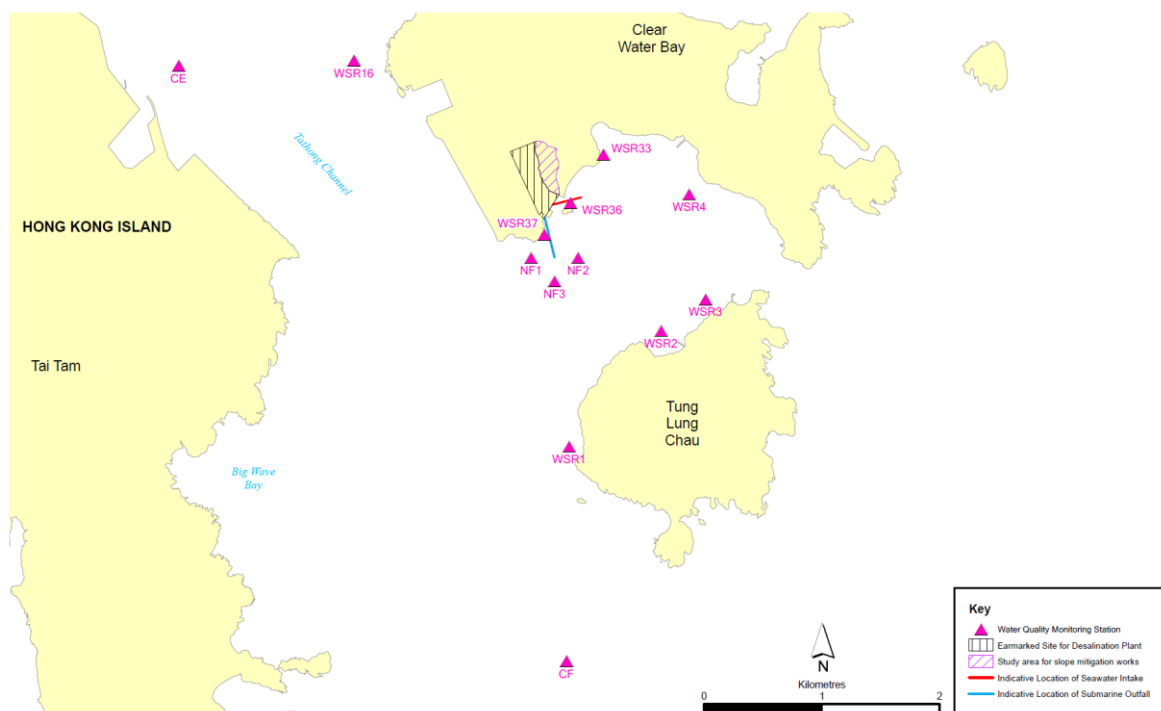


Figure 2.1 Water quality monitoring locations under EM&A Manual

b) Monitoring of Effluent Quality

In accordance with the discharge license, the Continuous Monitoring shall be sampling at Brine Outfall Shaft.

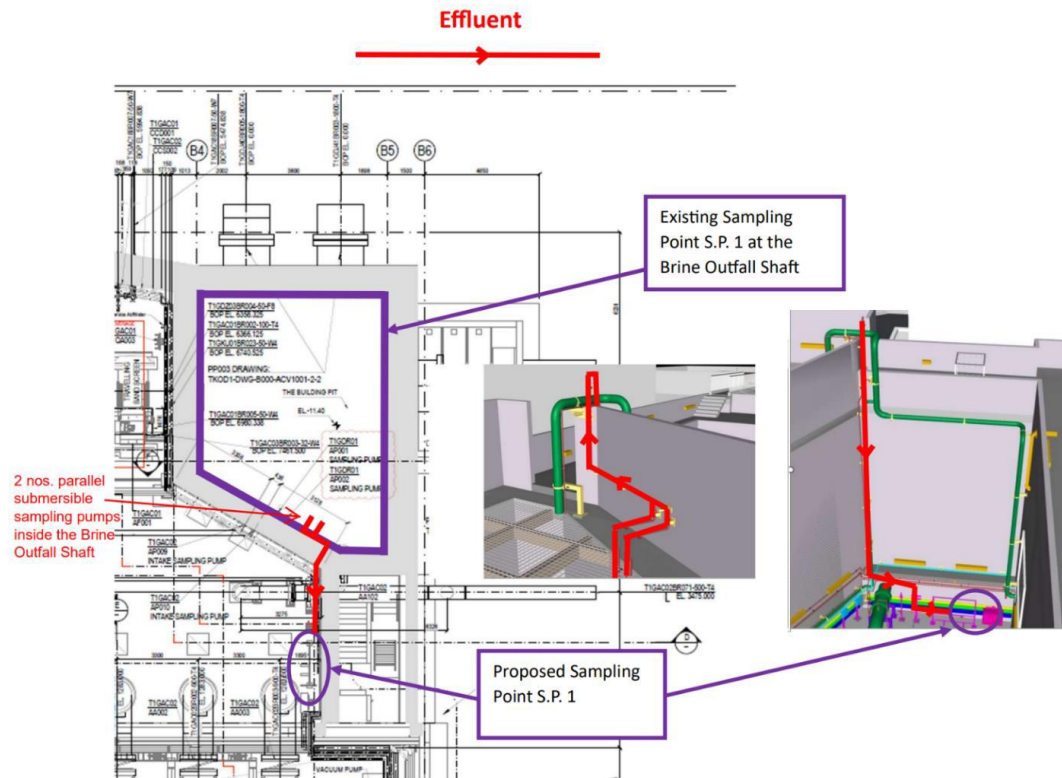


Figure 2.2 Effluent Monitoring locations

2.4. ACTION AND LIMIT LEVELS

a) Marine Water Quality Monitoring

The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. Based on the baseline water quality monitoring data and the derivation criteria, the Action/Limit Levels have been derived and are presented in **Table 2.4**.

Table 2.4 Derived Action and Limit Levels for Water Quality

Parameters	Action	Limit
Marine Water Quality Monitoring		
DO in mg/L	<u>Surface and Middle</u> 7.30 mg L ⁻¹ <u>Bottom</u> 7.31 mg L ⁻¹ <u>Tung Lung Chau Fish Culture Zone</u> 5.1 mgL ⁻¹ or level at control station (Whichever the lower)	<u>Surface and Middle</u> 4 mg L ⁻¹ <u>Bottom</u> 2 mg L ⁻¹ <u>Tung Lung Chau Fish Culture Zone</u> 5.0 mgL ⁻¹ or level at control station (Whichever the lower)
SS in mg/L (Depth-averaged)	5.00 mg L ⁻¹ or 20% exceedance of value at any impact station compared with corresponding data from control station	6.00 mg L ⁻¹ or 30% exceedance of value at any impact station compared with corresponding data from control station
Turbidity in NTU (Depth-averaged)	2.41 NTU or 20% exceedance of value at any impact station compared with corresponding data from control station	2.84 NTU or 30% exceedance of value at any impact station compared with corresponding data from control station
Salinity in PSU (Depth-averaged)	34.25 PSU or 9% exceedance of value at any impact station compared with corresponding data from control station	34.56 PSU or 10% exceedance of value at any impact station compared with corresponding data from control station
Iron in mg/L (Depth-averaged)	0.3 mg/L	0.3 mg/L
Total residual chlorine in mg/L	0.01 mg/L	0.01 mg/L
Total residual chlorine in mg/L (Disinfection)	0.1 mg/L	0.1 mg/L

Notes:

- "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- For Turbidity, SS, iron and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- For the Action and Limit Levels adopted during First-year Operation Phase Monitoring, further review would be made according to the EM&A Manual during Operation Phase.

- v. Monitoring of Total Residual Chlorine (Disinfection) will be conducted when cleaning and sterilization of the new freshwater main is carried out.
- vi. Monitoring of Iron and Total Residual Chlorine were conducted during the pre-operation phase.

b) Monitoring of Effluent Quality

Table 2.5 Derived Limit Levels for Water Quality

Parameters	Limit
Continuous Monitoring of Effluent Quality	
Flow Rate in m ³ /day	216841
Temperature in °C	Maximum 40
Salinity	71347
SS in mg/L	13
pH	6-9
Iron in mg/L	0.6
Total residual chlorine in mg/L	0.1
Total Inorganic Nitrogen in mg/L	2
Total Phosphorous in mg/L	1
Sodium Metabisulphite in mg/L	0.5
Anti scalant in mg/L*	2.2

*Remark:

1. Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

2.5. MONITORING PROGRAMME

Marine Water Quality Monitoring

The ET of the Contract conducted the operation phase marine water quality monitoring **between 1 May 2025 and 30 June 2025** at the thirteen designated monitoring stations near TKO in accordance with the EM&A Manual and Contract Specification.

2.6. MONITORING RESULTS AND OBSERVATIONS

Operation Phase

The first-year operation phase marine water quality monitoring was carried out during the reporting period, the monitoring was conducted at the thirteen monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2 and NF3). The Action and Limit Level would be referred to the approved EM&A Manual Table 5.4 First-year Operation Phase Marine Water Monitoring.

The water quality monitoring at the designated locations were conducted by the ET as scheduled in the reporting period. The graphical presentation of the water quality monitoring result was shown in **Appendix C**.

A total of **three (3)** action level exceedances and **eleven (11)** limit level exceedances of SS were recorded. Summary of exceedances could be referring to **Appendix F**.

Continuous Monitoring of Effluent Quality

The continuous monitoring of effluent quality was conducted from **1 May 2025 to 31 July 2025**. No exceedance of the sampling was obtained during the reporting period.

Monthly Effluent Monitoring (Water Discharge License)

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, continuous monitoring of effluent quality was discontinued and replaced with effluent water monitoring in compliance with discharge license requirements starting from 15 August 2025.

Weekly in-situ monitoring and monthly laboratory measurements of the effluent quality were conducted from **September 2025 to April 2026**. No exceedance of the results was obtained during the reporting period. The detailed results can be referred to the Monthly EM&A Report.

3. WASTE

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. Details of cumulative waste management data are presented as a waste flow table in **Appendix E**.

4. LANDFILL GAS MONITORING

4.1. MONITORING REQUIREMENT

In accordance with Section 11 of the EM&A Manual, monthly monitoring of landfill gas is required for the first year of operation at buildings within the Project Site and consultation zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter freshwater mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.

Routine monitoring is required at buildings within the Project Site and consultation zones. The monitoring frequency will be monthly for the first year of operation.

For the manholes and utility pits within the Project Site and along the fresh water mains, each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement.

Monitoring oxygen, methane, carbon dioxide and barometric pressure would be performed monthly during the operation phase.

The area required to be monitored for landfill gas in the reporting period is shown in **Figure 4.1, Figure 4.2 and Figure 4.3.**

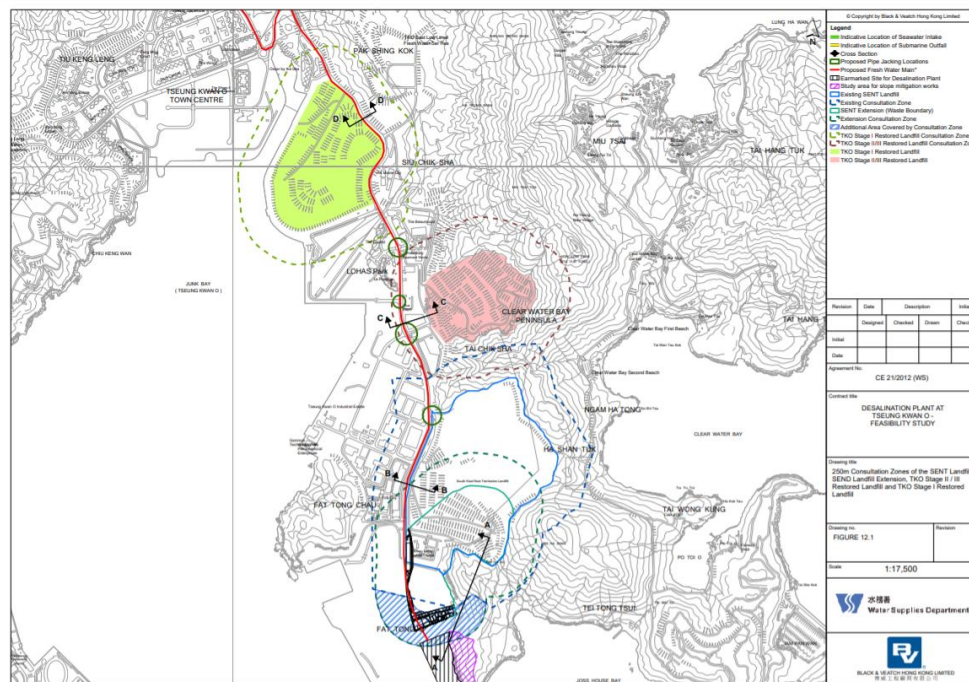


Figure 4.1 Overview of the SENT Extension Consultation Zone and the Contract Site Area

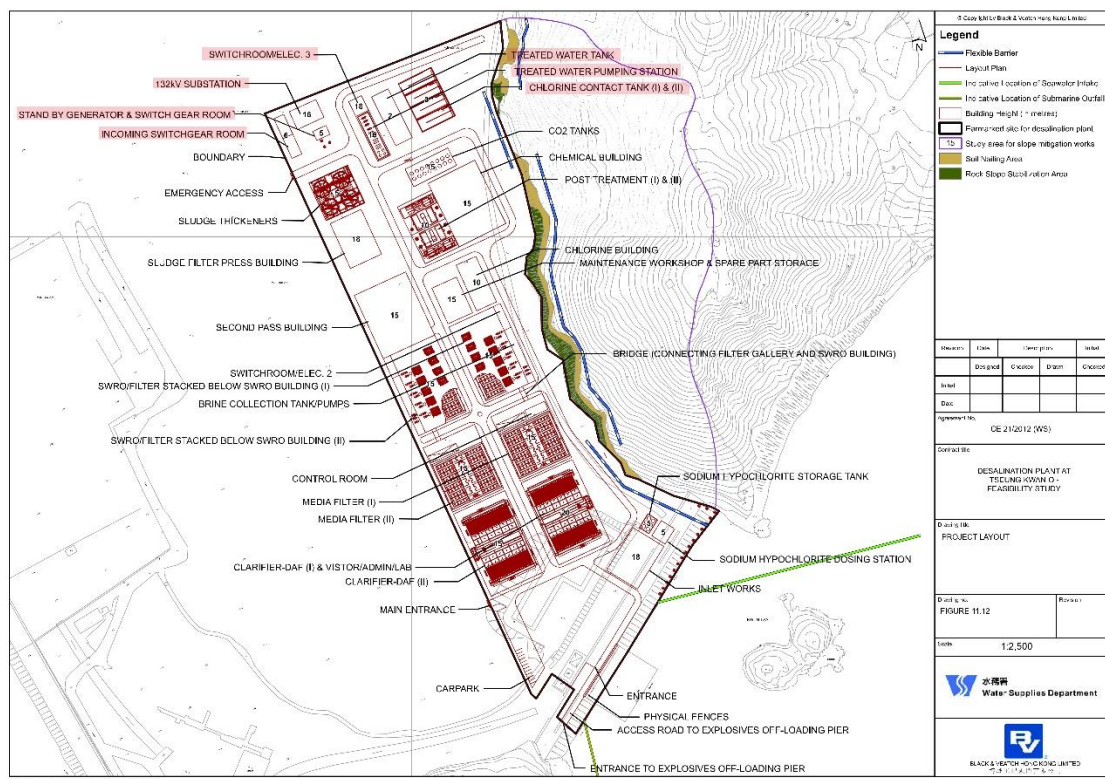


Figure 4.2 Landfill Gas Monitoring Location For Building



4.4. MONITORING RESULTS AND OBSERVATIONS

Five (5) times of landfill gas monitoring were conducted in the reporting period. No action or limit level exceedance was recorded in the reporting period.

Action and Limit Level are provided in **Table 4.1**.

Table 4.1 Action / Limit Levels and Event and Action Plan for LFG Hazard

Parameters	Action Level	Limit Level
Oxygen (O ₂)	<19% O ₂	<19% O ₂
Methane (CH ₄)	>10% LEL	>20% LEL
Carbon Dioxide (CO ₂)	>0.5% CO ₂	>1.5% CO ₂

5. ECOLOGY (CORAL MONITORING)

Under the approval conditions of the EIA Report for the Project, an EM&A programme on coral for the pre-operation phase of the Project is recommended. Pursuant to these EIA approval conditions and Condition 3.1 of the EP and FEP, details of the regular coral monitoring programme have been proposed based on the baseline coral monitoring results in the Report on Pre-Operation Baseline Coral Monitoring and Regular Coral Monitoring Methodology.

MONITORING LOCATION

In accordance with Appendix B Section 5.1 of the approved supplementary EM&A Manual, two indirect impact sites (C2 and C3) and one control site (C8) as shown in **Figure 5.1** should be monitored during the pre-operation Phase. Pre-operation coral survey should be conducted at the indirect impact and control sites. Ten selected hard coral colonies with similar species should be tagged at each of the control and indirect impact sites before commencement of the operation phase. Tagged hard coral colonies should be monitored in open waters during the pre-operation phase and operation phase.

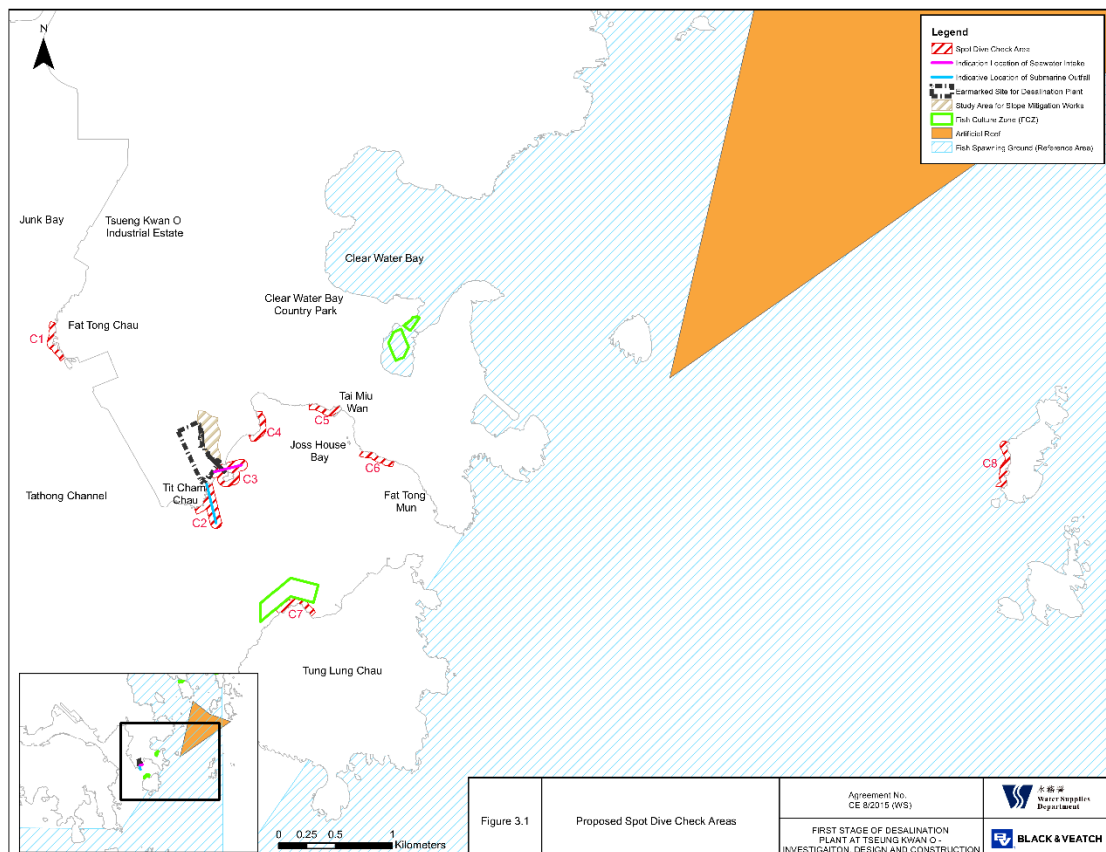


Figure 5.1 Spot Dive Check Areas Two Proposed Indirect Impact Sites (C2 and C3) and one control site (C8) during pre-operation Phase

ACTION AND LIMIT LEVELS

The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in **Table 5.1**.

Table 5.1 Action and Limit Level for Coral Monitoring Equipment

Parameter	Action Level Definition	Limit Level Definition
Mortality	If during Impact Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Action Level is exceeded	If during Impact Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Limit Level is exceeded

Note: If the defined Action Level or Limit Level for coral monitoring is exceeded, the actions as set out in **Table E3 of Appendix E** will be implemented.

If non-compliance were found during the construction works, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix H**.

MONITORING FREQUENCY

Operation phase coral monitoring shall be monitored once per month as the requirement of the first year of operational phase.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, coral monitoring will be conducted on a quarterly basis starting from August 2025.

MONITORING RESULT AND OBSERVATION

A total of **eight (8)** operation phase coral monitoring were conducted. There were no AL/LL exceedances observed during the reporting period. The detailed result of the monitoring is presented in Appendix I of the Monthly EM&A Report.

6. ECOLOGY (FISHERY MONITORING)

The purpose of the operation phase regular fisheries monitoring programme is to monitor the potential impacts on fisheries resources in the vicinity of the project site. Apart from the regular fisheries monitoring programme, a water quality monitoring programme in addition to the water quality monitoring programme in the approved EM&A Manual is also described in Section 2.4 to (i) provide supplementary information in the interpretation of the findings of the fisheries monitoring and (ii) assist the monitoring of the potential impact on the Tung Lung Chau Fish Culture Zone (FCZ) in Joss House Bay.

MONITORING LOCATION

In accordance with Section 2.3 of the approved Methodology Paper on Regular Fisheries Monitoring, it is recommended to set up six (6) fisheries monitoring locations in Joss House Bay and its vicinity to monitor the fisheries resources.

Two (2) sampling locations are set up in close proximity of the direct footprint of the proposed submarine utilities around TKO Area 137. These sampling locations represent the potential Project impact zones (i.e. areas at and in close proximity to the footprint of the proposed submarine utilities that will be directly affected by the Project works).

Two (2) gradient locations are proposed between the proposed submarine utilities and Tung Lung Chau FCZ to assist in the interpretation and identification of any potential fisheries impact in the vicinity of the FCZ.

Two (2) reference locations are proposed in the outer Joss House Bay between the waters of Tung Lung Chau and Fat Tong Mun. These reference locations are further away and will not be affected by the Project discharge (based on the EIA prediction) and will serve as control stations. Any significant fisheries impact identified at the reference locations should be caused by other natural factors or non-Project activities. The trends of fisheries conditions recorded in the reference locations will be used to assist in the interpretation of the trends of fisheries impact identified in the impact and gradient locations.

The coordinates of the proposed monitoring locations are shown in **Figure 7.1**.

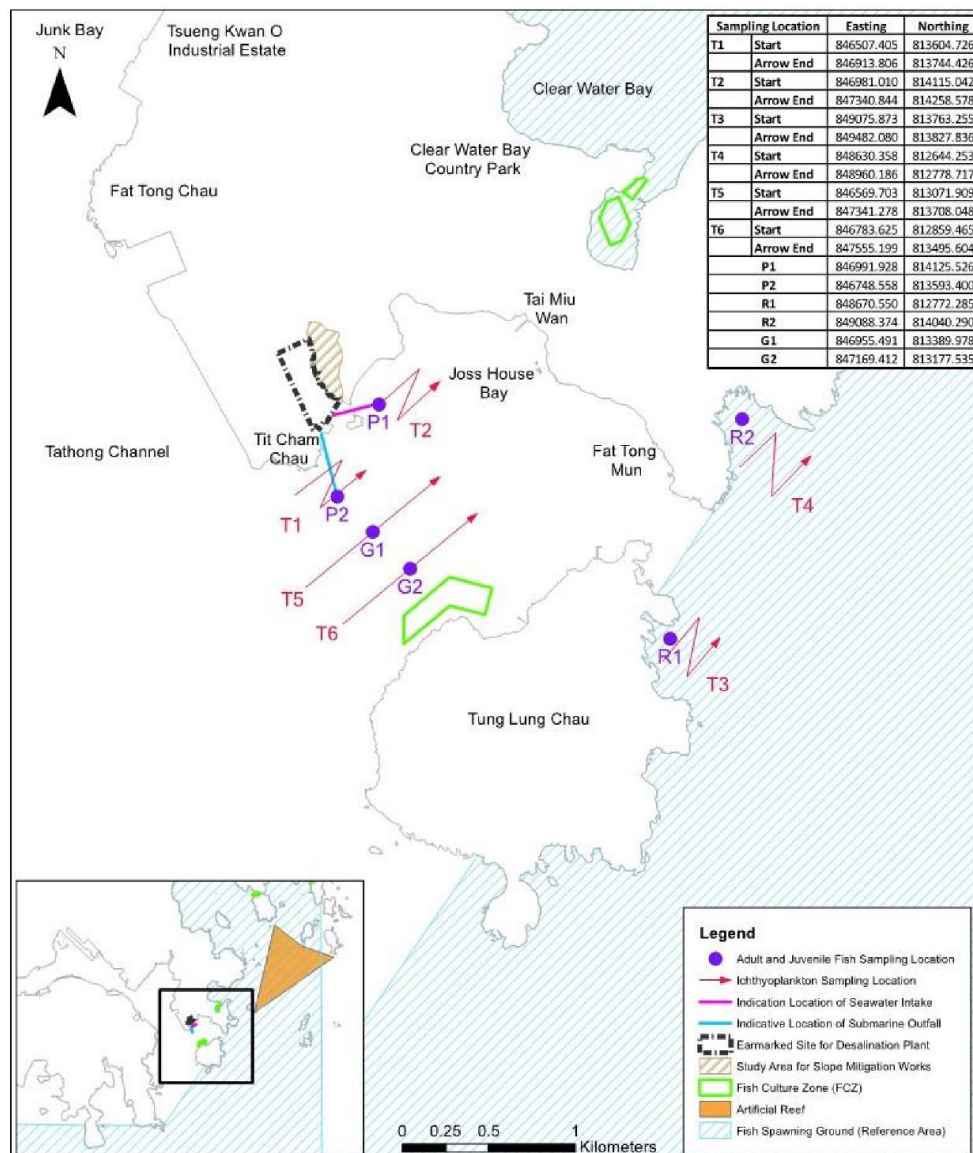


Figure 7.1 Monitoring location of regular fishery monitoring during operation Phase

MONITORING FREQUENCY

Pre-operation phase fishery monitoring shall be carried out 2 times in wet season (April to October) and 2 times in dry season (November to March) to examine the following:

- Fish species composition;
- Abundance: number of fish captured;
- Diversity of fish resources: species diversity and evenness;
- Size: range of total length; Biomass in weight; and
- Values of catches of commercial species: catch per unit effort (CPUE) and yield per unit effort (YPUE).

MONITORING RESULT AND OBSERVATION

Four (4) operation phase fishery monitoring were conducted during the reporting period. For wet season was carried out in 16 and 23 August 2025 and for dry season was carried out in 7 and 15 February 2026. No AL/LL exceedance was recorded during the reporting period. The detailed result of the monitoring is presented in the Monthly EM&A Report.

7. SUMMARY OF EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

The Environmental Complaint Handling Procedure is shown in below **Figure 8.1:**

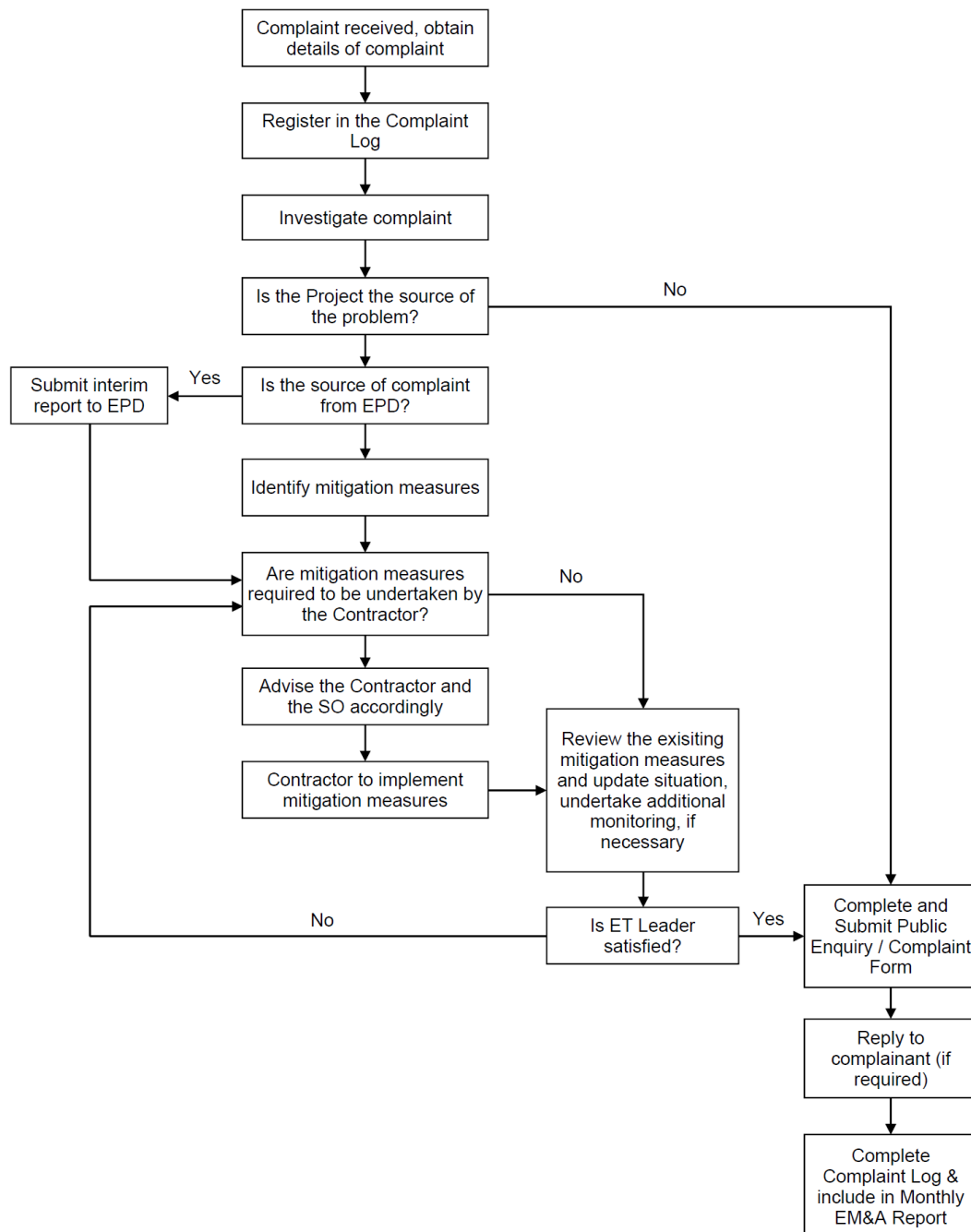


Figure 8.1 Environmental Complaint Handling Procedures

Operation Phase Impact Water Quality Monitoring was conducted from 1 May 2025 and completed on 30 June 2025. A total of three (3) action level exceedances and eleven (11) limit level exceedances of SS were recorded.

The continuous monitoring of effluent quality was conducted from 1 May 2025 to 31 July 2025. No exceedance of the sampling was obtained during the reporting period.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, continuous monitoring of effluent quality was discontinued and replaced with effluent water monitoring in compliance with discharge license requirements starting from 15 August 2025.

Weekly in-situ monitoring and monthly laboratory measurements of the effluent quality were conducted from September 2025 to April 2026. No exceedance of the results was obtained during the reporting period. The detail results can be referred to the Monthly EM&A Report.

Monthly operational landfill gas monitoring was conducted from 1 May 2025 to 31 July 2025.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, landfill gas monitoring will be conducted on a six-month basis starting from August 2025.

A total of five (5) landfill gas monitoring was conducted during the reporting period. No exceedances of the Action or Limit Levels were recorded during the reporting period.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, coral monitoring will be conducted on a quarterly basis starting from August 2025.

A total of eight (8) operation phase coral monitoring was conducted. There were no AL/LL exceedances observed during the reporting period.

Four (4) operation phase fishery monitoring were conducted during the reporting period. For wet season was carried out in 16 and 23 August 2025 and for dry season was carried out in 7 and 15 February 2026. No AL/LL exceedance was recorded during the reporting period.

No complaint, notification of summons and prosecution was received in the reporting period. Summary of complaint log are presented in **Appendix G**.

8. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract from [May 2025 to August 2025](#).

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, site inspection will be conducted on a bi-weekly basis starting from [15 August 2025](#).

[Thirty-seven \(37\)](#) site inspections were carried out in the reporting period.

Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period could be referring to **Appendix D** and corresponding Monthly Report.

According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix B**.

9. CONCLUSIONS AND RECOMMENDATIONS

This is the 6th Annual EM&A Review Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May 2025 to 30 April 2026, in accordance with the EM&A Manual and the requirement under FEP – 01/503/2015/A and FEP – 01/503/2015/B.

Operation Phase Impact Water Quality Monitoring was conducted from 1 May 2025 and completed on 30 June 2025. A total of three (3) action level exceedances and eleven (11) limit level exceedances of SS were recorded.

The continuous monitoring of effluent quality was conducted from 1 May 2025 to 31 July 2025. No exceedance of the sampling was obtained during the reporting period.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, continuous monitoring of effluent quality was discontinued and replaced with effluent water monitoring in compliance with discharge license requirements starting from 15 August 2025.

Weekly in-situ monitoring and monthly laboratory measurements of the effluent quality were conducted from September 2025 to April 2026. No exceedance of the results was obtained during the reporting period. The detail results can be referred to the Monthly EM&A Report.

Monthly operational landfill gas monitoring was conducted from 1 May 2025 to 31 July 2025.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, landfill gas monitoring will be conducted on a six-month basis starting from August 2025.

A total of five (5) landfill gas monitoring was conducted during the reporting period. No exceedances of the Action or Limit Levels were recorded during the reporting period.

According to the approved proposal to change the operation phase EM&A programme for the 2nd to 10th year, coral monitoring will be conducted on a quarterly basis starting from August 2025.

A total of six (6) operation phase coral monitoring was conducted. There were no AL/LL exceedances observed during the reporting period.

Four (4) operation phase fishery monitoring were conducted during the reporting period. For wet season was carried out in 16 and 23 August 2025 and for dry season was carried out in 7 and 15 February 2026. No AL/LL exceedance was recorded during the reporting period.

Environmental site inspection was conducted during the reporting period. Minor deficiency was observed during site inspection. The environmental performance of the project was therefore considered satisfactory.

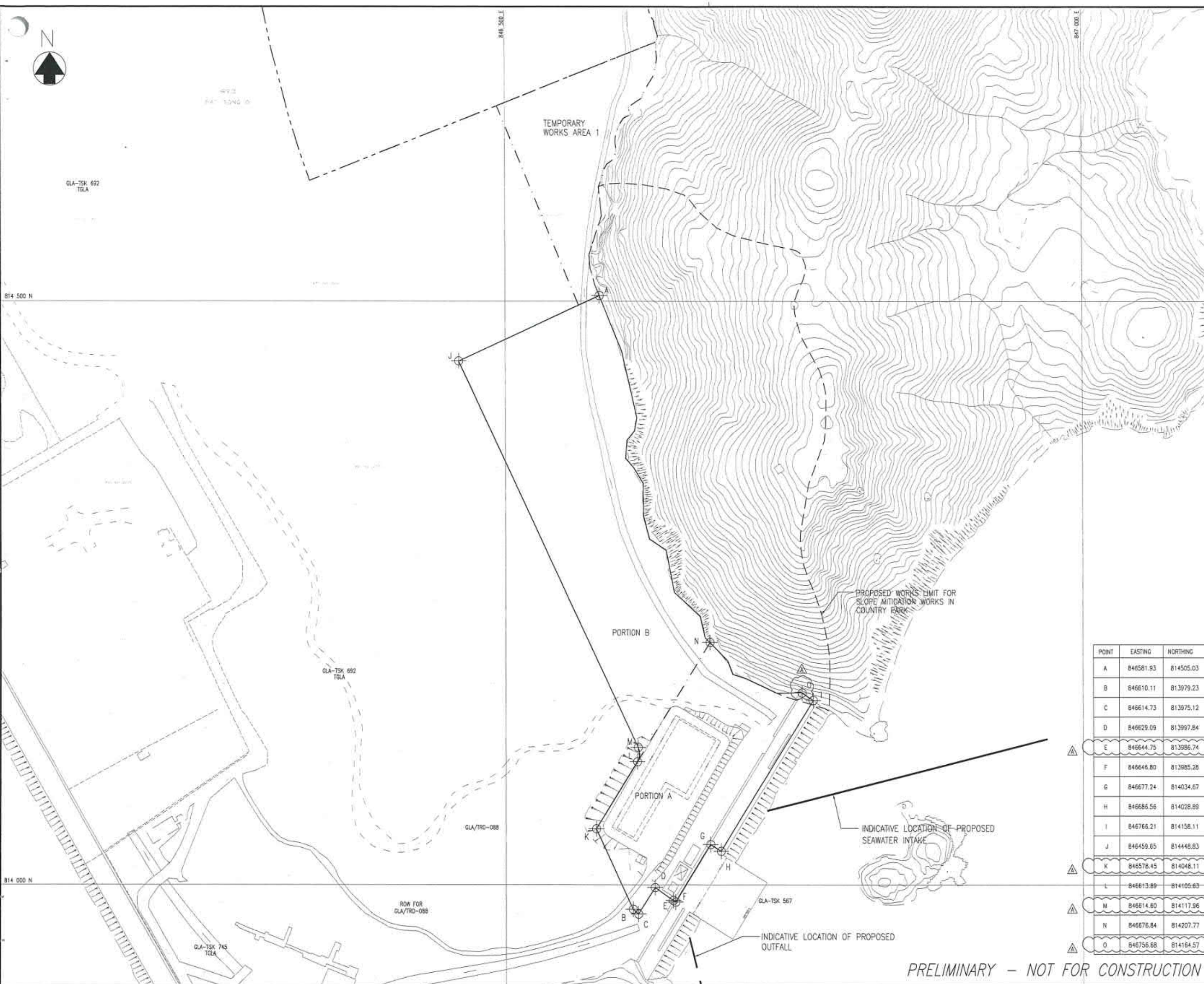
According to the environmental site inspections performed in the reporting period, the Contractor is reminded to pay attention on maintaining proper materials storage, site tidiness and chemical storage on site.

No environmental complaint, notifications of summons and prosecution was received during the reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A

Overview of Desalination Plant in Tseung Kwan O



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LEGEND:

- BOUNDARY OF SEMI LANDFILL EXTENSION
- BOUNDARY OF WORKS AREA FOR TWO DESALINATION PLANT
- - - SITE PHASING
- ALLOCATED LAND BOUNDARIES

NOTE: TEMPORARY WORKS AREA 1 WILL BE HANDED OVER AT +6 MPD WITH A TOLERANCE OF ±500mm.

Revision	Date	Description	Initial
B	10/03	UPDATE NOTES	YLC
A	07/18	UPDATE COORDINATES	YLC
	Designed	Checked	Drawn
Initial	YLC	CKH	SZ
Date	02/18	02/18	02/18

Approved: 

Agreement No. CE 8/2015 (WS)

Contract No. 13/WSD/17

Contract Title
DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT

Drawing Title
SITE HANDOVER WORKS AREAS

Drawing No.	Revision
190495/K/TEND/10/0003	B

Scale: A1 1 : 1500
A3 1 : 3000



水務署
Water Supplies Department



BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司

POINT	EASTING	NORTHING
A	846581.93	814505.03
B	846610.11	813979.23
C	846614.73	813975.12
D	846629.09	813997.84
E	846644.75	813986.74
F	846646.80	813985.28
G	846677.24	814034.67
H	846686.56	814028.89
I	846766.21	814158.11
J	846459.65	814448.83
K	846578.45	814048.11
L	846613.89	814105.63
M	846614.60	814117.96
N	846676.84	814207.77
O	846756.68	814164.57

PRELIMINARY – NOT FOR CONSTRUCTION

BUILDINGS IN FIRST STAGE

CODE	NAME OF BUILDING	TOTAL G.F.A. (m²)	SITE COVERAGE (m²)
B	COMBINE SHAFT	759,876	759,876
C	ACTIDAFF	10027,547	5455,346
G	REVERSE OSMOSIS BUILDING AND ELECTRICAL BUILDING	4511,455	5367,935
H	CO2 TANKS AREA	-	-
J	PRODUCT WATER STORAGE TANK, PUMP STATION AND ELECTRICAL BUILDING	1974,610	2933,980
K	SLUDGE TREATMENT BUILDING, TANK AND PUMP ROOM	2531,044	1228,361
M	ADMINISTRATION BUILDING & ELECTRICAL BUILDING C	2450,713	1114,062
N	MAIN ELECTRICAL AND CENTRAL CHILLER PLANT BUILDING	-	409,893
R1	ELECTROCHLORINATION BUILDING & ELECTRICAL BUILDING A	657,992	825,776
S	132 KV SUBSTATION	-	943,590
T	IRRIGATION WATER TANK AND PUMP ROOM	-	156,148
R2	CHEMICAL BUILDING	813,056	613,056
V	VISITOR GALLERY	1330,410	1330,410
X1	GUARD HOUSE AND FS CONTROL ROOM	39,585	39,585
X2	GUARD HOUSE	22,035	22,035
Y	R + D OUTDOOR	-	-
Z	WASTE WATER TREATMENT PLANT	48,000	48,000
TOTAL =		25175,323	21490,023

LEGEND / ABBREVIATION

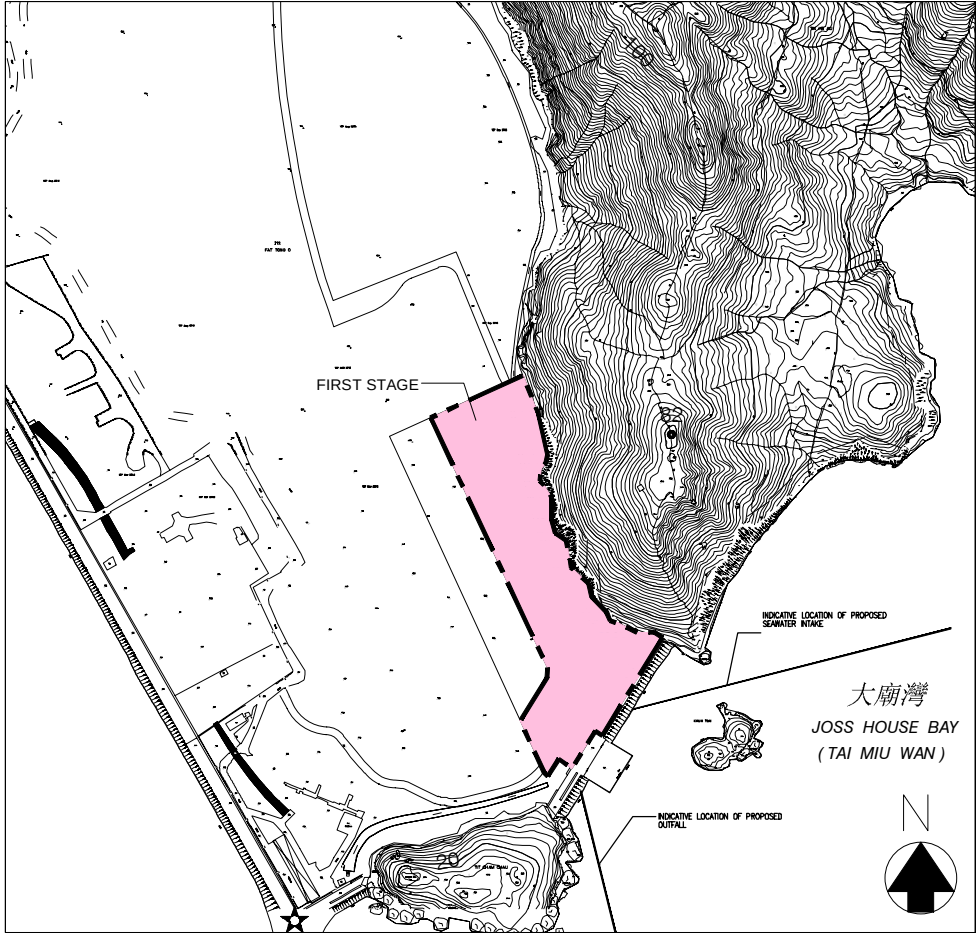
H/L WINDOW	HIGH LEVEL WINDOW
M.L.	METAL LOUVRES
C.L.	CAT LADDER
A.U.T.	ACCESSIBLE UNISEX TOILET
⊕	PROPOSED FINISH FLOOR LEVEL IN METER ABOVE P.D.
⊕	STRUCTURAL FLOOR LEVEL IN METER ABOVE P.D.
M.V.I.A.L.	MECHANICAL VENTILATION & ARTIFICIAL LIGHTING
F.E.	4.5kg CO ₂ FIRE EXTINGUISHER
H.R.	HOSE REEL
Ⓐ	FIREMAN'S LIFT
Ⓢ	LIFT FOR THE BARRIER FREE ACCESS
P.D.	PIPE DUCT

PLOT RATIO & SITE COVERAGE CALCULATION:

SITE AREA OF THE FIRST STAGE	= 25175.323 m²
TOTAL G.F.A.	= 25175.323 m²
TOTAL SITE COVERAGE	= 21490.023 m²
PLOT RATIO	= 25092.141 / 56108 = 0.447 < PERMITTED
SITE COVERAGE	= 21414.841 / 56108 x 100 = 38.167%

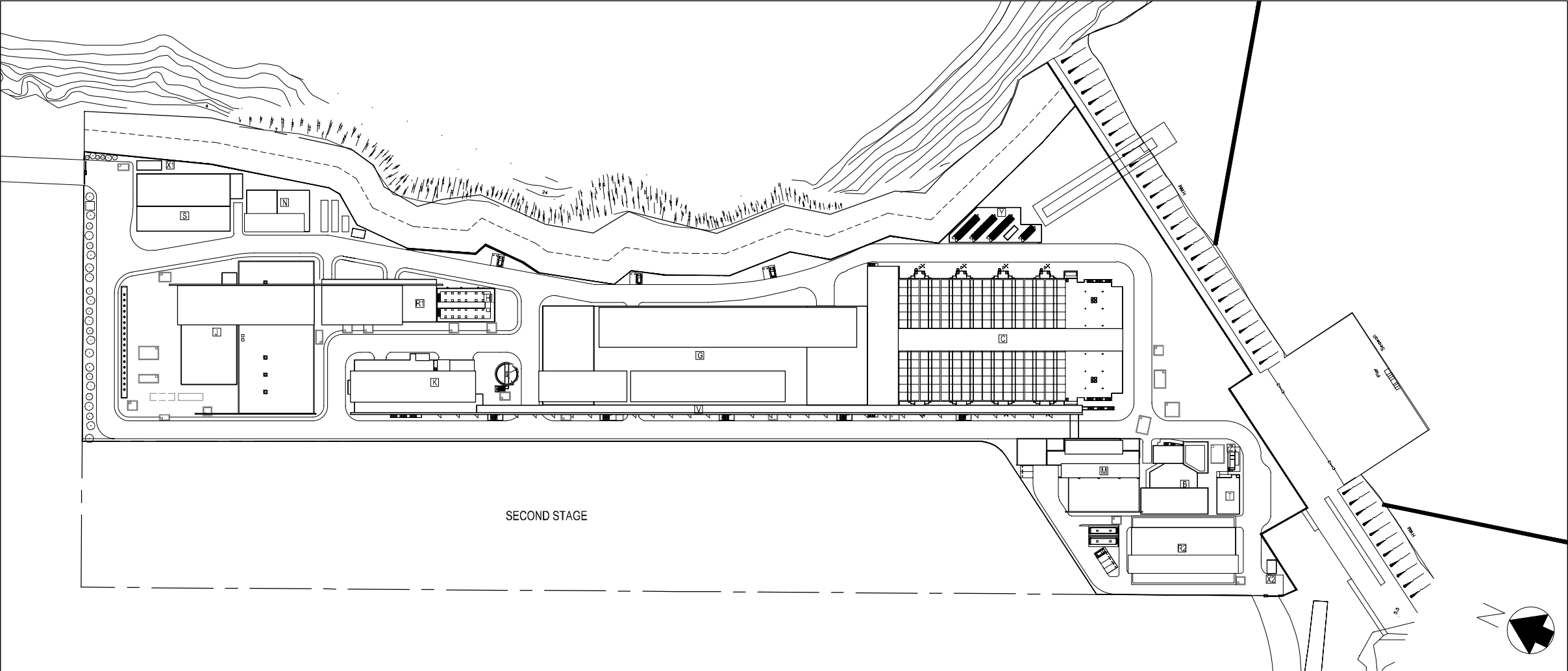
SITE LOCATION PLAN

1 : 5000



FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT

1 : 1000



0	TENDER SUBMISSION	CAD	JAN 19
Rev	Description	By	Date
Employer			
			
Employer's Consultant			
			
Tenderer			
			
Designer			
			
Project title			
CONTRACT NO. 13/WSD/17			
DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT			
Drawing title			
ARCHITECTURAL – PLOT RATIO AND SITE COVERAGE CALCULATION, LEGEND ABBREVIATION			
Drawing no. TKO/AJC/W/A000/AR/001			Rev. 0
Drawn OKAL	Date JAN 19	Checked S.C.	Approved T.C.
Scale N.T.S.	Status —		

Appendix B

Summary of Implementation Status of Environmental Mitigation

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
Air Quality								
S4.8.1	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		✓	✓	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites
Water Quality								
S6.9 and S6.12	The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer.	Sterilization of water mains prior to commissioning	Contractor(s)		✓	✓	Implemented	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters
S6.9	The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.	Sterilization of water mains prior to commissioning	Contractor(s)		✓	✓	Implemented	
S6.9	Site drainage should be well maintained, and good construction practices should be observed to ensure that oil, fuels, solvents, and other chemicals are managed, stored and handled properly and do not enter the nearby water streams.	Land site & drainage/ During construction/ During operation	Contractor(s)		✓	✓	Implemented	-
Waste Management								
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		✓	✓	Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented after reminder	
S8.5	Adequate number of waste containers will be provided to avoid over-spillage of waste.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	-
S8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminum can, wastepaper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	-
Landscape & Visual								
S11.10 & 11.11	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented	-

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
S11.10 & 11.11	At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented	-
S11.10 & 11.11	Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to: - green roofs where practical (i.e. without equipment on the roof); - roadside planting; - aesthetic treatment of all structures; - vertical greening; - screen planting along application site; and - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible, to reduce their visual impact and blend them into the surrounding landscape. (MM3)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented	-
S11.10 & 11.11	All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented	ETWB TCW No. 3/2006 - Tree Preservation.
S11.10 & 11.11	No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented	DEVB TC(W) No. 10/2013
S11.10 & 11.11	Any slope mitigation works necessary to address natural terrain hazards, will be minimized to minimize any potential environmental impact to the Country Park e.g. soil nailing and rock stabilization will aim to avoid existing trees e.g. should any restoration of vegetation be necessary, the best planting matrix with native species will be established, with the aim of resembling the existing vegetation. (MM6)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented	
S11.10 & 11.11	Dredging works for the installation of intake structures and outfall diffusers should be minimized to avoid or reduce any potential environmental impacts to as low as reasonably practicable (ALARP). The intake and outfall structures (e.g. intake openings and diffuser heads) will be prefabricated and transferred to site for	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented	

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
	installation. (MM7)							
S11.10 & 11.11	All night-time lighting will be reduced to a practical minimum both in terms of number of level and will be hooded and directional. (MM8) units and lux level and will be hooded and directional. (MM8)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented	-
Landfill Gas Hazard								
S12.7	During all works, safety procedures should be implemented to minimize the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	-
S12.7	During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 meter.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance. Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the concentrations of methane. carbon dioxide and oxygen.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
S12.7	Proceed drilling with adequate care and precautions against the potential hazards which may be encountered.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	Prior to the commencement of the site works, the drilling contractor should devise a 'method-of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, supervisors responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site supervisor and all operatives must be familiar with this statement.	All area/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence grilled metal covers should be used.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	
S12.7	All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓	✓	✓	Implemented	

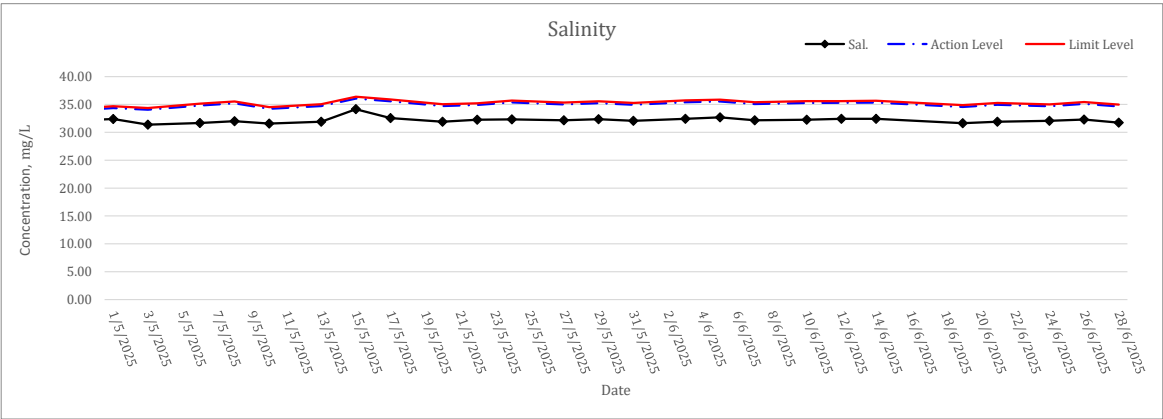
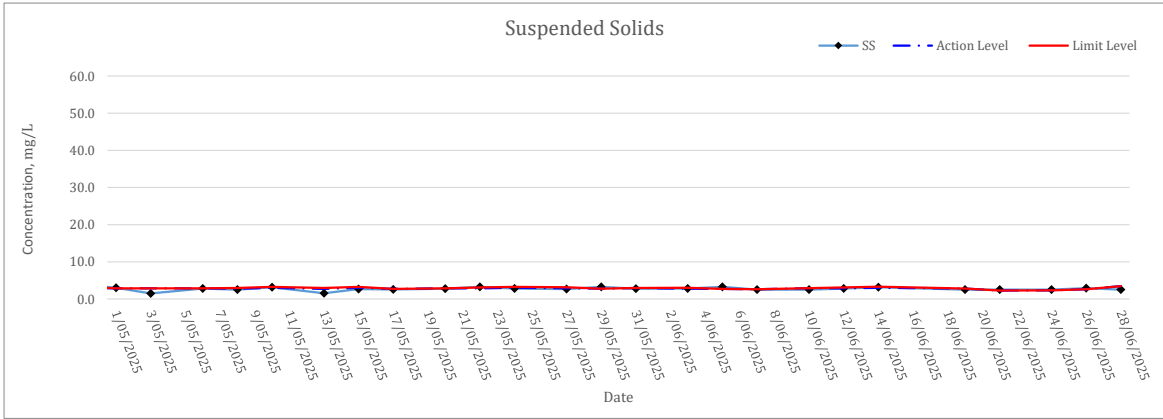
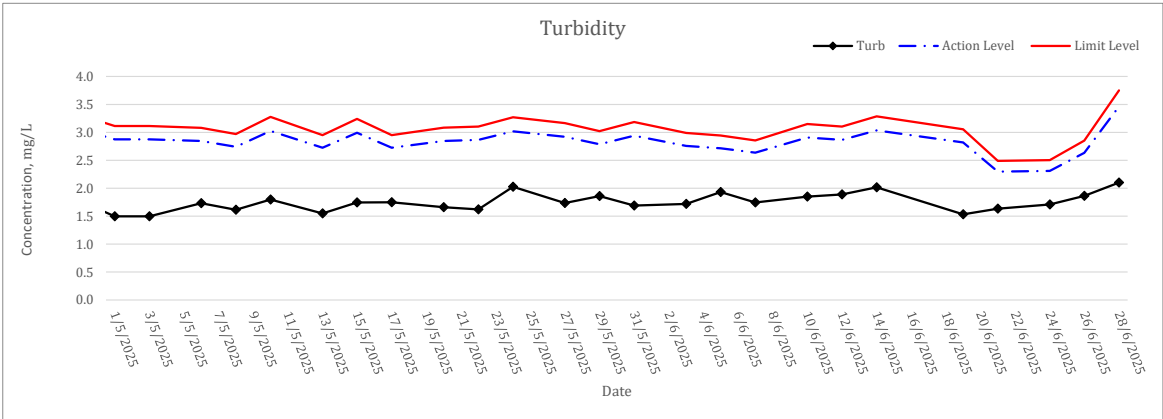
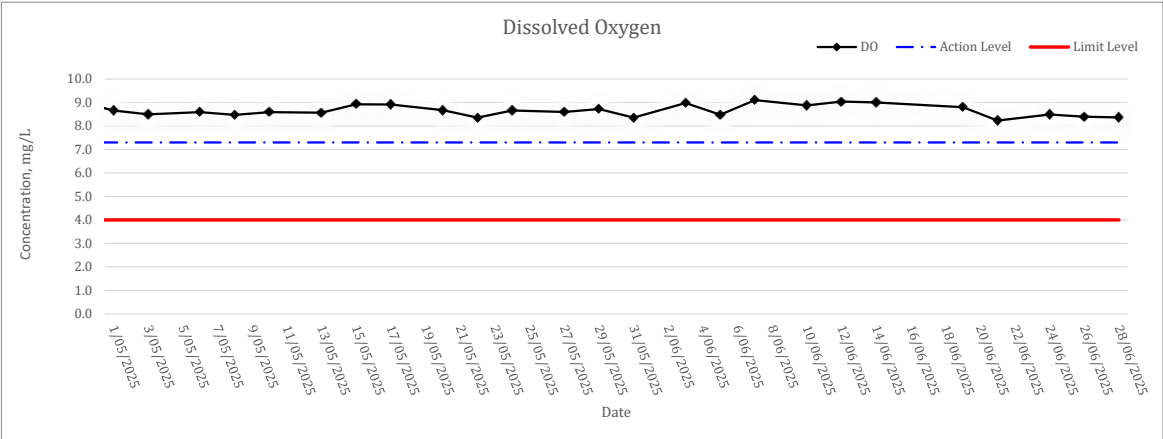
Note: D – Design stage C – Construction O – Operation

Appendix C

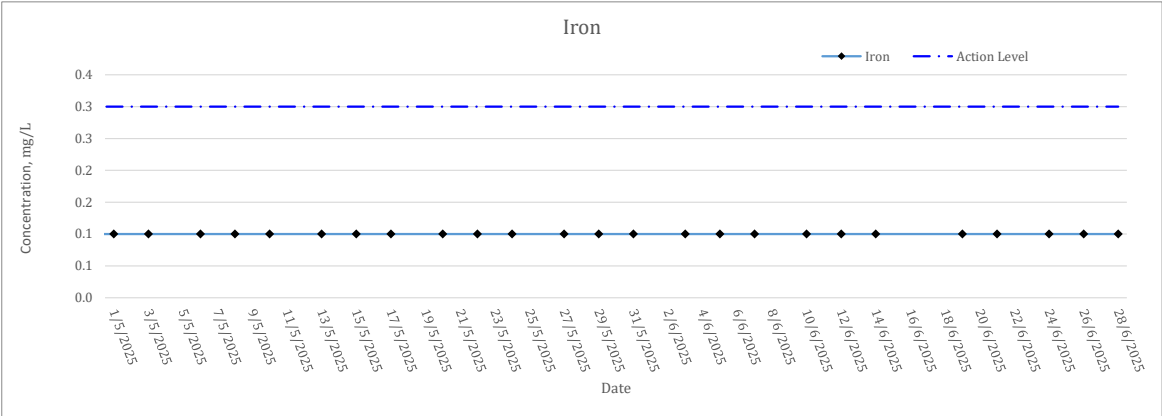
Water Quality Monitoring Graphical Presentation

- Appendix C.1 Weather Condition
- Appendix C.2 Other Factor Might Affect the Monitoring Results

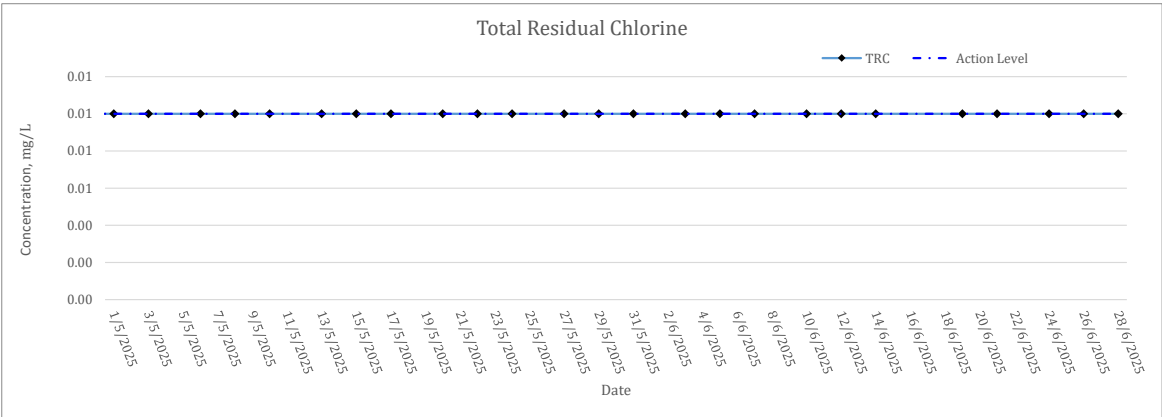
Monitoring Location: WSR1



Monitoring Location: WSR1

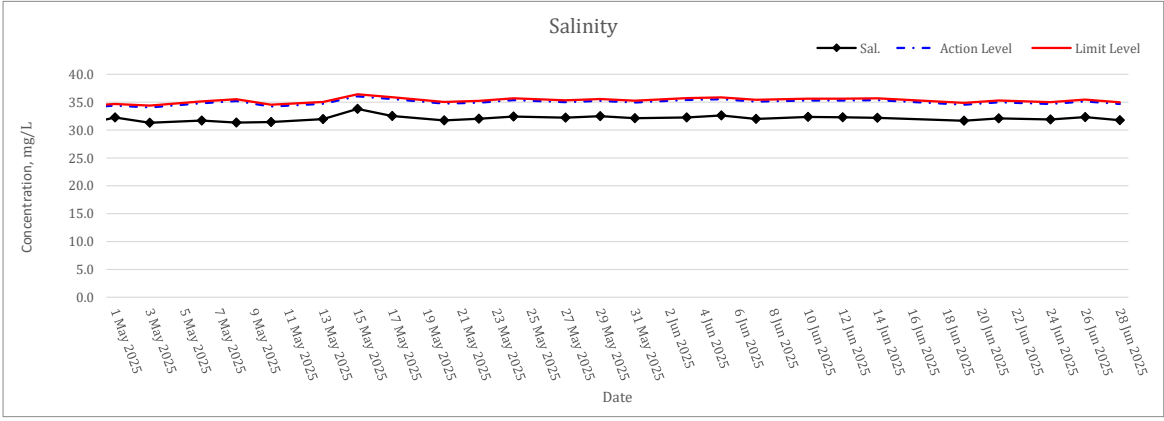
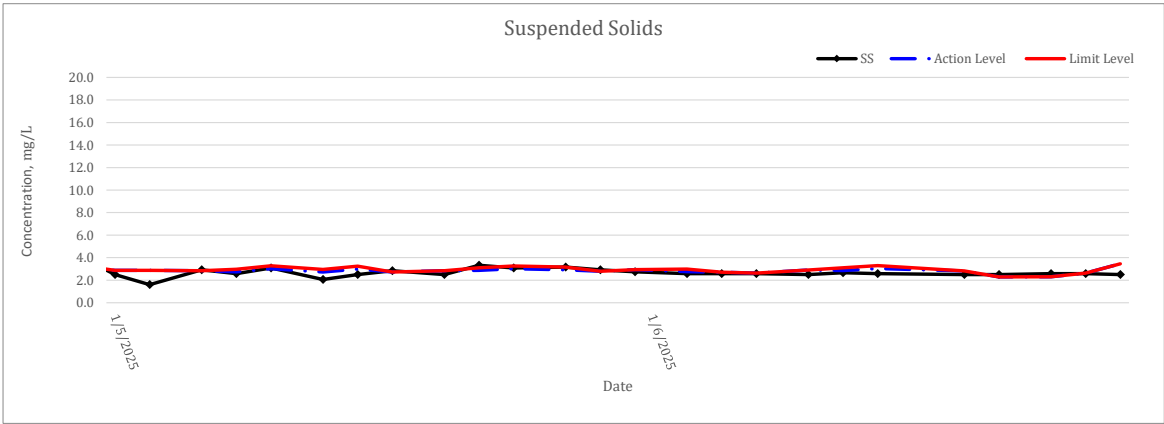
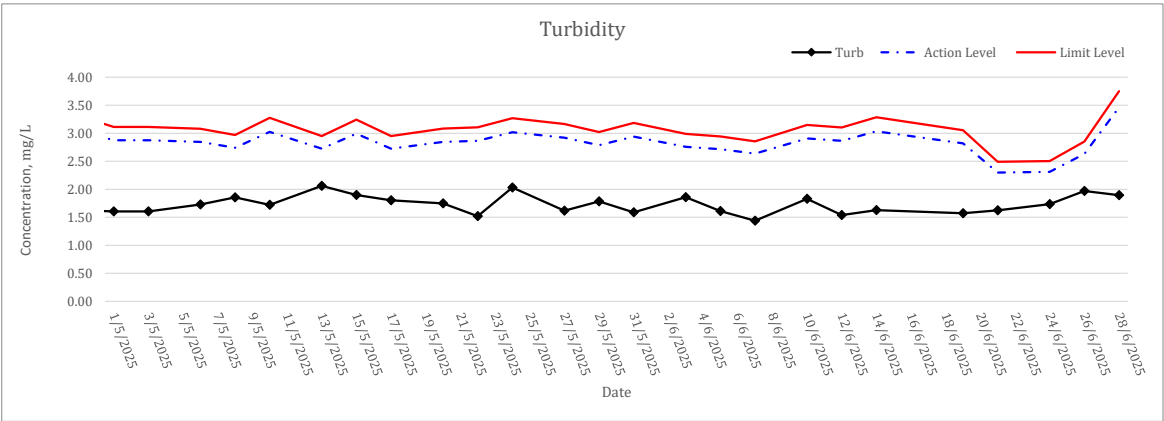
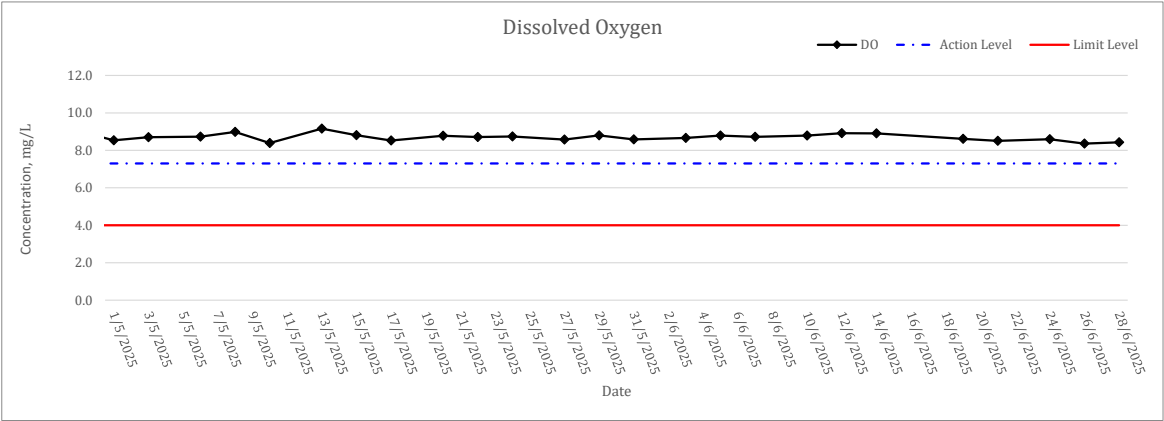


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

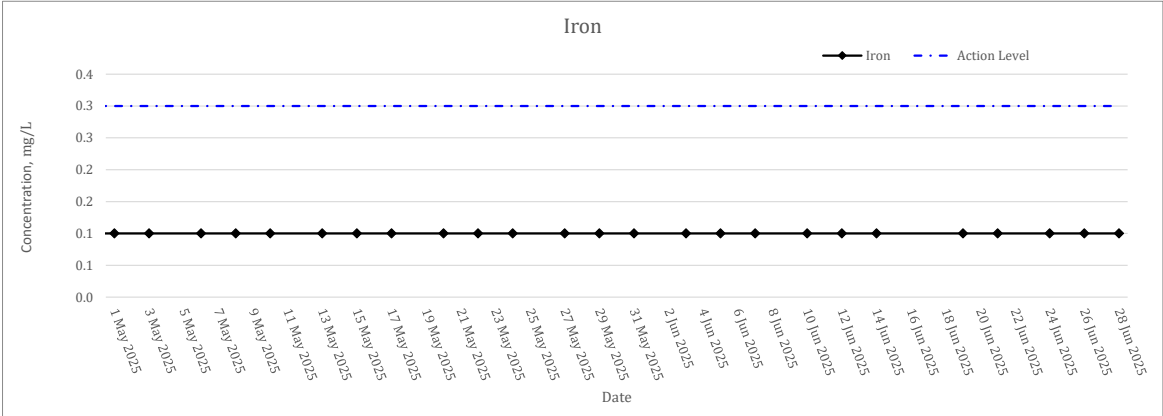


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

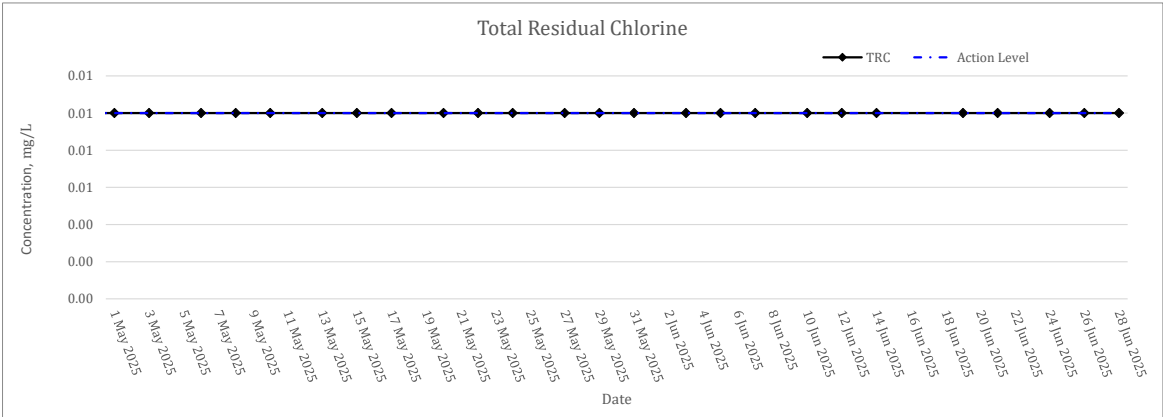
Monitoring Location: WSR2



Monitoring Location: WSR2

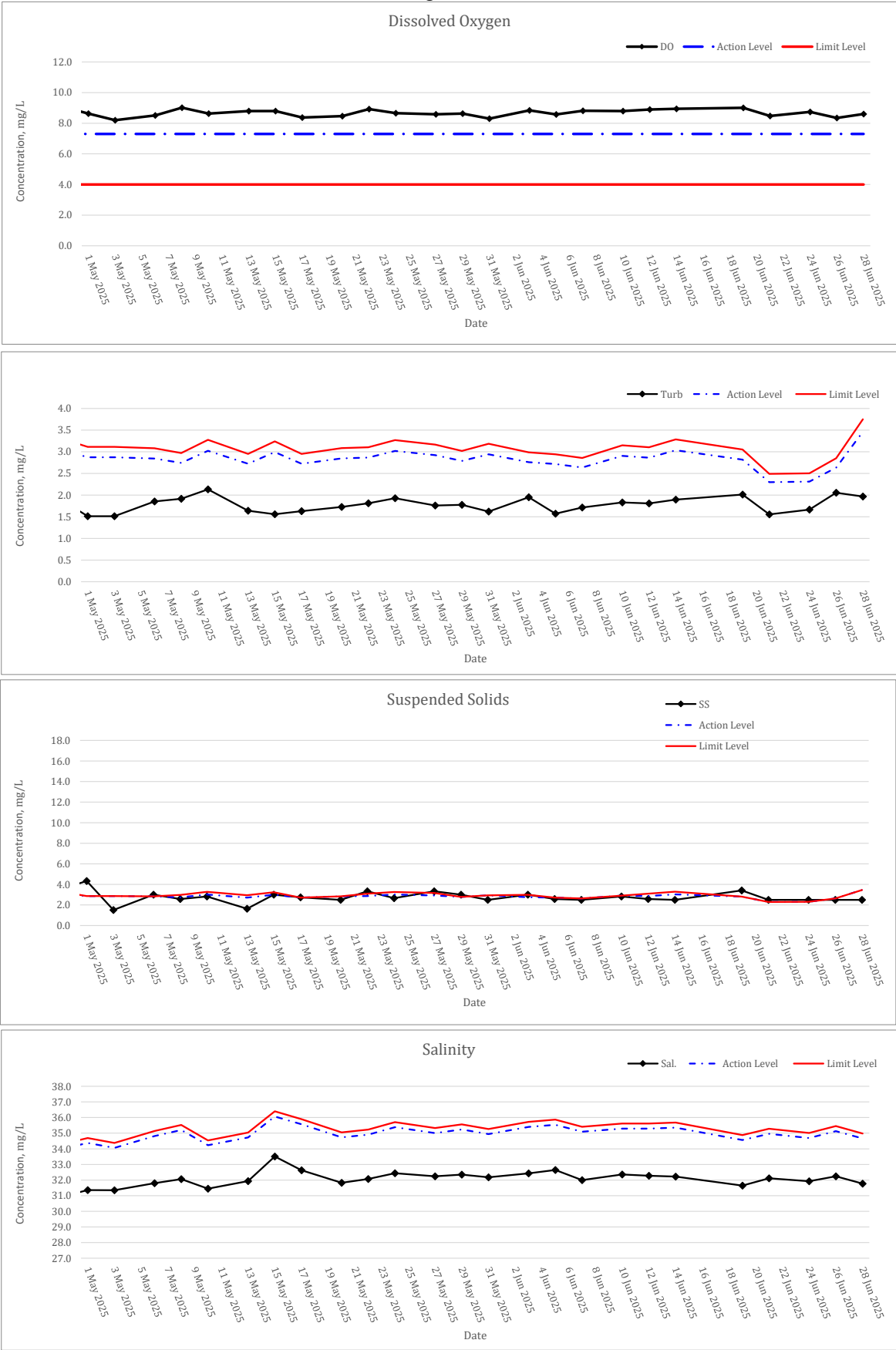


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

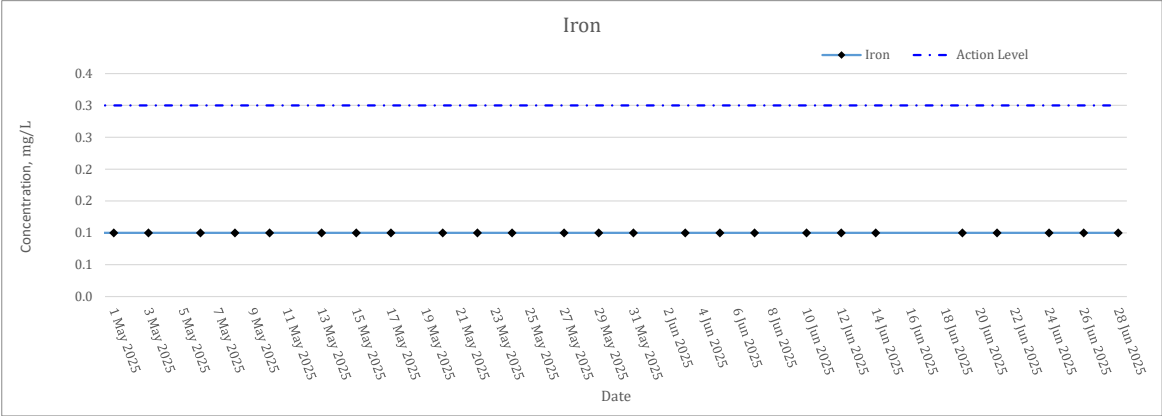


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

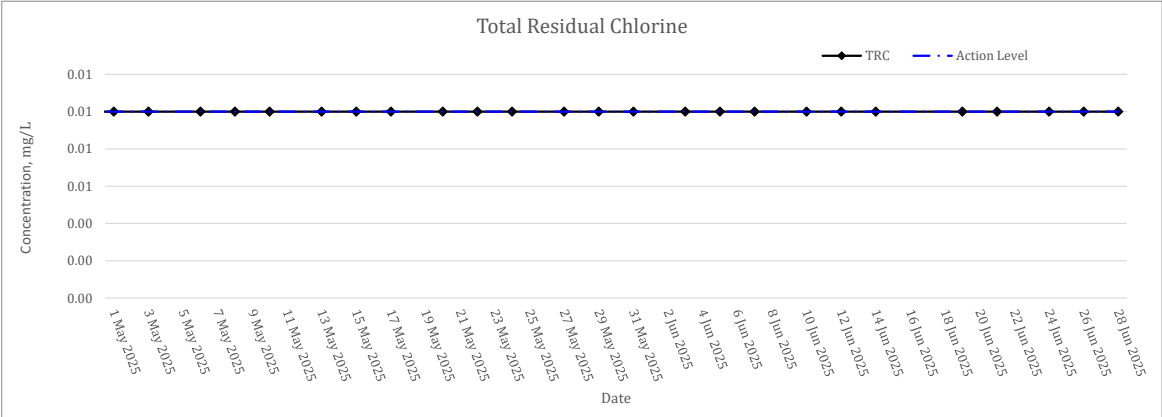
Monitoring Location: WSR3



Monitoring Location: WSR3

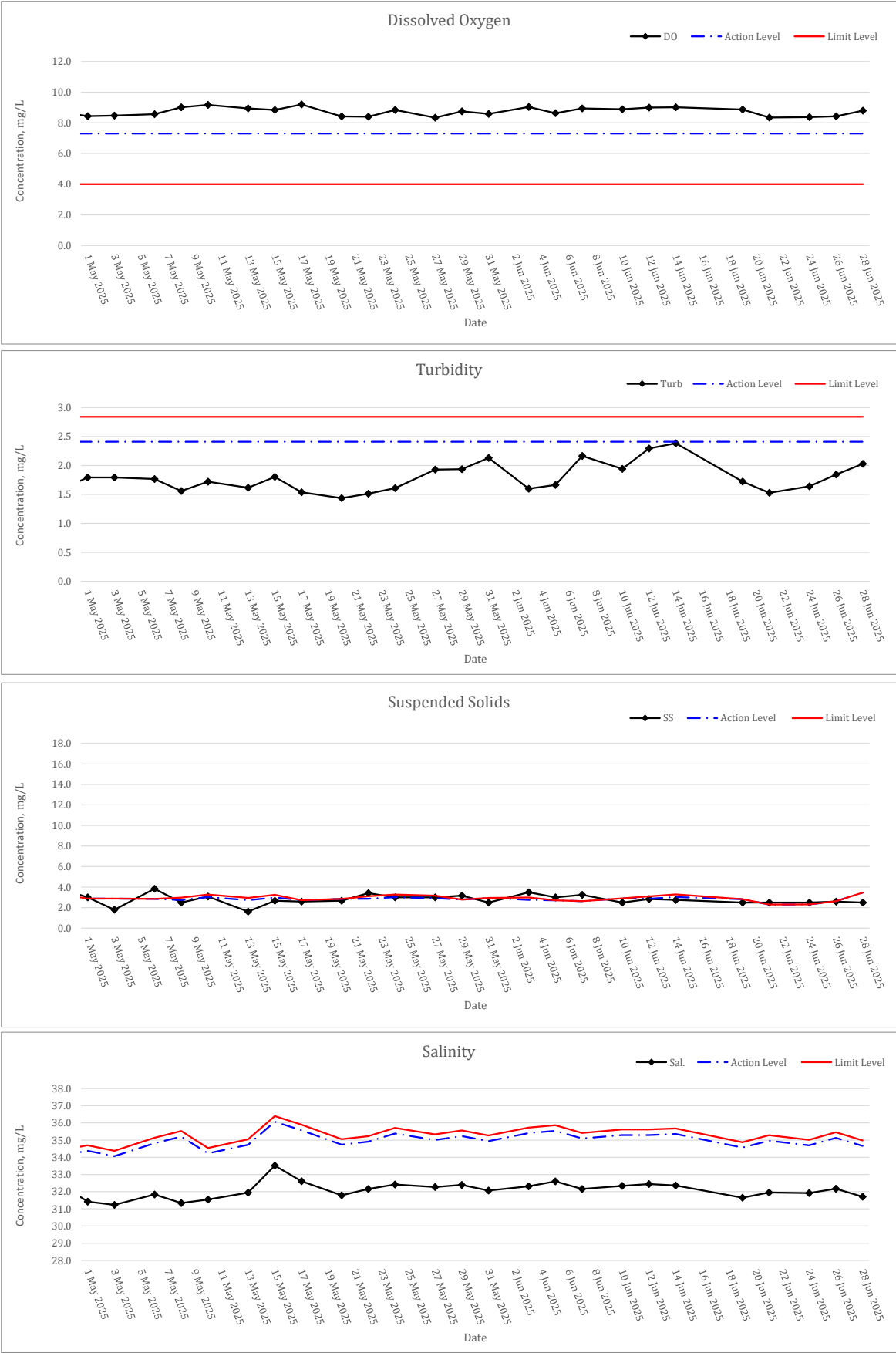


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

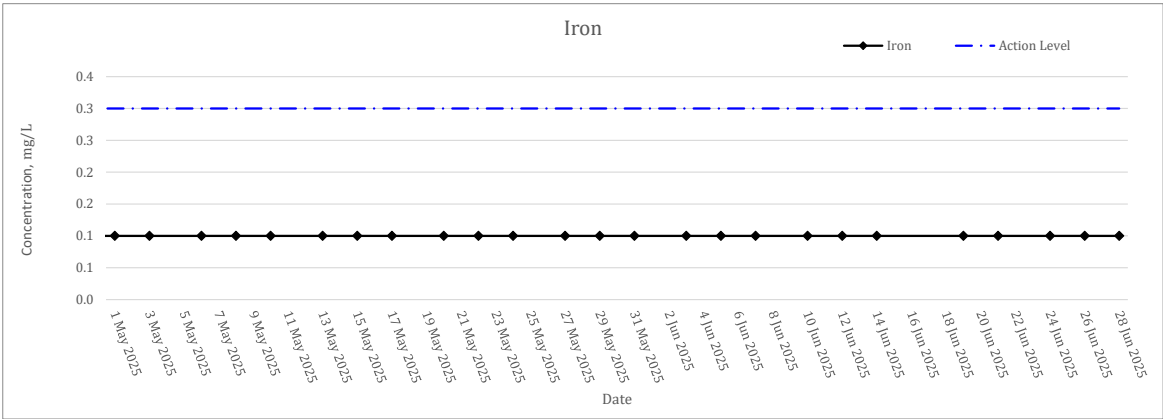


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

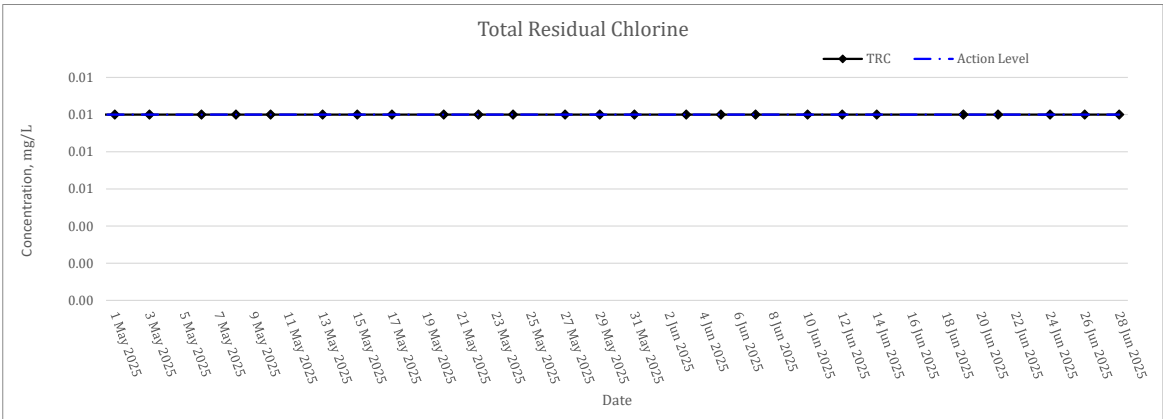
Monitoring Location: WSR4



Monitoring Location: WSR4

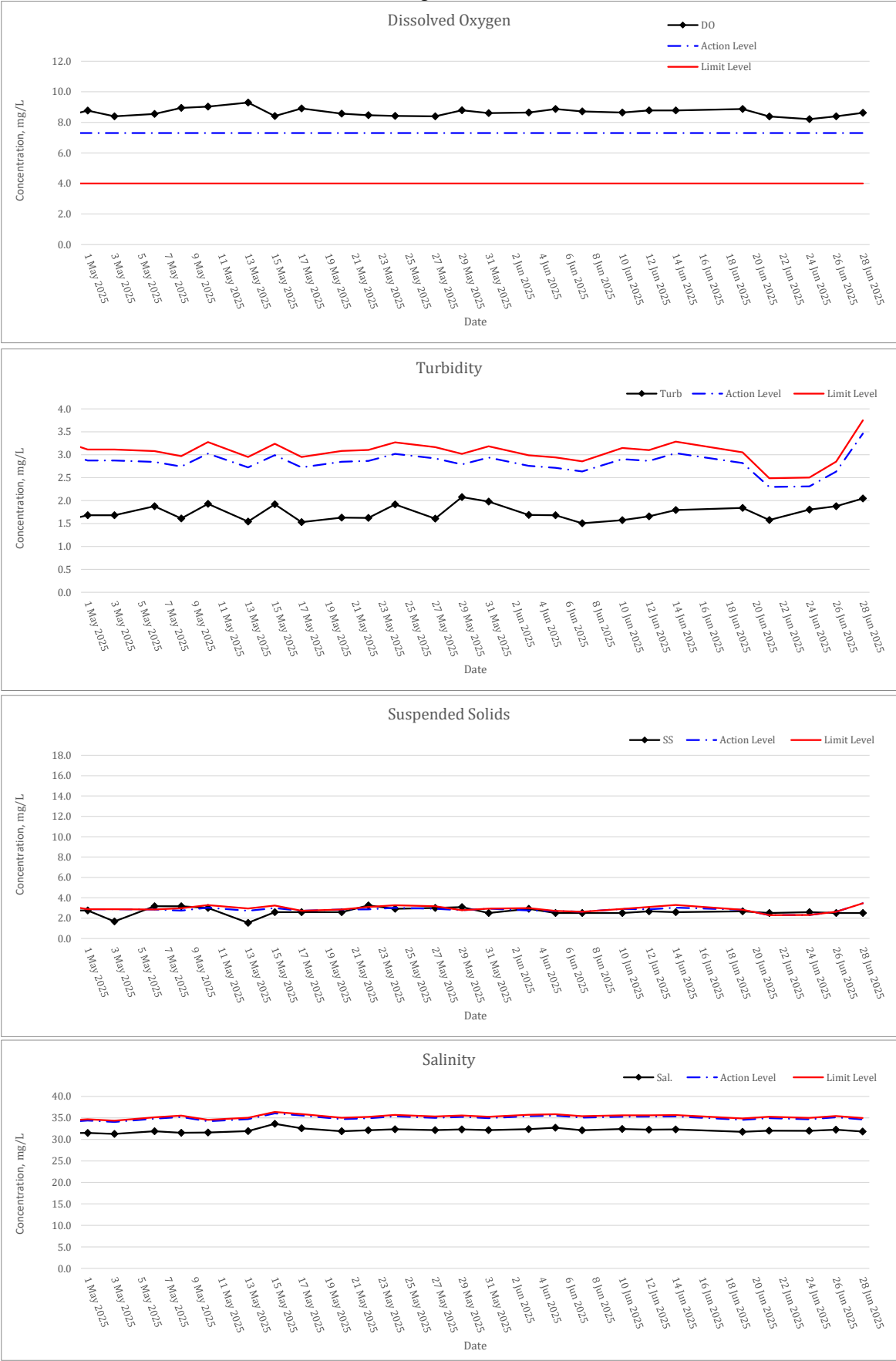


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

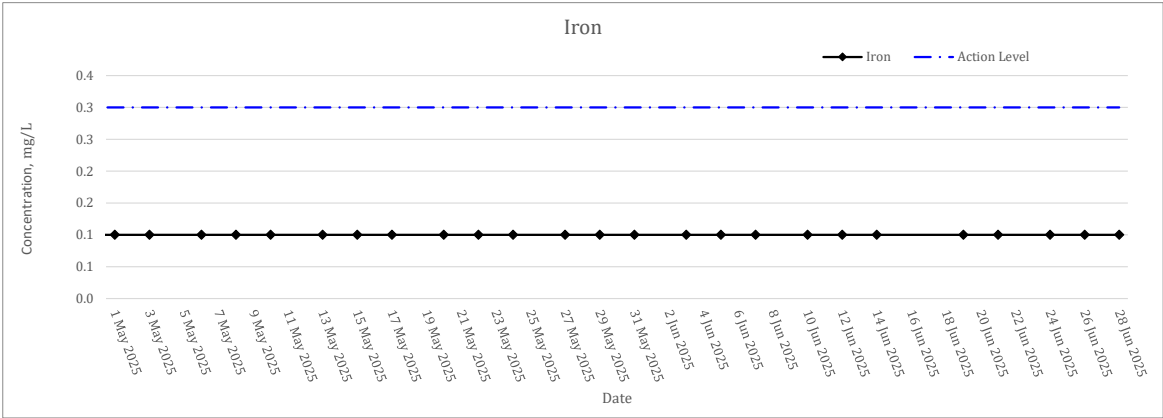


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

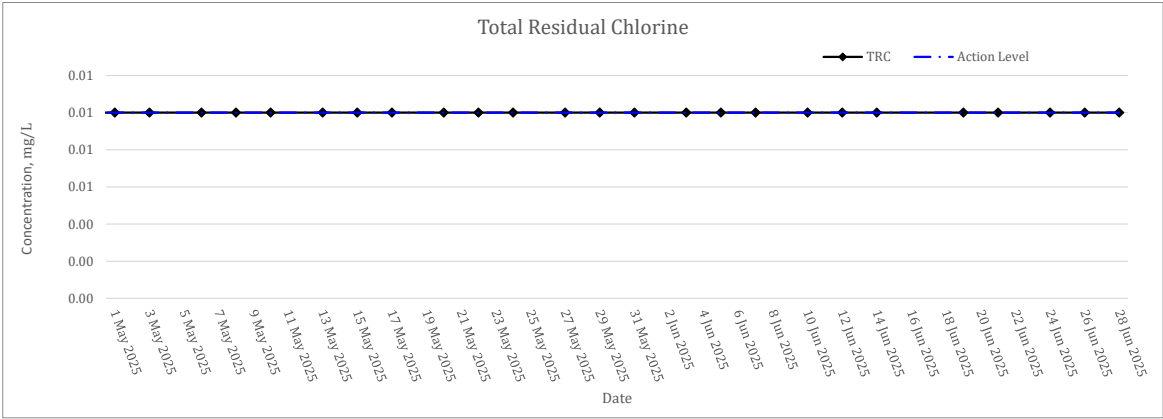
Monitoring Location: WSR16



Monitoring Location: WSR16

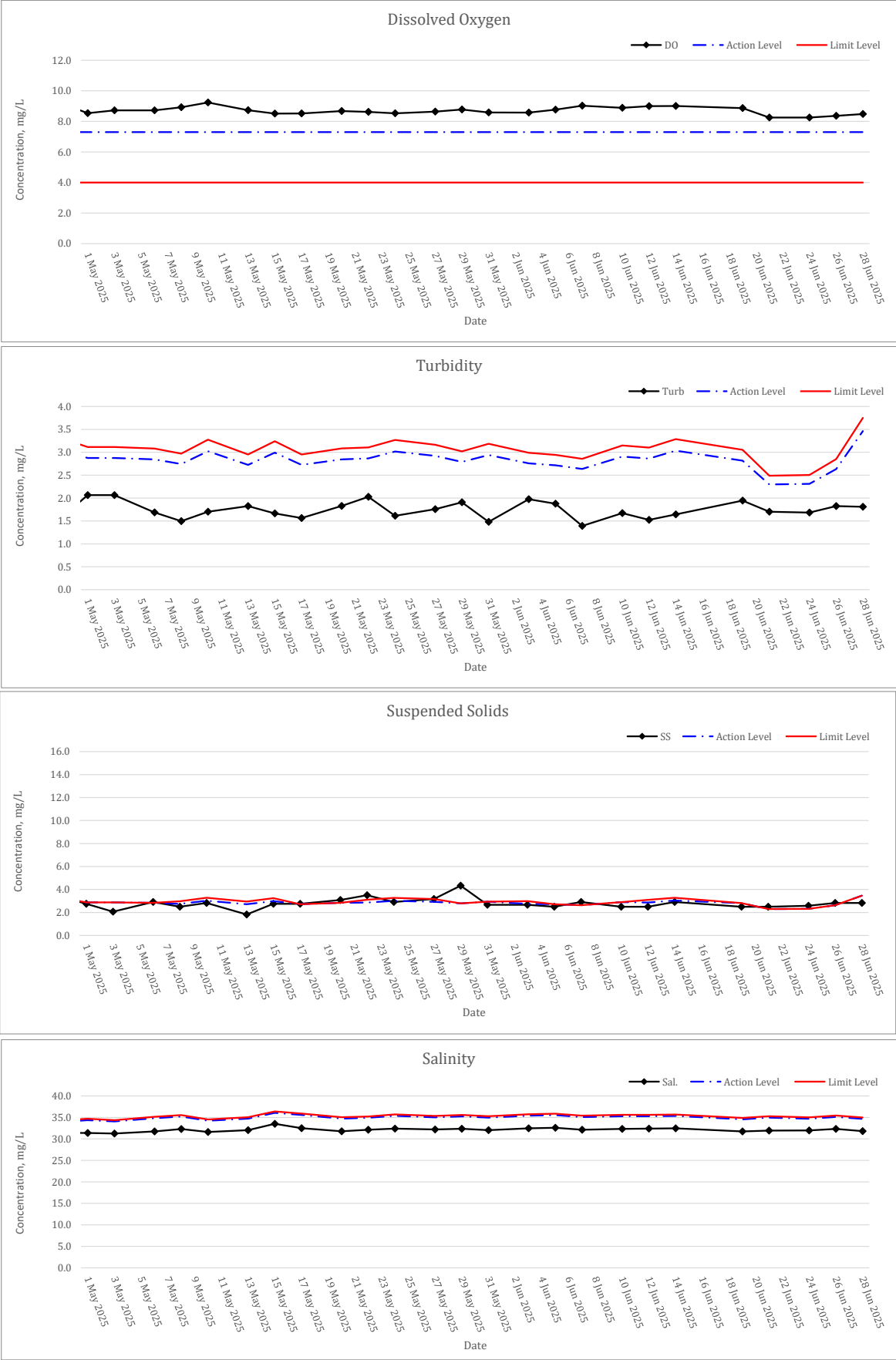


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

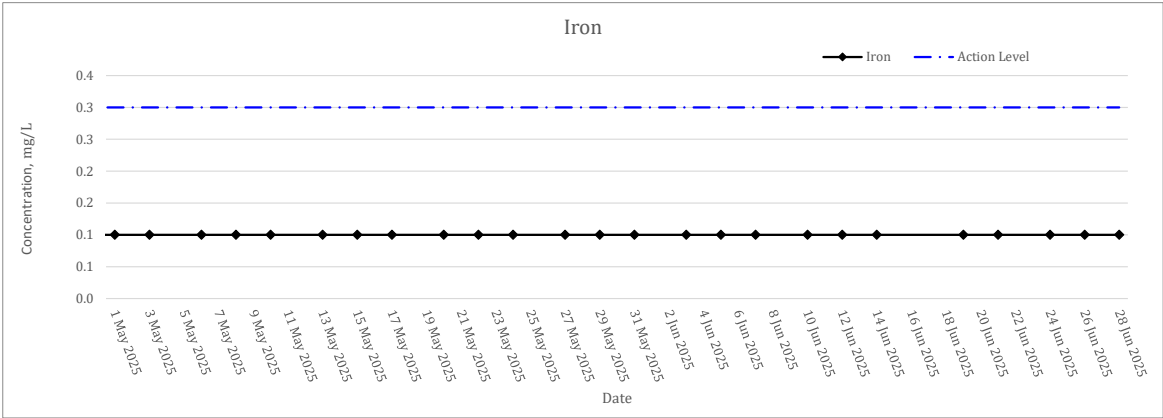


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

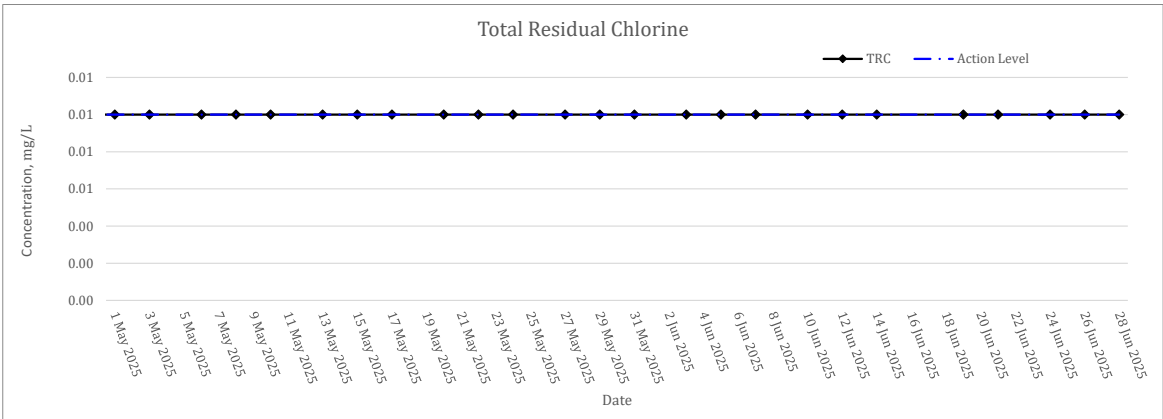
Monitoring Location: WSR33



Monitoring Location: WSR33

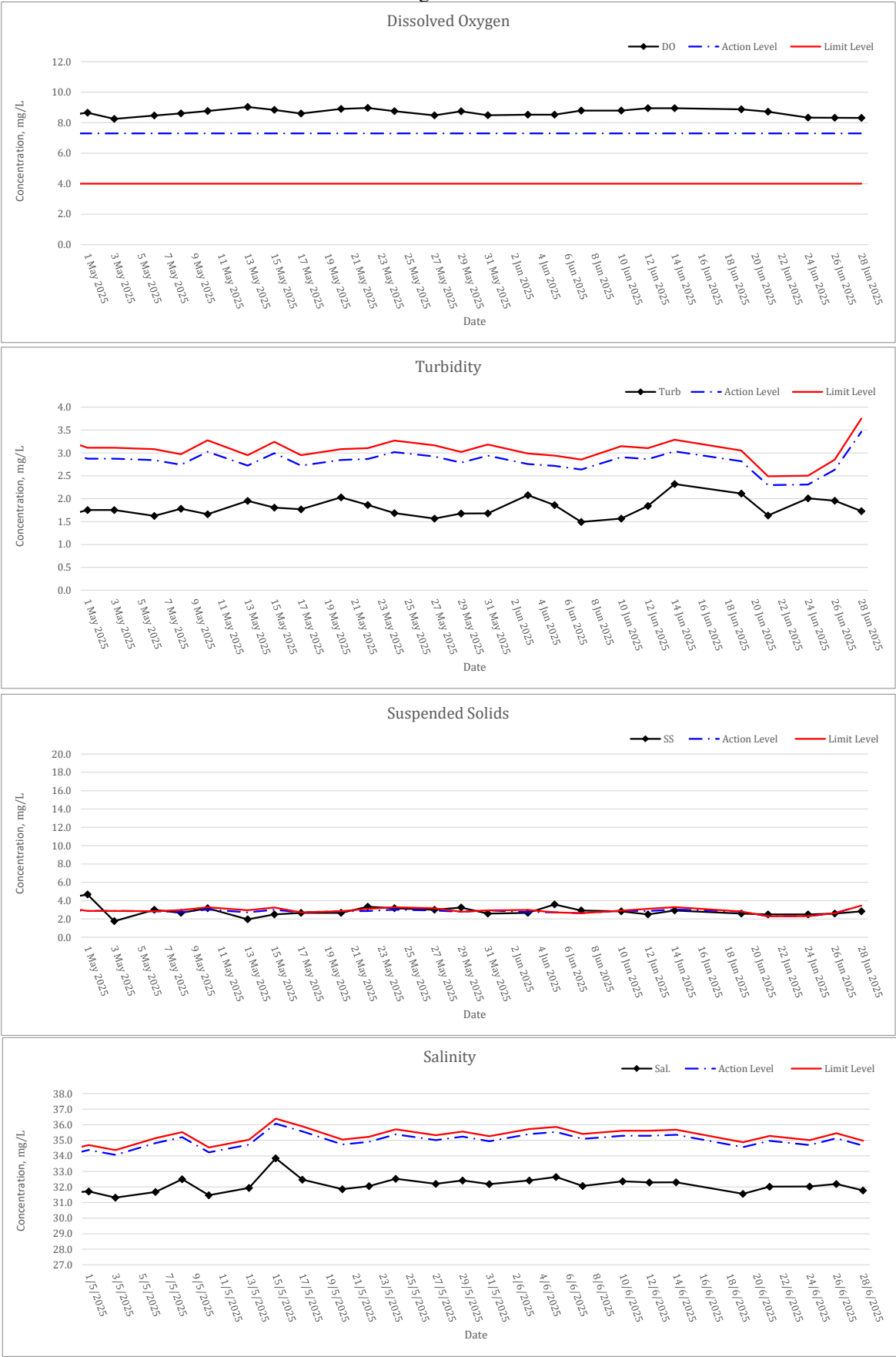


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

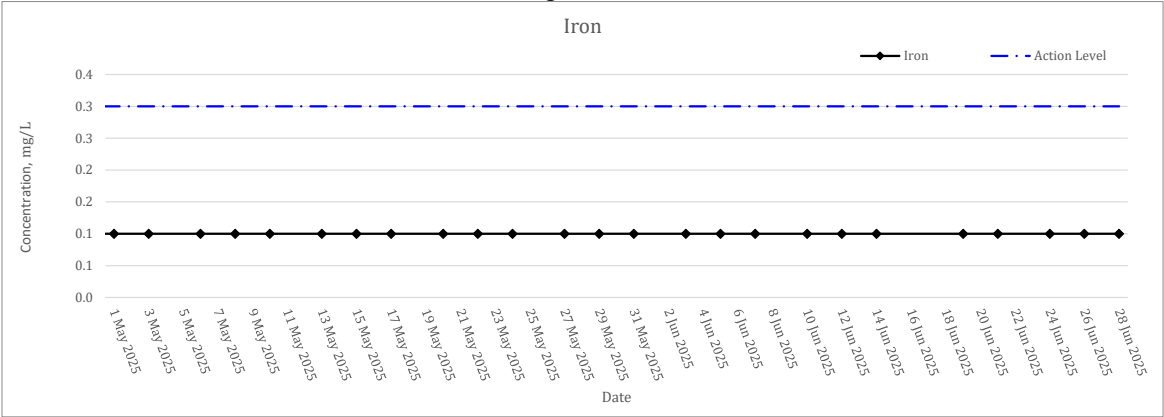


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

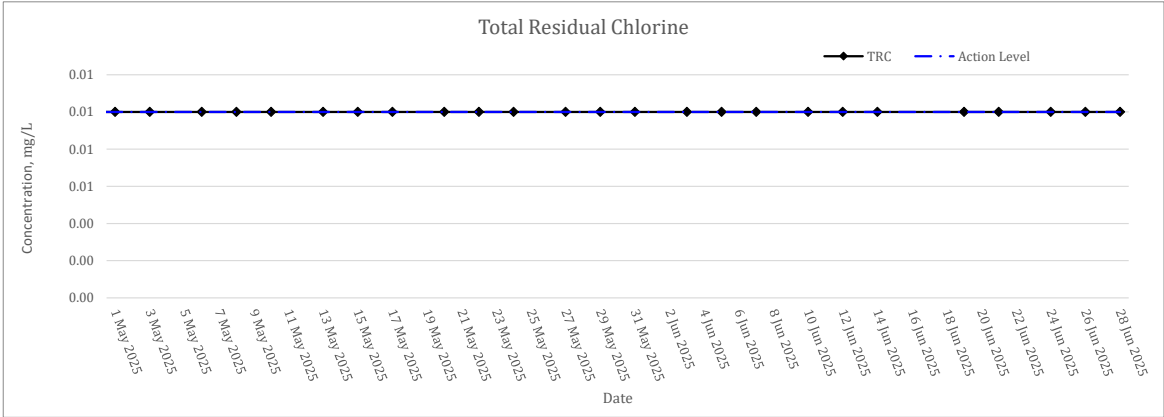
Monitoring Location: WSR36



Monitoring Location: WSR36

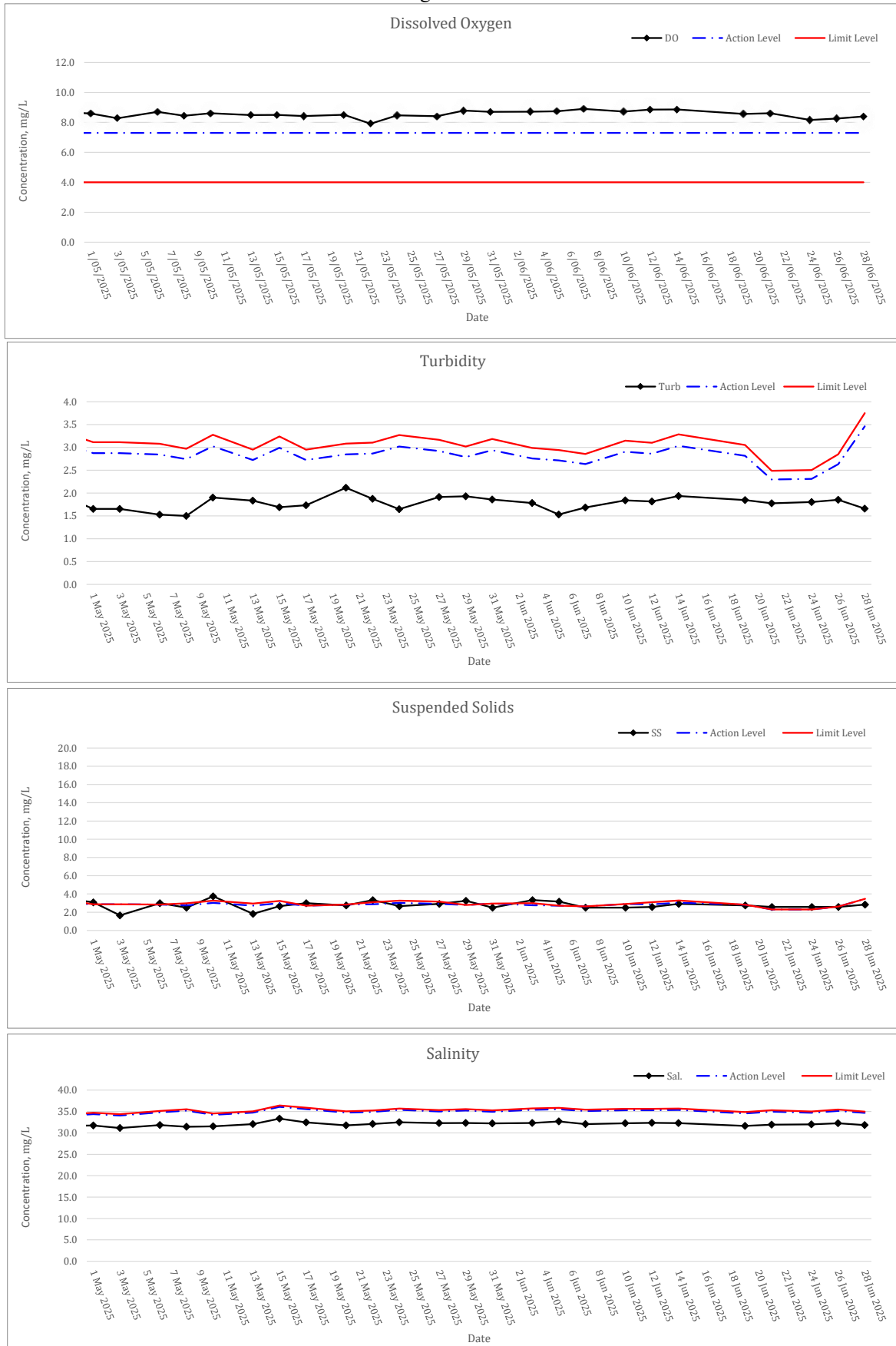


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

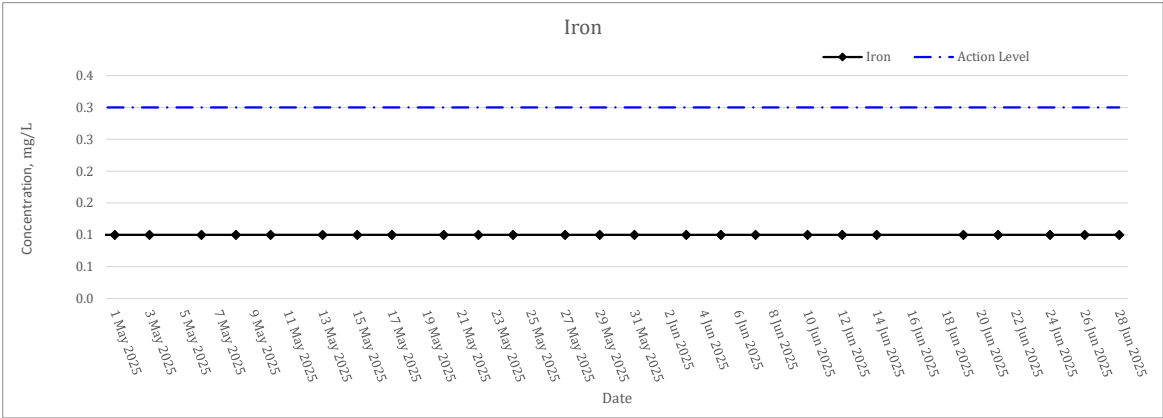


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

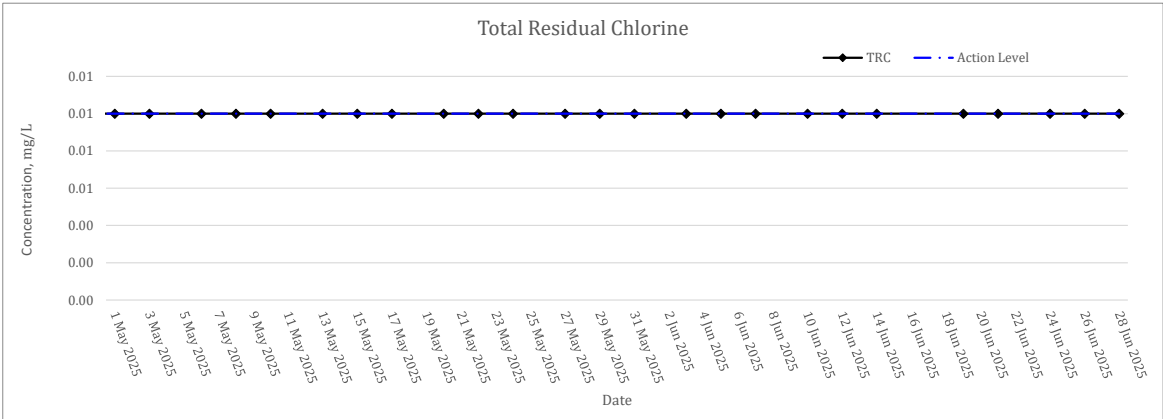
Monitoring Location: WSR37



Monitoring Location: WSR37

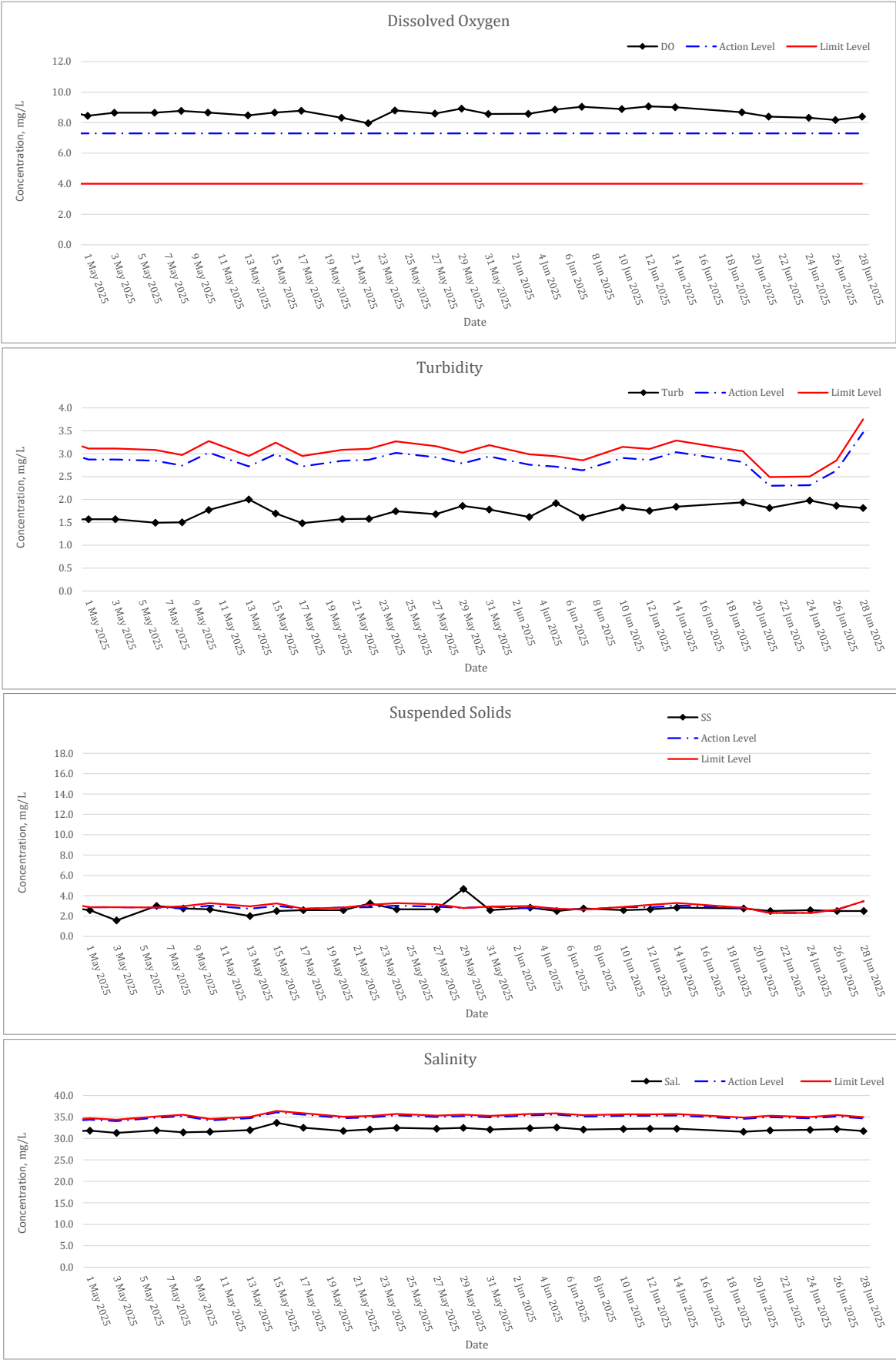


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

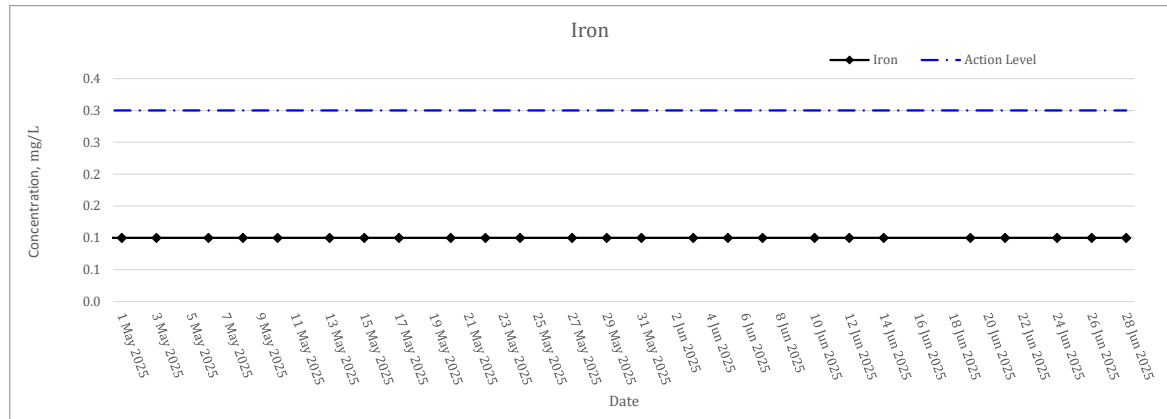


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

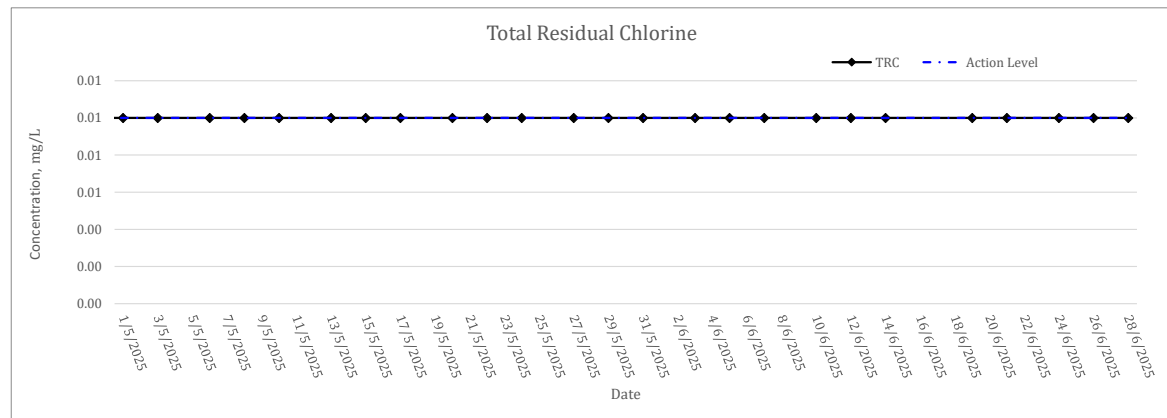
Monitoring Location: NF1



Monitoring Location: NF1

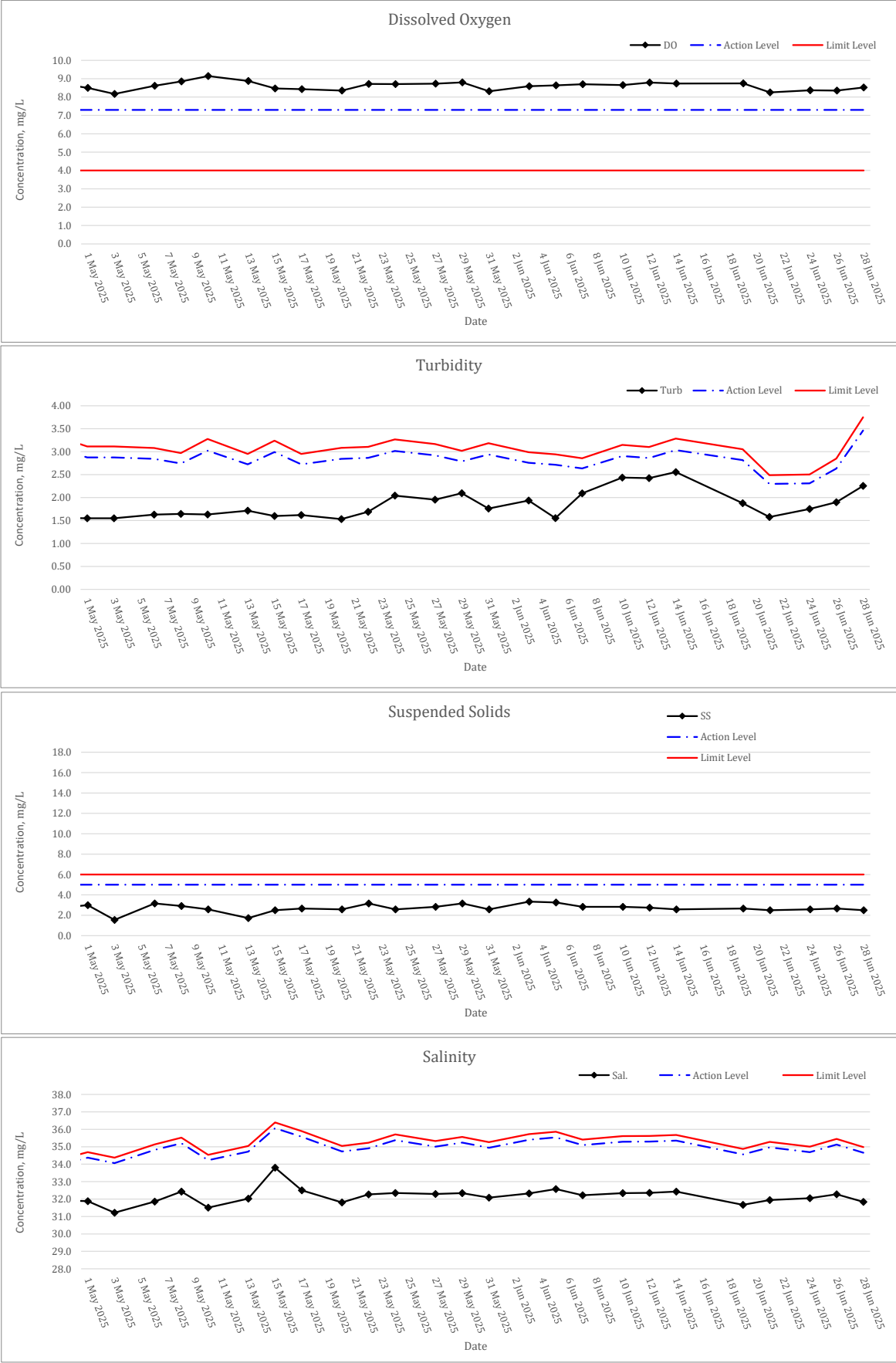


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

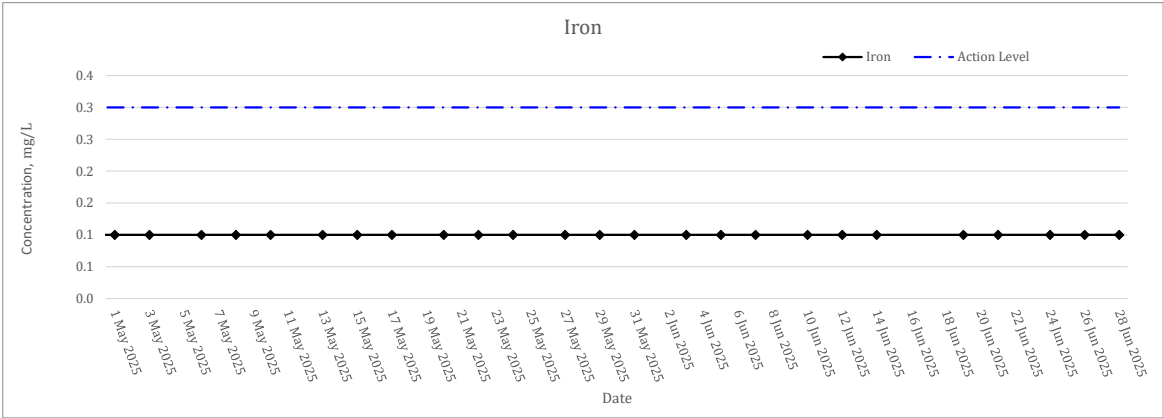


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

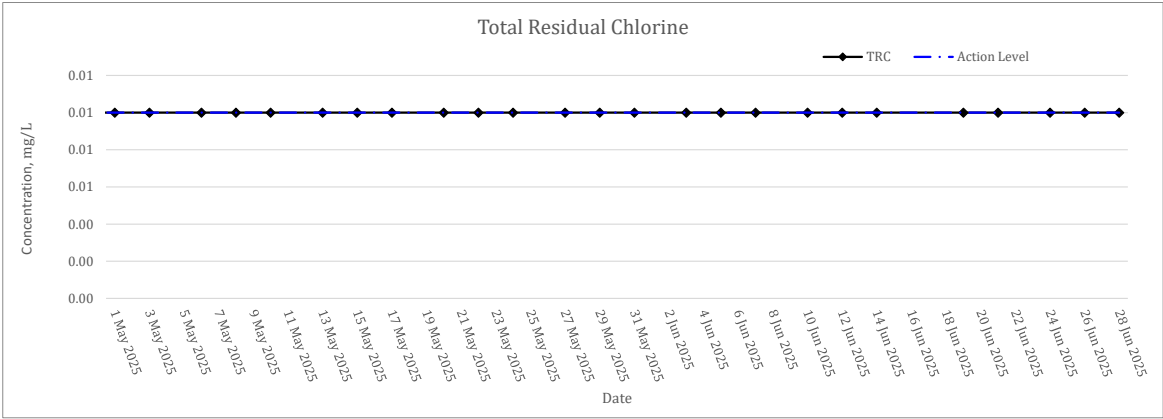
Monitoring Location: NF2



Monitoring Location: NF2

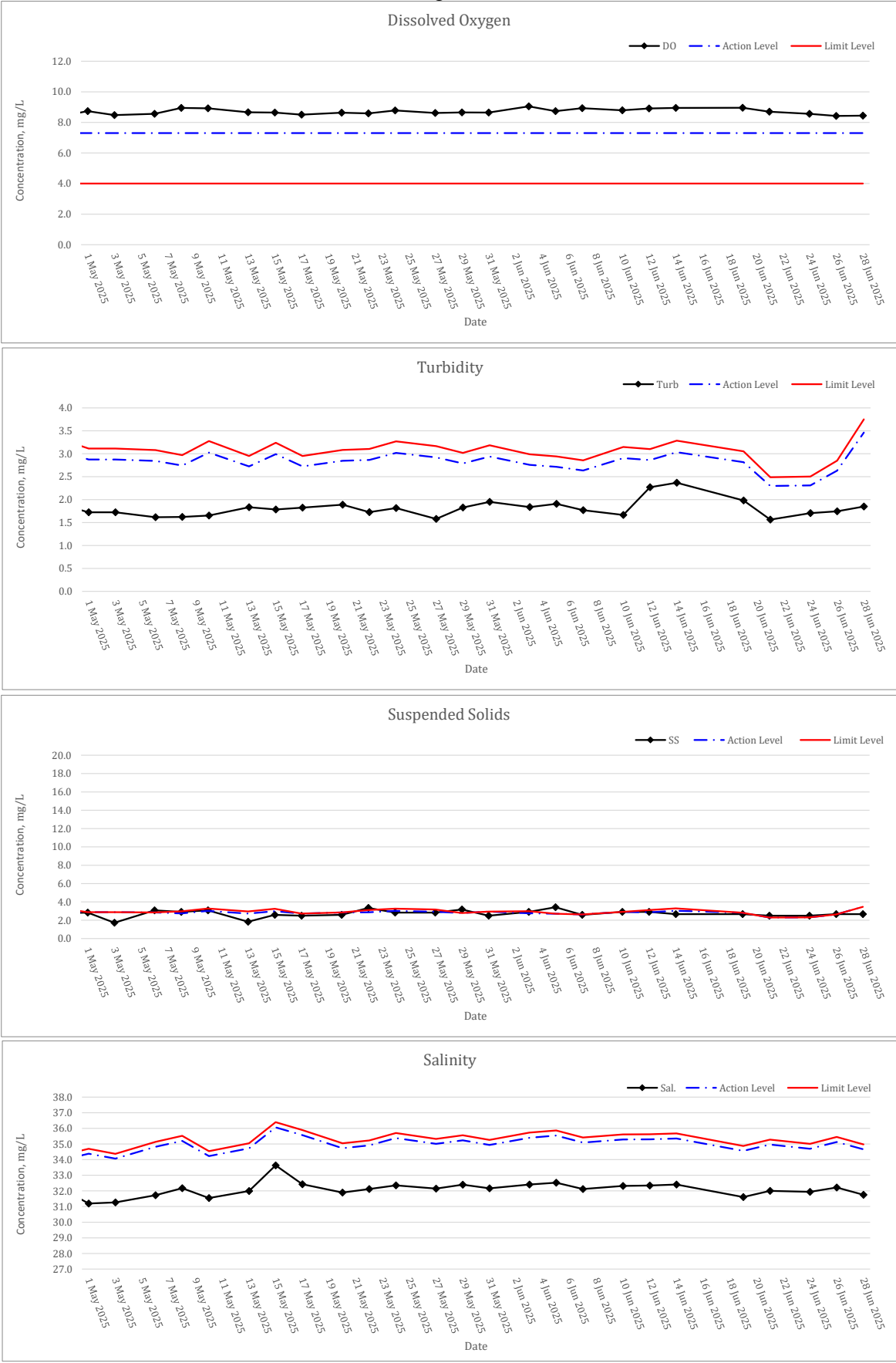


Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.

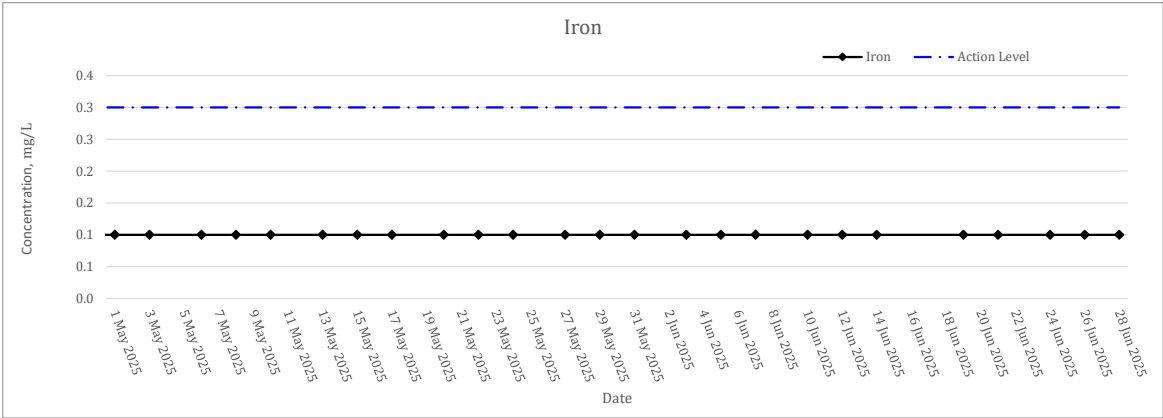


Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

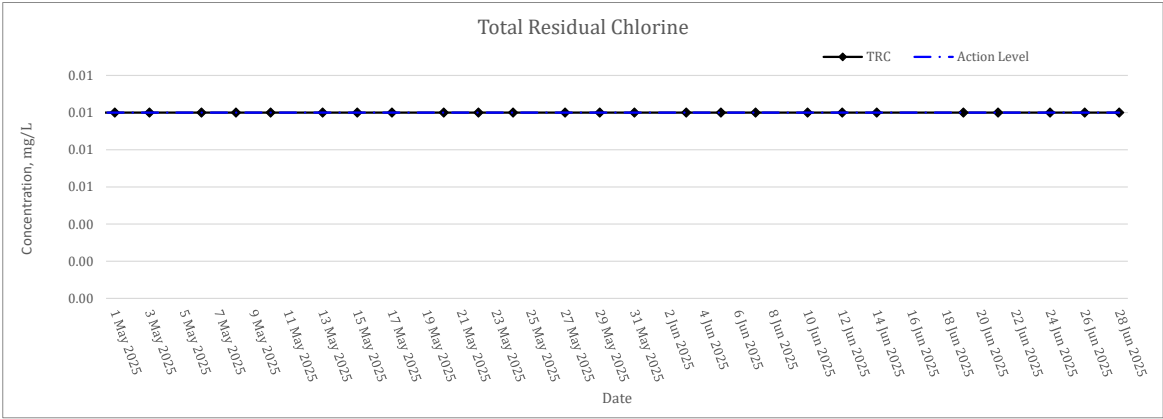
Monitoring Location: NF3



Monitoring Location: NF3



Remark: The lowest detection limit of the Iron is 0.1mg/L. All result of iron monitoring are lower than the detection limit.



Remark: The lowest detection limit of the Total Residual Chlorine is 0.01mg/L. All result of Total Residual Chlorine monitoring are lower than the detection limit.

Appendix C.1

Weather Condition

Day	Hong Kong Observatory								King's Park	Waglan Island^	
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Total Bright Sunshine (hours)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)							
01	1012.9	27.9	25.6	24.5	22.4	83	88	1.4	1.8	240	4.6
02	1011.3	32.3	27.4	24.6	22.2	75	51	0.0	11.3	090	4.2
03	1010.1	29.7	26.8	25.3	23.2	81	73	0.0	2.9	050	8.7
04	1008.8	31.7	27.5	25.5	23.9	81	81	Trace	5.0	110	11.0
05	1008.5	32.0	27.8	25.8	23.8	79	86	Trace	3.5	110	12.7
06	1008.0	30.4	28.1	26.9	24.6	82	88	0.4	1.7	200	10.5
07	1008.0	28.0	27.1	25.6	25.0	88	89	9.8	0.0	110	18.1
08	1008.0	29.2	26.4	25.0	24.0	87	84	0.6	2.4	080	21.6
09	1007.8	29.3	27.2	25.7	23.9	83	86	0.4	2.3	010	8.0
10	1009.0	30.7	27.2	25.1	22.5	76	80	Trace	2.6	360	7.6
11	1010.1	29.5	24.8	21.0	15.2	57	86	3.9	6.3	010	23.8
12	1010.9	30.4	25.9	23.1	15.4	54	41	0.0	11.3	080	15.5
13	1012.4	29.3	25.8	23.8	20.3	72	64	0.0	8.0	070	23.1
14	1012.8	31.4	27.2	25.0	22.9	78	61	Trace	7.3	060	18.1
15	1012.3	31.9	28.2	26.3	24.0	78	79	0.0	9.4	060	12.6
16	1011.2	29.3	27.8	26.7	24.6	83	83	Trace	2.6	090	5.6
17	1010.8	32.8	28.8	26.7	24.2	77	76	0.0	5.7	210	4.1
18	1010.3	32.5	29.0	27.3	24.5	77	86	0.0	7.2	230	7.1
19	1009.1	31.5	29.0	27.9	24.8	78	88	Trace	0.7	200	7.9
20	1009.2	30.8	29.5	28.3	25.1	77	85	0.0	1.4	180	15.3
21	1009.3	32.4	29.9	28.5	25.1	76	85	0.0	3.5	190	12.9
22	1007.6	33.0	30.1	28.4	24.8	74	82	0.0	8.5	200	14.8
23	1006.8	32.4	29.7	26.5	25.1	77	88	2.0	7.4	220	20.0
24	1009.7	30.5	27.9	26.4	23.2	76	83	3.5	3.0	360	10.8
25	1013.7	27.3	25.9	24.5	18.9	65	86	0.0	0.1	010	23.9
26	1014.7	27.7	25.5	24.2	18.0	63	88	0.0	0.9	050	25.2
27	1013.5	29.2	26.3	24.4	19.7	67	88	0.0	5.8	070	30.4
28	1010.2	27.3	26.0	25.0	22.7	82	90	Trace	0.2	080	28.5
29	1008.8	27.9	26.2	25.0	24.4	90	89	53.2	0.3	080	24.4
30	1009.5	25.0	24.3	23.6	22.1	88	88	6.4	0.1	070	43.9
31	1007.1	25.4	25.0	24.3	21.6	82	88	Trace	0.0	070	38.0
Mean/Total	1010.1	30.0	27.2	25.5	22.6	77	81	81.6	123.2	070	16.5
Climatological Normal?	1009.3	28.8	26.3	24.5	23.0	83	76	290.6	138.8	080	19.8

^ Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since August 1989

Trace means rainfall less than 0.05 mm

? 1991-2020 Climatological Normal, unless otherwise specified

Day	Hong Kong Observatory								King's Park	Waglan Island [^]	
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Total Bright Sunshine (hours)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)							
01	1003.9	31.2	27.5	24.9	24.4	83	83	0.1	7.1	060	8.9
02	1002.2	31.2	29.4	28.2	26.3	83	88	0.1	3.6	210	17.7
03	1003.2	30.6	28.8	27.7	25.3	81	88	Trace	1.6	230	8.0
04	1007.3	28.5	26.4	25.0	23.8	86	88	3.8	0.0	070	24.8
05	1009.2	28.1	26.4	24.8	22.3	78	88	Trace	0.8	070	22.6
06	1008.3	31.8	28.1	26.1	24.0	79	60	0.0	9.4	050	12.3
07	1007.2	33.6	29.6	27.0	24.8	76	48	0.0	11.1	170	6.0
08	1005.9	33.2	30.1	28.0	25.4	76	79	0.0	12.0	210	10.8
09	1004.5	34.3	30.7	28.2	25.1	73	74	0.0	11.1	190	7.3
10	1004.2	35.6	31.0	28.4	25.3	72	76	0.0	11.3	060	17.0
11	1004.3	31.2	29.4	28.7	25.6	80	88	4.7	2.0	070	35.4
12	1004.6	31.3	28.5	27.1	25.3	83	87	14.6	3.5	080	37.2
13	1005.8	31.0	27.5	26.2	25.4	88	88	46.1	2.3	080	15.6
14	1005.5	31.5	29.1	27.1	25.5	81	88	1.6	2.1	170	39.9
15	1005.2	30.1	29.3	28.7	25.4	79	88	0.9	0.8	220	44.1
16	1007.7	31.1	29.4	28.3	25.5	80	88	1.0	2.6	220	24.5
17	1009.8	29.5	27.7	25.5	25.4	88	88	46.3	0.0	180	22.4
18	1009.7	31.8	29.2	26.7	25.4	80	88	0.5	4.1	160	23.0
19	1009.0	32.5	28.7	27.0	25.5	83	88	11.1	4.3	130	19.8
20	1008.7	30.4	28.4	27.1	24.9	82	88	6.3	2.3	170	18.4
21	1009.1	32.2	29.1	26.5	25.1	80	88	10.6	5.5	160	22.6
22	1009.0	31.7	29.2	27.4	25.4	80	88	2.9	5.6	190	19.2
23	1007.3	32.1	29.6	27.0	24.8	76	84	7.6	10.3	230	19.8
24	1007.7	33.4	30.1	28.4	24.7	73	88	0.0	9.9	220	13.8
25	1008.6	34.5	30.7	27.9	24.9	72	71	0.2	12.1	050	14.1
26	1008.1	31.6	28.9	26.9	25.9	84	88	48.9	1.7	120	23.9
27	1007.7	30.1	28.4	27.0	25.7	86	87	5.6	0.8	140	17.3
28	1006.4	30.9	28.6	27.0	25.6	84	88	3.1	2.3	130	18.1
29	1005.0	30.8	28.8	27.4	25.5	83	86	3.7	4.1	100	14.8
30	1005.8	30.5	28.5	26.7	25.5	84	87	17.6	0.6	100	21.3
Mean/Total	1006.7	31.5	28.9	27.1	25.1	80	83	237.3	144.9	080	20.0
Climatological Normal [?]	1006.1	30.7	28.3	26.5	24.9	82	77	491.5	144.3	220	21.6

[^] Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since August 1989

Trace means rainfall less than 0.05 mm

? 1991-2020 Climatological Normal, unless otherwise specified

Appendix C.2

Other Factor Might Affect the Monitoring Results

Other Factors might affect the monitoring results	
Reporting Period	
May 2025	Jun 2025
N/A	N/A

Appendix D

Site Inspection Proforma

Table E1 Site Inspection Observation Record

Date	Environmental Observations	Follow-up Status
May 2025		
7 May 2025	No major environmental deficiency was observed.	N/A
13 May 2025	No major environmental deficiency was observed.	N/A
20 May 2025	No major environmental deficiency was observed.	N/A
30 May 2025	No major environmental deficiency was observed.	N/A
June 2025		
3 Jun 2025	No major environmental deficiency was observed.	N/A
10 Jun 2025	No major environmental deficiency was observed.	N/A
17 Jun 2025	No major environmental deficiency was observed.	N/A
23 Jun 2025	No major environmental deficiency was observed.	N/A
July 2025		
3 Jul 2025	No major environmental deficiency was observed.	N/A
10 Jul 2025	No major environmental deficiency was observed.	N/A
17 Jul 2025	No major environmental deficiency was observed.	N/A
24 Jul 2025	No major environmental deficiency was observed.	N/A
31 Jul 2025	No major environmental deficiency was observed.	N/A

Date	Environmental Observations	Follow-up Status
August 2025		
7 Aug 2025	No major environmental deficiency was observed.	N/A
14 Aug 2025	No major environmental deficiency was observed.	N/A
28 Aug 2025	No major environmental deficiency was observed.	N/A
September 2025		
10 Sept 2025	No major environmental deficiency was observed.	N/A
25Sept 2025	No major environmental deficiency was observed.	N/A
October 2025		
9 Oct 2025	No major environmental deficiency was observed.	N/A
23 Oct 2025	No major environmental deficiency was observed.	N/A
November 2025		
3 Nov 2025	No major environmental deficiency was observed.	N/A
20 Nov 2025	No major environmental deficiency was observed.	N/A
25 Nov 2025	No major environmental deficiency was observed.	N/A
December 2025		
11 Dec 2025	No major environmental deficiency was observed.	N/A
22 Dec 2025	No major environmental deficiency was observed.	N/A
January 2026		
9 Jan 2026	No major environmental deficiency was observed.	N/A
21 Jan 2026	No major environmental deficiency was observed.	N/A
February 2026		
3 Feb 2026	No major environmental deficiency was observed.	N/A

Date	Environmental Observations	Follow-up Status
16 Feb 2026	No major environmental deficiency was observed.	N/A
March 2026		
5 Mar 2026	No major environmental deficiency was observed.	N/A
24 Mar 2026	No major environmental deficiency was observed.	N/A
April 2026		
13 Apr 2026	No major environmental deficiency was observed.	N/A
29 Apr 2026	No major environmental deficiency was observed.	N/A

Appendix E

Waste Flow Table

Name of Department: WSD

Contract No.: 13/WSD/17

Monthly Summary Waste Flow Table for 2025 (year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	38.740
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.330
Mar	30.520	0.000	0.000	0.000	30.520	0.000	0.000	0.000	0.000	0.000	29.050
Apr	21.290	0.000	0.000	0.000	21.290	0.000	0.000	0.000	0.000	0.000	73.450
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	35.720
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	28.950
Sub-total	51.810	0.000	0.000	0.000	51.810	0.000	0.000	0.000	0.000	0.000	224.240
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.434	13.330
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.340
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.710
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	14.270
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	70.660
Total	51.810	0.000	0.000	0.000	51.810	0.000	0.000	0.000	0.000	1.434	363.550

Notes:

- (1) The performance targets are given in Section 1.69 of Specification B
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging material

Name of Department: WSD

Contract No.: 13/WSD/17

Monthly Summary Waste Flow Table for 2026 (year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22.300
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.070
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	66.120
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	88.530
May											
Jun											
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	195.020
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	195.020

Notes:

- (1) The performance targets are given in Section 1.69 of Specification B
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging material

Appendix F

Summary of Exceedances

Table G1 Cumulative Statistics on Exceedances

Environmental Monitoring	Parameter	No. of non-Project related exceedance in the reporting period		Total No. of non-Project related exceedance in the reporting period	No. of Project related exceedance in the reporting period		Total No. of Project related exceedance in the reporting period	Total No. recorded since the project commencement
		AL	LL		AL	LL		
Noise	L _{eq} (30min)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water Quality	DO	0	0	0	0	0	0	0
	Turbidity	0	0	0	0	0	0	0
	SS	3	11	14	0	0	0	3237
	pH	0	0	0	0	0	0	0
Landfill Gas	O ₂	0	0	0	0	0	0	0
	CH ₄	0	0	0	0	0	0	0
	CO ₂	0	0	0	0	0	0	0

Appendix G

Complaint Log

Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
1 May 2025 – 30 April 2026	0	3	Air Quality, Noise and Water Quality

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Details
1 May 2025 – 30 April 2026	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Details
1 May 2025 – 30 April 2026	0	0	N/A

Appendix H

Event / Action Plan

Table I1 Event and Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	1. Carry out investigation to identify the source and cause of the complaint/exceedance(s) 2. Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC 3. Discuss with the Contractor and IEC for remedial measures required 4. If the complaint is related to the Project, conduct additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor	1. Review the analyzed results submitted by the ET 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly 3. Supervise the implementation of remedial measures	1. Confirm receipt of Notification of Exceedance in writing 2. Require Contractor to propose remedial measures for the analyzed noise problem 3. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals, if required, to the IEC and ER 2. Implement noise mitigation proposals
Limit Level	1. Carry out investigation to identify the source and cause of the exceedance 2. Notify IEC, ER, Project Proponent, EPD and Contractor 3. Repeat measurements to confirm findings 4. Provide investigation report to IEC, ER, EPD and Contractor he causes of the exceedances 5. If the exceedance is related to the Project, assess effectiveness by additional monitoring 6. Report the remedial action implemented and the additional monitoring results to IEC, EPD, ER and Contractor 7. If exceedance stops, cease additional monitoring	1. Review the analyzed results submitted by the ET 2. Discuss the potential remedial measures with ER, ET Leader and Contractor 3. Review Contractors 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. Require the Contractor to propose remedial measures for the analyzed noise problem 3. Ensure remedial measures are properly implemented 4. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor, in agreement with the Project Proponent, to stop that activity 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 proposals if problem still not under control 5. Stop the relevant activity of works as determined by the Project Proponent until the exceedance is abated

Table I2 Event and Action Plan for Water Quality Monitoring

Event	Action			
	ET	IEC	Contract(s)	ER
Action Level being exceeded by one sampling day	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER.	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice	1. Confirm receipt of notification of exceedance in writing.
Action Level being exceeded by two or more consecutive sampling days	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Consider changes of working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented.
Limit Level being exceeded by one sampling day	4. Repeat in situ measurement on the next day of exceedance to confirm findings; 5. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 6. Identify source(s) of impact and record in notification of exceedance; 7. Inform IEC, Contractor(s) and ER; 8. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Critically review the need to change working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented. 4. Request Contractor(s) to critically review the working methods.

Event	Action			
	ET	IEC	Contract(s)	ER
Limit Level being exceeded by two or more consecutive sampling days	1. Repeat in situ measurement on the next day of exceedance to confirm findings; 2. Check monitoring data, plant, equipment and Contractor(s)'s working methods; 3. Identify source(s) of impact and record in notification of exceedance; 4. Inform IEC, Contractor(s) and ER; 5. Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented	1. Check monitoring data submitted by ET and Contractor(s)'s working methods; 2. Inform EPD; 3. Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; 4. Assess the effectiveness of the implemented mitigation measures.	1. Confirm receipt of notification of exceedance in writing; 2. Check plant and equipment and rectify unacceptable practice; 3. Critically review the need to change working methods; 4. Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; 5. Implement the agreed mitigation measures. 6. As directed by ER, slow down or stop all or part of the marine construction works/ production volume of the desalination plant until no exceedance of Limit Level.	1. Confirm receipt of notification of exceedance in writing; 2. Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. 3. Ensure additional mitigation measures are properly implemented. 4. Request Contractor(s) to critically review the working methods; 5. Consider and instruct, if necessary, the Contractor(s) to slow down or to stop all or part of the marine construction works/production volume of the desalination plant until no exceedance of Limit Level.