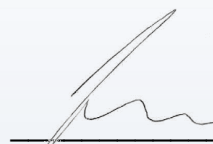


Contract No. CM 04/2024 – Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)

Monthly Environmental Monitoring and Audit
Report for:
May 2025
Revision 4

Certified By:

A handwritten signature in black ink, appearing to read "Ting Po Chung".

Ting Po Chung, Ivan
Environmental Team Leader
Report Date: 13 June 2025



Drainage Services Department
The Government of the Hong Kong Special Administrative Region

Our Ref: 7076811/L32197/AC/KL/TK/KCL/rw

13 June 2025

Drainage Services Department
Sewage Services Branch
Consultants Management Division Group 4
42/F Revenue Tower
5 Gloucester Road
Wan Chai, Hong Kong

By Email and Post
(kkchan06@dsd.gov.hk)

Attn: Mr. CHAN Ka Keung

Dear Sir

Contract No. SD 7/2020
Independent Environmental Checker ("IEC") for Environmental Monitoring Work for
South Lantau Sewerage Works
Verification of Monthly EM&A Report (May 2025)

With reference to the Monthly EM&A Report (May 2025) Revision 4 dated and certified by the ET Leader on 13 June 2025, please note that we have no adverse comments on the captioned and we hereby verify the captioned in accordance with Condition 3.4 of the Environmental Permit No. EP-538/2017.

Should you have questions please do not hesitate to contact the undersigned at tel. 3995-8100 or by email to kitty.lee@smec.com; or our Mr Tommy KONG on tel. 3995-8123 or by email to tommy.kong@smec.com.

Yours faithfully



Kitty LEE

Independent Environmental Checker

cc	Binnies	- Mr. Kevin CHAN	by email
	Umwelt	- Mr. Ivan TING	by email
	KLCW-JV	- Mr. Daniel Chu	by email

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Executive Summary

This Monthly Environmental Monitoring and Audit (“EM&A”) Report summarise project monitoring and auditing data, with full interpretation illustrating the acceptability or otherwise of any environmental impacts and identification or assessment of the implementation status of agreed mitigation measures, including monitoring results and findings of the EM&A Programme, along with findings recorded during the site Inspections and audits, reports of Complaints, Notifications of Summons and Successful Prosecutions, and other necessary observations obtained within this reporting month of May 2025.

In the reporting month, the principal work activities conducted are as follow:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
- Excavation and site formation at SSWSTW
- Trenchless drilling works (Chi Ma Wan Road)
- Excavation and ELS work at POSPS
- Superstructure RC works at SSWSTW
- Retaining wall construction at SSWSTW
- Dredging and diffuser construction at SSWSTW
- E&M Installation at POSPS

Noise Monitoring

Noise Monitoring has been conducted at 8 of the designated monitoring locations (N12a, N12b, N13, N14, N15b, N16a, N16b, and N17) where construction works has been conducted nearby during the reporting month.

No action or limit level exceedance was recorded in construction noise level in this reporting period.

Water Quality Monitoring

Marine Water Monitoring has been conducted at 9 designated monitoring locations during the reporting month.

The marine construction works were completed in May 2025, with the silt curtain removed on 24 May 2025 in accordance with the approved Silt Curtain Deployment Plan.

Action level exceedances were recorded for dissolved oxygen on 17 to 29 May 2025. Investigations have been conducted accordingly and concluded the exceedances were not project related.

Ecological Impact Monitoring

Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.

As per latest version of PTP, 4 tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.

The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.

The extent of the work site boundaries was checked by the ET during the weekly site audit.

Complaints, Notification of Summons and Prosecution

No environmental complaint was recorded in the reporting month.

No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.

Reporting Changes

There are no reporting changes in the reporting month.

Future Key Issues

The construction works scheduled to be conducted in the coming 3 reporting months are listed as follows:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road;
- Excavation and site formation at SSWSTW;

- Trenchless drilling works at Chi Ma Wan Road;
- Excavation and ELS work at POSPS;
- Superstructure RC works at SSWSTW;
- Retaining wall construction at SSWSTW;
- E&M Installation at POSPS.

Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

Key Construction Works	Recommended Mitigation Measures
• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road • Excavation and site formation at SSWSTW • Trenchless drilling works (Chi Ma Wan Road) • Excavation and ELS work at POSPS • Superstructure RC works at SSWSTW • Retaining wall construction at SSWSTW • E&M Installation at POSPS	• Prevention of site runoff during heavy rainstorms. • Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; • Dust control during dust generating works; • Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; • Adopt temporary drainage and sediment control facilities on Site; • Vehicle wheel-washing and body washing facilities should be provided at the site entrance; • Regular water spraying on excavation works for dust control; and • Proper waste handling, recycling and storage.

1. Introduction

1.1 Project Background

- 1.1.1 The Environmental Protection Department (“EPD”) completed the Outlying Islands Sewerage Master Plan (“SMP”) Study in 1994 and drew up a SMP for Lantau Island and other outlying islands. The proposed sewerage works of the SMP were divided into 2 stages. The Stage 2 Works of the SMP were subsequently reviewed by EPD under the Outlying Islands Sewerage Master Plan Stage 2 Review (SMP Review Study) in 2001.
- 1.1.2 The proposed sewerage works for South Lantau were further reviewed in 2008 under the Review of Sewerage Scheme for South Lantau (Review Study). According to the Review Study, the proposed sewerage works for South Lantau would serve the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin.
- 1.1.3 The Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works, herein referred to as “the Project”, referred to the sewerage works for South Lantau that would serve the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin.
- 1.1.4 The Project mainly comprises of the following items:
- a) Construction of a secondary sewage treatment works (“STW”) at San Shek Wan in South Lantau;
 - b) Construction of sewage pumping station (“SPS”) at Pui O, San Shek Wan, Cheung Sha, Cheung Fu Street, Shui Hau and Tong Fuk;
 - c) Construction of about 1.4km of twin submarine outfalls with a diameter of 350mm for the disposal of treated effluent from the STW at San Shek Wan;
 - d) Construction of about 10.1km of gravity sewers with diameters ranging from 150mm to 375mm along South Lantau Road and Chi Ma Wan Road and at Pui O; and
 - e) Construction of about 3.1km of twin rising mains with a diameter of 200mm to 250mm along South Lantau Road and Chi Ma Wan Road.

1.2 Environmental Monitoring & Audit Programme

- 1.2.1 An Environmental Impact Assessment (“EIA”) was subsequently prepared to review the potential environmental impact that would be due to the Project during its construction works and operational works. The EIA Report was submitted and approved on 24 April 2017, and Environmental Permit (“EP”) No. EP-538/2017 was subsequently granted on 13 July 2017.
- 1.2.2 Environmental Monitoring & Audit (“EM&A”) Programme is therefore implemented in accordance with the EM&A Manual under the EIA Report.
- 1.2.3 Umwelt Consulting Limited (“UCL”) has been appointed to work as the Environmental Team (“ET”) under EP No. EP-538/2017 to implement the Environmental Monitoring and Audit (“EM&A”) programme as stipulated in the EM&A Manual of the approved EIA Report for the Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works (Register No.: AEIAR-210/2017).

1.3 Monthly Environmental Monitoring & Audit Report

- 1.3.1 This Monthly EM&A Report summarise project monitoring and auditing data, with full interpretation illustrating the acceptability or otherwise of any environmental impacts and identification or assessment of the implementation status of agreed mitigation measures, including monitoring results and findings of the EM&A Programme, along with findings recorded during the site Inspections and audits, reports of Complaints, Notifications of Summons and Successful Prosecutions, and other necessary observations obtained within this reporting month of May 2025.
- 1.3.2 The structure of this Report is detailed as follows:
- a) **Section 1 Introduction –**
Details the scope and structure of the report.
 - b) **Section 2 Basic project Information and Environmental Status –**
Summarizes project organization and key personnel contact, construction programme and works undertaken for the month. Construction programme, works undertaken during the month with illustrations, drawing showing the project area, environmental sensitive receivers and monitoring locations.
 - c) **Section 3 Implementation Status –**
Advice on the implementation status of environmental protection and pollution control/mitigation measures, as recommended in the EIA Report and summarised in the updated implementation schedule.
 - d) **Section 4 Noise Monitoring –**
Summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration, for impact noise monitoring.
 - e) **Section 5 Water Quality Monitoring –**
Summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration, for impact water quality monitoring.
 - f) **Section 6 Ecology –**
Summarizes the audit findings during the reporting month on ecological aspects.
 - g) **Section 7 Waste Management –**
Summarizes the status of waste management, including the amount and types of waste generated, and respective treatment approach.
 - h) **Section 8 Report on Complaints, Notification of Summons and Successful Prosecutions –**
Summarizes:
 - Record of all complaints received (written or verbal) for each media, including locations and nature of complaints investigation, liaison and consultation undertaken, actions and follow-up procedures taken, results and summary;
 - Record of notifications of summons and successful prosecutions for breaches of the current environmental protection/pollution control legislations, including locations and nature of the breaches, investigation, follow-up actions taken, results and summary;

- Review of the reasons for and the implications of non-compliance, complaints, summons and prosecutions including review of pollution sources and working procedures; and
 - Description of the actions taken in the event of non-compliance and deficiency reporting and any follow-up procedures related to non-compliance.
- i) **Section 9 Future Key Issues –**
An account of the future key issues as reviewed from the works programme and work method statements.
- j) **Section 10 Conclusion –**
Summarises the findings conclusion drawn from the environmental monitoring and audit programme in this reporting month.

2. Basic project Information and Environmental Status

2.1 Basic Project Information

2.1.1 Drainage Services Department (“DSD”) is the project proponent and the permit holder of the Project. For the construction phase of the Project, Contractor(s), ET and Independent Environmental Checker (“IEC”) are appointed to manage and control environmental issues. Key personnel and contact particulars are summarized in **Table 2.1**.

2.1.2 Upon conclusion of Contract No: SD 15/2022 Outlying Island Sewerage Stage 2 – South Lantau Sewage Works – Environmental Team Services (2023 – 2024), the subsequent contract, Contract No. CM 04/2024 Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025-2027), has been awarded to Umwelt Consulting Limited (“UCL”) starting 1 February 2025. As such the environmental team leader (“ETL”) appointed for the Project has been updated to Mr. Ting Po Chung, Ivan since 1 February 2025. His contact details has been updated in **Table 2.1**.

2.1.3 There are no other reporting changes in the reporting month.

Table 2.1: Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
Drainage Services Department	The Engineer for the Contract	Engineer	Mr. KK Chan	2594 7297	3104 6426
Binnies Hong Kong Limited	Engineer's Representative	Resident Engineer	Mr. Kevin Chan	3529 3003	-
Kwan Lee – Chun Wo Joint Venture	Contractor	Sub Agent	Mr. Daniel Chu	6737 6701	2744 6937
		Environmental Supervisor	Ms. Joey Pang	6978 2876	
		Environmental Supervisor	Mr. Philip Wong	6908 8920	
SMEC Hong Kong	IEC	IEC	Ms. Kitty Lee	3995 8140	3422 3631
Umwelt Consulting Limited	ET	ET Leader	Mr. Ivan Ting	3756 9590	3582 3310

2.2 Construction Programme

2.2.1 The proposed sewerage works will collect the sewage generated from the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin in South Lantau (i.e. within the Project Catchment Area) and convey it to a proposed sewage treatment works at San Shek Wan for treatment and disposal into outer bay of Pui O / Chi Ma Wan via a submarine outfall.

2.2.2 The Project was divided into 3 contracts. The current contract, Contract No. DC/2020/02 - Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works (“the Contract”) would have the following implementations. The works site of the Contract is also given in **Figure 2.1**.

2.2.3 The major components of the Contract under Environmental Permit (“EP”) (EP No. EP-538/2017) comprises:

- a) Construction of a secondary sewage treatment works (“STW”) at San Shek Wan in South Lantau;
- b) Construction of a sewage pumping station (“SPS”) at Pui O, San Shek Wan, Cheung Sha and Cheung Fu Street;
- c) Construction of about 1.4km of submarine outfall with a diameter of 350mm for the disposal of treated effluent from the STW at San Shek Wan;
- d) Construction of about 10.1km of gravity sewers with diameters ranging from 150mm to 375mm along South Lantau Road and Chi Ma Wan road and at Pui O; and
- e) Construction of about 3.1km twin rising mains with a diameter of 200mm to 250mm along South Lantau Road and Chi Ma Wan Road.

2.3 Works undertaken during the Reporting Month

2.3.1 In the reporting month, the principal work activities conducted are as follow:

- a) Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
- b) Excavation and site formation at SSWSTW
- c) Trenchless drilling works at Chi Ma Wan Road;
- d) Excavation and ELS work at POSPS;
- e) Superstructure RC works at SSWSTW;
- f) Retaining wall construction at SSWSTW;
- g) Dredging and diffuser construction at SSWSTW; and
- h) E&M Installation at POSPS.

2.3.2 The locations of the works are shown in **Figure 2.2**.

2.4 Drawing Showing the Project Area, Environmental Sensitive Receivers and Monitoring Locations

2.4.1 Noise and water monitoring location plans with sensitive receivers are shown in **Figure 2.3** and **Figure 2.4** respectively.

3. Implementation Status

3.1 Advice on the Implementation Status of Environmental Protection and Pollution Control/Mitigation Measures

3.1.1 Mitigation measures according to the environmental mitigation implementation schedule in Annex A of EM&A Manual were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

3.2 Environmental Mitigation Measures

3.2.1 Environmental mitigation measures mentioned the EIA Report were weekly reviewed and recorded in Weekly Environmental Site Audit Checklist. Also, a summary of the current status on submissions and measures mentioned in the EP No. EP-538/2017 are shown in **Table 3.1**.

Table 3.1: Summary of Submission Status under EP-538/2017

EP Condition	Submission and Revision No.	Date of Latest Submission
2.10	Waste Management Plan (Rev. 5) (electronic copy)	4 April 2022#
2.11	Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (Rev. 23)	9 September 2022#
2.12	Compensatory Woodland Planting Plan (Rev. 23)	15 May 2023^
2.13	Silt Curtain Deployment Plan (Rev. 11)	1 June 2022#
2.14	Landscape Mitigation Plan	To be confirmed
2.15	Construction Noise Mitigation Plan (Rev. 20)	4 August 2022#

Note:

^ Submission was made to EPD

Approval from EPD was received

3.3 Environmental Monitoring Requirements and Contractual Requirements

3.3.1 A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 3.2**.

Table 3.2: Summary of the Current Status on Licences and/or Permits on Environmental Protection Pertinent to The Project

Permits and/or Licences	Permit. No. / Account No.	Issued Date	Valid Period & Expiry Date	Status
Notification of Works Under APCO	466408	14 Apr 2021	N/A	Valid
Wastewater Discharge Licence under Water Pollution Control Ordinance	SSWSTW: WT00039636-2021	30 Dec 2021	30 Dec 2021 to 31 Dec 2026	Valid
	POPS: WT00039820-2021	31 Dec 2021	31 Dec 2021 to 31 Dec 2026	Valid
	SSWSTW: Gravity Sewer & Raising Main: WT00042613-2022	09 Jan 2023	09 Jan 2023 to 31 Jan 2028	Valid

Permits and/or Licences	Permit. No. / Account No.	Issued Date	Valid Period & Expiry Date	Status
Billing account under Waste Disposal Ordinance	Account No.: 7040411	05 May 2021	N/A	Valid
Registration as a Chemical Waste Producer	0000-931-K3428-01	13 May 2021	N/A	Valid
Construction Noise Permit under Noise Control Ordinance for SSWSTW	GW-RS0084-25	28 Jan 2025	09 Feb 2025 to 08 Aug 2025	Valid
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0310-25	26 Mar 2025	28 Mar 2025 to 26 Sep 2025	Valid
Marine Dumping Permit (Dredged Sediment Requiring Type 1 – Open Sea Disposal)	EP/MD/25-024	19 Nov 2024	19 Nov 2024 to 18 May 2025	Expired since 19 May 2025

Note: Only valid permits or permits under applications within the reporting month are included.

3.4 Site Inspection and Audit Reports

3.4.1 Within this reporting month, weekly environmental site inspections were conducted on 7, 12, 19 and 27 May 2025. IEC attended the SSEMC meeting held on 19 May 2025. The ET and contractor participated in the holding nursery visit for transplanted trees on 27 May 2025.

3.4.2 No non-compliance was found during the site inspections while reminders on environmental measures were recommended. Reminders and/or Observations recorded during site inspections in this reporting month are listed in **Table 3.3**.

Table 3.3: Summary of Environmental Inspections

Inspection Date	Reminder and Recommendations	Close-out Date / Status
7 May 2025	<u>Pui O Sewage Pumping Station</u> No Reminder and/or Observation <u>San Shek Wan Sewage Treatment Works</u> No Reminder and/or Observation	N/A
12 May 2025	<u>Pui O Sewage Pumping Station</u> <u>Reminder 1</u> <u>The contractor is reminded to instruct workers to sort waste properly.</u> <u>San Shek Wan Sewage Treatment Works</u> <u>No reminder and/or observations</u>	Contractor has rectified the reminders on 19 May 2025

Inspection Date	Reminder and Recommendations	Close-out Date / Status
19 May 2025	<u>Pui O Sewage Pumping Station</u> <u>No reminder and/or observations</u> <u>San Shek Wan Sewage Treatment Works</u> <u>Reminder 1:</u> <u>The contractor is reminded to properly store the chemicals on site.</u> <u>Reminder 2:</u> <u>The contractor is reminded to properly maintain site cleanliness.</u>	Contractor has rectified the reminders on 26 May 2025
27 May 2025	<u>Pui O Sewage Pumping Station</u> <u>No Reminder and/or Observation</u> <u>San Shek Wan Sewage Treatment Works</u> <u>Reminder 1:</u> <u>The contractor is reminded to instruct workers to sort waste properly.</u> <u>Kam Tin Nursery</u> <u>Reminder 2:</u> <u>The contractor is reminded to clear tree weeds.</u>	Contractor has rectified the reminders on 2 June 2025

4. Noise Monitoring

4.1 Monitoring Methodology

Monitoring Procedure

- 4.1.1 The impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.
- 4.1.2 The monitoring station shall normally be at a point 1m from the exterior of the sensitive receiver's building façade and be at a position 1.2m above the ground.
- 4.1.3 Façade measurements were made at the monitoring locations. For free-field measurement, a correction factor of +3dB(A) will be applied.
- 4.1.4 The battery condition was checked to ensure the correct functioning of the meter.
- 4.1.5 Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - a) Frequency weighting: A,
 - b) Time weighting: Fast,
 - c) Measurement time set: continuous 5 mins
- 4.1.6 Prior and after to the noise measurement, the meter was checked using the acoustic calibrator for 94dB (A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than ± 1.0 dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- 4.1.7 Noise measurements will be made in accordance with standard acoustical principles and shall not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Equipment Used for Noise Monitoring

- 4.1.8 Noise monitoring was performed using sound level meter at the designated monitoring locations. The sound level meters shall comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator shall be deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in **Table 4.1**.

Table 4.1: Noise Monitoring Equipment

Equipment	Brand and Model	Serial Number	Valid Until
Integrated Sound Level Meter	Rion - NL-52	01198668	13 Jan 2026
Acoustic Calibrator	Rion - NC-75	34202223	13 Jan 2026

- 4.1.9 The calibration certificates of the noise monitoring equipment are attached in **Appendix 4.1**.

Calibration Details

- 4.1.10 The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- 4.1.11 The sound level meter and calibrator were calibrated at yearly intervals.

Parameters Monitored

- 4.1.12 The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (“Leq”). $L_{eq(30min)}$ should be used as the monitoring parameter. Supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.
- 4.1.13 For impact monitoring for construction of village sewers / rising main, noise monitoring should be undertaken on weekly basis. 1 set of $L_{eq(30min)}$ noise level as 6 consecutive $L_{eq(5min)}$ between 07:00-19:00 hours on normal weekdays has been taken.

4.2 Monitoring Stations

- 4.2.1 The noise monitoring stations for the Project are listed and shown in **Table 4.2**. Impact noise monitoring was conducted once per week at the noise monitoring stations with construction works being conducted nearby. Noise monitoring has been conducted at 8 noise monitoring stations N12a, N12b, N13, N14, N15b, N16a, N16b and N17 in the reporting month.
- 4.2.2 During the reporting period, school examinations were held from 15 to 16 May 2025. Accordingly, the noise limit for monitoring station N17-Bui O Public School was temporarily reduced to 65 dB(A) on these examination days (15-16 May 2025). The standard noise limit of 70 dB(A) remained applicable for all other days outside this examination period.

Table 4.2: Noise Monitoring Station

Monitoring Station ID *	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N01a	Shui Hau Village	Free-Field	G/F
N01c	Shui Hau Village	Free-Field	G/F
N03a	Tong Fuk Village	Free-Field	G/F
N05a	Residences at Cheung Fu Street	Free-Field	G/F
N07	Government Holiday Bungalows	Free-Field	G/F
N08	Cheung Sha Ha Tsuen	Free-Field	G/F
N10	Cheung Sha Sheung Tsuen	Façade	G/F
N11b	San Shek Wan – Ming Garden	Free-Field	G/F
N12a *	Lo Uk Tsuen	Free-Field	G/F
N12b *	Lo Uk Tsuen	Free-Field	G/F
N13 *	Pui O San Wai Tsuen	Free-Field	G/F
N14 *	South Lantau Community Centre	Free-Field	G/F
N15b *	Pui O Lo Wai Tsuen	Façade	G/F
N16a *	Residences at Ham Tin	Façade	G/F

Monitoring Station ID *	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N16b *	Residences at Ham Tin	Free-Field	G/F
N17 *	Bui O Public School	Façade	R/F

NOTE:

* Fine adjustment of noise monitoring stations at all locations was proposed as per EP Condition 3.1.

* Measurement was conducted at the station in the reporting month.

4.3 Monitoring Date, Time, Frequency and Duration

4.3.1 For daytime construction work on normal weekdays, monitoring of $L_{eq(30min)}$ should be carried out at each station at 0700-1900 hours on normal weekdays at a frequency of once a week. Impact monitoring schedule can be referred to **Appendix 4.2**.

4.4 Noise Monitoring Results

4.4.1 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 4.3**.

4.4.2 No action or limit level exceedance was recorded in construction noise level in this reporting period.

5. Water Quality Monitoring

5.1 Monitoring Methodology

Monitoring Procedure

- 5.1.1 The condition near the monitoring stations shall be observed and recorded on the data log sheet.
- 5.1.2 Check of sensors and electrodes with certified standard solutions before each use.
- 5.1.3 Wet bulb calibration for a DO meter should be carried out before measurement.
- 5.1.4 Water depth should be recorded by detector before sampling.
- 5.1.5 A water sampler, consisting of a PVC or glass cylinder of not less than two litres, which can be effectively sealed with cups at both ends, will be used for water sampling. The water sampler will have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.
- 5.1.6 Transfer the collected water carefully into cleaned water bottles (2x 1000ml) provided by the laboratory at the spot for the subsequent laboratory Suspended Solid testing.
- 5.1.7 Parameters including Water Temperature (°C), pH (units), Salinity (ppt), DO (mg/L), DO saturation (%), and Turbidity (NTU) will be measured in-situ by the Multifunctional Meter. Water Temperature and Salinity will be recorded for reference.
- 5.1.8 Record the result on the data log sheet and record any special finding during / after in-situ measurement.
- 5.1.9 The water sample bottles will be stored in a cool box (at cooled to 4°C without being frozen), which shall be delivered to HOKLAS laboratory (ALS Technichem (HK) Pty Ltd) for further testing to determine the level of Suspended Solids ("SS").

Name of Laboratory and Equipment Used and Calibration Details

Laboratory Measurement / Analysis

- 5.1.10 Analysis of suspended solids will be carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd.

Equipment Used

Dissolved Oxygen, pH and Temperature Measuring Equipment

- 5.1.11 Multifunctional Meter are used at each designated monitoring station. They are capable of measuring:
 - a) a dissolved oxygen level in the range of 0-20mg/L and 0-200% saturation (Detection Limit: 0.1mg/L)
 - b) a temperature of 0-45 degree Celsius (Detection Limit: 0.1 degree Celsius)
 - c) turbidity level between 0-1000NTU (Detection Limit: 0.1NTU)
 - d) salinity in the range of 0-40ppt (Detection Limit: 0.1ppt)
 - e) pH value in range of 0.0 – 14.0 (Detection Limit: 0.1units)
- 5.1.12 Other monitoring equipment namely water depth meter, water current meter, dGPS positioning device, water sampler listed below were also deployed,

- a) Water depth meter (Range: 0.6 -100m, Resolution: 0.1m)
- b) Water current meter (Range: 0-360°, Detection Limit: 1mm/s)
- c) dGPS positioning device (Resolution: Horizontal: 0.25m; Vertical: 0.50m)
- d) Water sampler (Horizontal discrete type, Capacity: 2.2L)

Sampler Container and Storage

- 5.1.13 A water sampler, water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

Water Depth Detector

- 5.1.14 A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

Calibration Details

- 5.1.15 Maintenance and Calibration

- a) The responses of sensors and electrodes of the water quality monitoring equipment were cleaned and checked at regular intervals.
- b) The Multifunctional Meter was certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at 3 monthly intervals.

- 5.1.16 Brand and model of the equipment are given in **Table 5.1**.

Table 5.1: Water Quality Monitoring Equipment

Equipment	Brand and model	Series Number
Multifunctional Meter	YSI ProDSS	21K101469
		16H104233

- 5.1.17 Calibration certificates of the water quality monitoring equipment are attached in **Appendix 5.1**.

Parameters Monitored

- 5.1.18 In construction phase, the levels of dissolved oxygen (DO), temperature, turbidity and salinity should be measured in situ while suspended solids (SS) is determined by laboratory analysis.

5.2 Monitoring Stations

- 5.2.1 Water quality monitoring should be conducted at 9 monitoring stations. The locations of water quality monitoring station are shown in **Table 5.2**.

Table 5.2: Marine Water Quality Stations for Water Quality Monitoring

Station	Description	Easting	Northing
CE	Upstream control station at ebb tide	810838	807538

CF	Upstream control station at flood tide	815886	808081
SR4 (1)	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814938	810975
SR5	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814326	810540
SR6	Gazetted Bathing Beach at Lower Cheung Sha	813307	810466
SR9 (1)	Ecological Important Stream at Tong Fuk	811325	809787
SR10	Secondary Contact Recreational Zones at South Lantau	810561	809494
SR12 (1)	Proposed Special Site of Scientific Interest (SSSI) at Shui Hau Wan	810359	808989
SR15	Gazetted Bathing Beach at Pui O and Ecologically Important Stream at Pui O	816037	810722

NOTE:

Fine adjustment of water quality monitoring stations at SR4, SR6, SR9, and SR12 was proposed as per EP Condition 3.1, and baseline monitoring was conducted at corresponding fine adjusted locations.

5.3 Monitoring Date, Time, Frequency and Duration

- 5.3.1 Baseline Water quality monitoring had been commenced on 12 April 2022 the designated monitoring stations 3 days per week with respect to marine-based construction works commenced on 19 April 2022. HDD casing works commenced on 30 May 2022.
- 5.3.2 To support water quality monitoring, the silt curtain deployment plan has minor updates to include an additional brand of geosynthetic material as alternative for selection and adopt underwater robot for inspecting condition of silt curtain.
- 5.3.3 For the upcoming marine works (stage 3 and stage 4), new silt curtain extension to be applied at diffuser and emergency bypass constructions has been proposed and supplemented in the Contract No. SD 15/2022 – Outlying Island Sewerage Stage 2 – South Lantau Sewage Works – Environmental Team Services (2023 – 2024) Monthly EM&A Report (November 2024) 20 EP-538/2017 revised silt curtain deployment plan. Typical details of proposed silt curtain are shown in **Figure 5.1**.
- 5.3.4 The levels of dissolved oxygen (“DO”), temperature, turbidity and salinity were measured in situ while suspended solids (“SS”) is determined by laboratory analysis at all the monitoring stations in **Table 5.2** 3 times a week. Impact monitoring schedule can be referred to **Appendix 5.2**.
- 5.3.5 In association with the water quality parameters, other relevant data shall also be recorded, such as monitoring location / position, time, water temperature, DO saturation, weather conditions, and any special phenomena underway near the monitoring station.
- 5.3.6 Impact Monitoring shall be carried out 3 days per week, at mid-flood and mid-ebb tides (within ± 1.75 hour of the predicted time). The interval between 2 sets of monitoring shall not be less than 36 hours. The monitoring period should avoid concurrent marine project in the vicinity.
- 5.3.7 The sampling frequency of at least 3 days per week should be undertaken. Upon completion of the construction works, the monitoring exercise at the designated monitoring locations should be continued for 4 weeks in the same manner as the impact

monitoring. In case exceedance of Action/Limit Level is recorded, the frequency shall be increased as per the Event and Action Plan.

- 5.3.8 To ensure the robustness of in-situ measurement, parameters shall be measured in duplicate. In case the difference between duplicates is larger than 25%, a third set of measurement shall be carried out.

Temporary Suspension of Water Quality Monitoring from August 2024 to October 2024

- 5.3.9 According to the Contractor's construction programme and confirmed with Engineer Representative, there is no potential marine work until further notice. As such, pursuant to Condition 3.1 of the Environmental Permit No. EP-538/2017, proposal of temporary suspension of impact marine water quality monitoring was submitted to EPD for approval on 12 July 2024. This proposal was reviewed and verified by the Independent Environmental Checker (IEC) on 12 July 2024. The proposal was approved by EPD on 27 August 2024, thus, impact marine water quality monitoring had been temporarily suspended starting from 28 August 2024 and resumed on 7 October 2024.
- 5.3.10 According to the Contractor's construction programme, the marine works has been officially commenced on 27 November 2024.

5.4 Monitoring Results

- 5.4.1 Marine water quality monitoring results measured in this reporting period are reviewed and summarized. Details of marine water quality monitoring results and graphical presentation can be referred in **Appendix 5.3**.
- 5.4.2 Water quality monitoring is evaluated against Action and Limit Levels. The derived Action and Limit Level proposed in Baseline Monitoring Report Rev. 9.2 was agreed by EPD on 2 September 2022. Action and Limit Levels of marine water quality monitoring have been set with reference to the derived criteria as shown in **Table 5.3** below for reference.

Table 5.3: Action and Limit Levels of Water Quality

Parameters	Action Level	Limit Level
Construction Phase Marine Water Monitoring - derived criteria		
DO in mg/L ¹	Surface and Middle: 5.8 mg/L Bottom: 5.9 mg/L	Surface and Middle: 4 mg/L Bottom: 2 mg/L
Turbidity in NTU (Depth-averaged ²) ³	14.4 NTU <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ⁴	23.5 NTU <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ⁴
SS in mg/L (Depth-averaged ²) ³	13.1 mg/L <u>and</u> 20% exceedance of value at any impact station compared with corresponding data from control station ⁴	30.4 mg/L <u>and</u> 30% exceedance of value at any impact station compared with corresponding data from control station ⁴

Notes (with proposed amendments in AL/LL in underlined text):

1: For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2: "Depth-averaged" is calculated by taking the arithmetic means of reading of all 3 depths

3: For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

4: Action Level and Limit Level with 95%-ile / 99%-ile derived from baseline data “and” 20% / 30% exceedance of control station proposed in Baseline Monitoring Report.

Exceedances Recorded in the Reporting Month

- 5.4.3 Action level exceedance was record for dissolved oxygen on 17 to 29 May 2025. Investigations were conducted and site investigation was conducted on 30 May 2025.
- 5.4.4 Marine works were completed on 24 May 2025. Marine works of casing removal was conducted on 24 May 2025. The silt curtain was then removed on the same day in accordance with the site curation deployment plan. No other marine works were conducted in May 2025. **Table 5.4** summarizes the exceedances events and respective investigation findings.

Table 5.4: Exceedances Events and Investigation Findings

Exceedances	Monitoring stations	Conclusion	Justification
17 May 2025 – Dissolved Oxygen	SR9-Ebb and Flood Tide	Not project related	SR9 is located too far away from the marine works site.
20 May 2025 – Dissolved oxygen	SR4-Flood Tide SR9-Flood Tide	Not project related	No marine works were conducted during the water quality monitoring. No abnormalities observed during water quality monitoring.
22 May 2025 – Dissolved oxygen	SR4-Ebb Tide SR5-Ebb and Flood Tide SR9-Flood Tide	Not project related	No marine works were conducted during the water quality monitoring. No abnormalities observed during water quality monitoring.
24 May 2025 – Dissolved oxygen	SR5-Ebb Tide SR9-Flood Tide	Not project related	Marine works conducted on 24 May 2025 would not have introduced pollutants that would affect Dissolved Oxygen.
27 May 2025 – Dissolved oxygen	SR4-Ebb and Flood Tide SR5-Ebb and Flood Tide SR9-Ebb and Flood Tide	Not project related	No marine works were conducted during the water quality monitoring. No abnormalities observed during water quality monitoring.
29 May 2025 – Dissolved oxygen	SR4-Ebb and Flood Tide SR5 -Ebb and Flood Tide SR6 -Flood Tide SR9-Ebb and Flood Tide SR15-Flood Tide	Not project related	No marine works were conducted during the water quality monitoring. Abnormalities in seawater were observed during site investigation conducted on 30 May 2025, which is suspected to be algae bloom.

- 5.4.5 As the exceedances would due to natural fluctuation, and the marine works have been completed. Hence, the water quality monitoring was not extended in spite of the exceedance recorded on 29 May 2025.
- 5.4.6 Water quality monitoring programme is completed in May 2025, should marine works would be resumed, water quality monitoring programme will resume accordingly.

6. Ecology

6.1 Monitoring Methodology

- 6.1.1 The weekly site audit to be carried out by the ET should include checking whether good site practices are being properly implemented by the Contractor
- 6.1.2 Impact monitoring of the transplanted *Aquilaris sinensis* at holding nursery and 1 retain tree of *Aquilaris sinensis* in SSWSTW Project Site, establishment and after-establishment caring measures of the compensatory mixed woodland to ensure the affected tree would not be affected by any unacceptable construction works. The trees would be treated with establishment works immediately after transplanting.
- 6.1.3 Site inspection at the nursery was conducted on 27 May 2025. One reminder was recorded.

6.2 Parameters Monitored

- 6.2.1 The extent of the work site boundaries should be checked by the ET during the weekly site audit. Any disturbance by the Contractor outside the works area especially any damage to the vegetation and surrounding habitats outside the Project area shall be reported to ER and IEC.
- 6.2.2 To identify any unacceptable construction works for the trees of *Aquilaris sinensis* during transplanting, establishment and after-establishment caring measures of the compensatory mixed woodland.

6.3 Monitoring Location

- 6.3.1 As per latest version of PTP, 4 tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW (**Figure 6.1**) which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery (**Figure 6.2**) at Kam Tin and eventually be transplanted to Pui O Pumping Station.

6.4 Monitoring Date, Time, Frequency and Duration

- 6.4.1 The recommended good site practices to be audited once every week as part of the site audit programme. The weekly site audit to be carried out by the ET includes checking whether good site practices are being properly implemented by the Contractor. Results are recorded in Weekly Environmental Site Audit Checklist.
- 6.4.2 Monitoring programme for post-transplantation was conducted on 27 May 2025 once per month.

6.5 Monitoring Results

- 6.5.1 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 6.5.2 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 6.5.3 Results and findings of site audit in this reporting month are listed in **Table 3.3**.

7. Waste Management

7.1.1 The quantities of waste for disposal in the Reporting Period are summarized in **Table 7.1**. The Monthly Summary Waste Flow Table is shown in **Appendix 7.1**.

Table 7.1: Summary of Quantities of Waste Material

Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert), in '000m ³	0	0	0
Reused in this Contract (Inert), in '000m ³	0	0	0
Reused in other Projects (Inert), in '000m ³	0	0	0
Disposal as Public Fill (Inert), in '000m ³	0.07	0.39	29.48789
Metals, in '000kg	10.59	0.0069	15.78377
Paper / Cardboard Packing, in '000kg	0	0.0528	1.03058
Plastics, in '000kg	0	0.0002	0.10016
Chemical Wastes, in '000kg	0	0	0
General Refuses, in '000kg	29.07	25.38	799.25
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0	0	1360.2

NOTE:

The inert waste disposal record up to 7 April 2025 was based on the onsite record from the contractor instead of the official record from the Mui Wo Public Fill Reception Facility due to the maintenance of the weighting bridge. The subsequent inert waste disposal record will adopt the recorded weight at the Mui Wo Public Fill Reception Facility.

8. Complaints, Notification of Summons and Prosecution

- 8.1.1 No environmental complaint was recorded in the reporting month.
- 8.1.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.
- 8.1.3 Cumulative statistic on complaints, summary of complaints and successful prosecutions are summarized in **Table 8.1**, **Table 8.2** and **Table 8.3** respectively.

Table 8.1: Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Project commencement to the end of last reporting month	3
This Reporting Month (May 2025)	0
Total:	3

Table 8.2: Summary of Complaints

Date of Notification from EPD	Date of Complaint	Description of Complaint	Validity of Complaint	Close-Out Date / Status
26 May 2022	22 May 2022	A complaint is regarding to noise nuisance from marine site of San Shek Wan, Lantau Island.	Based on the investigation, the works activities of marine works did not result in any noise nuisance to Noise Sensitive Receivers (NSRs), noise nuisance from the Project is unlikely to be valid.	The interim report was submitted to EPD in June 2022. EPD replied no further comments on the final investigation report on 13 July 2022.
23 Dec 2022	21 Dec 2022	A complaint is regarding to the water quality for Pui O Beach, Lantau Island.	Based on the investigation, the works activities at POPS did not result in any water quality impacts to the Pui O Beach.	The interim report was submitted to EPD on 4 Jan 2023.
16 Aug 2024	15 Aug 2024	A complaint is regarding to the damaged silt curtain and potential water quality impact.	Based on the investigation, no marine works since Dec 2023 till present, the land based works activities at POPS did not result in any water quality impacts to the Pui O Wan	The interim report was submitted to EPD on 31 Aug 2024.

Table 8.3: 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
Water	-	0	0
Waste	-	0	0
Other	-	0	0
Total	-	0	0

9. Future Key Issues

9.1.1 In coming reporting 3 months, the scheduled construction activities are listed as follows:

- Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
- Excavation and site formation at SSWSTW
- Trenchless drilling works (Chi Ma Wan Road)
- Excavation and ELS work at POSPS
- Superstructure RC works at SSWSTW
- Retaining wall construction at SSWSTW
- E&M Installation at POSPS

9.1.2 The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in **Table 9.1**. The major construction activities for the next 3 months are summarized in 3 Months Rolling Programme – April 2025 to June 2025 in **Appendix 9.1**

Table 9.1: Construction Activities and Recommended Mitigation Measures in Coming Reporting 3 Months

Key Construction Works	Recommended Mitigation Measures
• Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road • Excavation and site formation at SSWSTW • Trenchless drilling works (Chi Ma Wan Road) • Excavation and ELS work at POSPS • Superstructure RC works at SSWSTW • Retaining wall construction at SSWSTW • E&M Installation at POSPS	• Prevention of site runoff during heavy rainstorms. • Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; • Dust control during dust generating works; • Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; • Adopt temporary drainage and sediment control facilities on Site; • Vehicle wheel-washing and body washing facilities should be provided at the site entrance; • Regular water spraying on excavation works for dust control; and • Proper waste handling, recycling and storage.

10. Conclusion

10.1 Noise Monitoring

- 10.1.1 Noise Monitoring has been conducted at 8 of the designated monitoring locations where construction works has been conducted nearby during the reporting month.
- 10.1.2 During the reporting period, school examinations were held from 15 to 16 May 2025. Accordingly, the noise limit for monitoring station N17-Bui O Public School was temporarily reduced to 65 dB(A) on these examination days (15-16 May 2025). The standard noise limit of 70 dB(A) remained applicable for all other days outside this examination period.
- 10.1.3 No action or limit level exceedance was recorded in construction noise level in this reporting period.

10.2 Water Quality Monitoring

- 10.2.1 Marine Water Monitoring has been conducted at 9 designated monitoring locations during the reporting month.
- 10.2.2 Action level exceedance was record for dissolved oxygen on 17 to 29 May 2025. Investigations were conducted and site investigation was conducted on 30 May 2025.
- 10.2.3 Marine works were completed on 24 May 2025. The silt curtain was removed and cutting of casing on the same day in accordance with the site curation deployment plan. No other marine works were conducted in May 2025.
- 10.2.4 As the exceedances would be due to natural fluctuation, and the marine works have been completed. Hence, the water quality monitoring was not extended in spite of the exceedance recorded on 29 May 2025.
- 10.2.5 Water quality program is completed in May 2025, unless marine works would be resumed.

10.3 Ecological Impact Monitoring

- 10.3.1 Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- 10.3.2 As per latest version of PTP, 4 tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.
- 10.3.3 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 10.3.4 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 10.3.5 Within this reporting period, holding nursery visit for transplanted trees on 27 May 2025.
- 10.3.6 No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting period are listed below in **Table 10.1**

Table 10.1: Summary of Ecological Impact Monitoring

Inspection Date	Reminder and Recommendations	Close-out Date / Status
27 May 2025	The contractor is reminded to clear the weeds.	In Section 3.4.2: to be verified in next inspection

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

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

10.5 Summary of Action Taken in the Event of and Follow-Up on Non-Compliance

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

10.5.2 The performance of the environmental management system of the reporting period was generally satisfied. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.



Contract No. CM 04/2024 - Outlying Islands Sewerage
Stage 2 – South Lantau Sewerage Works –
Environmental Team Services (2025 - 2027)

UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
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Figures

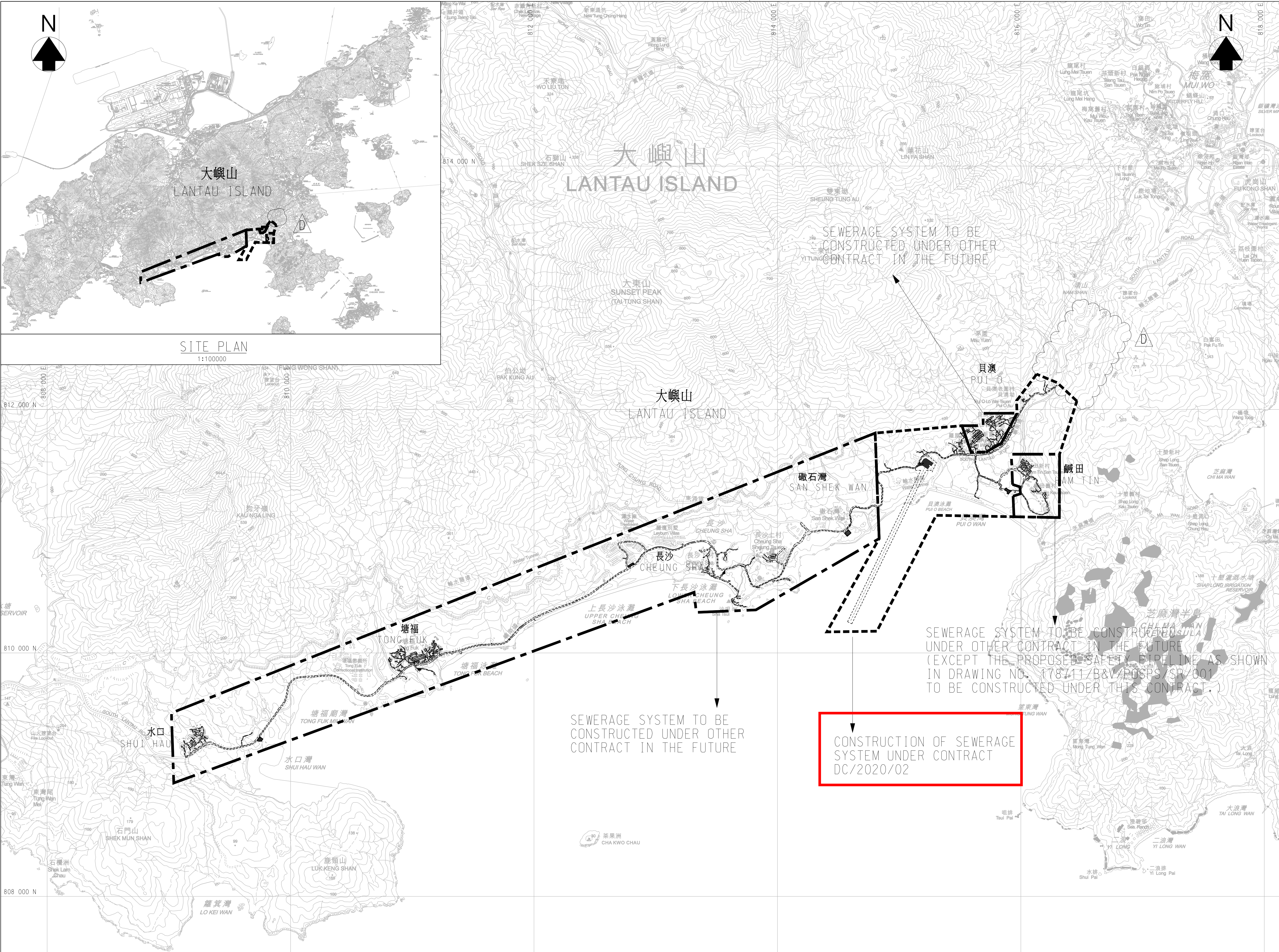


Figure 2.1 - Master Layout Plan

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C	11/20	TENDER ADDENDUM NO.5	BL
B	11/20	TENDER ADDENDUM NO.4	BL
A	09/20	TENDER ADDENDUM NO.2	TFL
Revision	Date	Description	Initial
	Designed	Checked	Drawn
Initial	TFL	BL	SZ
Date	04/20	04/20	04/20
Approved			

Contract no. DC/2020/02

Contract title
CONSTRUCTION OF SAN SHEK WAN
SEWAGE TREATMENT WORKS,
ASSOCIATED SUBMARINE OUTFALL
AND PUI O SEWERAGE WORKS

Drawing title
SOUTH LANTAU SEWERAGE
WORKS – MASTER LAYOUT PLAN

Drawing no.	Revision
178711/B&V/GN/001	D

Scale 1 : 15000

香港特別行政區政府渠務署
THE GOVERNMENT OF THE
HONG KONG
SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

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

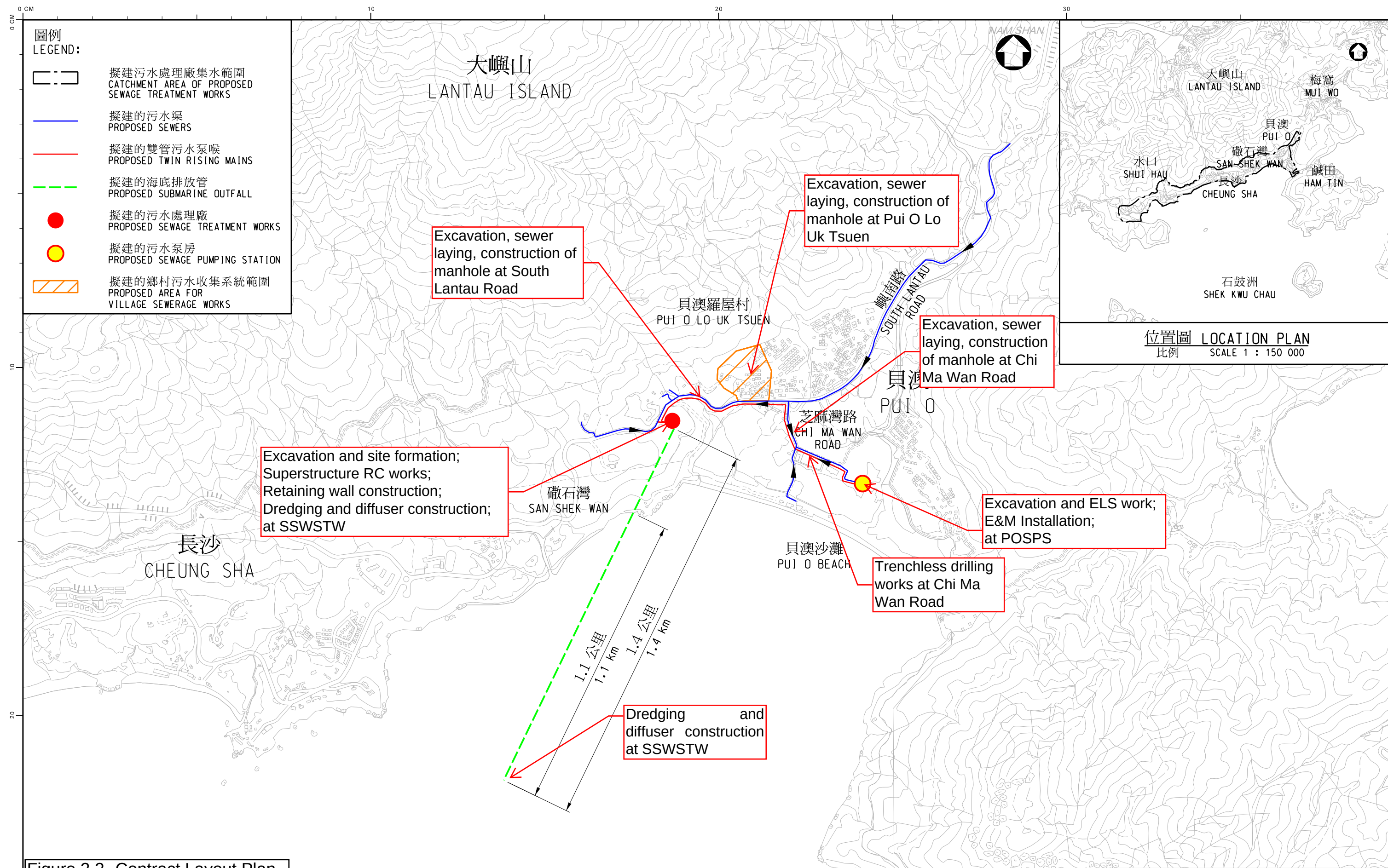


Figure 2.2 Contract Layout Plan

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	核對 checked	SIGNED Ir K. S. CHAN	日期 date	27 APR 2020		
	批核 approved	SIGNED Ir L. CHEN	日期 date	27 APR 2020	保留版權 COPYRIGHT RESERVED	
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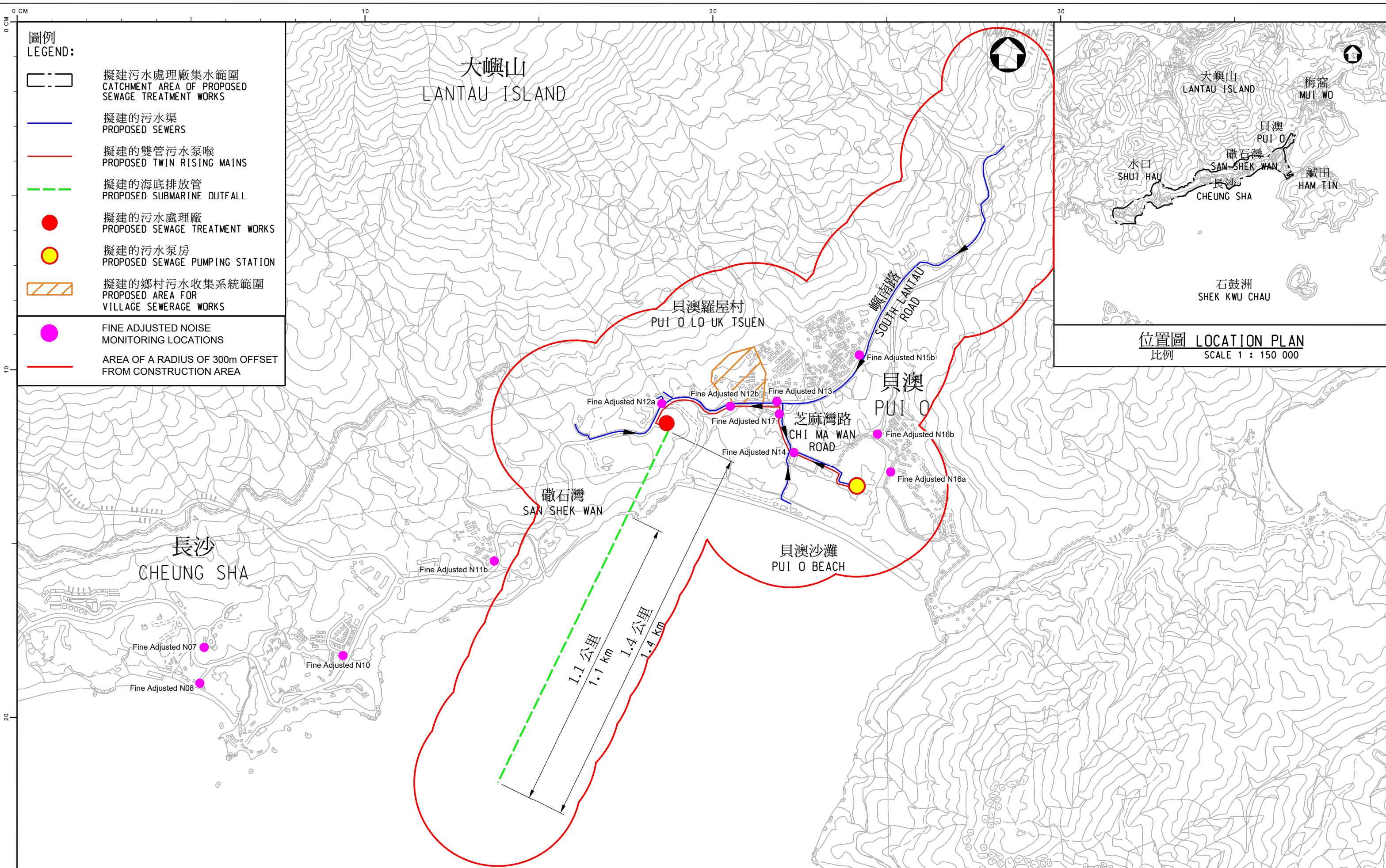
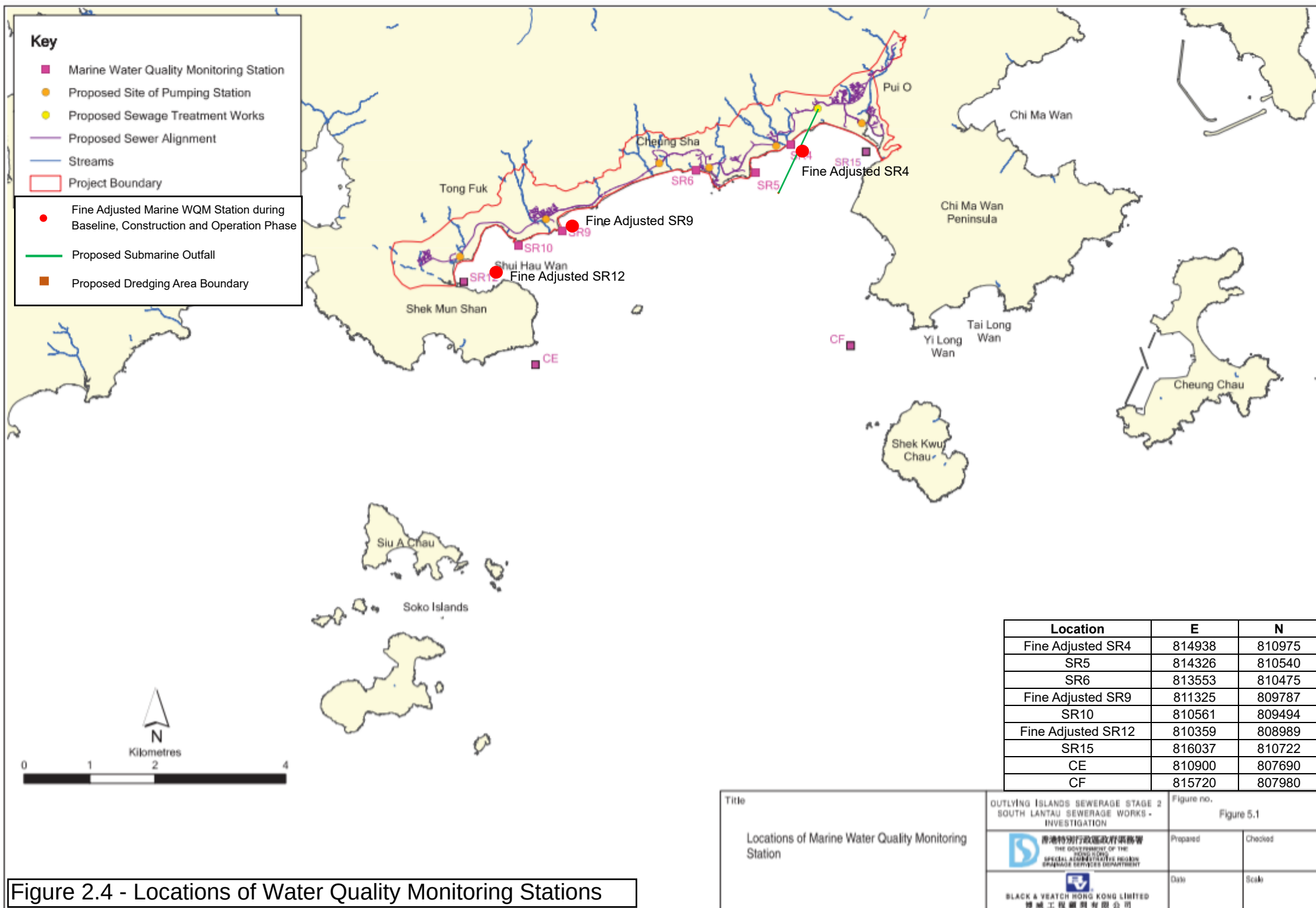


Figure 2.3 - Locations of Noise Monitoring Station



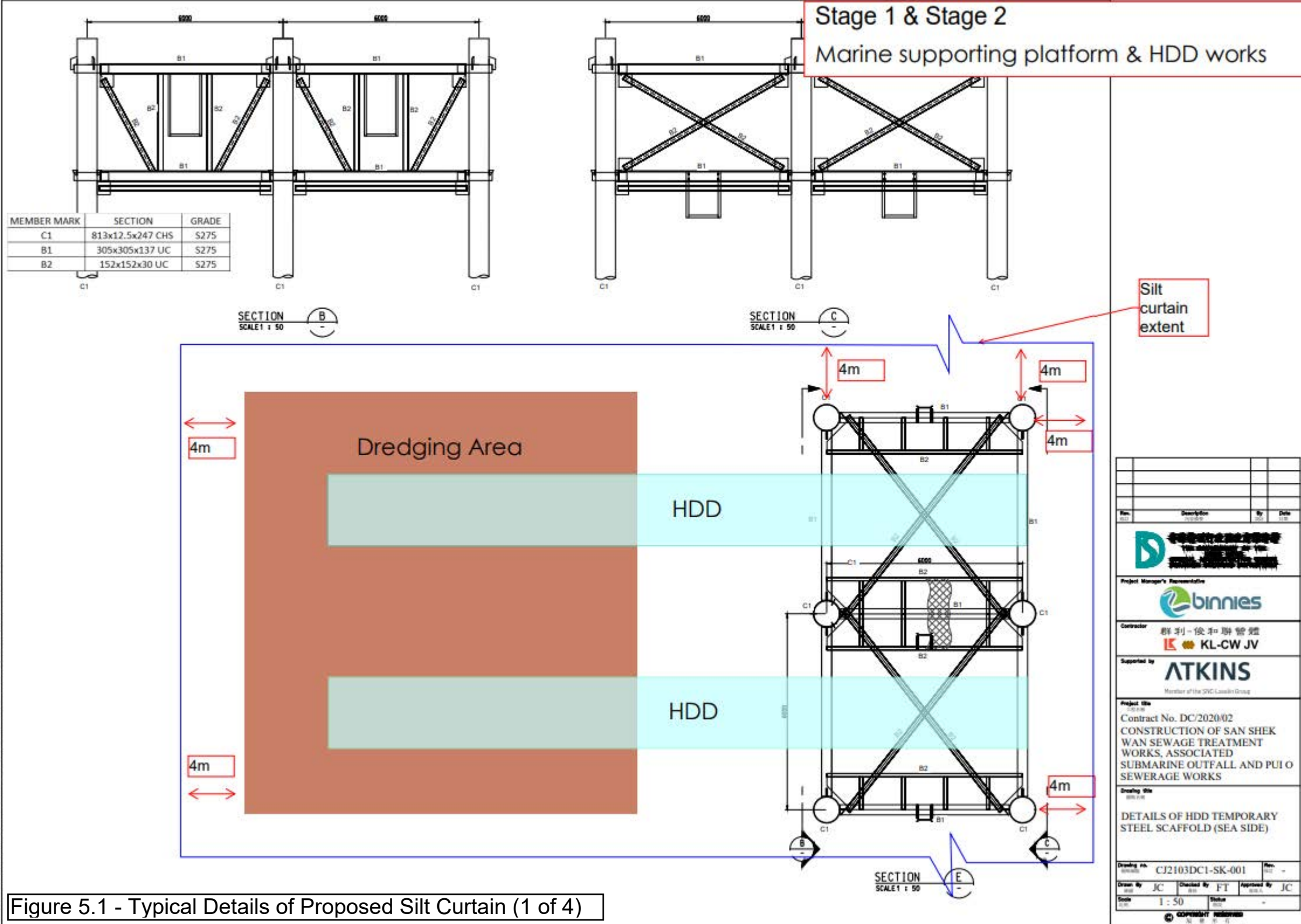


Figure 5.1 - Typical Details of Proposed Silt Curtain (1 of 4)

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Contractor 			
Supported by 			
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Drawing title DETAILS OF HDD TEMPORARY STEEL SCAFFOLD (SEA SIDE)			
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Stage 1 & Stage 2
Marine supporting platform & HDD works

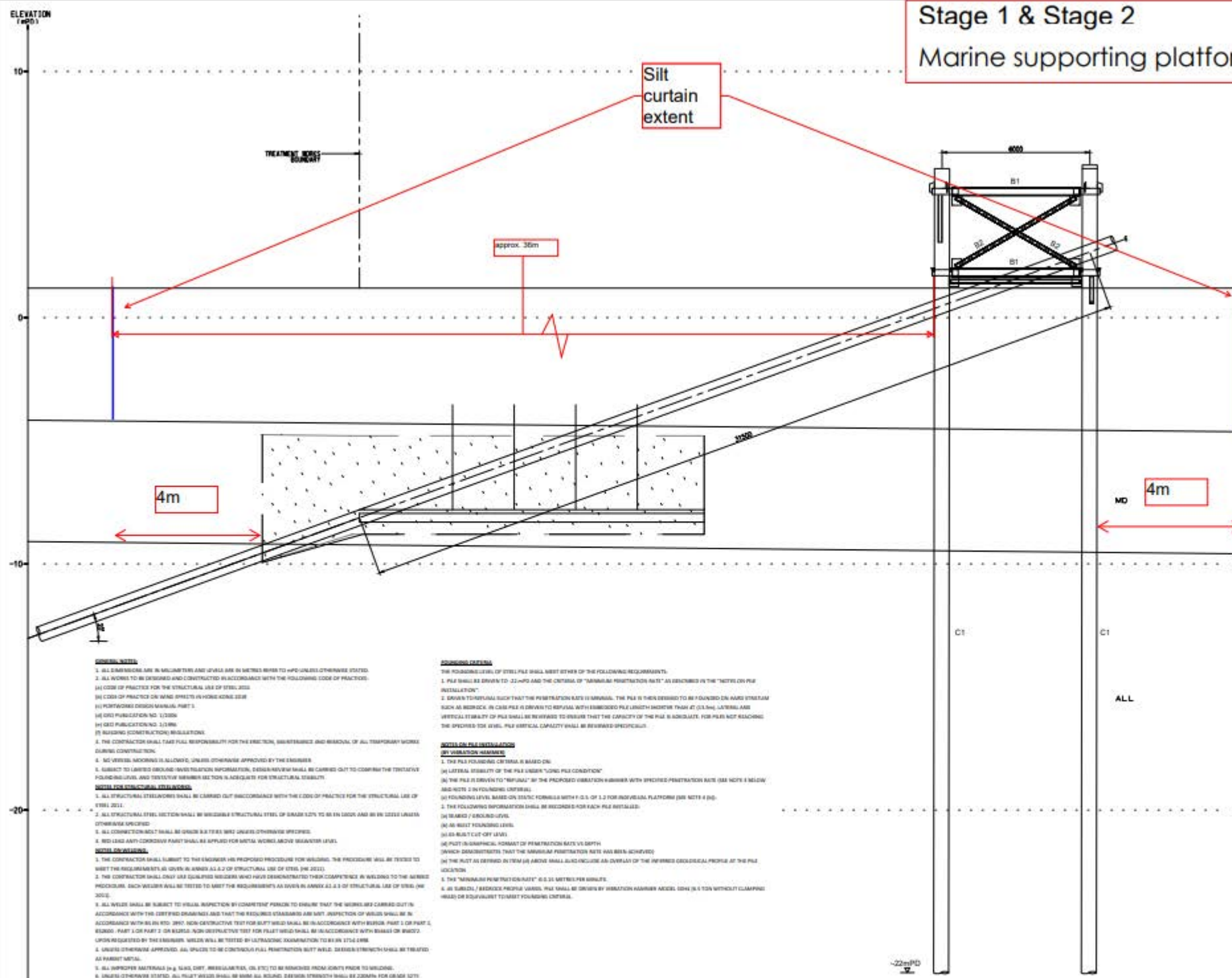
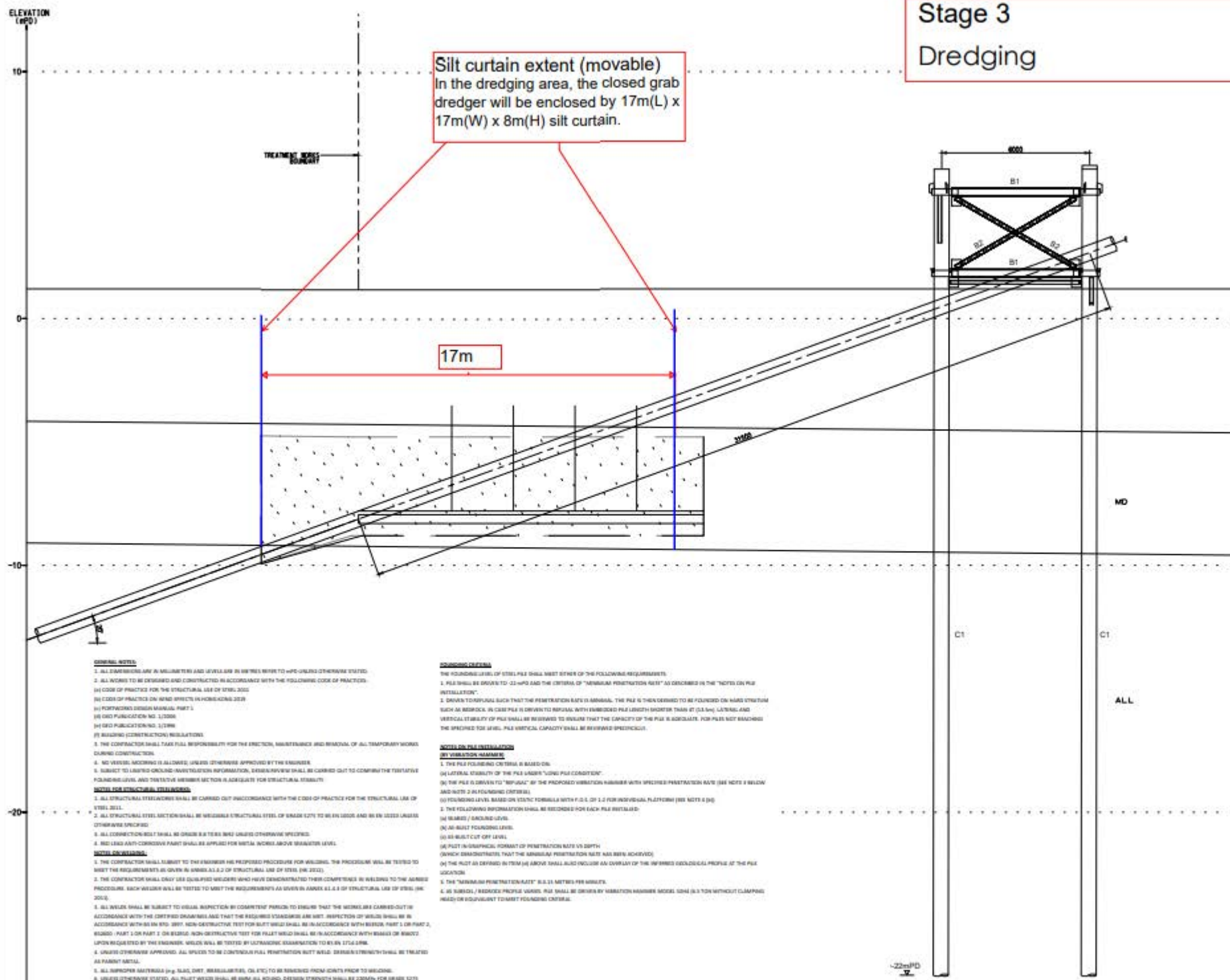
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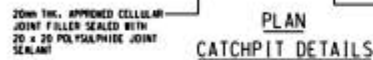
Figure 5.1 - Typical Details of Proposed Silt Curtain (2 of 4)



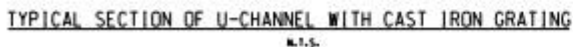
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Project Manager's Representative			
 binnies			
Contractor			
群利 - 俊和聯營 KL-CW JV			
Supported by			
 A member of the SBC Group			
Project Site (項目地點)			
Contract No. DC/2020/02 CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS			
Drawing title (圖則名稱)			
TEMPORARY CONNECTION AT TIE-IN POINT OF SUBMARINE OUTFALL			
Drawing no. (圖則編號)			
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			-

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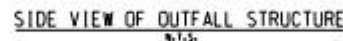
Figure 5.1 - Typical Details of Proposed Silt Curtain (3 of 4)



SECTION A-A
N.F.S.



Silt curtain
extent



6. FOR LOCATION OF OUTFALL, REFERS TO DRAWING NO.178171/REV.5/20/5/20/01.
7. CONCRETE FOR OUTFALL STRUCTURE SHALL BE CASTER SUITED WITH DESIGN MIX PREPARED IN ACCORDANCE WITH CEO'S TESTING ROOM. CONCRETE SHALL BE SPECIFICATION FOR THE IMPROVED CONCRETE IN MINIMUM REQUIREMENT. CONCRETE SHALL BE OF CLASS OF EXTERNAL FINISH SHALL BE OF CLASS OF EXTERNAL FINISH AND IS FOR UNIFORMED FINISH AND INTERNAL FINISH SHALL BE OF CLASS OF EXTERNAL FINISH AND IS FOR IMPROVED FINISH.
8. FLAP VALVE SHALL BE OF A PROPERTY MANUFACTURED BY CONTRACTOR SHALL SUBMIT THE PARTICULARS OF THE FLAP VALVE TO THE ENGINEER FOR APPROVAL AND PROPOSE THE EXACT LOCATION OF THE FLAP VALVE FOR APPROVAL BY THE ENGINEER.
9. REINFORCEMENT FOR THE OUTFALL SHALL BE AS PER SPEC. PLACED CENTRALLY.
10. ALIGNMENT OF THE DRAINAGE OUTFALL SHOULD BE IN ACCORDANCE WITH THE PROJECT MANAGER TO THE CONTRACTOR. SEE DRAWING NO.178171/REV.5/20/5/20/01.

Approved: 

Copyright © 2014

Drawing title:

TYPICAL DRAINAGE DETAILS

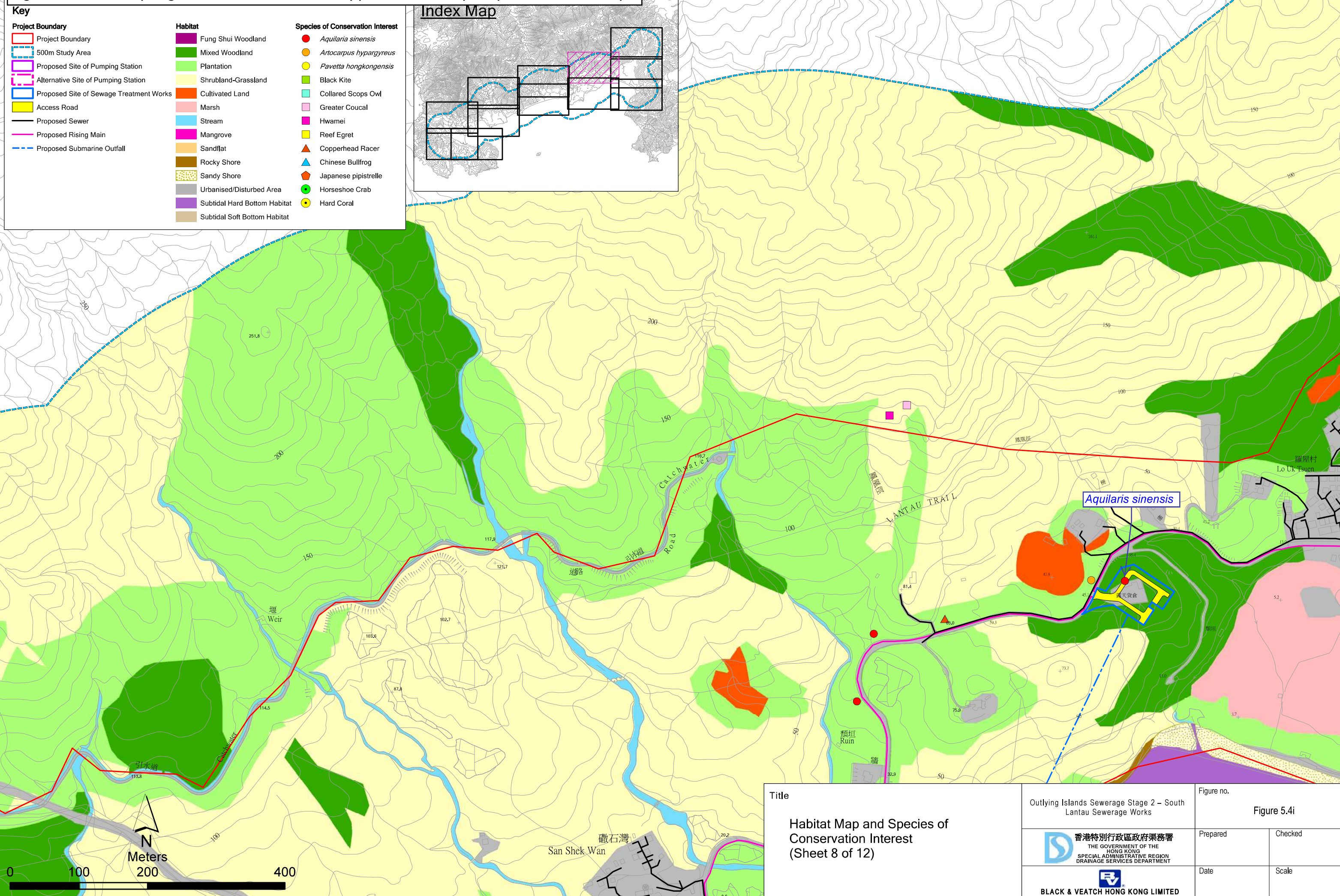
Score	M. I. S.
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BLACK & VEATCH HONG KONG LIMITED
 黑域士堅維士有限公司

CAD Filename: Y:\Daily Work\100 Fram 52 Design Team\10878 - South Lantau Sewerage Works\Tender Drawing\DDW\10878-04V-C5-001.dwg

Figure 6.1 Mark up Figure 5.4i extracted from approved EIA Report (AEIAR-210/2017)



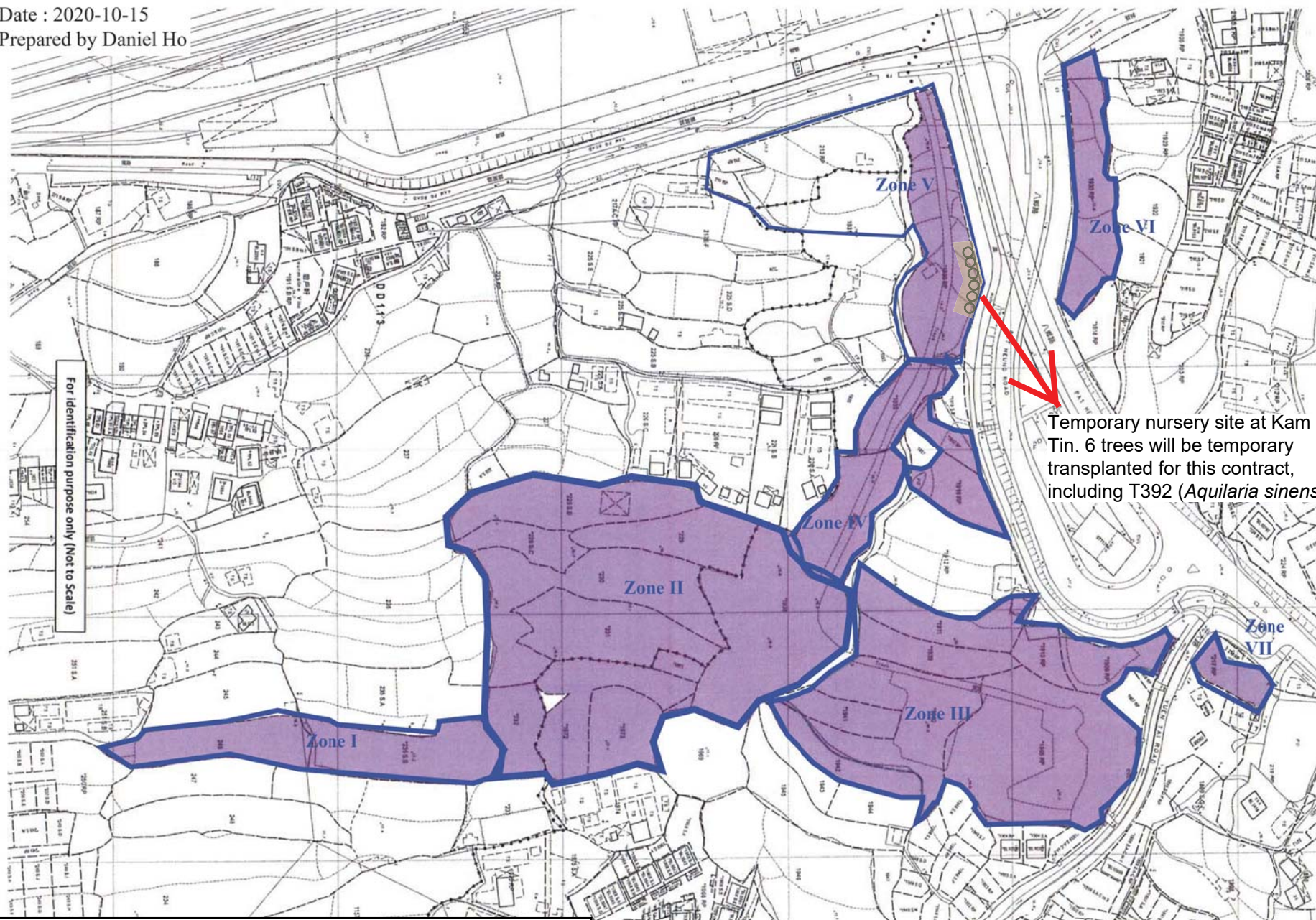


Figure 6.2 - Location Plan for Temporary Holding Nursery

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Project : Contract No.: DC/2020/02
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works

Drawing Title : Location Plan for 6 nos. Trees on Kam Tin Nursery



Toyo Greenland Co., Ltd.

Check : Ho Tat Pui, Daniel

Ref: C3109/22/TGD0164

Scale : N.T.S.

Date : 10 January 2022

Rev.

00

Appendix 4.1

Calibration Certificates for Noise Meter and Acoustic Calibrator



CERTIFICATE OF CALIBRATION

Certificate No.: 25CA0111 02-01

Page 1 of 2

Item tested

Description:	Sound Level Meter (Class 1)	Microphone	Preamp
Manufacturer:	Rion Co., Ltd.	Rion Co., Ltd.	Rion Co., Ltd.
Type/Model No.:	NL-52	UC-59	NH-25
Serial/Equipment No.:	01198668	16390	98882
Adaptors used:	-	-	-

Item submitted by

Customer Name: Umwelt Consulting Limited.
Address of Customer: -
Request No.: -
Date of receipt: 11-Jan-2025

Date of test: 14-Jan-2025

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	28-Aug-2025	CIGISMEC
Signal generator	DS 360	33873	06-Mar-2025	CEPREI

Ambient conditions

Temperature: 21 ± 1 °C
Relative humidity: 55 ± 10 %
Air pressure: 1005 ± 5 hPa

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of $\pm 20\%$.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responses of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:



Feng Junqi

Date: 15-Jan-2025

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 25CA0111 02-01

Page 2 of 2

1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	2.1
	Lin (Z)	Pass	1.6	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin (Z)	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	N/A	N/A	
	Repeated at frequency of 100 Hz	N/A	N/A	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test results at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by:

Date:

Fung Chi Yip
14-Jan-2025

Checked by:

Date:

Chan Yuk Yiu
15-Jan-2025

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



CERTIFICATE OF CALIBRATION

Certificate No.: 25CA0111 02-02

Page: 1 of 2

Item tested

Description: Acoustical Calibrator (Class 1)
Manufacturer: Rion
Type/Model No.: NC-75
Serial/Equipment No.: 34202223
Adaptors used: -

Item submitted by

Customer: Umwelt Consulting Limited.
Address of Customer: -
Request No.: -
Date of receipt: 11-Jan-2025

Date of test: 14-Jan-2025

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	3257888	30-Jul-2025	SCL
Preamplifier	B&K 2673	3353200	29-Jun-2025	CEPREI
Measuring amplifier	B&K 2610	2346941	27-Jun-2025	CEPREI
Signal generator	DS 360	33873	06-Mar-2025	CEPREI
Digital multi-meter	34401A	US36087050	20-Jun-2025	CEPREI
Audio analyzer	8903B	GB41300350	19-Jun-2025	CEPREI
Universal counter	53132A	MY40003662	26-Jun-2025	CEPREI

Ambient conditions

Temperature: 21 ± 1 °C
Relative humidity: 55 ± 10 %
Air pressure: 1005 ± 5 hPa

Test specifications

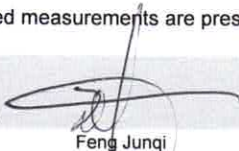
- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

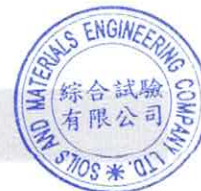
Details of the performed measurements are presented on **page 2** of this certificate.

Approved Signatory:


Feng Junqi

Date: 15-Jan-2025

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

**CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.: 25CA0111 02-02

Page: 2 of 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

(Output level in dB re 20 μ Pa)

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	94.04	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz

STF = 0.008 dB

Estimated expanded uncertainty

0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 1000.0 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND = 0.7 %

Estimated expanded uncertainty

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by:

Fung Chi Yip

Date: 14-Jan-2025

Checked by:

Chan Yuk Yiu

Date: 15-Jan-2025

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

Appendix 4.2

Impact Monitoring Schedule for Construction Phase Noise Monitoring for the Reporting Month and Next Month



Contract No. CM 04/2024

Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)

Environmental Monitoring Schedule Revision 2

Month: May-2025

Tide Station: Cheung Chau

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				Labour Day		
				1-May	2-May	3-May
					Noise Monitoring	
	The Birthday of the Buddha					
4-May	5-May	6-May	7-May	8-May	9-May	10-May
				Noise Monitoring		
11-May	12-May	13-May	14-May	15-May	16-May	17-May
			Noise Monitoring			
18-May	19-May	20-May	21-May	22-May	23-May	24-May
		Noise Monitoring				
25-May	26-May	27-May	28-May	29-May	30-May	Tuen Ng Festival
						31-May



Contract No. CM 04/2024

Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)

Environmental Monitoring Schedule Revision 1

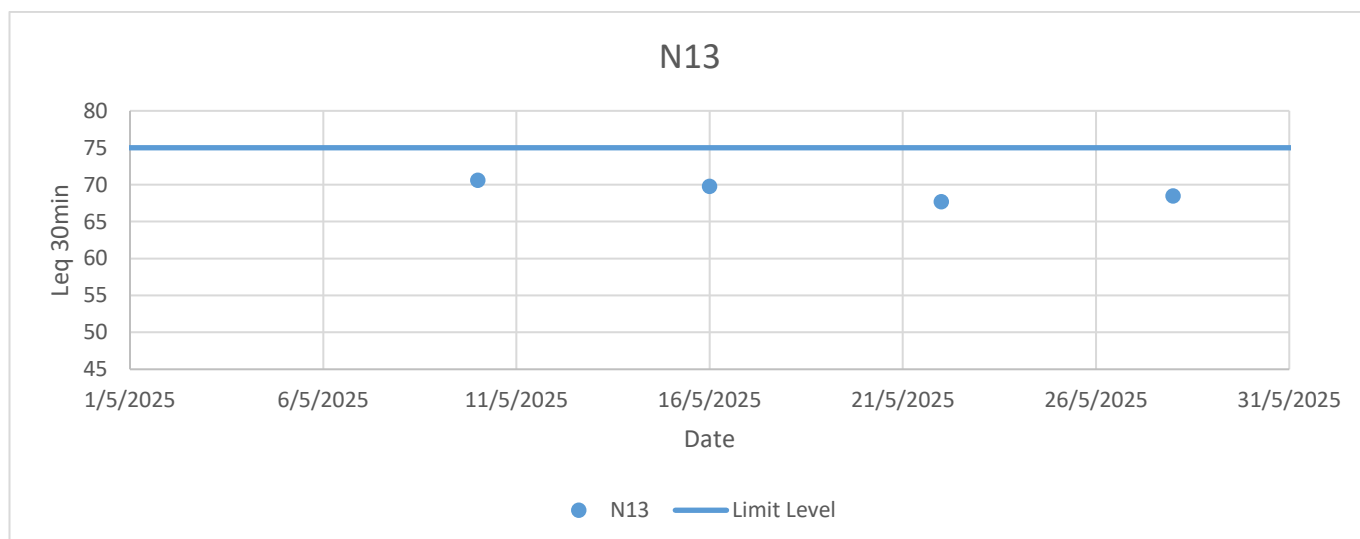
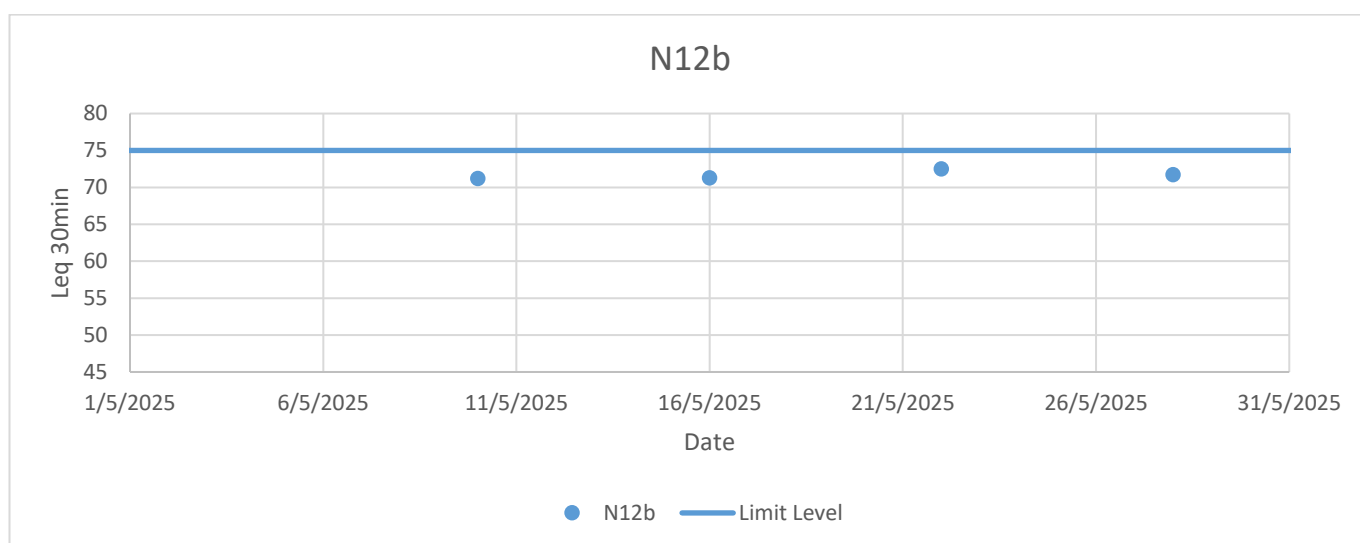
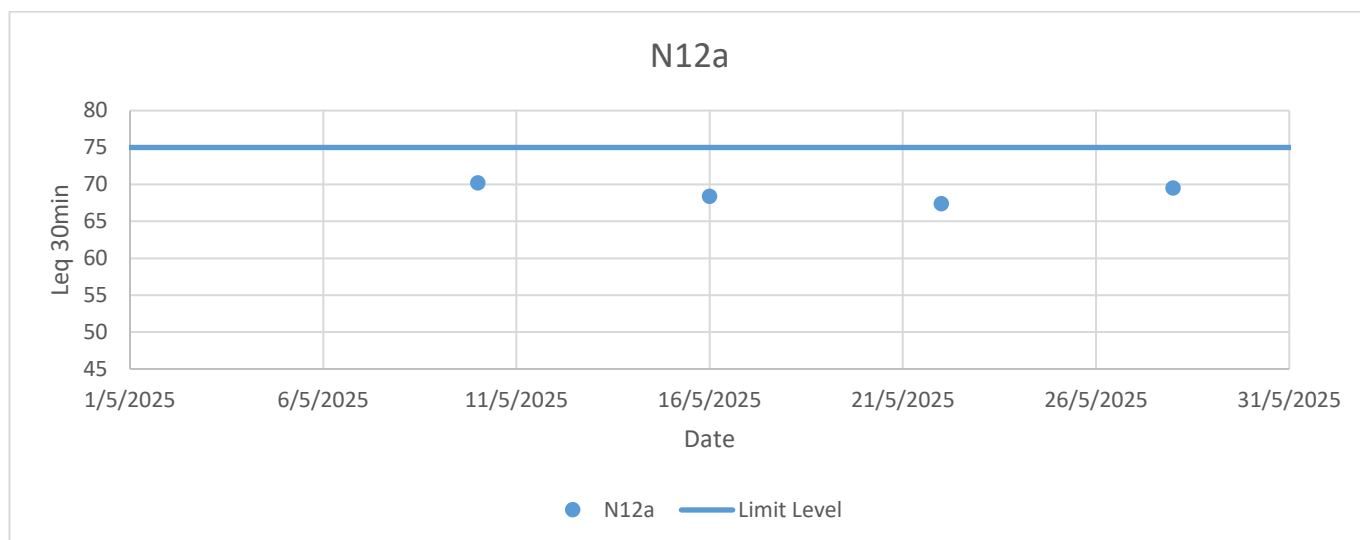
Month: June-2025

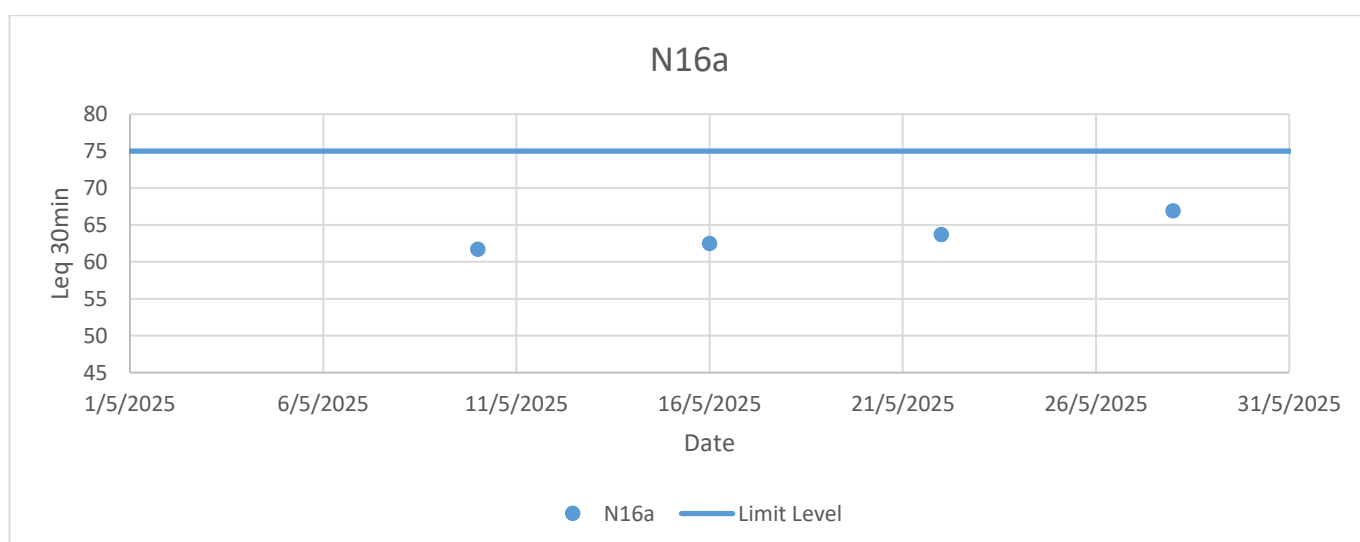
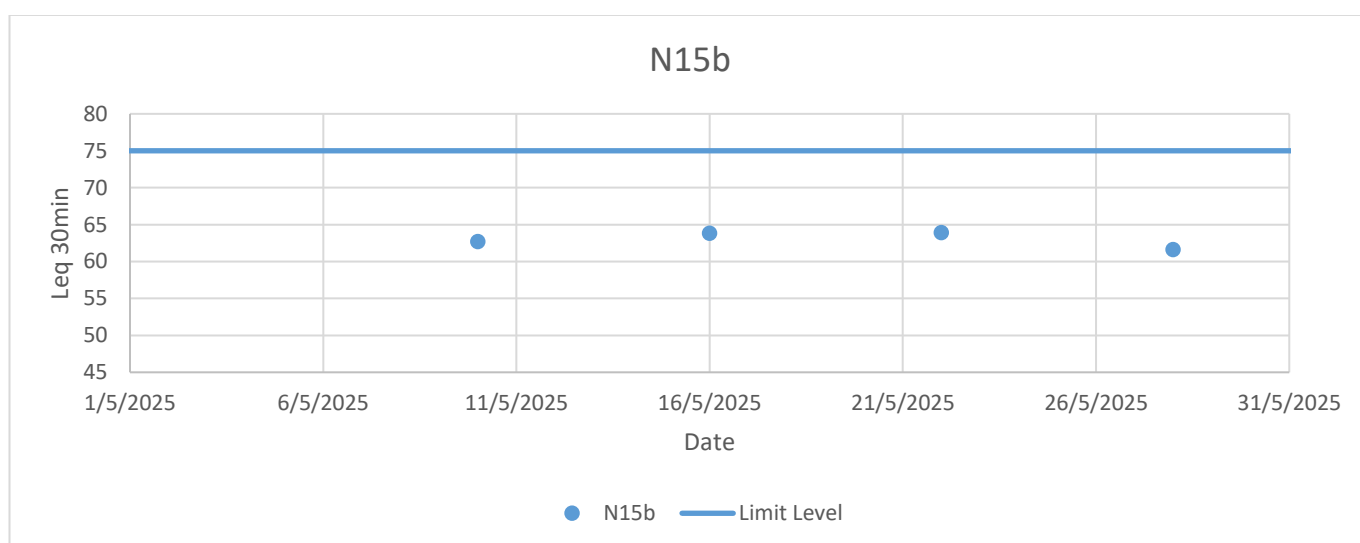
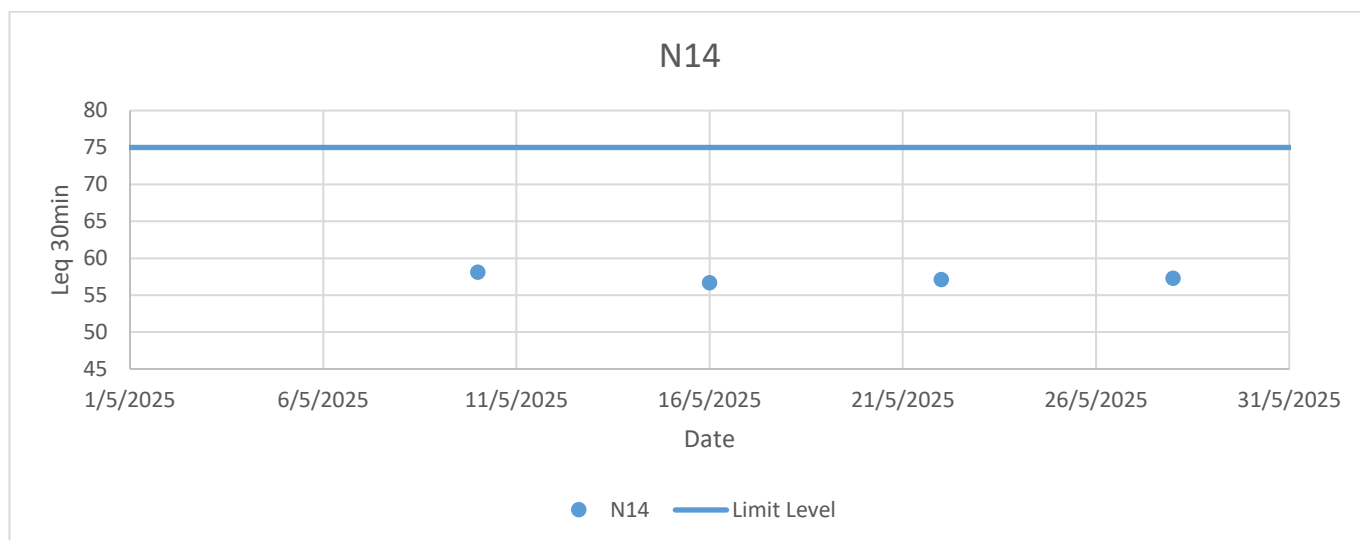
Tide Station: Cheung Chau

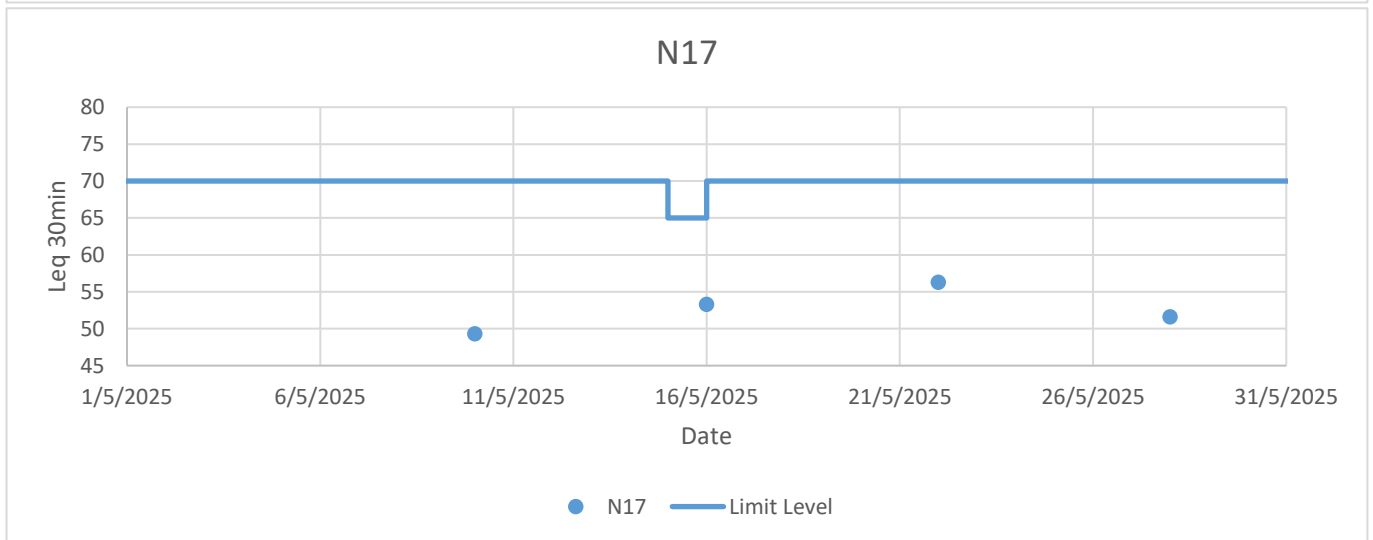
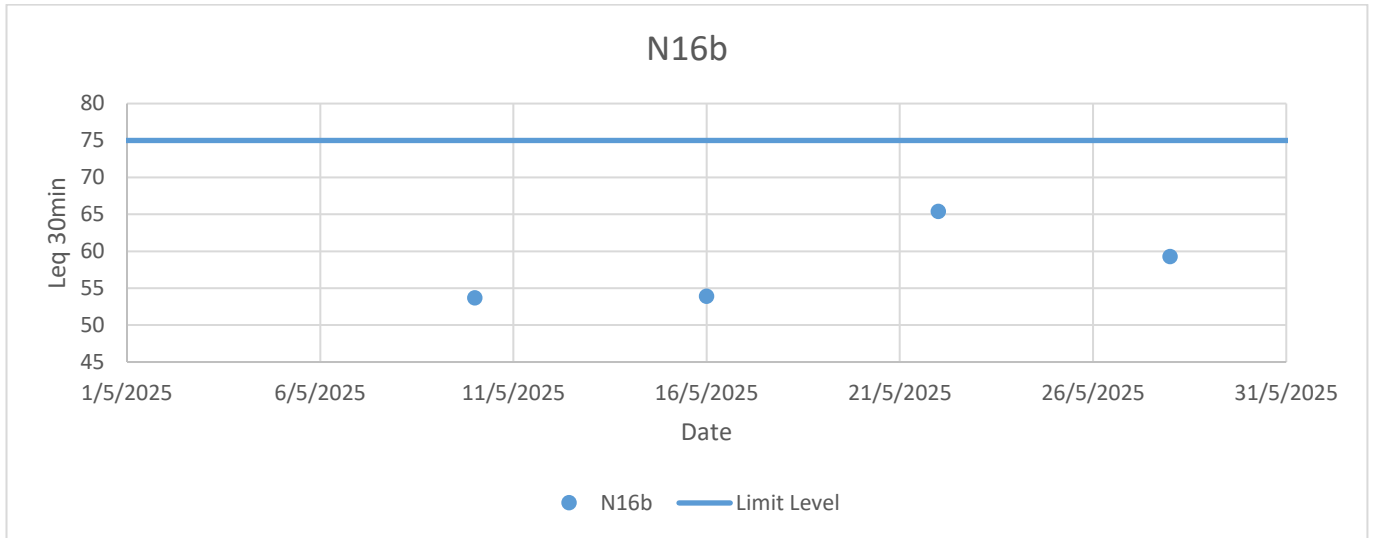
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Noise Monitoring				
1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun
Noise Monitoring						
8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
					Noise Monitoring	
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
				Noise Monitoring		
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun

Appendix 4.3

Noise Monitoring Results and Graphical Representations









UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

Location **Ref** **Location Name** **Level** **Type of Measurement**
N12a Lo Uk Tsuen G/F Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Baseline Level	Construction Noise Level	Action Level	Noise Sources	Construction Noise	Remarks
					Leq	L10	L90									
10/5/2025	Cloudy	Calm	15:31	16:01	69.8	73.1	47.7	67.2	3.0	70.2	73.3	<Baseline Level	75.0	birds, traffic	Not Observed	0.0
					68.7	71.0	48.6									
					64.2	68.3	41.8									
					67.5	70.7	44.9									
					66.8	69.5	48.0									
16/5/2025	Sunny	Calm	12:41	13:11	62.5	66.6	44.7	65.4	3.0	68.4	73.3	<Baseline Level	75.0	traffic	Not Observed	0.0
					64.4	67.3	43.3									
					68.1	72.4	42.7									
					60.9	64.4	49.7									
					67.1	70.3	47.4									
22/5/2025	Sunny	Calm	15:10	15:40	62.2	67.0	45.8	64.4	3.0	67.4	73.3	<Baseline Level	75.0	traffic	Not Observed	0.0
					65.8	69.6	47.1									
					64.0	68.4	48.3									
					66.9	68.7	48.9									
					62.6	67.2	49.8									
28/5/2025	Cloudy	Calm	10:32	11:02	64.7	68.1	51.5	66.5	3.0	69.5	73.3	<Baseline Level	75.0	birds, traffic	observed from other project(engine sound)	0.0
					61.8	65.1	52.4									
					64.8	67.6	53.2									
					65.7	70.3	57.1									
					67.5	70.0	53.8									
					66.7	67.4	55.0									
					66.1	68.4	53.3									
					66.4	69.0	48.3									
					66.5	70.3	46.1									



UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

Location **Ref** **Location Name** **Level** **Type of Measurement**
N12b Lo Uk Tsuen G/F Free-field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Baseline Level	Construction Noise Level	Action Level	Noise Sources	Construction Noise	Remarks
					Leq	L10	L90									
10/5/2025	Cloudy	Calm	14:19	14:49	68.4	73.3	59.7	68.2	3.0	71.2	76.8	<Baseline Level	75.0	birds, traffic, construction noise from other project	Not Observed	0.0
					66.4	71.2	60.0									
					68.6	72.0	60.0									
					69.1	73.3	60.1									
					69.6	73.2	60.2									
16/5/2025	Sunny	Calm	12:04	12:34	65.5	69.3	59.9	68.3	3.0	71.3	76.8	<Baseline Level	75.0	traffic	Not Observed	0.0
					70.5	73.4	54.7									
					66.9	71.3	54.5									
					62.0	66.2	54.5									
					69.2	72.7	54.8									
22/5/2025	Sunny	Calm	14:34	15:04	68.0	73.1	54.5	69.5	3.0	72.5	76.8	<Baseline Level	75.0	traffic	Not Observed	0.0
					69.2	71.5	54.9									
					70.0	73.4	64.4									
					68.5	71.9	64.5									
					67.4	66.5	64.3									
28/5/2025	Cloudy	Calm	11:08	11:38	69.9	74.0	64.7	68.7	3.0	71.7	76.8	<Baseline Level	75.0	birds, traffic, human activity	Not Observed	0.0
					70.1	72.6	64.9									
					70.3	72.6	64.6									
					69.5	72.2	52.4									
					69.1	71.7	53.1									
					68.6	71.8	52.1									
					66.9	70.8	52.8									
					70.5	74.8	53.7									
					66.3	69.9	53.1									

Ref	Location Name	Level	Type of Measurement
N13	Pui O San Wai Tsuen	G/F	Free-field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Baseline Level	Construction Noise Level	Action Level	Noise Sources	Construction Noise	Remarks
					Leq	L10	L90									
10/5/2025	Sunny	Calm	13:44	14:14	68.1	71.6	47.4	67.6	3.0	70.6	73.6	<Baseline Level	75.0	birds, traffic	Not Observed	0.0
					68.2	70.9	50.5									
					67.4	70.5	50.2									
					67.5	72.2	50.1									
					67.0	70.5	48.3									
16/5/2025	Sunny	Calm	11:30	12:00	67.4	72.2	48.1	66.8	3.0	69.8	73.6	<Baseline Level	75.0	traffic, human activity	observed from other project	0.0
					65.5	69.1	53.2									
					71.1	71.1	54.5									
					66.7	69.1	51.7									
					65.2	67.7	51.5									
22/5/2025	Sunny	Calm	13:57	14:27	64.0	66.2	49.8	64.7	3.0	67.7	73.6	<Baseline Level	75.0	traffic	Not Observed	0.0
					62.4	67.6	52.0									
					63.6	66.5	53.7									
					67.0	70.5	53.4									
					63.9	67.3	53.8									
28/5/2025	Cloudy	Calm	11:42	12:12	63.3	68.1	52.4	65.5	3.0	68.5	73.6	<Baseline Level	75.0	birds, traffic, human activity	Not Observed	0.0
					65.0	68.9	53.8									
					64.4	69.3	52.8									
					67.5	69.1	51.9									
					64.5	69.7	50.6									
					66.9	71.3	53.2									
					63.7	67.0	51.1									
					64.2	68.5	50.6									
					64.6	68.6	50.4									



UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

Ref **Location Name** **Level** **Type of Measurement**
Location N14 South Lantau Community G/F Façade

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Baseline Level	Construction Noise Level	Action Level	Noise Sources	Construction Noise	Remarks
					Leq	L10	L90									
10/5/2025	Sunny	Calm	12:25	12:55	56.4	59.4	48.1	58.1	--	58.1	62.2	<Baseline Level	75.0	birds, human activities, traffic, chain saw noise from garden	Not Observed	0.0
					59.7	61.1	51.3									
					56.9	59.1	50.2									
					58.1	60.3	51.9									
					59.5	61.1	52.5									
16/5/2025	Sunny	Calm	14:02	14:32	56.9	58.1	49.4	56.7	--	56.7	62.2	<Baseline Level	75.0	traffic	observed from pumping house site	0.0
					57.0	59.7	52.9									
					56.8	59.8	52.1									
					58.7	62.1	51.7									
					57.6	60.0	51.2									
22/5/2025	Sunny	Calm	12:44	13:14	54.3	58.0	48.7	57.1	--	57.1	62.2	<Baseline Level	75.0	helicopter, bell ring, insect, traffic	Not Observed	0.0
					53.8	57.6	47.6									
					56.9	59.3	53.4									
					57.2	61.4	50.6									
					55.0	57.3	52.4									
28/5/2025	Cloudy	Calm	12:54	13:24	58.5	60.0	50.8	57.3	--	57.3	62.2	<Baseline Level	75.0	birds, traffic	Not Observed	0.0
					55.5	57.5	50.5									
					58.4	59.8	50.7									
					54.1	57.5	46.7									
					57.7	61.9	47.6									
					61.1	63.6	50.4									
					54.0	56.3	48.3									
					54.9	57.7	48.5									
					57.0	59.5	51.1									

Ref	Location Name	Level	Type of Measurement
N15b	Pui O Lo Wai Tsuen	G/F	Façade

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Baseline Level	Construction Noise Level	Action Level	Noise Sources	Construction Noise	Remarks
					Leq	L10	L90									
10/5/2025	Cloudy	calm	13:05	13:35	60.7	63.6	53.9	62.7	--	62.7	73.3	<Baseline Level	75.0	birds, traffic, loading unloading works	Not Observed	0.0
					61.9	65.4	53.9									
					59.0	62.6	53.8									
					64.6	70.1	56.0									
					61.3	64.2	54.8									
16/5/2025	Sunny	calm	10:51	11:21	65.4	67.4	63.5	63.8	--	63.8	73.3	<Baseline Level	75.0	traffic, human activity	Not Observed	0.0
					63.8	65.1	54.9									
					61.0	61.8	54.5									
					62.5	66.8	53.8									
					63.1	67.5	55.1									
22/5/2025	Sunny	calm	10:52	11:22	65.6	71.3	55.0	63.9	--	63.9	73.3	<Baseline Level	75.0	human activity, traffic	Not Observed	0.0
					65.3	66.6	55.4									
					62.6	65.6	54.9									
					63.3	66.7	56.2									
					63.7	67.4	59.6									
28/5/2025	Cloudy	calm	14:45	15:15	65.4	68.3	59.4	61.6	--	61.6	73.3	<Baseline Level	75.0	birds, human activity	Not Observed	0.0
					63.2	67.3	57.1									
					64.8	66.6	62.5									
					60.1	63.0	53.8									
					60.4	62.2	54.8									
					61.6	65.7	56.1									
					63.3	67.2	55.4									
					63.2	67.2	54.4									
					59.0	61.9	53.9									

Ref	Location Name	Level	Type of Measurement
N16a	Residences at Ham Tin	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Baseline Level	Construction Noise Level	Action Level	Noise Sources	Construction Noise	Remarks
					Leq	L10	L90									
10/5/2025	Cloudy	calm	11:08	11:38	54.5	53.9	45.7	58.7	3.0	61.7	76.8	<Baseline Level	75.0	birds, human activities, traffic, construction works from other project	Not Observed	0.0
					61.5	61.7	46.2									
					56.1	58.6	41.5									
					58.9	59.8	44.5									
					59.6	59.2	57.4									
16/5/2025	Sunny	Calm	15:14	15:44	58.2	58.9	52.8	59.5	3.0	62.5	76.8	<Baseline Level	75.0	bird, traffic, human activity	Not Observed	0.0
					60.1	62.5	43.9									
					55.9	57.2	41.5									
					59.1	60.4	41.5									
					62.3	67.9	44.0									
22/5/2025	Sunny	Calm	12:05	12:35	61.0	60.1	43.5	60.7	3.0	63.7	76.8	<Baseline Level	75.0	bird, human activity, traffic, insect (cicada), helicopter lifting	Not Observed	0.0
					52.3	53.0	41.7									
					63.8	64.7	62.8									
					62.2	62.5	60.5									
					61.4	62.7	55.7									
28/5/2025	Cloudy	calm	13:33	14:03	56.0	57.1	54.4	63.9	3.0	66.9	76.8	<Baseline Level	75.0	birds, traffic	observed from other construction site	0.0
					53.7	55.5	51.3									
					60.0	61.6	51.5									
					58.1	60.4	46.1									
					59.1	60.8	48.9									
					59.8	62.5	52.5									
					67.2	68.1	65.0									
					66.7	67.9	64.9									
					63.5	64.9	61.7									

Ref	Location Name	Level	Type of Measurement
N16b	Residences at Ham Tin	G/F	Free-Field

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Baseline Level	Construction Noise Level	Action Level	Noise Sources	Construction Noise	Remarks
					Leq	L10	L90									
10/5/2025	sunny	calm	11:47	12:17	50.6	54.6	39.2	50.7	3.0	53.7	73.3	<Baseline Level	75.0	birds, human activities, traffic, construction noise from other project	Not Observed	0.0
					54.8	59.8	40.7									
					45.9	47.6	39.3									
					50.7	53.7	40.2									
					49.2	50.0	40.1									
16/5/2025	Cloudy	Calm	14:39	15:09	46.3	49.5	39.8	50.9	3.0	53.9	73.3	<Baseline Level	75.0	traffic	observed from pumping house	0.0
					52.5	54.8	43.4									
					51.3	53.2	42.6									
					52.7	55.7	42.2									
					48.4	51.8	42.0									
22/5/2025	Sunny	calm	11:31	12:01	50.3	53.6	41.7	62.4	3.0	65.4	73.3	<Baseline Level	75.0	dog bark, bird, human activity, traffic, insect (cicada)	Not Observed	0.0
					47.8	51.4	40.8									
					63.2	64.7	59.6									
					66.1	66.9	65.2									
					63.9	65.0	61.1									
28/5/2025	Cloudy	Calm	14:08	14:38	57.8	59.8	56.0	56.3	3.0	59.3	73.3	<Baseline Level	75.0	birds, human activity	Not Observed	0.0
					56.6	57.8	55.2									
					58.7	61.3	54.7									
					51.9	53.3	48.4									
					54.9	57.1	48.0									
					53.2	56.0	48.9									
					53.6	55.6	51.0									
					55.2	56.8	53.9									
					61.3	63.8	57.8									



UMWELT CONSULTING LIMITED

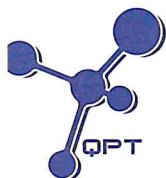
23/F, On Hong Commercial Building, 145
Hennessy Road, Wan Chai, Hong Kong

Ref N17 **Location Name** Bui O Public School **Level** R/F **Type of Measurement** Façade

Date	Weather	Wind Condition	Start Time	End Time	Measured Noise Level			Leq30mins	Façade Correction	Corrected Leq30mins	Baseline Level	Construction Noise Level	Action Level	Noise Sources	Construction Noise	Remarks
					Leq	L10	L90									
10/5/2025	Cloudy	Calm	10:29	10:59	48.2	50.4	41.9	49.3	--	49.3	76.8	<Baseline Level	70.0	bird, traffic, human activities	Not Observed	0.0
					51.4	55.0	43.6									
					46.8	49.1	43.4									
					48.0	52.4	42.1									
					47.6	49.9	42.4									
16/5/2025	Sunny	calm	13:25	13:55	51.4	54.5	46.3	53.3	--	53.3	76.8	<Baseline Level	65.0	human activity, bell ring	observed from pumping house site	0.0
					53.9	55.4	49.3									
					51.3	53.5	48.9									
					52.9	55.2	50.4									
					53.2	55.8	50.6									
22/5/2025	Sunny	Calm	13:22	13:52	54.2	56.5	50.5	56.3	--	56.3	76.8	<Baseline Level	70.0	Human activity (playing drum), traffic	Not Observed	0.0
					53.6	56.2	49.6									
					57.7	60.2	54.8									
					58.5	60.7	55.7									
					57.7	59.7	54.4									
28/5/2025	Cloudy	Calm	12:18	12:48	53.3	54.6	52.1	51.6	--	51.6	76.8	<Baseline Level	70.0	birds, school bell	Not Observed	0.0
					53.6	54.5	52.5									
					53.7	55.0	52.3									
					52.2	53.5	51.1									
					50.8	52.5	48.3									
					50.6	51.9	49.0									
					51.2	52.6	47.8									
					52.5	55.8	48.9									
					52.2	53.4	47.5									

Appendix 5.1

Calibration Certificates of the Water Quality Monitoring Equipment



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE040016

Date of Issue : 07 April 2025

Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters

Manufacturer : YSI

Serial Number : 16H104233

Date of Received : 03 April 2025

Date of Calibration : 03 April 2025

Date of Next Calibration : 02 July 2025

Request No. : D-BE040016

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

pH value

Temperature

Salinity

Dissolved oxygen

Turbidity

Conductivity

Reference Method

APHA 21e 4500-H⁺ B

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

APHA 21e 2520 B

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

APHA 21e 2130 B (Nephelometric Method)

APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance (pH unit)	Result
4.00	4.02	0.02	Satisfactory
7.42	7.40	-0.02	Satisfactory
10.01	10.09	0.08	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance (°C)	Result
35.0	35.0	0	Satisfactory
20.0	20.0	0	Satisfactory
10.0	10.0	0	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.10	1.0	Satisfactory
20	20.16	0.8	Satisfactory
30	30.15	0.5	Satisfactory

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

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AUTHORIZED
SIGNATORY:

FUNG Yuen-ching
Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

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Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE040016

Date of Issue : 07 April 2025

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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance (mg/L)	Result
9.26	9.03	-0.23	Satisfactory
6.80	6.62	-0.18	Satisfactory
4.01	3.88	-0.13	Satisfactory
0.02	0.11	0.09	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance ^(a) (%)	Result
0	0.05	-	Satisfactory
10	9.90	-1.0	Satisfactory
20	19.80	-1.0	Satisfactory
100	98.82	-1.2	Satisfactory
800	821.41	2.7	Satisfactory

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

(6) Conductivity

Expected Reading ($\mu\text{S/cm}$ at 25°C)	Display Reading ($\mu\text{S/cm}$ at 25°C)	Tolerance (%)	Result
146.9	151.1	2.9	Satisfactory
1412	1420	0.6	Satisfactory
12890	12811	-0.6	Satisfactory
58670	59116	0.8	Satisfactory
111900	113224	1.2	Satisfactory

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

^(a) For 0 NTU, Display Reading should be less than 1 NTU

Remark(s)

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

--- END OF REPORT ---



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE020058
Date of Issue : 20 February 2025
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters
Manufacturer : YSI
Serial Number : S/N: 21K101469
Date of Received : 14 February 2025
Date of Calibration : 14 February 2025
Date of Next Calibration : 13 May 2025
Request No. : D-BE020058

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H ⁺ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)
Conductivity	APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.09	0.09	Satisfactory
7.42	7.40	-0.02	Satisfactory
10.01	9.96	-0.05	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
10.0	10.0	0.0	Satisfactory
20.0	20.0	0.0	Satisfactory
40.0	40.0	0.0	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.04	0.40	Satisfactory
20	20.10	0.50	Satisfactory
30	29.82	-0.60	Satisfactory

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

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AUTHORIZED
SIGNATORY:

FUNG Yuen-ching
Laboratory Manager

**REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Test Report No. : R-BE020058

Date of Issue : 20 February 2025

Page No. : 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.59	7.92	0.33	Satisfactory
4.05	4.18	0.13	Satisfactory
1.14	1.25	0.11	Satisfactory
0.01	0.19	0.18	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)**(5) Turbidity**

Expected Reading (NTU)	Display Reading (NTU)	Tolerance ^(a)	Result
0	0.09	--	Satisfactory
10	9.94	-0.6	Satisfactory
20	21.16	5.8	Satisfactory
100	103.33	3.3	Satisfactory
800	812.82	1.6	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)**(6) Conductivity**

Expected Reading ($\mu\text{S}/\text{cm}$ at 25°C)	Display Reading	Tolerance (%)	Result
146.9	151.1	2.9	Satisfactory
1412	1541	9.1	Satisfactory
12890	13060	1.3	Satisfactory
58670	58772	0.2	Satisfactory
111900	114643	2.5	Satisfactory

Tolerance of Conductivity should be less than ± 10.0 (%)^(a) For 0 NTU, Display Reading should be less than 1 NTU**Remark(s)**

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

--- END OF REPORT ---

Appendix 5.2

Impact Monitoring Schedule for Construction Phase Water Quality Monitoring for the Reporting Month

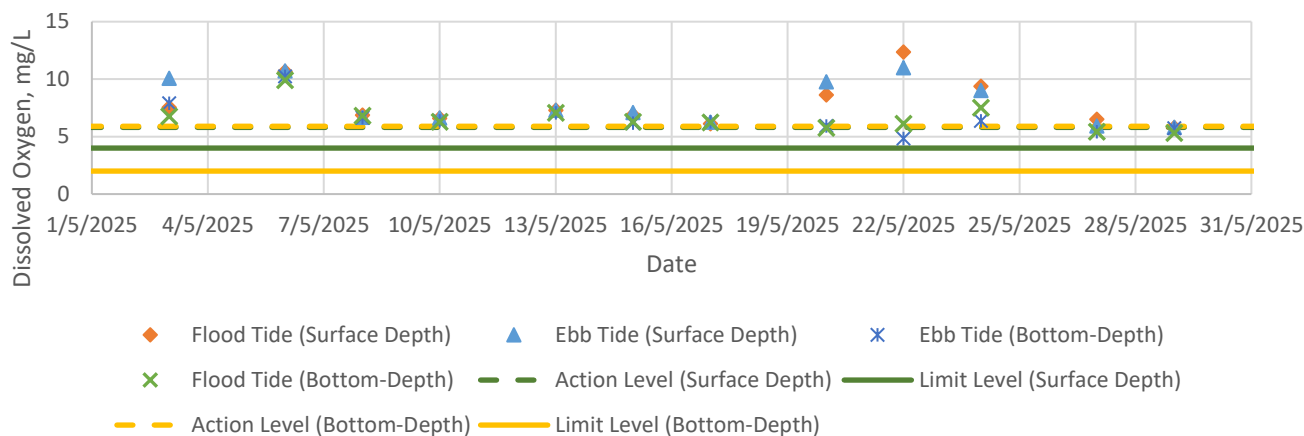
Contract No. CM 04/2024
Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works – Environmental Team Services (2025 - 2027)
Environmental Monitoring Schedule Revision 2
Month: May-2025
Tide Station: Cheung Chau

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						Water Quality Monitoring: mid-ebb 15:23 - 18:23 mid-flood 7:30 - 11:00
				Labour Day 1-May	2-May	3-May
	The Birthday of the Buddha 4-May	Water Quality Monitoring: mid-ebb 7:36 - 10:21 mid-flood 12:09 - 15:09 5-May		Water Quality Monitoring: mid-ebb 8:50 - 11:50 mid-flood 14:37 - 17:37 7-May		Water Quality Monitoring: mid-ebb 10:00 - 12:00 mid-flood 16:10 - 19:10 10-May
		Water Quality Monitoring: mid-ebb 11:06 - 14:06 mid-flood 4:21 - 7:21 12-May		Water Quality Monitoring: mid-ebb 12:02 - 15:02 mid-flood 4:54 - 7:54 15-May		Water Quality Monitoring: mid-ebb 13:25 - 16:25 mid-flood 5:41 - 8:41 17-May
		Water Quality Monitoring: mid-ebb 16:00 - 19:10 mid-flood 9:00 - 12:00 20-May		Water Quality Monitoring: mid-ebb 7:15 - 10:15 mid-flood 12:24 - 15:24 22-May		Water Quality Monitoring: mid-ebb 8:39 - 11:39 mid-flood 14:49 - 17:49 24-May
		Water Quality Monitoring: mid-ebb 10:45 - 13:45 mid-flood 3:55 - 6:55 27-May		Water Quality Monitoring: mid-ebb 12:26 - 15:26 mid-flood 5:13 - 8:13 29-May		
						Tuen Ng Festival 31-May

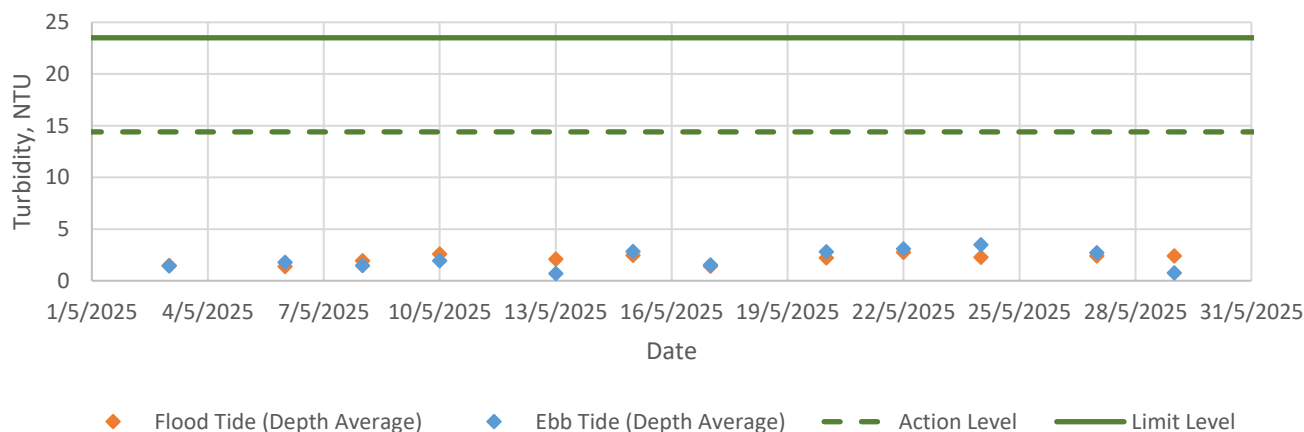
Appendix 5.3

Marine Water Quality Monitoring Results and Graphical Presentations

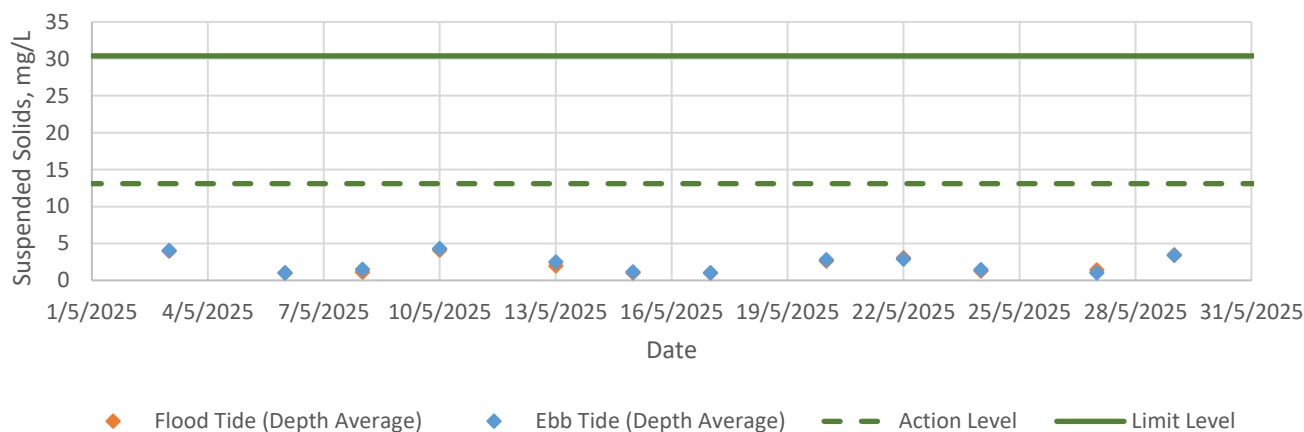
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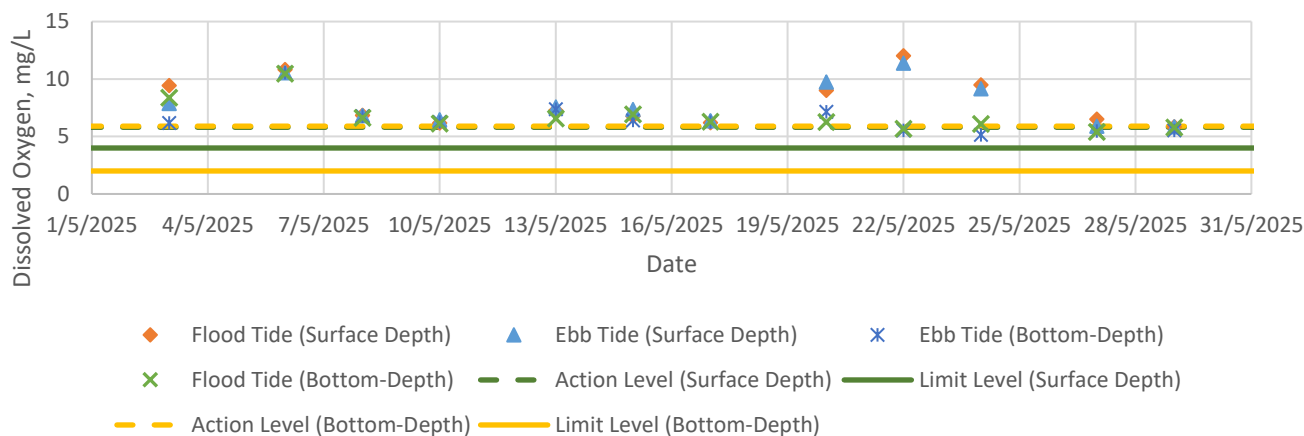
SR4 - Turbidity



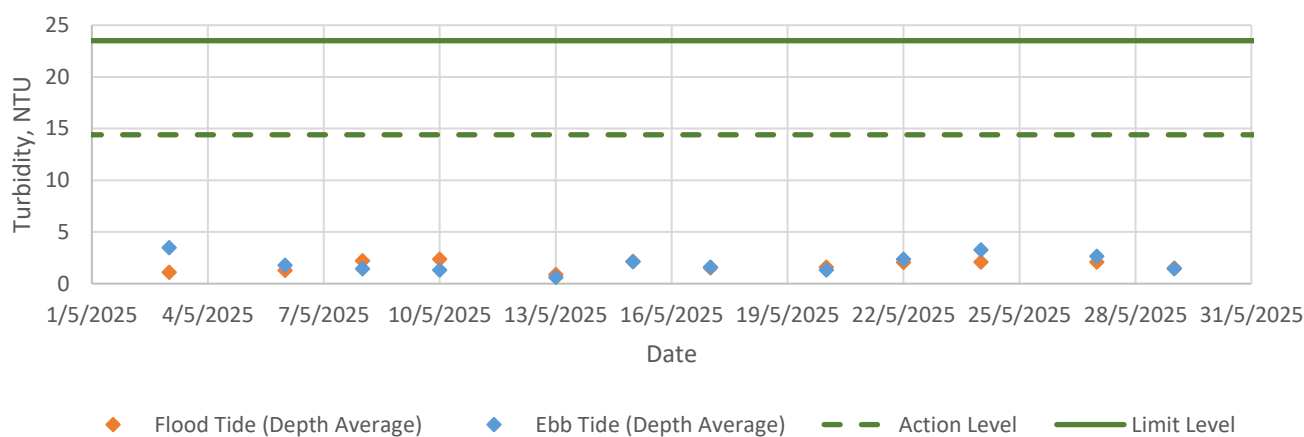
SR4 - Suspended Solids



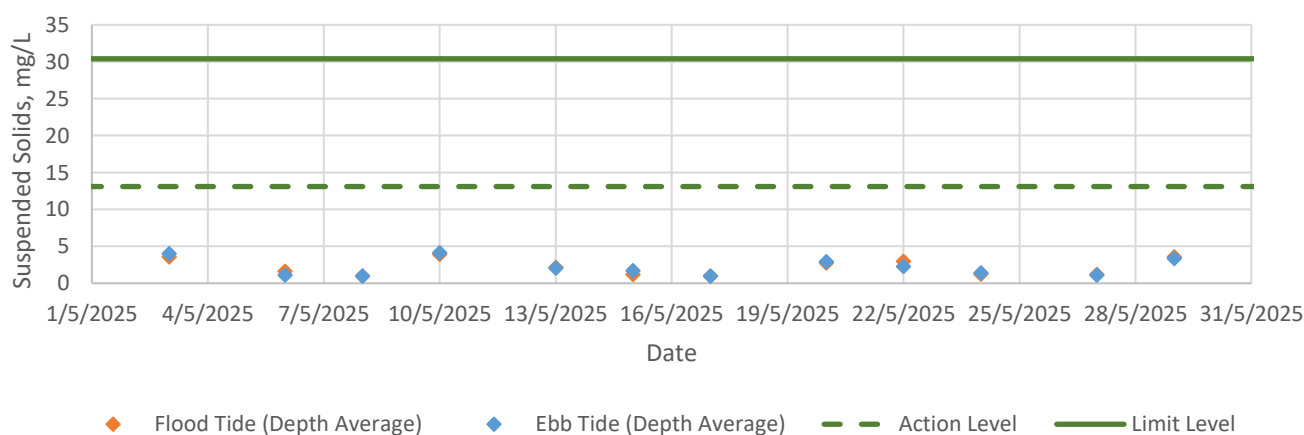
SR5 - Dissolved Oxygen



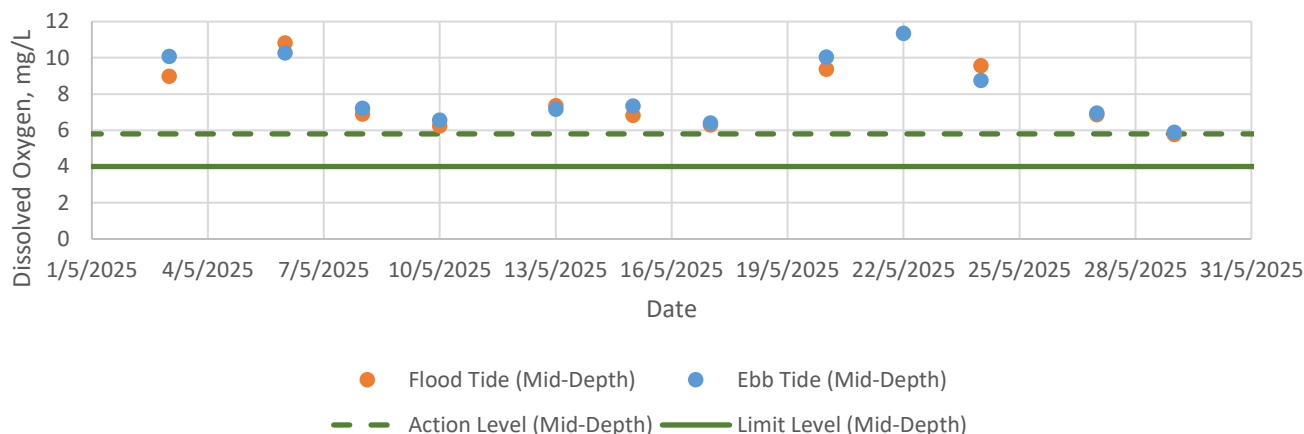
SR5 - Turbidity



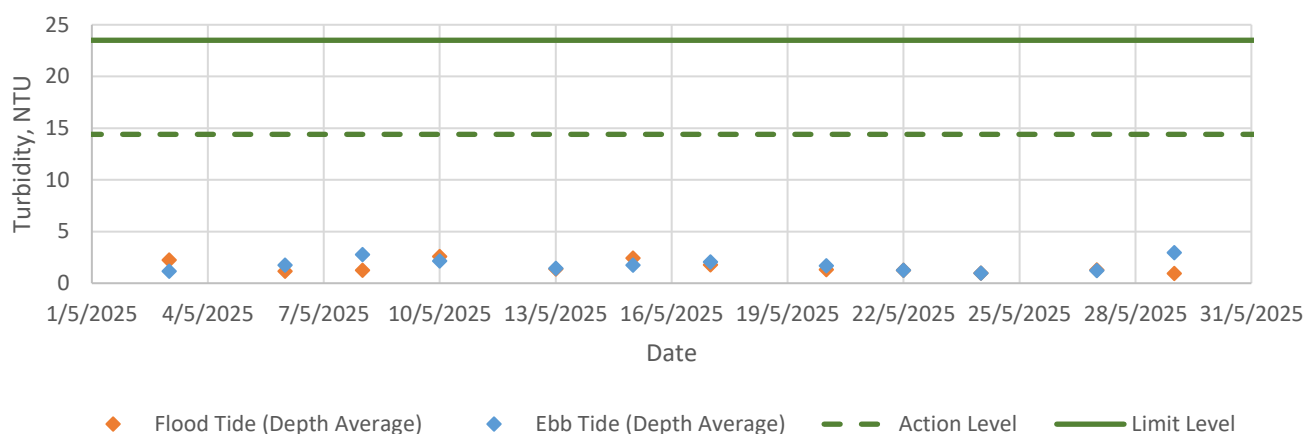
SR5 - Suspended Solids



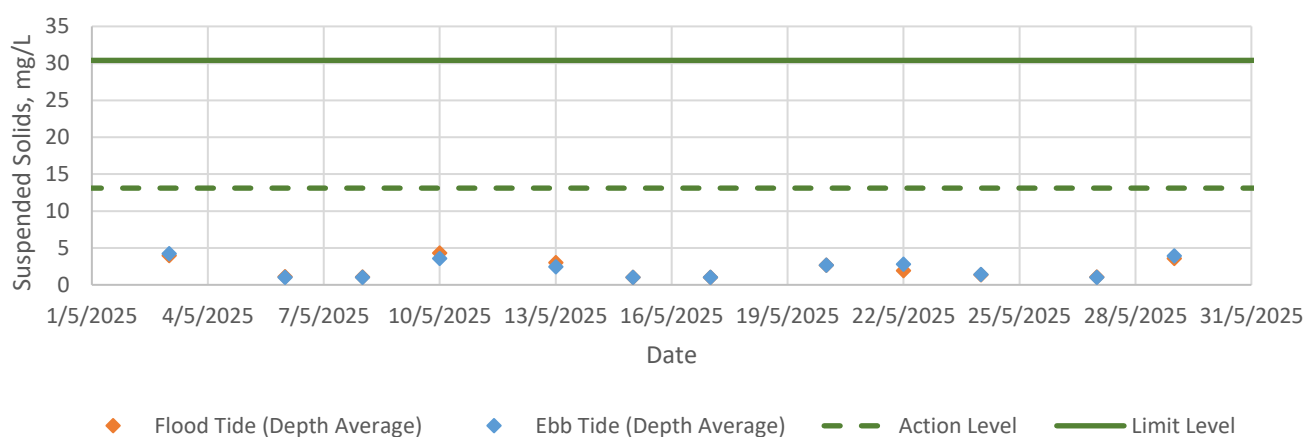
SR6 - Dissolved Oxygen



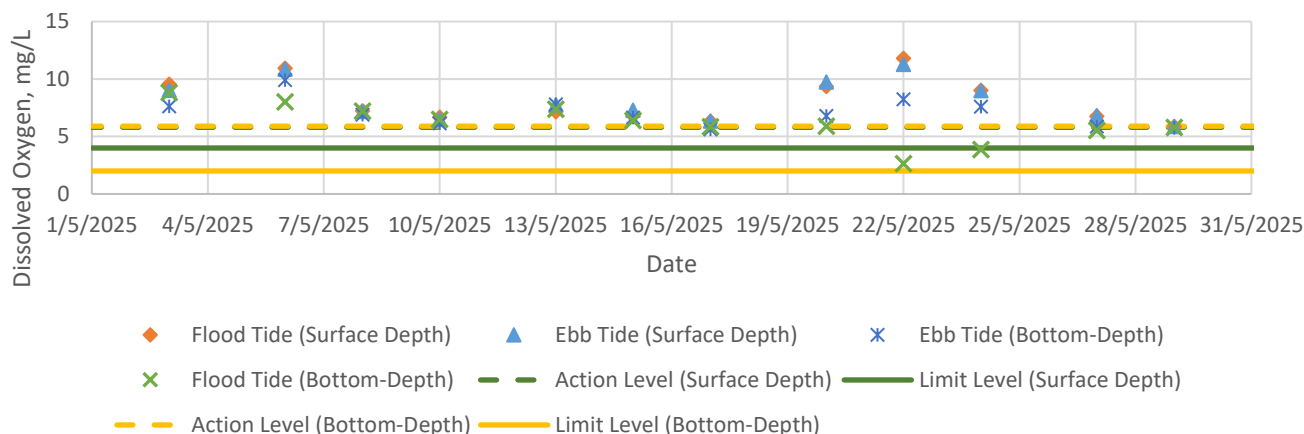
SR6 - Turbidity



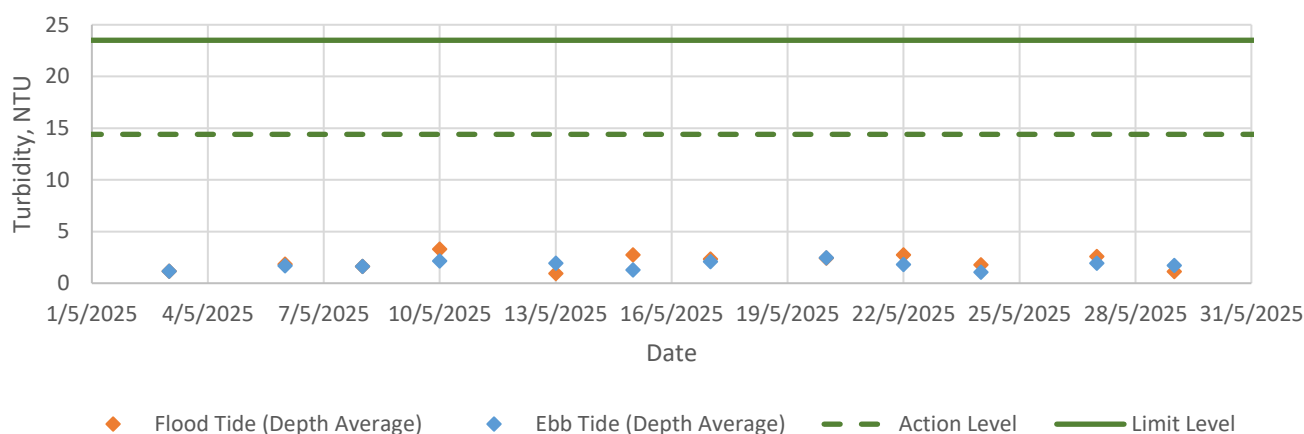
SR6 - Suspended Solids



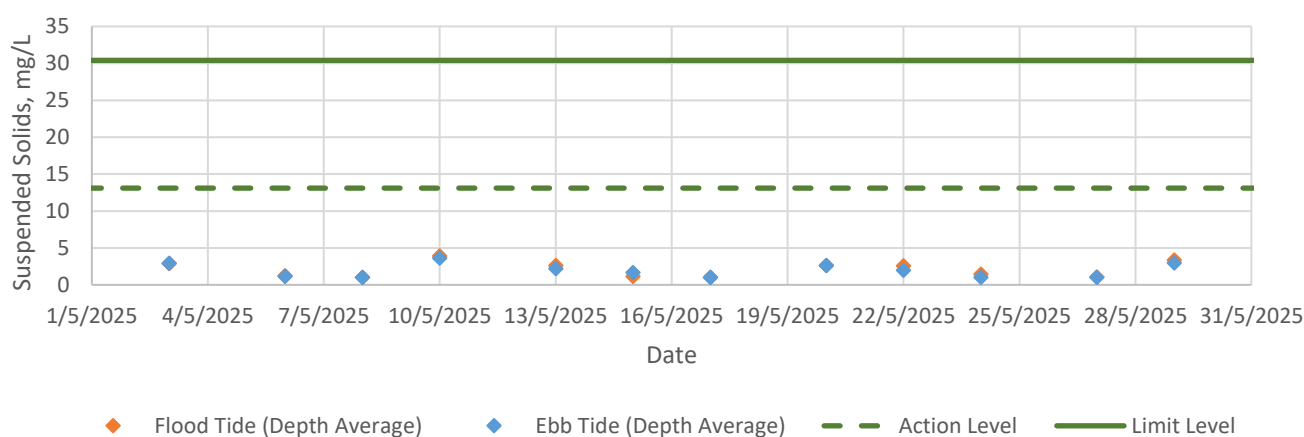
SR9 - Dissolved Oxygen



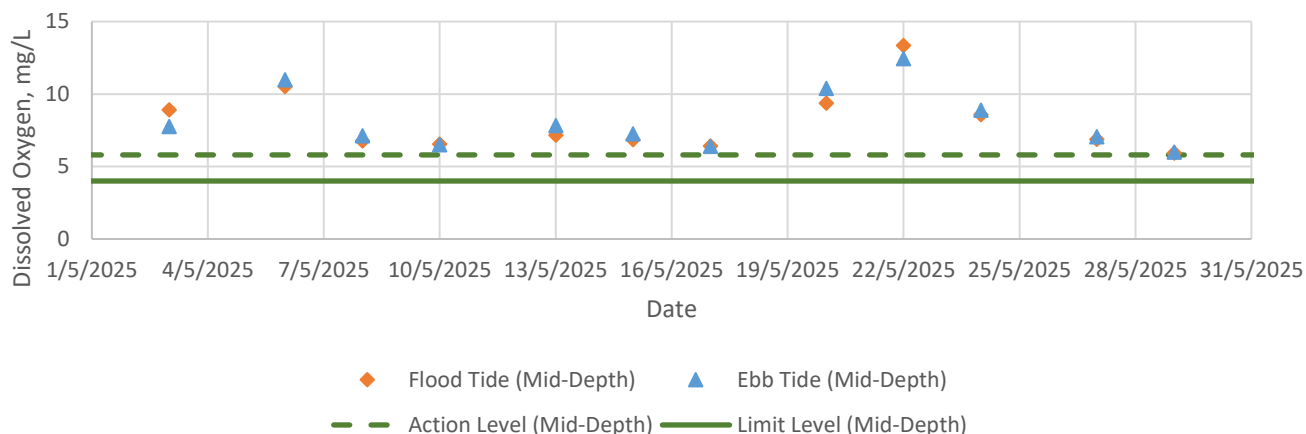
SR9 - Turbidity



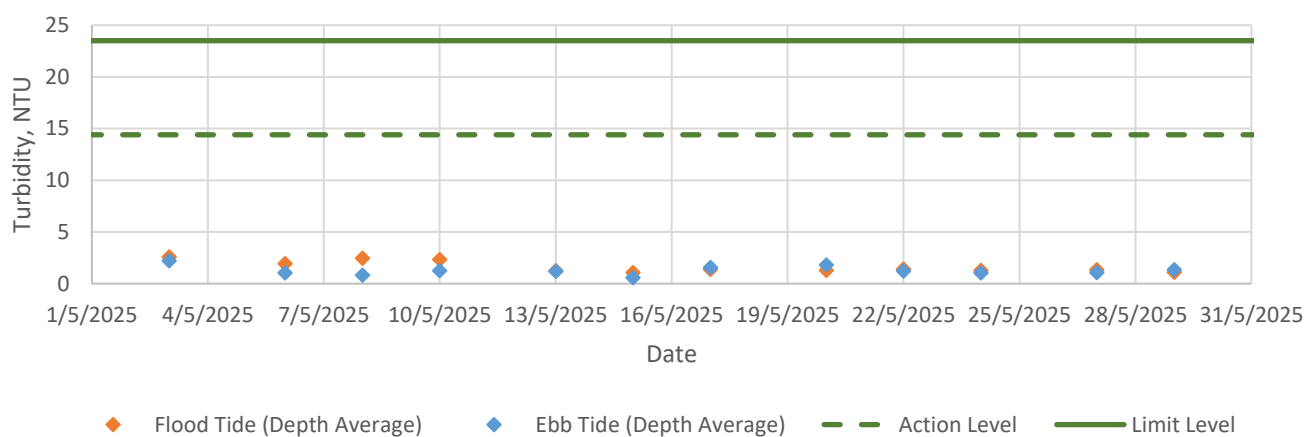
SR9 - Suspended Solids



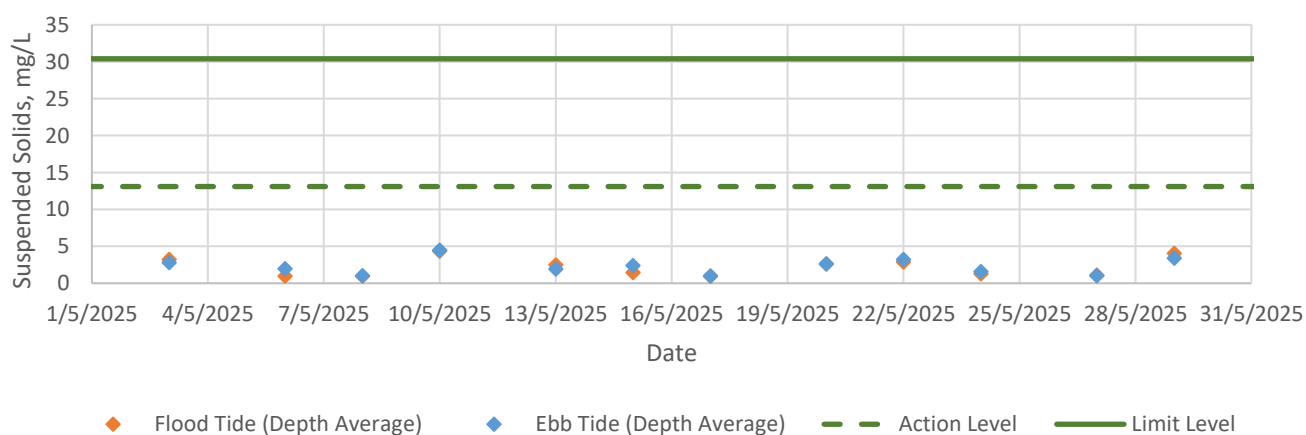
SR10 - Dissolved Oxygen



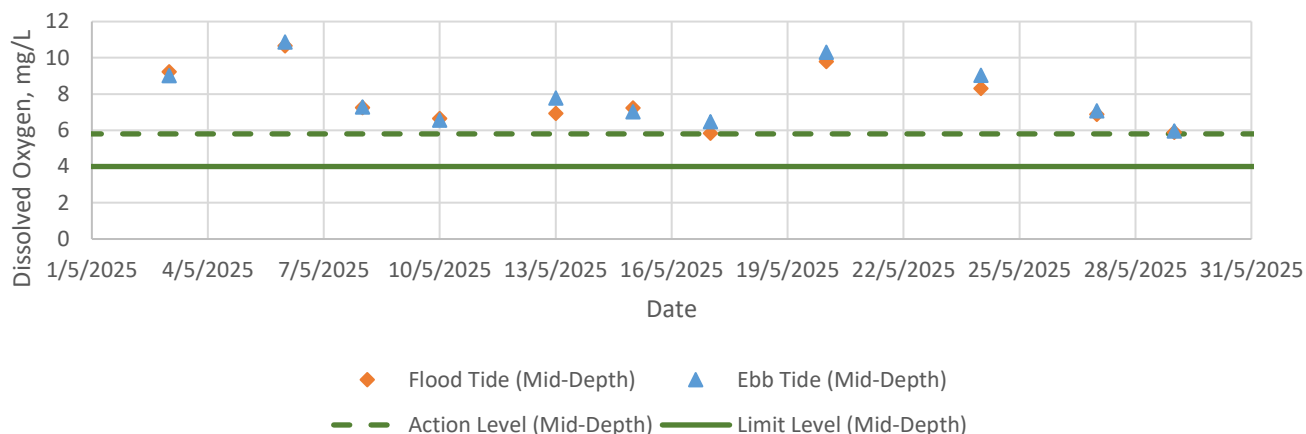
SR10 - Turbidity



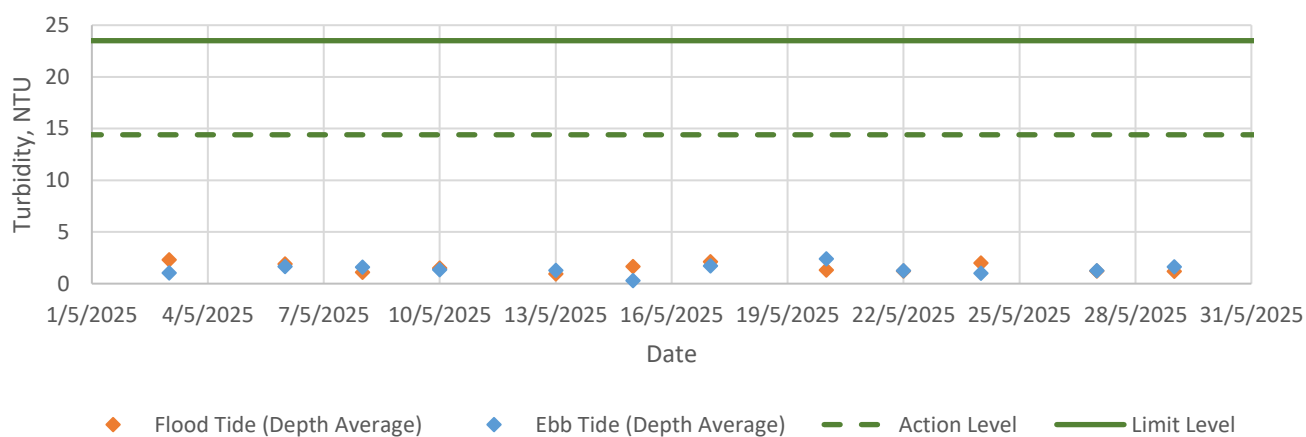
SR10 - Suspended Solids



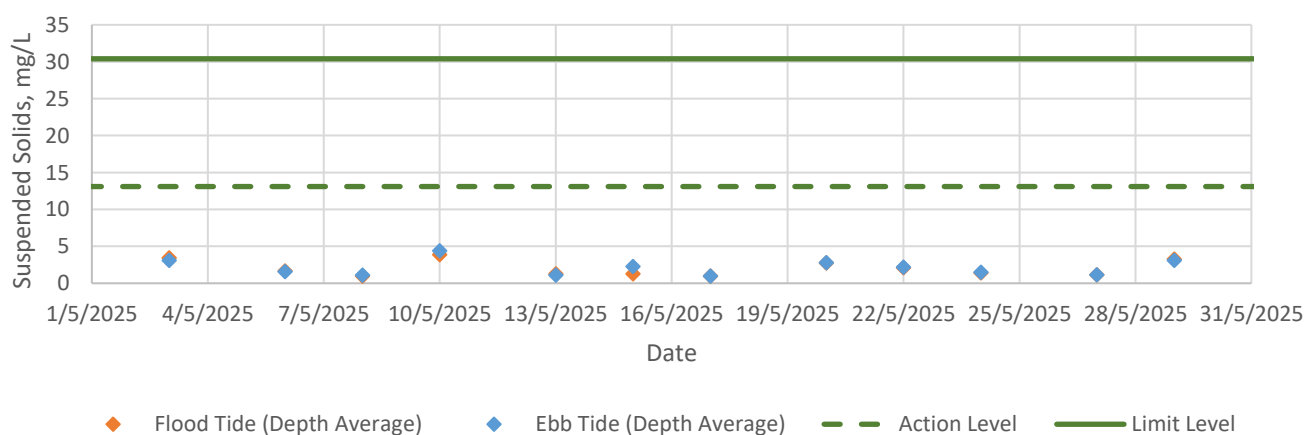
SR12 - Dissolved Oxygen



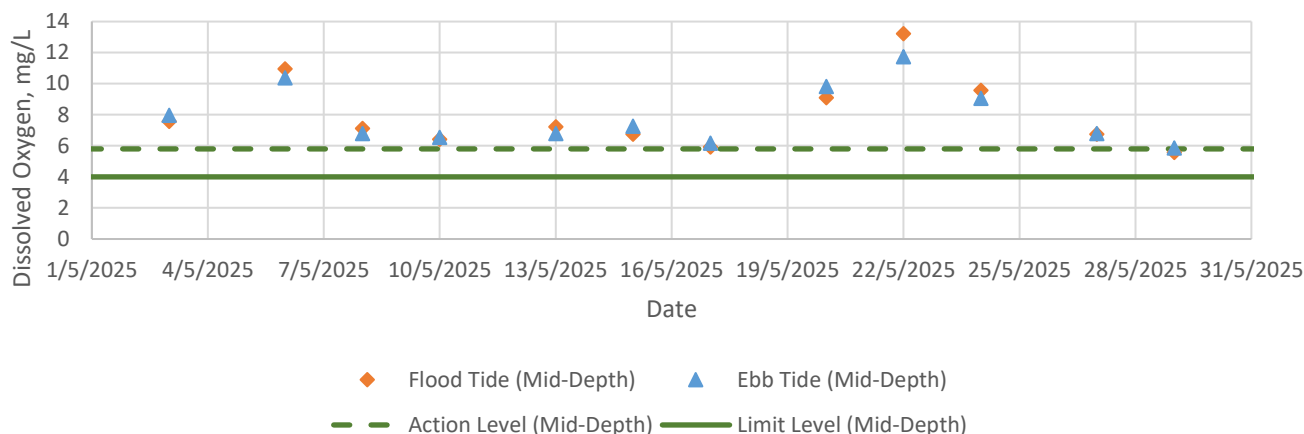
SR12 - Turbidity



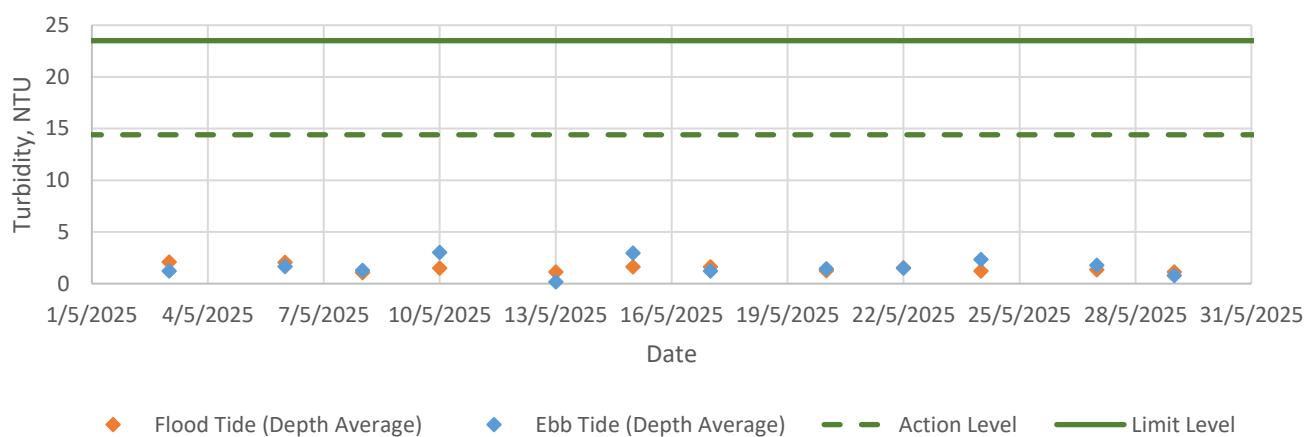
SR12 - Suspended Solids



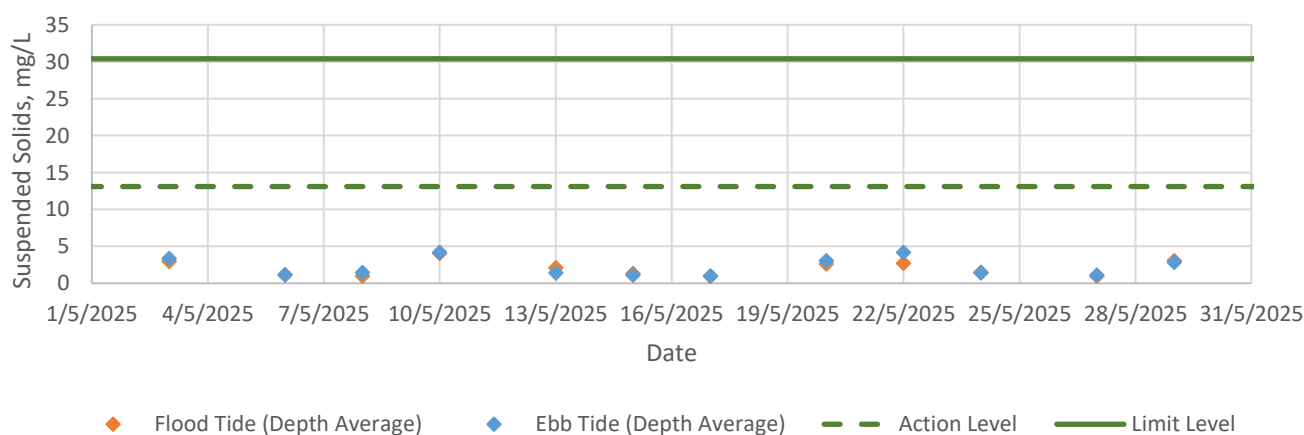
SR15 - Dissolved Oxygen



SR15 - Turbidity



SR15 - Suspended Solids



Station: CE
Tide: Ebb tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Sunny	Moderate	15:37	15:40	11.4	Surface	1.0	26.3	8.1	29.07	144.3	9.88	9.4	1.20	1.2	3.6	3.1
	Sunny	Moderate	15:37	15:40	11.4	Surface	1.0	26.3	8.1	29.07	144.4	9.89		1.20		3.1	
	Sunny	Moderate	15:37	15:40	11.4	Middle	5.7	25.2	8.0	29.15	125.8	8.78		1.17		3.1	
	Sunny	Moderate	15:37	15:40	11.4	Middle	5.7	25.2	8.0	29.15	126.7	8.85	1.15	2.9			
	Sunny	Moderate	15:37	15:40	11.4	Bottom	10.4	24.9	8.0	29.12	107.2	7.52	1.32	3.1			
	Sunny	Moderate	15:37	15:40	11.4	Bottom	10.4	24.9	8.0	29.12	107.2	7.52	1.36	3.0			
6/5/2025	Cloudy	Moderate	09:43	09:46	11.3	Surface	1.0	27.2	8.2	28.80	159.1	10.75	10.6	1.77	2.1	<1.0	1.1
	Cloudy	Moderate	09:43	09:46	11.3	Surface	1.0	27.2	8.2	28.80	159.1	10.75		1.78		<1.0	
	Cloudy	Moderate	09:43	09:46	11.3	Middle	5.7	25.8	8.2	28.93	151.7	10.48		1.60		<1.0	
	Cloudy	Moderate	09:43	09:46	11.3	Middle	5.7	25.8	8.2	28.93	151.7	10.48	1.63	<1.0			
	Cloudy	Moderate	09:43	09:46	11.3	Bottom	10.3	24.3	7.9	30.15	90.2	6.32	3.02	1.4			
	Cloudy	Moderate	09:43	09:46	11.3	Bottom	10.3	24.3	7.9	30.15	90.2	6.33	3.04	1.2			
8/5/2025	Cloudy	Moderate	10:40	10:44	11.8	Surface	1.0	26.7	8.0	28.10	105.4	7.22	7.1	1.24	1.7	1.1	1.3
	Cloudy	Moderate	10:40	10:44	11.8	Surface	1.0	26.7	8.0	28.10	105.4	7.22		1.25		1.2	
	Cloudy	Moderate	10:40	10:44	11.8	Middle	5.9	26.0	8.0	28.43	100.9	6.98		1.43		<1.0	
	Cloudy	Moderate	10:40	10:44	11.8	Middle	5.9	26.0	8.0	28.43	100.9	6.98	1.48	1.7			
	Cloudy	Moderate	10:40	10:44	11.8	Bottom	10.8	25.7	8.0	28.50	97.6	6.78	2.57	1.2			
	Cloudy	Moderate	10:40	10:44	11.8	Bottom	10.8	25.7	8.0	28.50	97.7	6.79	2.45	1.3			
10/5/2025	Cloudy	Rough	11:34	11:37	11.4	Surface	1.0	24.8	8.1	29.59	91.0	6.37	6.3	1.96	3.0	4.0	4.2
	Cloudy	Rough	11:34	11:37	11.4	Surface	1.0	24.8	8.1	29.58	91.0	6.37		1.93		4.1	
	Cloudy	Rough	11:34	11:37	11.4	Middle	5.7	24.8	8.1	31.13	90.6	6.30		2.89		4.2	
	Cloudy	Rough	11:34	11:37	11.4	Middle	5.7	24.8	8.1	31.10	90.6	6.30	2.87	4.7			
	Cloudy	Rough	11:34	11:37	11.4	Bottom	10.4	24.7	8.1	31.66	89.1	6.18	4.13	4.1			
	Cloudy	Rough	11:34	11:37	11.4	Bottom	10.4	24.7	8.1	31.68	89.0	6.17	4.18	4.0			
13/5/2025	Sunny	Rough	11:12	11:15	11.4	Surface	1.0	25.6	8.0	29.81	113.4	7.82	7.8	1.06	1.2	3.3	3.4
	Sunny	Rough	11:12	11:15	11.4	Surface	1.0	25.6	8.0	29.81	113.3	7.82		1.09		3.9	
	Sunny	Rough	11:12	11:15	11.4	Middle	5.7	25.5	8.0	29.83	111.6	7.72		1.13		4.2	
	Sunny	Rough	11:12	11:15	11.4	Middle	5.7	25.5	8.0	29.83	111.7	7.72	1.15	4.5			
	Sunny	Rough	11:12	11:15	11.4	Bottom	10.4	25.5	8.0	29.90	99.8	6.90	1.22	2.3			
	Sunny	Rough	11:12	11:15	11.4	Bottom	10.4	25.5	8.0	29.91	99.8	6.90	1.25	1.9			
15/5/2025	Sunny	Moderate	12:07	12:11	11.6	Surface	1.0	26.5	8.0	29.96	102.9	6.99	6.9	0.56	1.1	<1.0	1.0
	Sunny	Moderate	12:07	12:11	11.6	Surface	1.0	26.5	8.0	29.97	102.9	6.99		0.58		<1.0	
	Sunny	Moderate	12:07	12:11	11.6	Middle	5.8	26.3	7.9	29.92	100.6	6.86		1.15		<1.0	
	Sunny	Moderate	12:07	12:11	11.6	Middle	5.8	26.3	7.9	29.93	100.6	6.86	1.15	1.2			
	Sunny	Moderate	12:07	12:11	11.6	Bottom	10.6	26.0	8.0	29.96	100.7	6.90	1.59	<1.0			
	Sunny	Moderate	12:07	12:11	11.6	Bottom	10.6	26.0	8.0	29.96	100.7	6.90	1.68	<1.0			
17/5/2025	Sunny	Calm	13:31	13:35	11.6	Surface	1.0	26.6	7.9	29.38	94.5	6.43	6.4	1.33	1.3	<1.0	1.0
	Sunny	Calm	13:31	13:35	11.6	Surface	1.0	26.6	7.9	29.38	94.4	6.43		1.36		<1.0	
	Sunny	Calm	13:31	13:35	11.6	Middle	5.8	26.7	7.9	29.49	93.9	6.38		1.44		<1.0	
	Sunny	Calm	13:31	13:35	11.6	Middle	5.8	26.7	7.9	29.48	93.7	6.37	1.46	<1.0			
	Sunny	Calm	13:31	13:35	11.6	Bottom	10.6	26.7	7.9	29.85	83.3	5.64	0.96	<1.0			
	Sunny	Calm	13:31	13:35	11.6	Bottom	10.6	26.7	7.9	29.85	83.3	5.65	0.95	<1.0			
20/5/2025	Cloudy	Moderate	16:00	16:02	10.8	Surface	1.0	27.6	8.1	27.05	138.0	9.35	8.6	1.41	2.2	2.6	2.6
	Cloudy	Moderate	16:00	16:02	10.8	Surface	1.0	27.6	8.1	27.06	137.5	9.32		1.43		2.6	
	Cloudy	Moderate	16:00	16:02	10.8	Middle	5.4	27.6	8.0	28.38	116.1	7.81		1.32		2.6	
	Cloudy	Moderate	16:00	16:02	10.8	Middle	5.4	27.6	8.0	28.52	114.9	7.73	1.43	2.6			
	Cloudy	Moderate	16:00	16:02	10.8	Bottom	9.8	26.6	7.8	30.08	71.1	4.81	3.38	2.8			
	Cloudy	Moderate	16:00	16:02	10.8	Bottom	9.8	26.6	7.8	30.10	72.3	4.90	4.04	2.6			
22/5/2025	Sunny	Moderate	09:40	09:42	10.2	Surface	1.0	29.8	8.4	23.95	185.2	12.32	11.3	1.35	2.9	3.1	2.9
	Sunny	Moderate	09:40	09:42	10.2	Surface	1.0	29.8	8.4	23.92	184.0	12.24		1.37		2.4	
	Sunny	Moderate	09:40	09:42	10.2	Middle	5.1	27.6	8.2	27.41	154.7	10.47		1.46		2.6	
	Sunny	Moderate	09:40	09:42	10.2	Middle	5.1	27.6	8.2	27.45	147.8	10.00	1.48	2.4			
	Sunny	Moderate	09:40	09:42	10.2	Bottom	9.2	26.0	7.8	30.69	62.2	4.24	5.83	3.9			
	Sunny	Moderate	09:40	09:42	10.2	Bottom	9.2	26.0	7.8	30.69	62.8	4.29	5.83	2.9			
24/5/2025	Cloudy	Moderate	10:40	10:42	10.1	Surface	1.0	27.7	8.0	25.30	107.1	7.31	6.7	1.31	2.3	1.6	1.6
	Cloudy	Moderate	10:40	10:42	10.1	Surface	1.0	27.7	8.0	25.20	107.7	7.37		1.32		1.3	
	Cloudy	Moderate	10:40	10:42	10.1	Middle	5.1	27.1	7.9	27.87	89.4	6.09		1.15		1.9	
	Cloudy	Moderate	10:40	10:42	10.1	Middle	5.1	27.1	7.9	27.87	89.4	6.09	1.15	1.6			
	Cloudy	Moderate	10:40	10:42	10.1	Bottom	9.1	25.6	7.7	31.00	48.7	3.34	4.40	1.8			
	Cloudy	Moderate	10:40	10:42	10.1	Bottom	9.1	25.6	7.7	31.00	49.3	3.38	4.49	1.2			
27/5/2025	Cloudy	Moderate	10:58	11:00	10.6	Surface	1.0	26.3	8.0	27.34	98.5	6.82	6.7	1.20	2.7	1.1	1.1
	Cloudy	Moderate	10:58	11:00	10.6	Surface	1.0	26.3	8.0	27.34	98.4	6.81		1.23		1.2	
	Cloudy	Moderate	10:58	11:00	10.6	Middle	5.3	26.2	8.0	27.44	94.6	6.56		1.43		1.0	
	Cloudy	Moderate	10:58	11:00	10.6	Middle	5.3	26.2	8.0	27.45	94.4	6.54	2.02	1.0			
	Cloudy	Moderate	10:58	11:00	10.6	Bottom	9.6	26.2	7.9	27.64	82.5	5.71	5.07	1.1			
	Cloudy	Moderate	10:58	11:00	10.6	Bottom	9.6	26.2	8.0	27.64	83.2	5.76	5.02	1.3			
29/5/2025	Cloudy	Rough	12:28	12:32	11.7	Surface	1.0	26.3	8.0	28.05	83.7	5.78	5.8	1.33	1.8	3.5	3.6
	Cloudy	Rough	12:28	12:32	11.7	Surface	1.0	26.2	8.0	28.05	83.7	5.78		1.36		3.6	
	Cloudy	Rough	12:28	12:32	11.7	Middle	5.9	26.2	8.0	28.16	83.5	5.76		1.71		3.8	
	Cloudy	Rough	12:28	12:32	11.7	Middle	5.9	26.1	8.0	28.16	83.5	5.76	1.73	3.7			
	Cloudy	Rough	12:28	12:32	11.7	Bottom	10.7	26.1	8.0	28.20	82.1	5.68	2.19	3.3			
	Cloudy	Rough	12:28	12:32	11.7	Bottom	10.7	26.1	8.0	28.20	82.1	5.68	2.22	3.4			

Station: CE
Tide: Flood tide

Date	Weather	Sea	Sampling Time	Water Depth	Level	Sampling depth	Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m	m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Fine	Moderate	09:32	09:36	11.6	Surface	1.0	25.3	8.0	28.86	129.6	9.04	8.3	0.17	3.4	3.2
	Fine	Moderate	09:32	09:36	11.6	Surface	1.0	25.3	8.0	28.85	129.4	9.03		0.15	3.3	
	Fine	Moderate	09:32	09:36	11.6	Middle	5.8	24.8	8.0	28.90	108.1	7.61		0.07	3.4	
	Fine	Moderate	09:32	09:36	11.6	Middle	5.8	24.8	8.0	28.90	108.1	7.61		0.08	3.1	
	Fine	Moderate	09:32	09:36	11.6	Bottom	10.6	24.8	8.0	29.03	105.6	7.42	7.4	1.10	2.6	
6/5/2025	Fine	Moderate	09:32	09:36	11.6	Bottom	10.6	24.8	8.0	29.03	105.7	7.43		1.11	3.6	
	Cloudy	Moderate	12:17	12:20	11.5	Surface	1.0	26.4	8.2	28.85	156.3	10.69	10.6	1.25	<1.0	1.0
	Cloudy	Moderate	12:17	12:20	11.5	Surface	1.0	26.4	8.2	28.85	156.2	10.69		1.28	<1.0	
	Cloudy	Moderate	12:17	12:20	11.5	Middle	5.8	26.3	8.2	28.86	153.7	10.56		1.83	<1.0	
	Cloudy	Moderate	12:17	12:20	11.5	Middle	5.8	26.2	8.2	28.86	153.7	10.56		1.84	<1.0	
6/5/2025	Cloudy	Moderate	12:17	12:20	11.5	Bottom	10.5	25.8	8.1	29.06	136.9	9.47	9.5	2.05	<1.0	
	Cloudy	Moderate	12:17	12:20	11.5	Bottom	10.5	25.8	8.1	29.03	136.8	9.45		2.06	<1.0	
	Cloudy	Rough	14:43	14:46	11.2	Surface	1.0	26.6	8.0	28.04	102.0	6.99	7.0	0.72	<1.0	1.2
	Cloudy	Rough	14:43	14:46	11.2	Surface	1.0	26.6	8.0	28.04	101.9	6.99		0.75	1.2	
	Cloudy	Rough	14:43	14:46	11.2	Middle	5.6	25.8	8.0	28.46	100.3	6.95		1.16	1.2	
8/5/2025	Cloudy	Rough	14:43	14:46	11.2	Middle	5.6	25.8	8.0	28.46	100.2	6.95		1.15	1.0	
	Cloudy	Rough	14:43	14:46	11.2	Bottom	10.2	25.8	8.0	28.47	99.6	6.91	6.9	1.52	1.1	
	Cloudy	Rough	14:43	14:46	11.2	Bottom	10.2	25.8	8.0	28.48	99.6	6.91		1.59	1.5	
	Cloudy	Moderate	16:14	16:18	11.3	Surface	1.0	24.9	8.1	28.34	91.8	6.47	6.4	2.27	4.5	4.0
	Cloudy	Moderate	16:14	16:18	11.3	Surface	1.0	24.9	8.1	28.33	91.7	6.47		2.29	4.1	
10/5/2025	Cloudy	Moderate	16:14	16:18	11.3	Middle	5.7	24.8	8.1	29.94	91.1	6.37		3.44	3.8	
	Cloudy	Moderate	16:14	16:18	11.3	Middle	5.7	24.8	8.1	29.92	91.1	6.37		3.46	4.0	
	Cloudy	Moderate	16:14	16:18	11.3	Bottom	10.3	24.6	8.1	31.54	90.2	6.26	6.3	4.25	3.6	
	Cloudy	Moderate	16:14	16:18	11.3	Bottom	10.3	24.6	8.1	31.54	90.2	6.26		4.26	3.8	
	Fine	Moderate	06:31	06:35	11.1	Surface	1.0	25.8	8.0	29.83	100.6	6.93	7.0	1.11	1.4	1.7
13/5/2025	Fine	Moderate	06:31	06:35	11.1	Surface	1.0	25.8	8.0	29.83	100.7	6.93		1.13	1.5	
	Fine	Moderate	06:31	06:35	11.1	Middle	5.6	25.5	8.0	29.82	101.7	7.03		1.27	1.7	
	Fine	Moderate	06:31	06:35	11.1	Middle	5.6	25.5	8.0	29.82	101.6	7.03		1.32	2.3	
	Fine	Moderate	06:31	06:35	11.1	Bottom	10.1	25.5	8.0	29.83	97.0	6.71	6.7	0.45	1.5	
	Fine	Moderate	06:31	06:35	11.1	Bottom	10.1	25.5	8.0	29.83	97.0	6.71		0.51	1.5	
15/5/2025	Fine	Moderate	06:23	06:27	11.3	Surface	1.0	27.0	8.0	29.91	107.5	7.25	7.2	0.75	<1.0	1.0
	Fine	Moderate	06:23	06:27	11.3	Surface	1.0	27.0	8.0	29.91	107.5	7.25		0.76	<1.0	
	Fine	Moderate	06:23	06:27	11.3	Middle	5.7	26.5	8.0	29.92	103.8	7.06		1.63	<1.0	
	Fine	Moderate	06:23	06:27	11.3	Middle	5.7	26.5	8.0	29.93	103.8	7.06		1.66	<1.0	
	Fine	Moderate	06:23	06:27	11.3	Bottom	10.3	26.1	7.9	29.95	99.8	6.83	6.8	2.11	<1.0	
17/5/2025	Fine	Moderate	06:23	06:27	11.3	Bottom	10.3	26.1	7.9	29.94	99.8	6.83		2.13	<1.0	
	Fine	Moderate	07:33	07:36	11.4	Surface	1.0	26.7	7.9	29.44	94.9	6.45	6.4	1.34	<1.0	1.0
	Fine	Moderate	07:33	07:36	11.4	Surface	1.0	26.7	7.9	29.43	94.9	6.45		1.35	<1.0	
	Fine	Moderate	07:33	07:36	11.4	Middle	5.7	26.6	7.9	29.33	94.7	6.44		1.48	<1.0	
	Fine	Moderate	07:33	07:36	11.4	Middle	5.7	26.6	7.9	29.33	94.7	6.44		1.46	<1.0	
17/5/2025	Fine	Moderate	07:33	07:36	11.4	Bottom	10.4	27.0	7.9	29.66	93.9	6.34	6.3	1.57	<1.0	
	Fine	Moderate	07:33	07:36	11.4	Bottom	10.4	27.0	7.9	29.67	93.8	6.33		1.60	<1.0	
	Cloudy	Moderate	10:11	10:13	11.4	Surface	1.0	27.4	8.1	27.60	128.3	8.70	8.4	1.35	2.6	2.8
	Cloudy	Moderate	10:11	10:13	11.4	Surface	1.0	27.4	8.1	27.53	128.3	8.70		1.34	2.6	
	Cloudy	Moderate	10:11	10:13	11.4	Middle	5.7	27.6	8.0	28.36	121.0	8.14		1.28	2.3	
20/5/2025	Cloudy	Moderate	10:11	10:13	11.4	Middle	5.7	27.6	8.0	28.36	119.6	8.05		1.34	2.5	
	Cloudy	Moderate	10:11	10:13	11.4	Bottom	10.4	26.5	7.8	30.30	70.4	4.77	4.8	5.13	3.6	
	Cloudy	Moderate	10:11	10:13	11.4	Bottom	10.4	26.5	7.8	30.33	70.8	4.80		5.21	3.0	
	Sunny	Moderate	12:26	12:28	10.5	Surface	1.0	29.8	8.3	23.49	184.1	12.28	11.6	1.48	2.1	1.7
	Sunny	Moderate	12:26	12:28	10.5	Surface	1.0	29.7	8.3	23.48	183.8	12.26		1.54	1.6	
22/5/2025	Sunny	Moderate	12:26	12:28	10.5	Middle	5.3	27.6	8.2	27.29	164.2	11.11		1.58	2.0	
	Sunny	Moderate	12:26	12:28	10.5	Middle	5.3	27.6	8.2	27.30	156.7	10.60		1.56	1.8	
	Sunny	Moderate	12:26	12:28	10.5	Bottom	9.5	25.9	7.8	30.68	62.8	4.29	4.3	4.29	1.9	
	Sunny	Moderate	12:26	12:28	10.5	Bottom	9.5	25.9	7.8	30.68	63.2	4.32		4.60	1.0	
	Cloudy	Moderate	14:50	14:52	10.0	Surface	1.0	27.6	8.0	25.69	103.9	7.09	6.2	1.41	1.4	1.4
24/5/2025	Cloudy	Moderate	14:50	14:52	10.0	Surface	1.0	27.6	8.0	25.68	103.4	7.05		1.38	1.4	
	Cloudy	Moderate	14:50	14:52	10.0	Middle	5.0	27.0	7.9	28.07	78.2	5.32		1.75	1.8	
	Cloudy	Moderate	14:50	14:52	10.0	Middle	5.0	27.0	7.9	28.10	78.9	5.37		2.20	1.4	
	Cloudy	Moderate	14:50	14:52	10.0	Bottom	9.0	25.6	7.7	30.99	47.5	3.26	3.3	3.75	1.2	
	Cloudy	Moderate	14:50	14:52	10.0	Bottom	9.0	25.6	7.7	30.98	47.8	3.28		3.70	1.3	
27/5/2025	Cloudy	Moderate	06:43	06:47	10.0	Surface	1.0	26.3	8.0	27.34	97.7	6.77	6.6	1.19	1.7	1.2
	Cloudy	Moderate	06:43	06:47	10.0	Surface	1.0	26.2	8.0	27.34	97.2	6.73		1.22	1.3	
	Cloudy	Moderate	06:43	06:47	10.0	Middle	5.0	26.2	8.0	27.54	92.4	6.40		3.49	<1.0	
	Cloudy	Moderate	06:43	06:47	10.0	Middle	5.0	26.2	8.0	27.54	92.4	6.40		3.49	<1.0	
	Cloudy	Moderate	06:43	06:47	10.0	Bottom	9.0	26.2	8.0	27.65	81.7	5.65	5.7	6.05	<1.0	
29/5/2025	Cloudy	Moderate	06:43	06:47	10.0	Bottom	9.0	26.2	8.0	27.65	82.6	5.72		6.05	1.0	
	Fine	Rough	07:31	07:35	11.9	Surface	1.0	26.3	8.0	27.97	84.3	5.81	5.8	0.24	3.4	3.3
	Fine	Rough	07:31	07:35	11.9	Surface	1.0	26.3	8.0	27.97	84.3	5.81		0.26	2.9	
	Fine	Rough	07:31	07:35	11.9	Middle	6.0	26.2	8.0	28.08	83.7	5.78		1.01	3.7	
	Fine	Rough	07:31	07:35	11.9	Middle	6.0	26.2	8.0	28.06	83.7	5.78		1.03	3.2	
29/5/2025	Fine	Rough	07:31	07:35	11.9	Bottom	10.9	26.1	8.0	28.19	83.4	5.76	5.8	1.12	3.7	

Station: CF
Tide: Ebb tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
1/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/5/2025	Sunny	Moderate	17:11	17:15	9.5	Surface	1.0	25.3	8.0	28.98	115.8	8.08	7.9	1.24	1.5	3.0	3.5
	Sunny	Moderate	17:11	17:15	9.5	Surface	1.0	25.3	8.0	28.98	115.8	8.08		1.27		2.7	
	Sunny	Moderate	17:11	17:15	9.5	Middle	4.8	24.6	8.0	29.32	108.2	7.62		1.42		4.1	
	Sunny	Moderate	17:11	17:15	9.5	Middle	4.8	24.6	8.0	29.33	108.2	7.62		1.43		3.8	
	Sunny	Moderate	17:11	17:15	9.5	Bottom	8.5	23.6	8.0	30.61	88.3	6.28	6.3	1.94		4.0	
	Sunny	Moderate	17:11	17:15	9.5	Bottom	8.5	23.6	8.0	30.61	88.3	6.28		1.98		3.1	
6/5/2025	Cloudy	Moderate	08:18	08:21	9.5	Surface	1.0	26.5	8.1	28.82	151.9	10.38	9.6	1.79	1.3	<1.0	1.1
	Cloudy	Moderate	08:18	08:21	9.5	Surface	1.0	26.5	8.1	28.82	151.7	10.37		1.81		<1.0	
	Cloudy	Moderate	08:18	08:21	9.5	Middle	4.8	25.4	8.1	29.14	127.7	8.87		1.45		1.0	
	Cloudy	Moderate	08:18	08:21	9.5	Middle	4.8	25.5	8.1	29.11	127.7	8.87		1.45		1.3	
	Cloudy	Moderate	08:18	08:21	9.5	Bottom	8.5	24.7	7.9	29.74	96.9	6.80	6.8	0.54		<1.0	
	Cloudy	Moderate	08:18	08:21	9.5	Bottom	8.5	24.7	7.9	29.73	97.2	6.82		0.57		1.3	
8/5/2025	Cloudy	Rough	09:13	09:16	9.7	Surface	1.0	26.5	8.0	28.35	101.2	6.94	7.0	0.94	1.6	1.3	1.4
	Cloudy	Rough	09:13	09:16	9.7	Surface	1.0	26.5	8.0	28.35	101.2	6.94		0.96		1.5	
	Cloudy	Rough	09:13	09:16	9.7	Middle	4.9	26.2	8.0	28.36	101.9	7.02		1.09		1.2	
	Cloudy	Rough	09:13	09:16	9.7	Middle	4.9	26.2	8.0	28.36	101.9	7.02		1.12		1.2	
	Cloudy	Rough	09:13	09:16	9.7	Bottom	8.7	25.7	7.9	28.46	96.1	6.67	6.7	2.76		1.2	
	Cloudy	Rough	09:13	09:16	9.7	Bottom	8.7	25.7	7.9	28.47	96.0	6.67		2.81		1.8	
10/5/2025	Cloudy	Rough	10:17	10:20	9.5	Surface	1.0	24.7	8.1	30.49	90.3	6.31	6.2	1.61	2.4	4.0	4.4
	Cloudy	Rough	10:17	10:20	9.5	Surface	1.0	24.7	8.1	30.49	90.2	6.31		1.64		3.5	
	Cloudy	Rough	10:17	10:20	9.5	Middle	4.8	24.5	8.1	31.62	87.9	6.10		2.34		4.5	
	Cloudy	Rough	10:17	10:20	9.5	Middle	4.8	24.5	8.1	31.61	87.9	6.10		2.35		4.7	
	Cloudy	Rough	10:17	10:20	9.5	Bottom	8.5	24.3	8.1	31.95	86.1	5.97	6.0	3.22		5.1	
	Cloudy	Rough	10:17	10:20	9.5	Bottom	8.5	24.3	8.1	31.95	86.1	5.97		3.29		4.4	
13/5/2025	Sunny	Moderate	12:33	12:36	9.8	Surface	1.0	25.8	8.0	29.82	106.2	7.30	7.3	1.30	2.4	2.8	2.5
	Sunny	Moderate	12:33	12:36	9.8	Surface	1.0	25.8	8.0	29.82	106.2	7.30		1.32		2.2	
	Sunny	Moderate	12:33	12:36	9.8	Middle	4.9	25.5	8.0	29.79	104.9	7.25		2.61		2.8	
	Sunny	Moderate	12:33	12:36	9.8	Middle	4.9	25.5	8.0	29.80	104.7	7.24		2.62		3.2	
	Sunny	Moderate	12:33	12:36	9.8	Bottom	8.8	25.2	7.9	30.08	88.1	6.10	6.1	3.39		2.3	
	Sunny	Moderate	12:33	12:36	9.8	Bottom	8.8	25.2	7.9	30.08	88.1	6.10		3.40		1.8	
15/5/2025	Sunny	Moderate	13:36	13:40	9.8	Surface	1.0	26.7	7.9	29.73	103.6	7.02	6.8	0.55	1.1	<1.0	1.0
	Sunny	Moderate	13:36	13:40	9.8	Surface	1.0	26.7	7.9	29.73	103.5	7.02		0.59		<1.0	
	Sunny	Moderate	13:36	13:40	9.8	Middle	4.9	25.9	7.9	29.86	95.6	6.57		1.19		<1.0	
	Sunny	Moderate	13:36	13:40	9.8	Middle	4.9	25.9	7.9	29.86	95.5	6.56		1.22		<1.0	
	Sunny	Moderate	13:36	13:40	9.8	Bottom	8.8	25.7	7.9	30.16	84.8	5.84	5.8	1.55		<1.0	
	Sunny	Moderate	13:36	13:40	9.8	Bottom	8.8	25.7	7.9	30.16	84.8	5.84		1.56		1.0	
17/5/2025	Sunny	Calm	14:58	15:02	9.9	Surface	1.0	26.8	7.9	29.48	90.3	6.12	6.0	0.48	1.3	<1.0	1.0
	Sunny	Calm	14:58	15:02	9.9	Surface	1.0	26.8	7.9	29.48	90.3	6.12		0.49		<1.0	
	Sunny	Calm	14:58	15:02	9.9	Middle	5.0	26.5	7.9	29.76	85.6	5.82		1.48		<1.0	
	Sunny	Calm	14:58	15:02	9.9	Middle	5.0	26.5	7.9	29.76	85.6	5.82		1.49		<1.0	
	Sunny	Calm	14:58	15:02	9.9	Bottom	8.9	26.2	7.9	30.27	83.9	5.72	5.7	1.85		<1.0	
	Sunny	Calm	14:58	15:02	9.9	Bottom	8.9	26.2	7.9	30.27	84.0	5.72		1.87		<1.0	
20/5/2025	Cloudy	Moderate	17:24	17:26	9.2	Surface	1.0	27.8	8.2	26.05	149.9	10.19	8.4	1.29	3.2	3.0	2.6
	Cloudy	Moderate	17:24	17:26	9.2	Surface	1.0	27.8	8.2	26.04	149.6	10.16		1.30		2.3	
	Cloudy	Moderate	17:24	17:26	9.2	Middle	4.6	27.4	7.9	28.49	99.5	6.71		2.58		2.5	
	Cloudy	Moderate	17:24	17:26	9.2	Middle	4.6	27.4	7.9	28.48	98.9	6.67		2.54		2.8	
	Cloudy	Moderate	17:24	17:26	9.2	Bottom	8.2	26.4	7.9	30.61	78.1	5.29	5.3	5.97		2.6	
	Cloudy	Moderate	17:24	17:26	9.2	Bottom	8.2	26.4	7.9	30.64	78.5	5.32		5.29		2.5	
22/5/2025	Sunny	Moderate	08:25	08:27	9.6	Surface	1.0	28.6	8.2	25.17	173.1	11.67	9.5	1.79	1.8	2.8	2.3
	Sunny	Moderate	08:25	08:27	9.6	Surface	1.0	28.5	8.2	25.21	172.2	11.61		1.78		3.1	
	Sunny	Moderate	08:25	08:27	9.6	Middle	4.8	27.0	8.0	28.21	109.6	7.45		1.23		2.0	
	Sunny	Moderate	08:25	08:27	9.6	Middle	4.8	27.0	8.0	28.21	109.4	7.44		1.26		2.1	
	Sunny	Moderate	08:25	08:27	9.6	Bottom	8.6	27.1	7.9	28.35	95.5	6.48	6.5	2.40		1.8	
	Sunny	Moderate	08:25	08:27	9.6	Bottom	8.6	27.1	7.9	28.36	95.8	6.50		2.40		1.9	
24/5/2025	Cloudy	Moderate	09:27	09:29	9.2	Surface	1.0	27.8	8.2	24.83	125.1	8.57	7.2	1.05	1.3	1.4	1.4
	Cloudy	Moderate	09:27	09:29	9.2	Surface	1.0	27.5	8.1	25.05	118.8	8.16		1.06		1.4	
	Cloudy	Moderate	09:27	09:29	9.2	Middle	4.6	27.1	7.9	27.89	89.0	6.06		1.02		1.4	
	Cloudy	Moderate	09:27	09:29	9.2	Middle	4.6	27.0	7.9	28.07	88.4	6.02		1.17		1.2	
	Cloudy	Moderate	09:27	09:29	9.2	Bottom	8.2	26.6	7.8	29.09	71.7	4.88	4.9	1.72		1.6	
	Cloudy	Moderate	09:27	09:29	9.2	Bottom	8.2	26.6	7.8	29.07	72.1	4.91		1.58		1.2	
27/5/2025	Cloudy	Moderate	12:39	12:41	10.5	Surface	1.0	26.5	8.0	27.44	97.7	6.73	6.6	1.73	3.5	<1.0	1.0
	Cloudy	Moderate	12:39	12:41	10.5	Surface	1.0	26.5	8.0	27.44	97.6	6.72		1.72		1.0	
	Cloudy	Moderate	12:39	12:41	10.5	Middle	5.3	26.4	8.0	27.49	93.8	6.47		2.95		1.0	
	Cloudy	Moderate	12:39	12:41	10.5	Middle	5.3	26.3	8.0	27.54	93.3	6.44		3.96		<1.0	
	Cloudy	Moderate	12:39	12:41	10.5	Bottom	9.5	26.2	7.9	27.73	81.1	5.61	5.6	5.34		1.2	
	Cloudy	Moderate	12:39	12:41	10.5	Bottom	9.5	26.2	8.0	27.76	81.0	5.60		5.34		<1.0	

Station: CF
Tide: Flood tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
1/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3/5/2025	Fine	Moderate	08:11	08:15	9.7	Surface	1.0	24.7	7.8	29.29	105.0	7.38	6.9	1.44	3.0	3.9	3.1
	Fine	Moderate	08:11	08:15	9.7	Surface	1.0	24.7	7.8	29.29	104.8	7.37		1.46		2.9	
	Fine	Moderate	08:11	08:15	9.7	Middle	4.9	24.0	7.8	30.16	89.3	6.33		3.34		2.9	
	Fine	Moderate	08:11	08:15	9.7	Middle	4.9	24.0	7.8	30.15	89.3	6.32		3.25		2.6	
	Fine	Moderate	08:11	08:15	9.7	Bottom	8.7	23.7	7.8	30.51	82.8	5.88	5.9	4.16		2.6	
	Fine	Moderate	08:11	08:15	9.7	Bottom	8.7	23.7	7.8	30.51	82.9	5.88		4.15		3.4	
6/5/2025	Cloudy	Moderate	13:43	13:47	9.7	Surface	1.0	27.0	8.2	28.77	157.5	10.67	10.6	1.33	1.8	<1.0	1.1
	Cloudy	Moderate	13:43	13:47	9.7	Surface	1.0	27.0	8.2	28.77	157.4	10.67		1.37		<1.0	
	Cloudy	Moderate	13:43	13:47	9.7	Middle	4.9	25.9	8.2	28.91	151.7	10.47		1.92		1.3	
	Cloudy	Moderate	13:43	13:47	9.7	Middle	4.9	25.9	8.2	28.91	151.8	10.48		1.94		<1.0	
	Cloudy	Moderate	13:43	13:47	9.7	Bottom	8.7	25.3	8.1	29.25	128.7	8.97	9.0	2.08		<1.0	
	Cloudy	Moderate	13:43	13:47	9.7	Bottom	8.7	25.3	8.1	29.25	128.7	8.97		2.09		<1.0	
8/5/2025	Cloudy	Rough	16:13	16:16	9.6	Surface	1.0	26.7	8.0	28.32	104.6	7.15	7.1	1.10	1.5	1.1	1.2
	Cloudy	Rough	16:13	16:16	9.6	Surface	1.0	26.7	8.0	28.32	104.6	7.15		1.13		1.1	
	Cloudy	Rough	16:13	16:16	9.6	Middle	4.8	26.4	8.0	28.34	103.8	7.13		1.34		1.2	
	Cloudy	Rough	16:13	16:16	9.6	Middle	4.8	26.4	8.0	28.36	103.7	7.13		1.39		1.1	
	Cloudy	Rough	16:13	16:16	9.6	Bottom	8.6	25.8	8.0	28.52	99.1	6.86	6.9	1.97		1.4	
	Cloudy	Rough	16:13	16:16	9.6	Bottom	8.6	25.8	8.0	28.52	99.1	6.86		1.98		1.1	
10/5/2025	Cloudy	Moderate	17:47	17:50	9.3	Surface	1.0	24.8	8.1	30.51	89.1	6.21	6.2	1.38	2.1	4.6	4.1
	Cloudy	Moderate	17:47	17:50	9.3	Surface	1.0	24.8	8.1	30.52	89.3	6.23		1.39		4.6	
	Cloudy	Moderate	17:47	17:50	9.3	Middle	4.7	24.6	8.1	30.29	88.2	6.14		2.04		4.2	
	Cloudy	Moderate	17:47	17:50	9.3	Middle	4.7	24.6	8.1	30.27	88.2	6.14		2.06		3.7	
	Cloudy	Moderate	17:47	17:50	9.3	Bottom	8.3	24.4	8.1	31.83	87.9	6.09	6.1	2.71		2.8	
	Cloudy	Moderate	17:47	17:50	9.3	Bottom	8.3	24.4	8.1	31.83	88.1	6.10		2.74		4.4	
13/5/2025	Fine	Moderate	04:57	05:01	9.5	Surface	1.0	25.6	8.0	29.85	104.2	7.19	6.8	0.14	0.5	4.8	2.6
	Fine	Moderate	04:57	05:01	9.5	Surface	1.0	25.6	8.0	29.85	104.1	7.19		0.16		3.9	
	Fine	Moderate	04:57	05:01	9.5	Middle	4.8	25.3	7.9	29.95	93.0	6.44		0.43		2.0	
	Fine	Moderate	04:57	05:01	9.5	Middle	4.8	25.3	7.9	29.95	92.9	6.44		0.42		1.8	
	Fine	Moderate	04:57	05:01	9.5	Bottom	8.5	25.3	7.9	29.99	91.4	6.33	6.3	0.86		1.7	
	Fine	Moderate	04:57	05:01	9.5	Bottom	8.5	25.3	7.9	29.99	91.4	6.33		0.87		1.6	
15/5/2025	Fine	Rough	05:06	05:10	9.5	Surface	1.0	26.3	7.9	29.92	97.1	6.62	6.6	0.53	0.9	1.2	1.2
	Fine	Rough	05:06	05:10	9.5	Surface	1.0	26.3	7.9	29.92	97.1	6.62		0.52		1.8	
	Fine	Rough	05:06	05:10	9.5	Middle	4.8	26.1	7.9	29.91	95.4	6.53		0.77		1.2	
	Fine	Rough	05:06	05:10	9.5	Middle	4.8	26.0	7.9	29.94	95.4	6.54		0.76		1.1	
	Fine	Rough	05:06	05:10	9.5	Bottom	8.5	25.7	7.8	30.13	89.9	6.18	6.2	1.35		<1.0	
	Fine	Rough	05:06	05:10	9.5	Bottom	8.5	25.7	7.8	30.13	89.7	6.18		1.36		<1.0	
17/5/2025	Fine	Moderate	06:04	06:07	9.5	Surface	1.0	26.5	7.8	29.47	86.9	5.92	5.9	1.06	1.5	<1.0	1.0
	Fine	Moderate	06:04	06:07	9.5	Surface	1.0	26.5	7.8	29.47	86.9	5.92		1.08		<1.0	
	Fine	Moderate	06:04	06:07	9.5	Middle	4.8	26.4	7.8	29.51	85.6	5.84		1.92		<1.0	
	Fine	Moderate	06:04	06:07	9.5	Middle	4.8	26.4	7.8	29.54	85.2	5.81		1.93		<1.0	
	Fine	Moderate	06:04	06:07	9.5	Bottom	8.5	26.2	7.8	29.86	82.9	5.66	5.7	1.57		<1.0	
	Fine	Moderate	06:04	06:07	9.5	Bottom	8.5	26.2	7.8	29.88	82.7	5.65		1.59		<1.0	
20/5/2025	Cloudy	Moderate	09:07	09:09	9.5	Surface	1.0	27.7	8.1	25.02	130.5	8.93	8.2	1.26	2.4	2.0	2.3
	Cloudy	Moderate	09:07	09:09	9.5	Surface	1.0	27.7	8.1	25.03	130.1	8.90		1.23		2.0	
	Cloudy	Moderate	09:07	09:09	9.5	Middle	4.8	27.3	7.9	27.48	111.0	7.54		1.27		2.4	
	Cloudy	Moderate	09:07	09:09	9.5	Middle	4.8	27.3	8.0	27.48	111.1	7.54		1.31		2.5	
	Cloudy	Moderate	09:07	09:09	9.5	Bottom	8.5	26.4	7.8	30.72	68.8	4.66	4.7	4.73		2.1	
	Cloudy	Moderate	09:07	09:09	9.5	Bottom	8.5	26.4	7.8	30.73	68.9	4.67		4.48		2.8	
22/5/2025	Sunny	Moderate	13:35	13:37	9.9	Surface	1.0	29.3	8.4	21.41	189.5	12.88	10.9	1.74	3.0	2.4	2.0
	Sunny	Moderate	13:35	13:37	9.9	Surface	1.0	29.3	8.4	21.39	188.7	12.82		1.77		1.6	
	Sunny	Moderate	13:35	13:37	9.9	Middle	5.0	27.1	8.1	27.67	132.3	9.01		1.67		2.9	
	Sunny	Moderate	13:35	13:37	9.9	Middle	5.0	27.1	8.1	27.79	130.6	8.89		1.66		1.6	
	Sunny	Moderate	13:35	13:37	9.9	Bottom	8.9	27.1	8.0	28.15	110.3	7.49	7.4	5.64		1.5	
	Sunny	Moderate	13:35	13:37	9.9	Bottom	8.9	27.1	8.0	28.28	109.0	7.40		5.64		1.9	
24/5/2025	Cloudy	Moderate	16:00	16:03	10.0	Surface	1.0	28.7	8.2	22.08	133.7	9.14	8.4	1.06	2.3	1.6	1.5
	Cloudy	Moderate	16:00	16:03	10.0	Surface	1.0	28.7	8.2	22.08	133.2	9.11		1.07		1.4	
	Cloudy	Moderate	16:00	16:03	10.0	Middle	5.0	27.8	8.1	25.77	114.5	7.79		1.09		1.5	
	Cloudy	Moderate	16:00	16:03	10.0	Middle	5.0	27.7	8.1	25.86	113.5	7.74		1.33		1.4	
	Cloudy	Moderate	16:00	16:03	10.0	Bottom	9.0	26.9	7.9	28.50	77.7	5.29	5.3	4.54		1.6	
	Cloudy	Moderate	16:00	16:03	10.0	Bottom	9.0	26.9	7.9	28.50	78.1	5.32		4.92		1.4	
27/5/2025	Cloudy	Moderate	05:29	05:31	9.5	Surface	1.0	26.3	8.0	27.41	96.9	6.70	6.3	1.42	2.1	1.2	1.1
	Cloudy	Moderate	05:29	05:31	9.5	Surface	1.0	26.3	8.0	27.41	96.7	6.69		1.41		1.2	
	Cloudy	Moderate	05:29	05:31	9.5	Middle	4.8	26.2	8.0	27.75	85.2	5.89		2.31		1.2	
	Cloudy	Moderate	05:29	05:31	9.5	Middle	4.8	26.2	8.0	27.74	85.1	5.88		2.37		1.0	
	Cloudy	Moderate	05:29	05:31	9.5	Bottom	8.5	26.0	7.8	28.34	65.8	4.55	4.6	2.41		1.0	
	Cloudy	Moderate	05:29	05:31	9.5	Bottom	8.5	26.0	7.8	28.36	66.0	4.56		2.41		<1.0	

Station: SR4
Tide: Ebb tide

Date (dd/mm/yyyy)	Weather Condition	Sea Condition	Sampling Time		Water Depth m	Level	Sampling depth m	Water Temperature °C	pH Value	Salinity ppt	Dissolved Oxygen %	Dissolved Oxygen mg/L	Depth Average mg/L	Turbidity NTU	Depth Average NTU	TSS mg/L	Depth Average mg/L
3/5/2025	Sunny	Moderate	16:46	16:49	3.5	Surface	1.0	25.3	8.1	29.31	144.6	10.06	10.1	1.35	1.4	4.5	4.1
	Sunny	Moderate	16:46	16:49	3.5	Surface	1.0	25.3	8.1	29.31	144.4	10.05		1.39		4.2	
	Sunny	Moderate	16:46	16:49	3.5	Bottom	2.5	24.9	8.0	29.39	112.5	7.88	7.9	1.47		3.7	
	Sunny	Moderate	16:46	16:49	3.5	Bottom	2.5	24.9	8.0	29.39	112.5	7.88		1.49		3.8	
6/5/2025	Cloudy	Moderate	08:34	08:37	3.3	Surface	1.0	26.1	8.2	28.85	155.4	10.70	10.7	1.82	1.8	<1.0	1.0
	Cloudy	Moderate	08:34	08:37	3.3	Surface	1.0	26.1	8.2	28.85	155.3	10.70		1.84		<1.0	
	Cloudy	Moderate	08:34	08:37	3.3	Bottom	2.3	25.9	8.2	28.91	148.3	10.23	10.2	1.72		1.1	
	Cloudy	Moderate	08:34	08:37	3.3	Bottom	2.3	25.9	8.2	28.91	147.9	10.21		1.72		<1.0	
8/5/2025	Cloudy	Moderate	09:38	09:41	3.3	Surface	1.0	26.2	8.0	28.48	96.1	6.67	6.7	1.46	1.5	1.3	1.5
	Cloudy	Moderate	09:38	09:41	3.3	Surface	1.0	26.2	8.0	28.48	96.1	6.67		1.48		1.6	
	Cloudy	Moderate	09:38	09:41	3.3	Bottom	2.3	25.7	8.0	28.48	95.7	6.64	6.6	1.46		1.3	
	Cloudy	Moderate	09:38	09:41	3.3	Bottom	2.3	25.7	8.0	28.48	95.7	6.64		1.40		1.8	
10/5/2025	Cloudy	Moderate	10:33	10:36	3.4	Surface	1.0	24.6	8.1	30.46	94.7	6.62	6.6	1.36	1.9	4.0	4.3
	Cloudy	Moderate	10:33	10:36	3.4	Surface	1.0	24.6	8.1	30.46	94.7	6.62		1.38		4.2	
	Cloudy	Moderate	10:33	10:36	3.4	Bottom	2.4	24.7	8.1	32.96	92.3	6.36	6.4	2.43		4.4	
	Cloudy	Moderate	10:33	10:36	3.4	Bottom	2.4	24.7	8.1	32.96	92.3	6.36		2.48		4.6	
13/5/2025	Sunny	Moderate	12:13	12:15	3.5	Surface	1.0	25.7	8.0	29.81	105.7	7.28	7.3	0.42	0.7	1.5	2.5
	Sunny	Moderate	12:13	12:15	3.5	Surface	1.0	25.7	8.0	29.81	105.6	7.27		0.49		2.4	
	Sunny	Moderate	12:13	12:15	3.5	Bottom	2.5	25.4	8.0	29.84	102.0	7.06	7.1	0.92		3.3	
	Sunny	Moderate	12:13	12:15	3.5	Bottom	2.5	25.4	8.0	29.84	102.0	7.07		0.94		2.8	
15/5/2025	Sunny	Moderate	13:06	13:08	3.4	Surface	1.0	26.0	8.0	29.93	103.4	7.08	7.1	1.71	2.8	1.3	1.2
	Sunny	Moderate	13:06	13:08	3.4	Surface	1.0	26.0	8.0	29.93	103.4	7.08		1.73		1.1	
	Sunny	Moderate	13:06	13:08	3.4	Bottom	2.4	25.7	7.9	30.10	89.6	6.17	6.2	3.92		<1.0	
	Sunny	Moderate	13:06	13:08	3.4	Bottom	2.4	25.7	7.9	30.10	89.6	6.17		3.94		1.2	
17/5/2025	Sunny	Calm	14:35	14:38	3.5	Surface	1.0	26.8	7.9	29.70	92.3	6.24	6.2	1.62	1.5	<1.0	1.0
	Sunny	Calm	14:35	14:38	3.5	Surface	1.0	26.8	7.9	29.70	92.3	6.24		1.63		<1.0	
	Sunny	Calm	14:35	14:38	3.5	Bottom	2.5	26.8	7.9	29.74	92.8	6.29	6.3	1.41		<1.0	
	Sunny	Calm	14:35	14:38	3.5	Bottom	2.5	26.8	7.9	29.74	92.8	6.28		1.43		<1.0	
20/5/2025	Cloudy	Moderate	16:53	16:55	5.5	Surface	1.0	27.8	8.1	26.40	143.9	9.76	9.8	1.23	2.8	3.1	2.8
	Cloudy	Moderate	16:53	16:55	5.5	Surface	1.0	27.8	8.1	26.40	143.9	9.76		1.23		2.9	
	Cloudy	Moderate	16:53	16:55	5.5	Bottom	4.5	27.6	7.9	28.38	85.9	5.78	5.9	4.37		2.5	
	Cloudy	Moderate	16:53	16:55	5.5	Bottom	4.5	27.6	7.9	28.38	89.4	6.02		4.37		2.7	
22/5/2025	Sunny	Moderate	08:45	08:47	5.8	Surface	1.0	29.4	8.3	21.76	162.5	11.02	11.0	1.75	3.1	3.3	2.9
	Sunny	Moderate	08:45	08:47	5.8	Surface	1.0	29.4	8.3	21.76	161.6	10.95		1.81		2.7	
	Sunny	Moderate	08:45	08:47	5.8	Bottom	4.8	27.1	7.8	28.68	71.1	4.81	4.8	4.23		2.7	
	Sunny	Moderate	08:45	08:47	5.8	Bottom	4.8	27.1	7.8	28.67	71.4	4.84		4.49		2.8	
24/5/2025	Cloudy	Moderate	09:48	09:50	5.9	Surface	1.0	28.0	8.1	25.75	133.1	9.02	9.0	1.13	3.5	1.4	1.4
	Cloudy	Moderate	09:48	09:50	5.9	Surface	1.0	28.1	8.1	25.75	132.4	8.97		1.14		1.4	
	Cloudy	Moderate	09:48	09:50	5.9	Bottom	4.9	27.4	7.9	27.54	93.6	6.35	6.4	5.81		1.6	
	Cloudy	Moderate	09:48	09:50	5.9	Bottom	4.9	27.4	7.9	27.54	93.6	6.35		5.81		1.3	
27/5/2025	Cloudy	Moderate	12:10	12:12	5.4	Surface	1.0	26.5	7.9	27.46	85.8	5.91	5.9	2.68	2.7	1.0	1.0
	Cloudy	Moderate	12:10	12:12	5.4	Surface	1.0	26.5	7.9	27.46	85.5	5.90		2.75		1.0	
	Cloudy	Moderate	12:10	12:12	5.4	Bottom	4.4	26.2	7.9	27.68	78.2	5.41	5.4	2.67		<1.0	
	Cloudy	Moderate	12:10	12:12	5.4	Bottom	4.4	26.2	7.9	27.68	78.4	5.42		2.67		<1.0	
29/5/2025	Cloudy	Moderate	13:30	13:34	3.5	Surface	1.0	26.2	7.9	28.09	84.2	5.81	5.8	0.54	0.7	3.6	3.4
	Cloudy	Moderate	13:30	13:34	3.5	Surface	1.0	26.2	7.9	28.08	84.2	5.81		0.61		3.3	
	Cloudy	Moderate	13:30	13:34	3.5	Bottom	2.5	26.1	7.9	28.20	82.5	5.70	5.7	0.94		3.4	
	Cloudy	Moderate	13:30	13:34	3.5	Bottom	2.5	26.1	7.9	28.20	82.5	5.71		0.87		3.2	

Station: SR4
Tide: Flood tide

Date (dd/mm/yyyy)	Weather Condition	Sea Condition	Sampling Time		Water Depth m	Level	Sampling depth m	Water Temperature °C	pH Value	Salinity ppt	Dissolved Oxygen %	Dissolved Oxygen mg/L	Depth Average mg/L	Turbidity NTU	Depth Average NTU	TSS mg/L	Depth Average mg/L
3/5/2025	Fine	Moderate	08:32	08:35	3.8	Surface	1.0	25.0	7.9	29.21	107.6	7.53	7.5	1.11	1.5	4.3	4.0
	Fine	Moderate	08:32	08:35	3.8	Surface	1.0	25.0	7.9	29.21	107.5	7.52		1.10		4.4	
	Fine	Moderate	08:32	08:35	3.8	Bottom	2.8	24.3	7.8	29.77	95.7	6.76	6.8	1.81		3.4	
	Fine	Moderate	08:32	08:35	3.8	Bottom	2.8	24.3	7.8	29.79	95.5	6.75		1.82		3.7	
6/5/2025	Cloudy	Moderate	13:23	13:26	3.4	Surface	1.0	27.0	8.2	28.77	156.9	10.64	10.6	1.08	1.4	<1.0	1.0
	Cloudy	Moderate	13:23	13:26	3.4	Surface	1.0	27.0	8.2	28.77	156.9	10.64		1.09		<1.0	
	Cloudy	Moderate	13:23	13:26	3.4	Bottom	2.4	25.8	8.1	28.93	143.4	9.91	9.9	1.67		<1.0	
	Cloudy	Moderate	13:23	13:26	3.4	Bottom	2.4	25.8	8.1	28.93	143.1	9.89		1.68		<1.0	
8/5/2025	Cloudy	Moderate	15:47	15:50	3.2	Surface	1.0	26.6	8.0	28.39	100.3	6.87	6.9	1.61	1.9	<1.0	1.1
	Cloudy	Moderate	15:47	15:50	3.2	Surface	1.0	26.6	8.0	28.38	100.3	6.87		1.63		1.0	
	Cloudy	Moderate	15:47	15:50	3.2	Bottom	2.2	26.1	8.0	28.45	98.5	6.80	6.8	2.23		1.2	
	Cloudy	Moderate	15:47	15:50	3.2	Bottom	2.2	26.0	8.0	28.46	98.5	6.80		2.26		1.2	
10/5/2025	Cloudy	Moderate	17:23	17:25	3.1	Surface	1.0	24.7	8.2	31.25	94.6	6.59	6.6	2.03	2.6	4.2	4.1
	Cloudy	Moderate	17:23	17:25	3.1	Surface	1.0	24.7	8.2	31.23	94.6	6.58		2.05		3.8	
	Cloudy	Moderate	17:23	17:25	3.1	Bottom	2.1	24.5	8.1	33.30	91.1	6.27	6.3	3.09		4.5	
	Cloudy	Moderate	17:23	17:25	3.1	Bottom	2.1	24.5	8.1	33.30	91.1	6.27		3.11		3.8	
13/5/2025	Fine	Moderate	05:20	05:24	3.1	Surface	1.0	25.5	8.0	29.79	105.1	7.27	7.3	1.91	2.1	2.1	2.0
	Fine	Moderate	05:20	05:24	3.1	Surface	1.0	25.5	8.0	29.79	105.1	7.27		1.94		2.4	
	Fine	Moderate	05:20	05:24	3.1	Bottom	2.1	25.4	8.0	29.85	101.6	7.04	7.0	2.22		1.5	
	Fine	Moderate	05:20	05:24	3.1	Bottom	2.1	25.4	8.0	29.85	101.7	7.04		2.26		1.8	
15/5/2025	Fine	Moderate	05:23	05:26	3.1	Surface	1.0	26.1	7.9	29.81	100.2	6.86	6.9	1.63	2.5	<1.0	1.0
	Fine	Moderate	05:23	05:26	3.1	Surface	1.0	26.1	7.9	29.82	100.2	6.86		1.65		<1.0	
	Fine	Moderate	05:23	05:26	3.1	Bottom	2.1	25.8	7.9	29.95	91.5	6.28	6.3	3.29		<1.0	
	Fine	Moderate	05:23	05:26	3.1	Bottom	2.1	25.8	7.9	29.95	91.6	6.29		3.27		<1.0	
17/5/2025	Fine	Moderate	06:24	06:28	3.3	Surface	1.0	26.8	7.9	29.47	90.3	6.12	6.1	1.22	1.4	<1.0	1.0
	Fine	Moderate	06:24	06:28	3.3	Surface	1.0	26.8	7.9	29.46	90.3	6.12		1.25		<1.0	
	Fine	Moderate	06:24	06:28	3.3	Bottom	2.3	26.6	7.9	29.61	91.6	6.22	6.2	1.55		<1.0	
	Fine	Moderate	06:24	06:28	3.3	Bottom	2.3	26.6	7.9	29.61	91.5	6.22		1.56		<1.0	
20/5/2025	Cloudy	Moderate	09:29	09:31	5.6	Surface	1.0	27.5	8.1	27.27	127.1	8.63	8.6	1.34	2.2	2.6	2.6
	Cloudy	Moderate	09:29	09:31	5.6	Surface	1.0	27.5	8.1	27.24	126.8	8.61		1.28		2.7	
	Cloudy	Moderate	09:29	09:31	5.6	Bottom	4.6	27.6	7.9	28.73	86.1	5.79	5.8	3.03		2.1	
	Cloudy	Moderate	09:29	09:31	5.6	Bottom	4.6	27.5	7.9	28.79	84.9	5.71		3.17		3.1	
22/5/2025	Sunny	Moderate	13:17	13:19	5.5	Surface	1.0	29.4	8.4	22.04	182.5	12.35	12.3	1.25	2.7	3.0	3.0
	Sunny	Moderate	13:17	13:19	5.5	Surface	1.0	29.4	8.4	22.07	182.1	12.32		1.21		3.5	
	Sunny	Moderate	13:17	13:19	5.5	Bottom	4.5	27.1	7.9	28.40	90.2	6.11	6.1	4.24		3.0	
	Sunny	Moderate	13:17	13:19	5.5	Bottom	4.5	27.1	7.9	28.40	90.2	6.11		4.24		2.6	
24/5/2025	Cloudy	Moderate	15:43	15:45	5.4	Surface	1.0	29.2	8.3	22.49	138.6	9.38	9.4	0.96	2.3	1.1	1.3
	Cloudy	Moderate	15:43	15:45	5.4	Surface	1.0	29.2	8.3	22.50	137.7	9.33		1.01		1.3	
	Cloudy	Moderate	15:43	15:45	5.4	Bottom	4.4	27.8	8.0	26.83	111.0	7.51	7.5	3.52		1.2	
	Cloudy	Moderate	15:43	15:45	5.4	Bottom	4.4	27.8	8.0	26.86	110.9	7.50		3.56		1.4	
27/5/2025	Cloudy	Moderate	05:48	05:50	5.5	Surface	1.0	26.4	8.0	27.40	94.2	6.51	6.5	1.78	2.4	1.3	1.4
	Cloudy	Moderate	05:48	05:50	5.5	Surface	1.0	26.4	8.0	27.40	93.9	6.49		1.77		1.9	
	Cloudy	Moderate	05:48	05:50	5.5	Bottom	4.5	26.2	7.9	27.75	78.2	5.41	5.4	2.98		1.2	
	Cloudy	Moderate	05:48	05:50	5.5	Bottom	4.5	26.2	7.9	27.72	78.2	5.41		2.98		1.1	
29/5/2025	Fine	Moderate	06:26	06:30	3.8	Surface	1.0	26.2	7.9	28.08	83.8	5.78	5.8	0.48	2.4	3.0	3.4
	Fine	Moderate	06:26	06:30	3.8	Surface	1.0	26.2	7.9	28.09	83.8	5.78		0.53		3.3	
	Fine	Moderate	06:26	06:30	3.8	Bottom	2.8	26.0	7.9	28.28	76.4	5.29	5.3	4.13		4.0	
	Fine	Moderate	06:26	06:30	3.8	Bottom	2.8	26.0	7.9	28.29	76.5	5.29		4.40		3.4	

Station: SR5
Tide: Ebb tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Sunny	Moderate	16:36	16:40	4.9	Surface	1.0	24.9	8.0	29.40	112.2	7.87	7.9	3.12	3.5	5.0	4.0
	Sunny	Moderate	16:36	16:40	4.9	Surface	1.0	24.9	8.0	29.40	112.2	7.86		3.15		4.9	
	Sunny	Moderate	16:36	16:40	4.9	Bottom	3.9	24.2	7.9	29.88	87.3	6.17	6.2	3.86		3.2	
	Sunny	Moderate	16:36	16:40	4.9	Bottom	3.9	24.2	7.9	29.88	87.6	6.19		3.88		3.0	
6/5/2025	Cloudy	Moderate	08:42	08:45	4.8	Surface	1.0	26.6	8.2	28.77	154.3	10.54	10.6	1.84	1.8	<1.0	1.1
	Cloudy	Moderate	08:42	08:45	4.8	Surface	1.0	26.6	8.2	28.77	154.6	10.56		1.83		1.4	
	Cloudy	Moderate	08:42	08:45	4.8	Bottom	3.8	26.1	8.2	28.86	153.1	10.54	10.5	1.71		<1.0	
	Cloudy	Moderate	08:42	08:45	4.8	Bottom	3.8	26.1	8.2	28.86	153.1	10.54		1.73		<1.0	
8/5/2025	Cloudy	Moderate	09:48	09:50	5.1	Surface	1.0	26.4	8.0	28.38	99.3	6.82	6.8	1.16	1.4	<1.0	1.0
	Cloudy	Moderate	09:48	09:50	5.1	Surface	1.0	26.4	8.0	28.38	99.3	6.81		1.18		<1.0	
	Cloudy	Moderate	09:48	09:50	5.1	Bottom	4.1	26.3	8.0	28.41	98.3	6.76	6.8	1.72		1.0	
	Cloudy	Moderate	09:48	09:50	5.1	Bottom	4.1	26.3	8.0	28.41	98.3	6.76		1.72		<1.0	
10/5/2025	Cloudy	Moderate	10:42	10:45	5.0	Surface	1.0	24.6	8.1	30.87	92.4	6.45	6.4	1.34	1.3	4.1	4.2
	Cloudy	Moderate	10:42	10:45	5.0	Surface	1.0	24.6	8.1	30.87	92.3	6.44		1.39		4.0	
	Cloudy	Moderate	10:42	10:45	5.0	Bottom	4.0	24.6	8.2	33.31	90.7	6.25	6.3	1.22		4.4	
	Cloudy	Moderate	10:42	10:45	5.0	Bottom	4.0	24.6	8.2	33.31	90.8	6.25		1.28		4.1	
13/5/2025	Sunny	Moderate	12:05	12:08	5.9	Surface	1.0	25.7	8.0	29.71	109.8	7.58	7.6	0.64	0.6	2.1	2.1
	Sunny	Moderate	12:05	12:08	5.9	Surface	1.0	25.7	8.0	29.71	109.8	7.58		0.67		2.2	
	Sunny	Moderate	12:05	12:08	5.9	Bottom	4.9	25.5	8.0	29.78	106.6	7.38	7.4	0.58		2.0	
	Sunny	Moderate	12:05	12:08	5.9	Bottom	4.9	25.5	8.0	29.78	106.5	7.37		0.60		2.0	
15/5/2025	Sunny	Moderate	12:57	13:01	5.0	Surface	1.0	26.9	8.0	29.90	108.9	7.35	7.4	1.37	2.1	2.1	1.7
	Sunny	Moderate	12:57	13:01	5.0	Surface	1.0	26.9	8.0	29.90	108.8	7.35		1.36		1.8	
	Sunny	Moderate	12:57	13:01	5.0	Bottom	4.0	25.8	7.9	30.04	92.9	6.39	6.4	2.90		1.8	
	Sunny	Moderate	12:57	13:01	5.0	Bottom	4.0	25.8	7.9	30.04	92.9	6.39		2.86		1.2	
17/5/2025	Sunny	Calm	14:25	14:28	4.9	Surface	1.0	26.7	7.9	29.53	93.9	6.37	6.4	1.63	1.6	<1.0	1.0
	Sunny	Calm	14:25	14:28	4.9	Surface	1.0	26.7	7.9	29.53	93.9	6.37		1.66		<1.0	
	Sunny	Calm	14:25	14:28	4.9	Bottom	3.9	26.7	7.9	29.85	92.4	6.26	6.3	1.52		<1.0	
	Sunny	Calm	14:25	14:28	4.9	Bottom	3.9	26.7	7.9	29.85	92.4	6.26		1.56		<1.0	
20/5/2025	Cloudy	Moderate	16:45	16:47	5.4	Surface	1.0	27.7	8.2	26.62	143.6	9.74	9.7	1.21	1.3	3.0	3.0
	Cloudy	Moderate	16:45	16:47	5.4	Surface	1.0	27.6	8.2	26.72	143.4	9.73		1.19		3.3	
	Cloudy	Moderate	16:45	16:47	5.4	Bottom	4.4	27.4	8.0	27.91	108.1	7.31	7.1	1.46		2.9	
	Cloudy	Moderate	16:45	16:47	5.4	Bottom	4.4	27.5	8.0	27.85	103.1	6.97		1.44		2.6	
22/5/2025	Sunny	Moderate	08:44	08:46	5.4	Surface	1.0	29.3	8.3	22.27	168.9	11.43	11.4	1.34	2.4	2.8	2.3
	Sunny	Moderate	08:44	08:46	5.4	Surface	1.0	29.3	8.3	22.24	167.8	11.35		1.31		2.1	
	Sunny	Moderate	08:44	08:46	5.4	Bottom	4.4	27.1	7.9	28.53	81.7	5.53	5.5	3.42		2.0	
	Sunny	Moderate	08:44	08:46	5.4	Bottom	4.4	27.1	7.9	28.53	81.7	5.53		3.42		2.3	
24/5/2025	Cloudy	Moderate	09:52	09:54	5.8	Surface	1.0	28.4	8.2	24.43	134.6	9.15	9.2	1.49	3.3	1.4	1.4
	Cloudy	Moderate	09:52	09:54	5.8	Surface	1.0	28.4	8.2	24.43	134.6	9.15		1.49		1.6	
	Cloudy	Moderate	09:52	09:54	5.8	Bottom	4.8	27.3	7.8	27.73	75.9	5.15	5.2	5.03		1.3	
	Cloudy	Moderate	09:52	09:54	5.8	Bottom	4.8	27.3	7.8	27.73	75.9	5.15		5.03		1.3	
27/5/2025	Cloudy	Moderate	11:57	11:59	5.2	Surface	1.0	26.4	7.9	27.46	85.8	5.92	5.9	2.92	2.7	1.2	1.1
	Cloudy	Moderate	11:57	11:59	5.2	Surface	1.0	26.4	7.9	27.47	85.6	5.90		2.98		1.1	
	Cloudy	Moderate	11:57	11:59	5.2	Bottom	4.2	26.2	7.9	27.69	79.4	5.49	5.5	2.21		<1.0	
	Cloudy	Moderate	11:57	11:59	5.2	Bottom	4.2	26.2	7.9	27.70	79.6	5.50		2.55		1.1	
29/5/2025	Cloudy	Moderate	13:21	13:24	4.9	Surface	1.0	26.6	7.9	27.94	85.4	5.85	5.9	1.25	1.4	3.6	3.4
	Cloudy	Moderate	13:21	13:24	4.9	Surface	1.0	26.6	7.9	27.95	85.3	5.85		1.26		2.7	
	Cloudy	Moderate	13:21	13:24	4.9	Bottom	3.9	26.1	7.9	28.17	80.4	5.55	5.6	1.61		3.7	
	Cloudy	Moderate	13:21	13:24	4.9	Bottom	3.9	26.1	7.9	28.17	80.4	5.55		1.64		3.5	

Station: SR5
Tide: Flood tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Fine	Moderate	08:39	08:42	5.2	Surface	1.0	25.2	8.0	29.32	135.2	9.42	9.4	1.16	1.1	3.4	3.6
	Fine	Moderate	08:39	08:42	5.2	Surface	1.0	25.2	7.9	29.33	135.3	9.44		1.14		3.6	
	Fine	Moderate	08:39	08:42	5.2	Bottom	4.2	25.0	7.9	29.38	119.7	8.37	8.4	1.07		3.5	
	Fine	Moderate	08:39	08:42	5.2	Bottom	4.2	25.0	7.9	29.37	119.7	8.37		1.07		3.9	
6/5/2025	Cloudy	Moderate	13:14	13:17	4.9	Surface	1.0	26.8	8.2	28.82	159.4	10.84	10.8	1.14	1.3	1.3	1.7
	Cloudy	Moderate	13:14	13:17	4.9	Surface	1.0	26.8	8.2	28.82	159.4	10.84		1.16		1.4	
	Cloudy	Moderate	13:14	13:17	4.9	Bottom	3.9	26.1	8.2	28.87	152.2	10.48	10.5	1.41		2.0	
	Cloudy	Moderate	13:14	13:17	4.9	Bottom	3.9	26.1	8.2	28.87	151.9	10.46		1.43		1.9	
8/5/2025	Cloudy	Moderate	15:39	15:41	4.8	Surface	1.0	26.5	8.0	28.40	99.9	6.85	6.9	1.31	2.2	<1.0	1.0
	Cloudy	Moderate	15:39	15:41	4.8	Surface	1.0	26.3	8.0	28.42	99.9	6.87		1.38		<1.0	
	Cloudy	Moderate	15:39	15:41	4.8	Bottom	3.8	25.7	8.0	28.47	95.5	6.63	6.6	3.04		<1.0	
	Cloudy	Moderate	15:39	15:41	4.8	Bottom	3.8	25.7	8.0	28.47	95.6	6.63		3.11		<1.0	
10/5/2025	Cloudy	Moderate	17:13	17:16	4.9	Surface	1.0	24.7	8.1	32.04	89.1	6.19	6.2	2.47	2.4	3.7	4.0
	Cloudy	Moderate	17:13	17:16	4.9	Surface	1.0	24.7	8.1	32.04	89.0	6.18		2.49		4.0	
	Cloudy	Moderate	17:13	17:16	4.9	Bottom	3.9	24.6	8.1	32.25	88.3	6.11	6.1	2.26		3.9	
	Cloudy	Moderate	17:13	17:16	4.9	Bottom	3.9	24.6	8.1	32.25	88.3	6.11		2.27		4.2	
13/5/2025	Fine	Moderate	05:27	05:30	4.6	Surface	1.0	25.5	8.0	29.78	104.9	7.26	7.3	1.17	0.9	2.6	2.2
	Fine	Moderate	05:27	05:30	4.6	Surface	1.0	25.5	8.0	29.78	104.9	7.26		1.18		1.7	
	Fine	Moderate	05:27	05:30	4.6	Bottom	3.6	25.3	7.9	29.89	94.8	6.57	6.6	0.56		2.8	
	Fine	Moderate	05:27	05:30	4.6	Bottom	3.6	25.3	7.9	29.90	94.8	6.57		0.64		1.5	
15/5/2025	Fine	Moderate	05:35	05:38	4.8	Surface	1.0	26.3	7.9	29.81	98.9	6.75	6.8	1.54	2.2	1.4	1.2
	Fine	Moderate	05:35	05:38	4.8	Surface	1.0	26.3	7.9	29.81	98.9	6.75		1.59		1.0	
	Fine	Moderate	05:35	05:38	4.8	Bottom	3.8	26.2	7.9	29.81	101.4	6.93	6.9	2.75		1.3	
	Fine	Moderate	05:35	05:38	4.8	Bottom	3.8	26.2	7.9	29.82	101.5	6.93		2.76		1.2	
17/5/2025	Fine	Moderate	06:32	06:35	4.7	Surface	1.0	26.8	7.9	29.52	91.6	6.20	6.2	1.61	1.6	<1.0	1.0
	Fine	Moderate	06:32	06:35	4.7	Surface	1.0	26.8	7.9	29.53	91.7	6.21		1.61		<1.0	
	Fine	Moderate	06:32	06:35	4.7	Bottom	3.7	26.6	7.9	29.68	92.6	6.29	6.3	1.49		<1.0	
	Fine	Moderate	06:32	06:35	4.7	Bottom	3.7	26.6	7.9	29.68	92.5	6.29		1.50		<1.0	
20/5/2025	Cloudy	Moderate	09:35	09:37	5.5	Surface	1.0	27.6	8.1	26.67	133.1	9.04	9.0	1.39	1.6	2.6	2.8
	Cloudy	Moderate	09:35	09:37	5.5	Surface	1.0	27.6	8.1	26.82	132.3	8.99		1.39		2.5	
	Cloudy	Moderate	09:35	09:37	5.5	Bottom	4.5	27.5	7.9	28.52	93.3	6.28	6.3	1.76		2.9	
	Cloudy	Moderate	09:35	09:37	5.5	Bottom	4.5	27.5	7.9	28.54	93.2	6.27		1.81		3.1	
22/5/2025	Sunny	Moderate	13:08	13:10	5.2	Surface	1.0	29.0	8.3	22.31	177.4	12.05	12.0	1.42	2.1	2.6	3.0
	Sunny	Moderate	13:08	13:10	5.2	Surface	1.0	29.1	8.3	22.26	176.6	11.99		1.38		2.7	
	Sunny	Moderate	13:08	13:10	5.2	Bottom	4.2	27.1	7.9	28.55	83.5	5.66	5.7	2.54		4.5	
	Sunny	Moderate	13:08	13:10	5.2	Bottom	4.2	27.1	7.9	28.55	83.9	5.68		2.93		2.2	
24/5/2025	Cloudy	Moderate	15:37	15:39	5.7	Surface	1.0	29.1	8.3	22.64	140.2	9.50	9.5	0.91	2.1	1.3	1.3
	Cloudy	Moderate	15:37	15:39	5.7	Surface	1.0	29.1	8.3	22.64	140.1	9.49		0.90		1.4	
	Cloudy	Moderate	15:37	15:39	5.7	Bottom	4.7	27.4	7.9	27.57	89.8	6.09	6.1	3.19		<1.0	
	Cloudy	Moderate	15:37	15:39	5.7	Bottom	4.7	27.4	7.9	27.64	90.1	6.11		3.33		1.3	
27/5/2025	Cloudy	Moderate	06:00	06:02	5.2	Surface	1.0	26.4	8.0	27.40	94.5	6.53	6.5	1.91	2.1	1.3	1.2
	Cloudy	Moderate	06:00	06:02	5.2	Surface	1.0	26.4	8.0	27.39	94.2	6.51		1.97		1.3	
	Cloudy	Moderate	06:00	06:02	5.2	Bottom	4.2	26.2	7.9	27.75	77.9	5.39	5.4	2.26		1.1	
	Cloudy	Moderate	06:00	06:02	5.2	Bottom	4.2	26.2	7.9	27.76	78.1	5.40		2.26		1.1	
29/5/2025	Fine	Moderate	06:35	06:38	5.2	Surface	1.0	26.2	7.9	28.07	84.7	5.84	5.8	1.45	1.5	3.7	3.6
	Fine	Moderate	06:35	06:38	5.2	Surface	1.0	26.2	7.9	28.07	84.6	5.84		1.48		3.6	
	Fine	Moderate	06:35	06:38	5.2	Bottom	4.2	26.2	7.9	28.09	84.0	5.80	5.8	1.52		3.5	
	Fine	Moderate	06:35	06:38	5.2	Bottom	4.2	26.2	7.9	28.10	83.7	5.78		1.56		3.5	

Station: SR6
Tide: Ebb tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Sunny	Moderate	16:25	16:28	2.4	Middle	1.2	25.2	8.1	29.31	144.6	10.07	10.1	1.14	1.1	3.9	4.2
	Sunny	Moderate	16:25	16:28	2.4	Middle	1.2	25.2	8.1	29.32	144.6	10.07		1.15		4.5	
6/5/2025	Cloudy	Moderate	08:55	08:57	2.3	Middle	1.2	25.9	8.2	28.97	149.1	10.29	10.3	1.74	1.7	<1.0	1.0
	Cloudy	Moderate	08:55	08:57	2.3	Middle	1.2	25.9	8.2	28.97	148.7	10.27		1.74		<1.0	
8/5/2025	Cloudy	Moderate	09:56	09:58	2.7	Middle	1.4	26.4	8.0	28.26	105.1	7.22	7.2	2.73	2.7	<1.0	1.0
	Cloudy	Moderate	09:56	09:58	2.7	Middle	1.4	26.4	8.0	28.27	105.1	7.22		2.76		<1.0	
10/5/2025	Cloudy	Moderate	10:51	10:54	2.7	Middle	1.4	24.6	8.1	31.11	94.2	6.56	6.6	2.15	2.2	3.0	3.6
	Cloudy	Moderate	10:51	10:54	2.7	Middle	1.4	24.6	8.1	31.12	94.1	6.56		2.15		4.1	
13/5/2025	Sunny	Moderate	11:58	12:00	2.7	Middle	1.4	25.5	8.0	29.79	103.5	7.16	7.2	1.41	1.4	2.2	2.5
	Sunny	Moderate	11:58	12:00	2.7	Middle	1.4	25.5	7.9	29.80	103.5	7.17		1.43		2.7	
15/5/2025	Sunny	Moderate	12:45	12:48	2.7	Middle	1.4	26.8	8.0	29.90	108.6	7.34	7.3	1.73	1.7	<1.0	1.0
	Sunny	Moderate	12:45	12:48	2.7	Middle	1.4	26.8	8.0	29.90	108.6	7.34		1.76		<1.0	
17/5/2025	Sunny	Calm	14:17	14:20	2.8	Middle	1.4	26.7	7.9	29.54	94.2	6.40	6.4	2.05	2.1	<1.0	1.0
	Sunny	Calm	14:17	14:20	2.8	Middle	1.4	26.7	7.9	29.54	94.2	6.40		2.06		<1.0	
20/5/2025	Cloudy	Moderate	16:36	16:37	2.7	Middle	1.4	27.5	8.2	27.18	148.1	10.04	10.0	1.66	1.7	2.6	2.7
	Cloudy	Moderate	16:36	16:37	2.7	Middle	1.4	27.6	8.2	27.16	147.9	10.03		1.68		2.7	
22/5/2025	Sunny	Moderate	09:07	09:09	2.5	Middle	1.3	29.4	8.3	22.52	168.5	11.36	11.3	1.21	1.2	3.0	2.8
	Sunny	Moderate	09:07	09:09	2.5	Middle	1.3	29.4	8.3	22.56	168.1	11.33		1.25		2.6	
24/5/2025	Cloudy	Moderate	10:01	10:03	2.5	Middle	1.3	28.3	8.2	24.74	129.0	8.76	8.8	0.95	1.0	1.2	1.4
	Cloudy	Moderate	10:01	10:03	2.5	Middle	1.3	28.3	8.2	24.74	129.0	8.76		0.95		1.6	
27/5/2025	Cloudy	Moderate	11:44	11:46	2.6	Middle	1.3	26.3	8.0	27.38	100.6	6.96	7.0	1.22	1.2	<1.0	1.0
	Cloudy	Moderate	11:44	11:46	2.6	Middle	1.3	26.3	8.0	27.38	100.3	6.94		1.21		1.0	
29/5/2025	Cloudy	Moderate	13:12	13:15	2.7	Middle	1.4	26.5	7.9	27.99	85.8	5.90	5.9	2.93	3.0	3.8	3.9
	Cloudy	Moderate	13:12	13:15	2.7	Middle	1.4	26.5	7.9	27.99	85.8	5.90		2.98		4.0	

Station: SR6
Tide: Flood tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Fine	Moderate	08:46	08:49	2.7	Middle	1.4	25.0	8.0	29.17	128.4	8.98	9.0	2.23	2.2	4.0	4.0
	Fine	Moderate	08:46	08:49	2.7	Middle	1.4	25.0	8.0	29.17	128.5	8.99		2.25		3.9	
6/5/2025	Cloudy	Moderate	13:05	13:08	2.6	Middle	1.3	26.9	8.2	28.82	159.3	10.82	10.8	1.13	1.1	1.2	1.1
	Cloudy	Moderate	13:05	13:08	2.6	Middle	1.3	26.9	8.2	28.82	159.2	10.82		1.16		<1.0	
8/5/2025	Cloudy	Moderate	15:31	15:33	2.5	Middle	1.3	26.4	8.0	28.40	100.3	6.89	6.9	1.23	1.2	<1.0	1.1
	Cloudy	Moderate	15:31	15:33	2.5	Middle	1.3	26.4	8.0	28.39	100.3	6.89		1.25		1.1	
10/5/2025	Cloudy	Moderate	17:02	17:05	2.4	Middle	1.2	24.7	8.1	31.30	89.8	6.25	6.3	2.58	2.6	4.4	4.3
	Cloudy	Moderate	17:02	17:05	2.4	Middle	1.2	24.7	8.1	31.37	89.8	6.25		2.59		4.2	
13/5/2025	Fine	Moderate	05:42	05:45	2.3	Middle	1.2	25.5	8.0	29.78	106.3	7.35	7.4	1.34	1.4	2.1	3.0
	Fine	Moderate	05:42	05:45	2.3	Middle	1.2	25.5	8.0	29.78	106.2	7.35		1.36		3.9	
15/5/2025	Fine	Moderate	05:44	05:46	2.6	Middle	1.3	27.0	7.9	29.90	101.4	6.83	6.8	2.42	2.4	<1.0	1.0
	Fine	Moderate	05:44	05:46	2.6	Middle	1.3	27.0	7.9	29.90	101.4	6.84		2.43		<1.0	
17/5/2025	Fine	Moderate	06:46	06:48	2.5	Middle	1.3	26.9	7.9	29.51	93.1	6.30	6.3	1.78	1.8	<1.0	1.0
	Fine	Moderate	06:46	06:48	2.5	Middle	1.3	26.9	7.9	29.51	93.1	6.30		1.78		<1.0	
20/5/2025	Cloudy	Moderate	09:43	09:45	2.7	Middle	1.4	27.6	8.1	26.72	137.9	9.37	9.4	1.29	1.3	2.5	2.7
	Cloudy	Moderate	09:43	09:45	2.7	Middle	1.4	27.6	8.1	26.67	137.7	9.36		1.29		2.8	
22/5/2025	Sunny	Moderate	12:56	12:58	2.6	Middle	1.3	29.2	8.3	22.96	181.4	12.24	12.2	1.21	1.2	1.6	1.9
	Sunny	Moderate	12:56	12:58	2.6	Middle	1.3	29.3	8.3	23.02	181.4	12.23		1.26		2.2	
24/5/2025	Cloudy	Moderate	15:26	15:28	2.5	Middle	1.3	29.1	8.3	22.91	141.8	9.59	9.6	0.98	1.0	1.2	1.4
	Cloudy	Moderate	15:26	15:28	2.5	Middle	1.3	29.1	8.3	22.87	141.3	9.56		0.94		1.5	
27/5/2025	Cloudy	Moderate	06:15	06:17	2.3	Middle	1.2	26.2	8.0	27.32	99.1	6.87	6.9	1.28	1.3	1.1	1.1
	Cloudy	Moderate	06:15	06:17	2.3	Middle	1.2	26.2	8.0	27.32	99.0	6.86		1.24		<1.0	
29/5/2025	Fine	Moderate	06:52	06:55	2.8	Middle	1.4	26.4	7.9	27.96	83.9	5.77	5.8	0.91	0.9	3.7	3.6
	Fine	Moderate	06:52	06:55	2.8	Middle	1.4	26.4	7.9	27.98	83.8	5.77		0.94		3.4	

Station: SR9
Tide: Ebb tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Sunny	Moderate	16:12	16:15	3.5	Surface	1.0	25.3	8.0	28.97	129.5	9.03	9.0	1.11	1.1	2.8	2.9
	Sunny	Moderate	16:12	16:15	3.5	Surface	1.0	25.3	8.0	28.97	129.4	9.02		1.11		3.1	
	Sunny	Moderate	16:12	16:15	3.5	Bottom	2.5	24.7	8.0	29.13	108.5	7.63	7.6	1.19		3.0	
	Sunny	Moderate	16:12	16:15	3.5	Bottom	2.5	24.7	8.0	29.13	108.4	7.63		1.18		2.7	
6/5/2025	Cloudy	Moderate	09:11	09:14	3.4	Surface	1.0	26.7	8.2	28.82	159.3	10.87	10.9	1.81	1.7	1.3	1.1
	Cloudy	Moderate	09:11	09:14	3.4	Surface	1.0	26.5	8.2	28.86	159.0	10.87		1.86		<1.0	
	Cloudy	Moderate	09:11	09:14	3.4	Bottom	2.4	25.8	8.2	29.04	143.5	9.92	9.9	1.55		<1.0	
	Cloudy	Moderate	09:11	09:14	3.4	Bottom	2.4	25.8	8.1	29.06	143.2	9.91		1.50		1.2	
8/5/2025	Cloudy	Moderate	10:09	10:12	3.7	Surface	1.0	26.5	8.0	28.23	104.9	7.19	7.2	1.70	1.6	<1.0	1.0
	Cloudy	Moderate	10:09	10:12	3.7	Surface	1.0	26.5	8.0	28.23	104.9	7.19		1.70		<1.0	
	Cloudy	Moderate	10:09	10:12	3.7	Bottom	2.7	26.0	8.0	28.50	99.9	6.90	6.9	1.49		1.1	
	Cloudy	Moderate	10:09	10:12	3.7	Bottom	2.7	26.0	8.0	28.50	99.8	6.89		1.51		<1.0	
10/5/2025	Cloudy	Moderate	11:04	11:07	3.5	Surface	1.0	24.9	8.1	28.30	91.9	6.48	6.5	1.31	2.1	3.7	3.6
	Cloudy	Moderate	11:04	11:07	3.5	Surface	1.0	24.9	8.1	28.29	91.9	6.48		1.33		3.6	
	Cloudy	Moderate	11:04	11:07	3.5	Bottom	2.5	24.7	8.1	31.35	88.5	6.14	6.1	2.97		3.5	
	Cloudy	Moderate	11:04	11:07	3.5	Bottom	2.5	24.7	8.1	31.35	88.5	6.14		2.97		3.6	
13/5/2025	Sunny	Moderate	11:40	11:43	3.5	Surface	1.0	25.6	8.0	29.81	112.3	7.76	7.8	1.51	1.9	1.7	2.2
	Sunny	Moderate	11:40	11:43	3.5	Surface	1.0	25.6	8.0	29.81	112.4	7.76		1.51		1.4	
	Sunny	Moderate	11:40	11:43	3.5	Bottom	2.5	25.5	8.0	29.81	112.6	7.78	7.8	2.33		2.2	
	Sunny	Moderate	11:40	11:43	3.5	Bottom	2.5	25.5	8.0	29.81	112.6	7.78		2.36		3.4	
15/5/2025	Sunny	Moderate	12:35	12:38	3.6	Surface	1.0	26.8	8.0	29.91	107.8	7.29	7.3	0.61	1.3	<1.0	1.7
	Sunny	Moderate	12:35	12:38	3.6	Surface	1.0	26.8	8.0	29.91	107.8	7.28		0.62		1.3	
	Sunny	Moderate	12:35	12:38	3.6	Bottom	2.6	25.8	7.9	30.00	96.7	6.64	6.6	1.93		2.4	
	Sunny	Moderate	12:35	12:38	3.6	Bottom	2.6	25.8	7.9	30.00	96.7	6.64		1.95		2.0	
17/5/2025	Sunny	Calm	14:02	14:05	3.5	Surface	1.0	26.8	7.9	29.62	93.6	6.34	6.3	1.54	2.1	<1.0	1.0
	Sunny	Calm	14:02	14:05	3.5	Surface	1.0	26.8	7.9	29.62	93.4	6.33		1.54		<1.0	
	Sunny	Calm	14:02	14:05	3.5	Bottom	2.5	26.6	7.9	29.88	82.6	5.61	5.6	2.64		<1.0	
	Sunny	Calm	14:02	14:05	3.5	Bottom	2.5	26.6	7.9	29.87	82.9	5.62		2.64		<1.0	
20/5/2025	Cloudy	Moderate	16:32	16:34	5.7	Surface	1.0	27.6	8.2	27.08	144.2	9.78	9.8	1.72	2.4	2.6	2.6
	Cloudy	Moderate	16:32	16:34	5.7	Surface	1.0	27.6	8.2	27.07	143.4	9.72		1.64		2.8	
	Cloudy	Moderate	16:32	16:34	5.7	Bottom	4.7	27.6	8.0	28.37	101.1	6.81	6.8	3.16		2.5	
	Cloudy	Moderate	16:32	16:34	5.7	Bottom	4.7	27.6	8.0	28.48	100.3	6.75		3.22		2.5	
22/5/2025	Sunny	Moderate	09:16	09:18	5.8	Surface	1.0	29.5	8.3	22.37	167.7	11.31	11.3	1.20	1.8	1.9	2.0
	Sunny	Moderate	09:16	09:18	5.8	Surface	1.0	29.5	8.3	22.39	166.9	11.26		1.23		2.0	
	Sunny	Moderate	09:16	09:18	5.8	Bottom	4.8	27.8	8.0	27.09	122.1	8.25	8.2	2.33		1.6	
	Sunny	Moderate	09:16	09:18	5.8	Bottom	4.8	27.8	8.0	27.20	121.6	8.21		2.41		2.4	
24/5/2025	Cloudy	Moderate	10:09	10:11	5.5	Surface	1.0	28.5	8.2	24.07	132.5	8.99	9.0	0.90	1.0	1.0	1.0
	Cloudy	Moderate	10:09	10:11	5.5	Surface	1.0	28.5	8.2	24.07	132.2	8.97		0.94		1.1	
	Cloudy	Moderate	10:09	10:11	5.5	Bottom	4.5	27.5	8.0	26.76	111.7	7.60	7.6	1.09		<1.0	
	Cloudy	Moderate	10:09	10:11	5.5	Bottom	4.5	27.4	8.0	26.80	111.3	7.58		1.25		<1.0	
27/5/2025	Cloudy	Moderate	11:31	11:33	5.6	Surface	1.0	26.3	8.0	27.38	98.8	6.84	6.8	1.16	1.9	<1.0	1.0
	Cloudy	Moderate	11:31	11:33	5.6	Surface	1.0	26.3	8.0	27.39	98.5	6.81		1.74		<1.0	
	Cloudy	Moderate	11:31	11:33	5.6	Bottom	4.6	26.2	8.0	27.63	84.6	5.86	5.9	2.43		<1.0	
	Cloudy	Moderate	11:31	11:33	5.6	Bottom	4.6	26.2	8.0	27.62	85.1	5.89		2.40		1.1	
29/5/2025	Cloudy	Moderate	12:59	13:02	3.7	Surface	1.0	26.3	8.0	27.95	85.4	5.88	5.9	1.21	1.7	2.7	3.0
	Cloudy	Moderate	12:59	13:02	3.7	Surface	1.0	26.4	8.0	27.93	85.6	5.89		1.25		3.4	
	Cloudy	Moderate	12:59	13:02	3.7	Bottom	2.7	26.1	8.0	28.23	83.3	5.76	5.8	2.19		2.2	
	Cloudy	Moderate	12:59	13:02	3.7	Bottom	2.7	26.1	8.0	28.23	83.3	5.76		2.22		3.5	

Station: SR9
Tide: Flood tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Fine	Moderate	08:57	09:01	3.8	Surface	1.0	25.5	8.1	29.12	137.4	9.55	9.5	1.05	1.2	3.0	2.9
	Fine	Moderate	08:57	09:01	3.8	Surface	1.0	25.5	8.1	29.12	137.4	9.54		1.07		2.7	
	Fine	Moderate	08:57	09:01	3.8	Bottom	2.8	25.1	8.0	29.21	126.3	8.83	8.8	1.22		2.8	
	Fine	Moderate	08:57	09:01	3.8	Bottom	2.8	25.1	8.0	29.21	126.4	8.83		1.26		3.0	
6/5/2025	Cloudy	Moderate	12:47	12:50	3.7	Surface	1.0	26.6	8.2	28.81	160.4	10.95	11.0	1.90	1.8	1.3	1.2
	Cloudy	Moderate	12:47	12:50	3.7	Surface	1.0	26.6	8.2	28.81	160.3	10.95		1.91		1.6	
	Cloudy	Moderate	12:47	12:50	3.7	Bottom	2.7	25.2	8.0	29.26	115.1	8.02	8.0	1.73		<1.0	
	Cloudy	Moderate	12:47	12:50	3.7	Bottom	2.7	25.2	8.0	29.26	115.1	8.02		1.76		<1.0	
8/5/2025	Cloudy	Moderate	15:18	15:22	3.5	Surface	1.0	26.5	8.0	28.29	105.5	7.23	7.2	1.53	1.6	<1.0	1.0
	Cloudy	Moderate	15:18	15:22	3.5	Surface	1.0	26.5	8.0	28.29	105.4	7.23		1.58		<1.0	
	Cloudy	Moderate	15:18	15:22	3.5	Bottom	2.5	26.5	8.0	28.29	105.2	7.21	7.2	1.67		<1.0	
	Cloudy	Moderate	15:18	15:22	3.5	Bottom	2.5	26.5	8.0	28.29	105.2	7.21		1.68		<1.0	
10/5/2025	Cloudy	Moderate	16:47	16:50	3.3	Surface	1.0	24.7	8.2	31.05	95.7	6.68	6.7	2.79	3.3	4.2	3.9
	Cloudy	Moderate	16:47	16:50	3.3	Surface	1.0	24.7	8.2	31.05	95.7	6.68		2.77		4.1	
	Cloudy	Moderate	16:47	16:50	3.3	Bottom	2.3	24.7	8.2	32.51	93.8	6.48	6.5	3.80		3.3	
	Cloudy	Moderate	16:47	16:50	3.3	Bottom	2.3	24.7	8.2	32.43	93.8	6.49		3.82		4.1	
13/5/2025	Fine	Moderate	05:59	06:02	3.3	Surface	1.0	25.6	8.0	29.81	103.5	7.15	7.2	0.81	0.9	3.2	2.6
	Fine	Moderate	05:59	06:02	3.3	Surface	1.0	25.6	8.0	29.81	103.6	7.15		0.84		3.2	
	Fine	Moderate	05:59	06:02	3.3	Bottom	2.3	25.4	8.0	29.84	106.3	7.37	7.4	1.05		2.6	
	Fine	Moderate	05:59	06:02	3.3	Bottom	2.3	25.4	8.0	29.84	106.3	7.36		1.06		1.4	
15/5/2025	Fine	Moderate	05:53	05:55	3.2	Surface	1.0	26.9	7.9	29.90	101.3	6.83	6.8	1.60	2.7	<1.0	1.1
	Fine	Moderate	05:53	05:55	3.2	Surface	1.0	26.9	7.9	29.90	101.2	6.83		1.62		1.2	
	Fine	Moderate	05:53	05:55	3.2	Bottom	2.2	26.0	7.9	29.93	93.5	6.41	6.4	3.84		1.1	
	Fine	Moderate	05:53	05:55	3.2	Bottom	2.2	26.0	7.9	29.93	93.5	6.41		3.88		1.2	
17/5/2025	Fine	Moderate	07:01	07:04	3.4	Surface	1.0	26.7	7.9	29.50	93.2	6.33	6.3	1.75	2.3	<1.0	1.0
	Fine	Moderate	07:01	07:04	3.4	Surface	1.0	26.7	7.9	29.50	93.2	6.33		1.74		<1.0	
	Fine	Moderate	07:01	07:04	3.4	Bottom	2.4	26.7	7.9	29.75	86.3	5.85	5.9	2.85		<1.0	
	Fine	Moderate	07:01	07:04	3.4	Bottom	2.4	26.7	7.9	29.75	86.4	5.86		2.93		<1.0	
20/5/2025	Cloudy	Moderate	09:52	09:55	5.2	Surface	1.0	27.8	8.1	26.94	138.4	9.36	9.3	1.35	2.4	2.7	2.6
	Cloudy	Moderate	09:52	09:55	5.2	Surface	1.0	27.7	8.1	26.97	137.8	9.32		1.35		2.8	
	Cloudy	Moderate	09:52	09:55	5.2	Bottom	4.2	27.6	7.9	28.68	88.0	5.91	5.9	3.44		2.8	
	Cloudy	Moderate	09:52	09:55	5.2	Bottom	4.2	27.6	7.9	28.69	87.5	5.88		3.58		2.2	
22/5/2025	Sunny	Moderate	12:50	12:52	5.7	Surface	1.0	29.2	8.3	22.83	175.1	11.83	11.8	1.33	2.7	2.1	2.6
	Sunny	Moderate	12:50	12:52	5.7	Surface	1.0	29.2	8.3	22.82	174.1	11.76		1.30		3.9	
	Sunny	Moderate	12:50	12:52	5.7	Bottom	4.7	27.0	7.6	29.06	38.7	2.62	2.6	4.02		2.5	
	Sunny	Moderate	12:50	12:52	5.7	Bottom	4.7	27.0	7.6	29.06	39.2	2.66		4.22		1.7	
24/5/2025	Cloudy	Moderate	15:12	15:14	5.0	Surface	1.0	28.2	8.2	24.92	132.9	9.03	9.0	1.07	1.8	1.4	1.4
	Cloudy	Moderate	15:12	15:14	5.0	Surface	1.0	28.2	8.2	24.94	132.5	9.00		1.09		1.4	
	Cloudy	Moderate	15:12	15:14	5.0	Bottom	4.0	27.1	7.7	28.18	57.1	3.88	3.9	2.43		1.2	
	Cloudy	Moderate	15:12	15:14	5.0	Bottom	4.0	27.1	7.7	28.18	57.1	3.88		2.43		1.7	
27/5/2025	Cloudy	Moderate	06:21	06:23	5.7	Surface	1.0	26.2	8.0	27.32	97.8	6.78	6.8	1.20	2.6	1.0	1.1
	Cloudy	Moderate	06:21	06:23	5.7	Surface	1.0	26.2	8.0	27.32	97.3	6.74		1.25		<1.0	
	Cloudy	Moderate	06:21	06:23	5.7	Bottom	4.7	26.2	7.9	27.54	79.7	5.51	5.5	3.90		<1.0	
	Cloudy	Moderate	06:21	06:23	5.7	Bottom	4.7	26.2	7.9	27.54	80.3	5.55		3.97		1.2	
29/5/2025	Fine	Moderate	07:09	07:11	3.9	Surface	1.0	26.2	8.0	28.01	85.0	5.87	5.9	1.08	1.1	3.3	3.4
	Fine	Moderate	07:09	07:11	3.9	Surface	1.0	26.2	8.0	28.05	84.8	5.86		1.09		3.3	
	Fine	Moderate	07:09	07:11	3.9	Bottom	2.9	26.1	8.0	28.17	83.7	5.78	5.8	1.16		3.4	
	Fine	Moderate	07:09	07:11	3.9	Bottom	2.9	26.1	8.0	28.17	83.7	5.78		1.17		3.4	

Station: SR10
Tide: Ebb tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Sunny	Moderate	16:01	16:04	2.5	Middle	1.3	24.7	8.0	29.10	110.5	7.77	7.8	2.20	2.2	2.8	2.8
	Sunny	Moderate	16:01	16:04	2.5	Middle	1.3	24.7	8.0	29.11	110.4	7.77		2.23		2.8	
6/5/2025	Cloudy	Moderate	09:21	09:24	2.5	Middle	1.3	26.7	8.2	28.79	161.0	10.98	11.0	1.03	1.0	1.6	2.0
	Cloudy	Moderate	09:21	09:24	2.5	Middle	1.3	26.7	8.2	28.76	161.0	10.98		1.06		2.4	
8/5/2025	Cloudy	Moderate	10:19	10:22	2.8	Middle	1.4	26.2	8.0	28.36	103.5	7.13	7.1	0.80	0.8	<1.0	1.1
	Cloudy	Moderate	10:19	10:22	2.8	Middle	1.4	26.2	8.0	28.36	103.5	7.13		0.84		1.1	
10/5/2025	Cloudy	Moderate	11:12	11:14	2.6	Middle	1.3	24.9	8.1	28.66	92.6	6.51	6.5	1.25	1.3	4.6	4.5
	Cloudy	Moderate	11:12	11:14	2.6	Middle	1.3	24.9	8.1	28.65	92.6	6.51		1.26		4.4	
13/5/2025	Sunny	Moderate	11:33	11:35	2.8	Middle	1.4	25.5	8.0	29.82	113.3	7.83	7.8	1.20	1.2	1.7	2.0
	Sunny	Moderate	11:33	11:35	2.8	Middle	1.4	25.5	8.0	29.82	113.3	7.83		1.21		2.2	
15/5/2025	Sunny	Moderate	12:29	12:32	2.6	Middle	1.3	26.7	8.0	29.92	107.1	7.26	7.3	0.56	0.6	2.3	2.4
	Sunny	Moderate	12:29	12:32	2.6	Middle	1.3	26.6	8.0	29.91	107.1	7.26		0.58		2.5	
17/5/2025	Sunny	Calm	13:52	13:54	2.7	Middle	1.4	27.0	7.9	29.38	94.7	6.40	6.4	1.58	1.6	<1.0	1.0
	Sunny	Calm	13:52	13:54	2.7	Middle	1.4	27.0	7.9	29.38	94.6	6.40		1.58		<1.0	
20/5/2025	Cloudy	Moderate	16:26	16:28	2.4	Middle	1.2	28.1	8.2	27.61	155.4	10.41	10.4	1.74	1.8	2.3	2.7
	Cloudy	Moderate	16:26	16:28	2.4	Middle	1.2	28.1	8.2	27.59	155.2	10.39		1.89		3.0	
22/5/2025	Sunny	Moderate	09:26	09:28	2.8	Middle	1.4	29.4	8.3	23.28	186.4	12.51	12.4	1.20	1.2	3.2	3.3
	Sunny	Moderate	09:26	09:28	2.8	Middle	1.4	29.6	8.3	23.17	185.0	12.38		1.23		3.3	
24/5/2025	Cloudy	Moderate	10:20	10:22	2.8	Middle	1.4	28.1	8.2	25.22	130.9	8.90	8.9	1.03	1.1	1.5	1.6
	Cloudy	Moderate	10:20	10:22	2.8	Middle	1.4	28.1	8.2	25.17	130.4	8.86		1.07		1.7	
27/5/2025	Cloudy	Moderate	11:20	11:22	2.7	Middle	1.4	26.3	8.0	27.45	102.1	7.06	7.1	1.04	1.1	1.1	1.1
	Cloudy	Moderate	11:20	11:22	2.7	Middle	1.4	26.3	8.1	27.45	102.2	7.06		1.08		<1.0	
29/5/2025	Cloudy	Moderate	12:49	12:52	2.6	Middle	1.3	26.5	8.0	27.91	87.2	5.99	6.0	1.35	1.4	3.3	3.4
	Cloudy	Moderate	12:49	12:52	2.6	Middle	1.3	26.5	8.0	27.91	87.2	5.99		1.35		3.5	

Station: SR10
Tide: Flood tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Fine	Moderate	09:08	09:11	2.8	Middle	1.4	25.0	8.0	28.86	126.9	8.90	8.9	2.58	2.6	2.8	3.3
	Fine	Moderate	09:08	09:11	2.8	Middle	1.4	25.0	8.0	28.86	127.5	8.93		2.60		3.7	
6/5/2025	Cloudy	Moderate	12:40	12:43	2.7	Middle	1.4	26.4	8.2	28.82	153.7	10.53	10.5	1.92	1.9	<1.0	1.0
	Cloudy	Moderate	12:40	12:43	2.7	Middle	1.4	26.4	8.2	28.82	153.7	10.53		1.95		<1.0	
8/5/2025	Cloudy	Moderate	15:09	15:11	2.4	Middle	1.2	25.9	8.0	28.51	97.7	6.76	6.8	2.46	2.5	<1.0	1.0
	Cloudy	Moderate	15:09	15:11	2.4	Middle	1.2	25.9	8.0	28.51	97.8	6.77		2.49		<1.0	
10/5/2025	Cloudy	Moderate	16:37	16:40	2.5	Middle	1.3	24.8	8.2	31.13	94.2	6.56	6.6	2.31	2.3	4.5	4.4
	Cloudy	Moderate	16:37	16:40	2.5	Middle	1.3	24.8	8.2	31.13	94.2	6.55		2.36		4.2	
13/5/2025	Fine	Moderate	06:09	06:11	2.4	Middle	1.2	25.5	8.0	29.81	103.7	7.17	7.2	1.25	1.3	2.3	2.5
	Fine	Moderate	06:09	06:11	2.4	Middle	1.2	25.5	8.0	29.81	103.7	7.17		1.26		2.7	
15/5/2025	Fine	Moderate	06:03	06:05	2.4	Middle	1.2	27.1	7.9	29.90	101.7	6.86	6.9	1.06	1.1	1.3	1.5
	Fine	Moderate	06:03	06:05	2.4	Middle	1.2	27.1	7.9	29.90	101.7	6.86		1.07		1.6	
17/5/2025	Fine	Moderate	07:11	07:13	2.6	Middle	1.3	26.7	7.9	29.37	94.5	6.42	6.4	1.39	1.4	<1.0	1.0
	Fine	Moderate	07:11	07:13	2.6	Middle	1.3	26.7	7.9	29.36	94.5	6.42		1.40		<1.0	
20/5/2025	Cloudy	Moderate	09:58	09:59	2.6	Middle	1.3	27.8	8.1	27.90	139.6	9.39	9.4	1.28	1.3	2.5	2.7
	Cloudy	Moderate	09:58	09:59	2.6	Middle	1.3	27.8	8.1	27.90	139.1	9.36		1.29		2.8	
22/5/2025	Sunny	Moderate	12:42	12:44	2.7	Middle	1.4	29.1	8.4	23.58	198.8	13.39	13.3	1.43	1.4	3.8	2.9
	Sunny	Moderate	12:42	12:44	2.7	Middle	1.4	29.2	8.4	23.53	197.8	13.30		1.41		2.0	
24/5/2025	Cloudy	Moderate	15:06	15:08	2.5	Middle	1.3	27.9	8.1	25.93	126.5	8.59	8.6	1.28	1.3	1.2	1.3
	Cloudy	Moderate	15:06	15:08	2.5	Middle	1.3	27.9	8.1	25.82	126.2	8.56		1.30		1.4	
27/5/2025	Cloudy	Moderate	06:27	06:29	2.6	Middle	1.3	26.2	8.0	27.34	99.3	6.88	6.9	1.35	1.4	<1.0	1.1
	Cloudy	Moderate	06:27	06:29	2.6	Middle	1.3	26.2	8.0	27.34	99.4	6.88		1.36		1.2	
29/5/2025	Fine	Moderate	07:15	07:17	2.9	Middle	1.5	26.3	8.0	27.93	86.1	5.93	5.9	1.11	1.1	4.1	4.1
	Fine	Moderate	07:15	07:17	2.9	Middle	1.5	26.3	8.0	27.93	86.1	5.93		1.10		4.0	

Station: SR12
Tide: Ebb tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Sunny	Moderate	15:51	15:53	1.2	Middle	0.6	25.2	8.0	28.97	128.9	9.01	9.0	1.03	1.0	3.0	3.1
	Sunny	Moderate	15:51	15:53	1.2	Middle	0.6	25.2	8.0	28.97	129.2	9.02		1.06		3.2	
6/5/2025	Cloudy	Moderate	09:29	09:32	1.2	Middle	0.6	26.9	8.2	28.80	160.3	10.86	10.9	1.66	1.7	1.4	1.6
	Cloudy	Moderate	09:29	09:32	1.2	Middle	0.6	26.9	8.2	28.80	160.5	10.87		1.69		1.8	
8/5/2025	Cloudy	Moderate	10:27	10:29	1.3	Middle	0.7	26.6	8.0	28.20	106.2	7.28	7.3	1.60	1.6	1.0	1.1
	Cloudy	Moderate	10:27	10:29	1.3	Middle	0.7	26.6	8.0	28.20	106.2	7.28		1.61		1.2	
10/5/2025	Cloudy	Moderate	11:21	11:23	1.7	Middle	0.9	24.9	8.1	28.64	93.2	6.56	6.6	1.36	1.4	4.4	4.4
	Cloudy	Moderate	11:21	11:23	1.7	Middle	0.9	24.9	8.1	28.64	93.2	6.56		1.36		4.4	
13/5/2025	Sunny	Moderate	11:27	11:29	1.6	Middle	0.8	25.7	8.0	29.78	112.9	7.79	7.8	1.28	1.3	1.2	1.1
	Sunny	Moderate	11:27	11:29	1.6	Middle	0.8	25.7	8.0	29.78	112.7	7.78		1.30		1.0	
15/5/2025	Sunny	Moderate	12:21	12:24	1.5	Middle	0.8	26.6	8.0	29.92	103.5	7.03	7.0	0.31	0.3	2.3	2.3
	Sunny	Moderate	12:21	12:24	1.5	Middle	0.8	26.6	8.0	29.92	103.5	7.03		0.31		2.3	
17/5/2025	Sunny	Calm	13:48	13:50	1.6	Middle	0.8	26.9	7.9	29.56	95.7	6.48	6.5	1.73	1.7	<1.0	1.0
	Sunny	Calm	13:48	13:50	1.6	Middle	0.8	26.9	7.9	29.56	95.7	6.48		1.73		<1.0	
20/5/2025	Cloudy	Moderate	16:20	16:22	1.6	Middle	0.8	28.2	8.2	27.53	154.4	10.33	10.3	2.48	2.4	2.8	2.8
	Cloudy	Moderate	16:20	16:22	1.6	Middle	0.8	28.3	8.2	27.52	153.9	10.29		2.34		2.8	
22/5/2025	Sunny	Moderate	09:34	09:36	2.4	Middle	1.2	29.1	8.3	23.92	193.9	13.04	13.0	1.27	1.3	2.9	2.2
	Sunny	Moderate	09:34	09:36	2.4	Middle	1.2	29.2	8.3	23.95	194.1	13.04		1.24		1.5	
24/5/2025	Cloudy	Moderate	10:28	10:30	1.5	Middle	0.8	28.1	8.2	25.22	133.1	9.04	9.0	1.01	1.0	1.4	1.5
	Cloudy	Moderate	10:28	10:30	1.5	Middle	0.8	28.1	8.2	25.22	133.0	9.04		1.04		1.6	
27/5/2025	Cloudy	Moderate	11:13	11:15	2.1	Middle	1.1	26.3	8.1	27.45	102.3	7.07	7.1	1.20	1.3	1.2	1.2
	Cloudy	Moderate	11:13	11:15	2.1	Middle	1.1	26.3	8.1	27.45	102.6	7.09		1.32		1.1	
29/5/2025	Cloudy	Moderate	12:41	12:43	1.7	Middle	0.9	26.4	8.0	27.97	86.5	5.96	6.0	1.61	1.6	3.2	3.1
	Cloudy	Moderate	12:41	12:43	1.7	Middle	0.9	26.4	8.0	27.96	86.6	5.97		1.64		3.0	

Station: SR12
Tide: Flood tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Fine	Moderate	09:17	09:19	1.5	Middle	0.8	25.3	8.0	28.88	132.4	9.24	9.2	2.31	2.3	3.5	3.5
	Fine	Moderate	09:17	09:19	1.5	Middle	0.8	25.3	8.0	28.88	132.4	9.23		2.31		3.4	
6/5/2025	Cloudy	Moderate	12:31	12:34	1.5	Middle	0.8	26.1	8.2	28.85	154.8	10.66	10.7	1.90	1.9	1.8	1.7
	Cloudy	Moderate	12:31	12:34	1.5	Middle	0.8	26.0	8.2	28.85	154.6	10.65		1.90		1.6	
8/5/2025	Cloudy	Moderate	15:02	15:05	1.3	Middle	0.7	26.6	8.0	28.27	105.9	7.25	7.3	1.08	1.1	<1.0	1.0
	Cloudy	Moderate	15:02	15:05	1.3	Middle	0.7	26.6	8.0	28.27	105.9	7.25		1.13		<1.0	
10/5/2025	Cloudy	Moderate	16:31	16:33	1.4	Middle	0.7	24.7	8.2	30.67	95.4	6.65	6.7	1.50	1.5	3.9	3.9
	Cloudy	Moderate	16:31	16:33	1.4	Middle	0.7	24.7	8.2	30.67	95.4	6.65		1.52		3.9	
13/5/2025	Fine	Moderate	06:16	06:18	1.3	Middle	0.7	25.6	7.9	29.82	100.3	6.93	6.9	0.93	1.0	1.2	1.3
	Fine	Moderate	06:16	06:18	1.3	Middle	0.7	25.6	7.9	29.83	100.3	6.93		0.97		1.4	
15/5/2025	Fine	Moderate	06:11	06:14	1.3	Middle	0.7	26.9	8.0	29.91	107.2	7.24	7.2	1.66	1.7	1.5	1.3
	Fine	Moderate	06:11	06:14	1.3	Middle	0.7	26.9	8.0	29.91	107.2	7.24		1.69		1.1	
17/5/2025	Fine	Moderate	07:19	07:21	1.3	Middle	0.7	26.8	7.9	29.80	86.2	5.83	5.8	2.11	2.1	<1.0	1.0
	Fine	Moderate	07:19	07:21	1.3	Middle	0.7	26.8	7.9	29.80	86.4	5.84		2.13		<1.0	
20/5/2025	Cloudy	Moderate	10:02	10:03	1.6	Middle	0.8	27.9	8.1	27.80	144.9	9.74	9.8	1.33	1.3	2.9	2.8
	Cloudy	Moderate	10:02	10:03	1.6	Middle	0.8	27.9	8.1	27.80	146.4	9.84		1.33		2.6	
22/5/2025	Sunny	Moderate	12:37	12:39	2.0	Middle	1.0	29.9	8.3	23.32	185.8	12.38	12.3	1.23	1.2	2.0	2.1
	Sunny	Moderate	12:37	12:39	2.0	Middle	1.0	29.9	8.3	23.31	184.7	12.30		1.22		2.2	
24/5/2025	Cloudy	Moderate	15:00	15:02	1.8	Middle	0.9	28.1	8.1	25.64	122.6	8.31	8.3	2.01	2.0	1.4	1.4
	Cloudy	Moderate	15:00	15:02	1.8	Middle	0.9	28.1	8.1	25.64	122.6	8.31		2.01		1.4	
27/5/2025	Cloudy	Moderate	06:35	06:37	1.8	Middle	0.9	26.2	8.0	27.34	99.4	6.88	6.9	1.26	1.2	<1.0	1.2
	Cloudy	Moderate	06:35	06:37	1.8	Middle	0.9	26.3	8.0	27.34	99.4	6.88		1.22		1.3	
29/5/2025	Fine	Moderate	07:20	07:22	1.8	Middle	0.9	26.4	8.0	27.91	85.6	5.89	5.9	1.19	1.2	3.4	3.3
	Fine	Moderate	07:20	07:22	1.8	Middle	0.9	26.4	8.0	27.91	85.5	5.89		1.23		3.2	

Station: SR15
Tide: Ebb tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Sunny	Moderate	16:58	17:01	1.8	Middle	0.9	25.1	8.0	29.05	113.9	7.97	8.0	1.23	1.2	3.7	3.4
	Sunny	Moderate	16:58	17:01	1.8	Middle	0.9	25.1	8.0	29.05	113.9	7.96		1.25		3.0	
6/5/2025	Cloudy	Moderate	08:25	08:27	1.5	Middle	0.8	26.4	8.2	28.77	151.8	10.39	10.4	1.66	1.7	<1.0	1.2
	Cloudy	Moderate	08:25	08:27	1.5	Middle	0.8	26.4	8.2	28.77	151.5	10.38		1.67		1.3	
8/5/2025	Cloudy	Moderate	09:27	09:30	2.0	Middle	1.0	25.7	7.9	28.42	98.5	6.79	6.8	1.25	1.3	1.2	1.5
	Cloudy	Moderate	09:27	09:30	2.0	Middle	1.0	25.7	7.9	28.41	98.5	6.78		1.33		1.7	
10/5/2025	Cloudy	Moderate	10:25	10:27	1.9	Middle	1.0	24.6	8.1	30.83	93.8	6.54	6.5	3.03	3.0	4.1	4.2
	Cloudy	Moderate	10:25	10:27	1.9	Middle	1.0	24.6	8.1	30.83	93.8	6.54		3.03		4.3	
13/5/2025	Sunny	Moderate	12:20	12:22	1.7	Middle	0.9	25.3	7.9	29.83	97.9	6.79	6.8	0.17	0.2	1.3	1.4
	Sunny	Moderate	12:20	12:22	1.7	Middle	0.9	25.3	7.9	29.83	98.0	6.79		0.18		1.5	
15/5/2025	Sunny	Moderate	13:21	13:24	1.9	Middle	1.0	26.8	8.0	29.88	107.5	7.27	7.3	2.97	3.0	1.2	1.1
	Sunny	Moderate	13:21	13:24	1.9	Middle	1.0	26.8	8.0	29.88	107.5	7.27		2.97		<1.0	
17/5/2025	Sunny	Calm	14:46	14:49	1.9	Middle	1.0	27.7	7.9	29.62	92.6	6.18	6.2	1.22	1.2	<1.0	1.0
	Sunny	Calm	14:46	14:49	1.9	Middle	1.0	27.7	7.9	29.62	92.6	6.18		1.26		<1.0	
20/5/2025	Cloudy	Moderate	17:16	17:18	2.6	Middle	1.3	27.8	8.2	25.83	144.9	9.85	9.8	1.38	1.4	3.2	3.1
	Cloudy	Moderate	17:16	17:18	2.6	Middle	1.3	27.8	8.2	25.84	144.2	9.80		1.49		2.9	
22/5/2025	Sunny	Moderate	08:36	08:38	2.4	Middle	1.2	29.2	8.3	21.91	172.8	11.73	11.7	1.51	1.5	4.0	4.2
	Sunny	Moderate	08:36	08:38	2.4	Middle	1.2	29.2	8.3	21.90	172.8	11.73		1.53		4.4	
24/5/2025	Cloudy	Moderate	09:40	09:42	2.6	Middle	1.3	28.0	8.1	25.81	134.0	9.09	9.1	2.28	2.4	1.6	1.4
	Cloudy	Moderate	09:40	09:42	2.6	Middle	1.3	27.9	8.1	25.86	133.2	9.04		2.42		1.2	
27/5/2025	Cloudy	Moderate	12:16	12:18	2.4	Middle	1.2	26.5	8.0	27.44	98.5	6.79	6.8	1.79	1.8	<1.0	1.1
	Cloudy	Moderate	12:16	12:18	2.4	Middle	1.2	26.5	8.0	27.44	98.9	6.81		1.76		1.2	
29/5/2025	Cloudy	Moderate	13:39	13:42	1.9	Middle	1.0	26.4	7.9	27.99	85.1	5.86	5.9	0.80	0.8	2.6	2.9
	Cloudy	Moderate	13:39	13:42	1.9	Middle	1.0	26.4	7.9	27.98	85.3	5.87		0.78		3.1	

Station: SR15
Tide: Flood tide

Date	Weather	Sea	Sampling Time		Water Depth	Level	Sampling depth	Water Temperature	pH	Salinity	Dissolved Oxygen	Dissolved Oxygen	Depth Average	Turbidity	Depth Average	TSS	Depth Average
(dd/mm/yyyy)	Condition	Condition	Start	Finish	m		m	°C	Value	ppt	%	mg/L	mg/L	NTU	NTU	mg/L	mg/L
3/5/2025	Fine	Moderate	08:21	08:24	2.0	Middle	1.0	24.8	7.9	29.25	108.0	7.58	7.6	2.10	2.1	3.0	3.0
	Fine	Moderate	08:21	08:24	2.0	Middle	1.0	24.8	7.9	29.25	107.9	7.58		2.10		3.0	
6/5/2025	Cloudy	Moderate	13:32	13:35	1.7	Middle	0.9	26.7	8.2	28.80	160.5	10.95	11.0	2.05	2.1	1.1	1.2
	Cloudy	Moderate	13:32	13:35	1.7	Middle	0.9	26.7	8.2	28.80	160.5	10.95		2.06		1.2	
8/5/2025	Cloudy	Moderate	15:59	16:01	1.9	Middle	1.0	26.7	8.0	28.32	104.3	7.13	7.1	1.09	1.1	<1.0	1.0
	Cloudy	Moderate	15:59	16:01	1.9	Middle	1.0	26.7	8.0	28.32	104.3	7.13		1.08		<1.0	
10/5/2025	Cloudy	Moderate	17:36	17:39	1.8	Middle	0.9	24.8	8.1	28.74	91.3	6.43	6.4	1.52	1.5	4.1	4.1
	Cloudy	Moderate	17:36	17:39	1.8	Middle	0.9	24.8	8.1	28.74	91.3	6.42		1.52		4.0	
13/5/2025	Fine	Moderate	05:11	05:13	1.6	Middle	0.8	25.5	8.0	29.78	104.4	7.23	7.2	1.12	1.1	1.9	2.1
	Fine	Moderate	05:11	05:13	1.6	Middle	0.8	25.5	8.0	29.78	104.3	7.22		1.16		2.3	
15/5/2025	Fine	Moderate	05:17	05:20	1.7	Middle	0.9	26.3	7.9	29.81	98.9	6.75	6.8	1.62	1.6	1.3	1.4
	Fine	Moderate	05:17	05:20	1.7	Middle	0.9	26.3	7.9	29.81	98.9	6.75		1.65		1.4	
17/5/2025	Fine	Moderate	06:15	06:17	1.7	Middle	0.9	26.4	7.8	29.50	86.8	5.92	5.9	1.62	1.6	<1.0	1.0
	Fine	Moderate	06:15	06:17	1.7	Middle	0.9	26.4	7.8	29.50	86.8	5.92		1.65		<1.0	
20/5/2025	Cloudy	Moderate	09:13	09:15	2.6	Middle	1.3	27.7	8.1	25.55	133.3	9.10	9.1	1.26	1.3	2.6	2.7
	Cloudy	Moderate	09:13	09:15	2.6	Middle	1.3	27.7	8.1	25.61	133.2	9.09		1.28		2.7	
22/5/2025	Sunny	Moderate	13:26	13:28	2.8	Middle	1.4	29.0	8.3	24.57	197.8	13.29	13.2	1.53	1.5	2.9	2.7
	Sunny	Moderate	13:26	13:28	2.8	Middle	1.4	29.0	8.3	24.53	197.5	13.17		1.52		2.5	
24/5/2025	Cloudy	Moderate	15:50	15:52	2.8	Middle	1.4	29.1	8.3	23.14	141.9	9.59	9.6	1.26	1.2	1.4	1.5
	Cloudy	Moderate	15:50	15:52	2.8	Middle	1.4	29.1	8.3	23.13	141.1	9.54		1.22		1.6	
27/5/2025	Cloudy	Moderate	05:41	05:43	2.6	Middle	1.3	26.3	8.0	27.42	97.4	6.74	6.7	1.33	1.4	<1.0	1.0
	Cloudy	Moderate	05:41	05:43	2.6	Middle	1.3	26.3	8.0	27.42	97.4	6.74		1.39		<1.0	
29/5/2025	Fine	Moderate	06:19	06:22	2.0	Middle	1.0	26.1	7.9	28.15	80.6	5.57	5.6	1.12	1.1	3.3	3.1
	Fine	Moderate	06:19	06:22	2.0	Middle	1.0	26.1	7.9	28.15	80.6	5.57		1.15		2.8	

Appendix 7.1

Monthly Summary Waste Flow Table

Drainage Services Department
Contract No. DC/2020/02
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works

Monthly Summary Waste Flow Table for 2025

Month	Actual Quantities of Inert C&D Material Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated (a)	Hard Rocks and Large Broken Concrete (b)	Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill (a-b-c-d)	Imported Fill	Metals	Paper/card-board packaging	Plastics [see Note 3]	Chemical waste	Others. e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	1.81	0.00	0.00	0.00	1.81	0.00	0.0000	0.0000	0.0000	0.00	8.62
Feb	1.37	0.00	0.00	0.00	1.37	0.00	0.0017	0.0593	0.0022	0.00	16.51
Mar	0.68	0.00	0.00	0.00	0.68	0.00	0.0000	0.0000	0.0000	0.00	10.86
Apr	0.39	0.00	0.00	0.00	0.39	0.00	0.0069	0.0528	0.0002	0.00	25.38
May	0.07	0.00	0.00	0.00	0.07	0.00	10.5900	0.0000	0.0000	0.00	29.07
Jun	0.00										
Sub-total	4.30	0.00	0.00	0.00	4.30	0.00	10.5986	0.1121	0.0024	0.00	90.44
July	0.00										
Aug	0.00										
Sept	0.00										
Oct	0.00										
Nov	0.00										
Dec	0.00										
Total	4.30	0.00	0.00	0.00	4.30	0.00	10.5986	0.1121	0.0024	0.0000	90.44

Notes:

- (1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF) or Tuen Mun Area 38 Fill Bank (TM38-FB)
- (2) The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank (TKO137FB)
- (3) The non-inert waste is disposed at NENT or Outlying Islands Transfer Facilities
- (4) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (5) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (6) Assume the density of fill material is 2 tonne/m3.

Appendix 9.1

3 Months Rolling Programme

KL-CW JV

Tentative Three Months Construction Rolling Program Contract No.: DC/2020/02 Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works	Reference No. : DC/2020/02 Revision No. : -
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Construction Activities for the reporting period

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
2	Excavation and site formation at SSWSTW
3	Trenchless drilling works (Chi Ma Wan Road)
4	Excavation and ELS work at POSPS
5	Superstructure RC works at SSWSTW
6	Retaining wall construction at SSWSTW
7	Dredging and diffuser construction at SSWSTW
8	E&M Installation at POSPS

KL-CW JV

Tentative Three Months Construction Rolling Program Contract No.: DC/2020/02 Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works	Reference No. : DC/2020/02 Revision No. : -
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Tentative Three Months (June, July and August 2025) Construction Rolling Program

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road
2	Excavation and site formation at SSWSTW
3	Trenchless drilling works (Chi Ma Wan Road)
4	Excavation and ELS work at POSPS
5	Superstructure RC works at SSWSTW
6	Retaining wall construction at SSWSTW
7	E&M Installation at POSPS