



Contract No. 13/WSD/17

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

Operation Phase Monthly EM&A Report No.5 (Period from 1 November to 30 November 2024)

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| Date: | 11 December 2024 |



Our ref.: LES/J2024-01/CS/L056 Date : 12 December 2024

By Post and Email

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

Attn: Mr. W F Cheung/ S K Wong

Dear Sirs,

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

Verification of Operation Phase Monthly Environmental Monitoring and Audit (EM&A)

Report for November 2024

Referring to the Operation Phase Monthly Environmental Monitoring and Audit Report (November 2024) Rev.2.0 as submitted by the Environmental Team on 9 December 2024, we hereby verify the captioned report for further submission to the Director's Representative of the Project according to Clause 3.5 of the Environmental Permit EP-503/2015/B and Further Environmental Permit FEP-01/503/2015/B.

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

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

Serena Shek Independent Environmental Checker

Binnies(Attn.: Derek Lai)Aurecon(Attn.: Toby Wan)

By E-mail By E-mail



REVISION HISTORY

| Rev. | Description of Modification | DATE |
|------|------------------------------------|------------|
| 1. | 1st Issue | 9/12/2024 |
| 2. | 2nd Issue | 11/12/2024 |

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Operation Phase Monthly EM&A Report No.5



CONTENTS

| Execut | tive Summary1 |
|--------|---|
| 1. | Basic Contract Information |
| 2. | Water Quality |
| 3. | Waste |
| 4. | Landfill Gas Monitoring |
| 5. | Landscape |
| 6. | Ecology (Coral Monitoring) |
| 7. | Ecology (Fishery Monitoring) |
| 8. | Summary of Exceedance, Complaints, Notification of Summons and Prosecutions41 |
| 9. | EM&A Site Inspection43 |
| 10. | Future Key Issues |
| 11. | Conclusions and Recommendations |

| Appendix A | Overview of Desalination Plant in Tseung Kwan O |
|------------|---|
| Appendix B | Summary of Implementation Status of Environmental Mitigation |
| Appendix C | Impact Monitoring Schedule |
| Appendix D | Event/Action Plan |
| Appendix E | Water Quality Monitoring Equipment and Landfill Gas Equipment Calibration Certificate |
| Appendix F | Water Quality Monitoring Data and Landfill Gas Monitoring Data |
| Appendix G | Waste Flow Table |
| Appendix H | Ecology (Coral) Survey Report |
| Appendix I | Site Inspection Proforma |
| Appendix J | Complaint Log |
| Appendix K | Exceedance Report |



EXECUTIVE SUMMARY

INTRODUCTION

- A1. The Project, Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (EP No. FEP – 01/503/2015/B) for the operation phase of the Contract.
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Contract, EM&A works for marine water quality, waste management and ecology should be carried out by Environmental Team (ET), Aurecon Hong Kong Limited (Aurecon), during the Tseung Kwan O Desalination Plant.
- A3. The TKODP commenced the operation stage on 1 July 2024. This is the 5th Operation Phase Monthly EM&A Report, prepared by Aurecon, for the Contract summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O Area 137 (TKO 137) during first-year operation of Tseung Kwan O Desalination Plant in November 2024.
- A4. The EM&A programme for this contract has covered environmental monitoring on water quality and Contractor's environmental performance auditing in the aspects of dust, landfill gas, water quality, waste management, Landscape and Visual and Ecology.

SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

WATER QUALITY MONITORING

- A5. The EM&A works for operation phase marine water quality were conducted during the reporting period in accordance with the EM&A Manual. Seven (7) of SS obtained had exceeded the Action Level. Thirty-six (36) of SS obtained during the reporting period had exceeded the Limit Level.
- A6. The EM&A works for continuous monitoring of effluent quality were conducted during the reporting period in accordance with the EM&A Manual. No exceedance of the sampling was obtained during the reporting period.
- A7. The plant was shut down from 7 a.m. to 7 p.m. on 3 November 2024. No effluent discharge from TKODP occurred during this period.
- A8. Due to the plant has suspended production, there was no effluent discharge from the TKODP during the period between 23 November 2024 at 9 p.m. and 30 November 2024.

ECOLOGY IMPACT MONITORING

A9. Monthly operation phase coral monitoring works was conducted on 11 November 2024. There is no AL/LL exceedance during the monitoring period.



A10. Operation phase fishery monitoring for wet season 2024 was carried out on 24 and 31 August 2024. The detail of the monitoring was presented in the 4th Operation Phase Monthly EM&A Report.

LANDFILL GAS MONITORING

A11. In this reporting period, monthly landfill gas monitoring was conducted on 14 and 15 November 2024. No exceedances of action level and limit level was observed.

WEEKLY SITE INSPECTIONS

A12. In this reporting period, site inspections were carried out by ET on 5, 14, 18 and 26 November 2024. Joint site inspections of the operation work by ET were and IEC were carried out on 26 November 2024 to audit the mitigation measures implementation status.

COMPLAINT HANDLING AND PROSECUTION

A13. No environmental complaint, notification of summons and prosecution was received in the reporting period.

REPORTING CHANGE

- A14. There was no change to be reported that may affect the on-going EM&A programme.
- A15. According to the contractor's information, the works of TKODP were substantially completed on 30 June 2024 and the plant commenced the operation phase on 1 July 2024. The outstanding construction works were being carried out during this reporting period. Details of the construction phase monitoring will be presented in the Construction Phase Monthly EM&A Report.



1. BASIC CONTRACT INFORMATION

BACKGROUND

- 1.1. The Acciona Agua, S.A. Trading, Jardine Engineering Corporation, Limited and China State Construction Engineering (Hong Kong) Limited as AJC Joint Venture (AJCJV) is contracted to carry out the Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP) under Contract No. 13/WSD/17 (the Contract).
- 1.2. Aurecon Hong Kong Limited (Aurecon) is commissioned by AJCJV to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-192/2015) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Contract; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements and Contract No. 13/WSD/17 Specification requirements.
- 1.3. Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Environmental Permit (No. EP-01/503/2015/B) to Water Supplies Department (WSD); and granted the Further Environmental Permit (No. FEP-01/503/2015/B) to AJCJV for the Contract.

THE REPORTING SCOPE

1.4. This is the 5th Operation Phase Monthly EM&A Report for the Contract which summarizes the key findings of the EM&A programme of the Tseung Kwan O Desalination Plant Operation phase during the reporting period from 1 November 2024 to 30 November 2024.

CONTRACT ORGANIZATION

1.5. The Contract Organization structure for Operation Phase is presented in **Figure 1.1**.

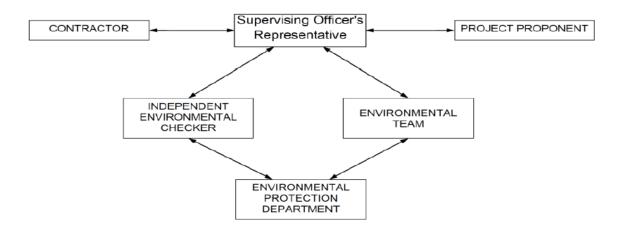


Figure 1.1Contract Organization Chart

1.6. Contact details of the key personnel are presented in **Table 1.1** below:

| Party | Position | Name | Telephone no. |
|---|---|------------------------|---------------|
| Contract Proponent (Water Supplies Department) | SE/CM2 | Milton Law | 2634-3573 |
| Supervising Officer | Project Manager | Augustine Li | 2608-7671 |
| (Binnies Hong Kong Limited) | Chief Resident Engineer | David Wong | 5229-8638 |
| | Project Manager | Stephen Yeung | 2807-4665 |
| The Jardine Engineering Corporation, Limited, China | Environmental Monitoring Manager | Brian Kam | 9456-9541 |
| State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading | Operation Manager | Arnes Parra, Victor | 6468-6710 |
| | Environmental Monitoring Manager | Tommy Law | 6468-1782 |
| Aurecon Hong Kong Limited | Environmental Team Leader | Toby Wan | 9719-5422 |
| Lam Environmental Services Limited | Independent Environmental Checker (IEC) | Serena Shek | 6149-6683 |

Table 1.1Contact Details of Key Personnel

SUMMARY OF OPERATION WORKS

- 1.7. Details of the major operation activities undertaken in this reporting period are shown below.
- 1.8. As informed by the Contractor, key activities carried out in this reporting period for the Contract included the followings:
 - Potable Water Production
- 1.9. The key environmental mitigation measures implemented for the Contract in this reporting period associated with the above operation works include:
 - Regularly monitoring of the effluent



- Sorting and storage of general refuse and operation waste
- 1.10. Summary of the valid permits, licences, and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

| Table 1.2 | Summary of the Status of Valid Environmental Licence, Notification, |
|-----------|---|
| | Permit and Documentations |

| Demuit (Lieranae | Valid | Period | Chatas | Demesle |
|--------------------------------|-------------------------|----------------|--------|---|
| Permit/ Licences | From | То | Status | Remark |
| Environmental Permit | | | | |
| EP-503/2015/B | Throughout th | ne Contract | Valid | -Issued on 3 April 2024 |
| FEP – 01/503/2015/B | Throughout the Contract | | Valid | -Issued on 3 April 2024 |
| Billing Account for Dis | posal | | | |
| 7036276 | Throughout th | ne Contract | Valid | - |
| Sludge (Special Waste) | Disposal (Adı | nission Ticket |) | |
| 17372 | 12/06/2024 | 31/12/2024 | Valid | -TherenewalapplicationwasSubmitted to EPD on27 Nov 2024 and ispendingEPDapproval. |
| Chemical Waste Produ | cer Registratio | on | | |
| 5213-839-A2987-01 | Throughout the Contract | | Valid | - |
| Wastewater Discharge | Licence (Land | l and Marine w | vorks) | |
| WT00044188-2023 | 16/06/2023 | 30/06/2028 | Valid | For Plant T&C and operation. Variation sampling point S.P.1 is approved by the EPD on 25 June 2024 (EPD ref.: EP640/W3/D1358/ 462874). The variation of application of discharge license was submitted on 9 Sep 2024 and pending EPD approval |

1.11. The status for all environmental aspects is presented in **Table 1.3**.

Table 1.3Summary of Status for Key Environmental Aspects under the EM&A
Manual

| Parameters | Status | | | |
|--|--|--|--|--|
| Water Quality | | | | |
| Baseline Monitoring under EM&A Manual | The baseline water quality monitoring was conducted between 12 May 2020 to 6 Jun 2020. | | | |
| Operation phase Marine Impact Monitoring | On-going | | | |
| Continuous Monitoring of Effluent Quality | On-going | | | |
| Waste Management | | | | |
| Mitigation Measures in Waste Management Plan | On-going | | | |
| Landfill Gas | | | | |
| Monthly Monitoring for buildings, manholes and utility pits within the Project Site and along the fresh water mains | On-going | | | |
| Ecology (Coral) | | | | |
| Operation phase Regular Coral Monitoring (Monthly) | On-going | | | |
| Ecology (Fishery) | | | | |
| Operation phase Regular Fishery Monitoring (Seasonally) | On-going | | | |
| Landscape | | | | |
| Operation phase Landscape and Visual Site Inspection | On-going | | | |
| Environmental Audit | | | | |
| Site Inspection covering Measures of Air Quality, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual | On-going | | | |

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



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

2. WATER QUALITY

- 2.1. In accordance with the recommendations of the EIA, water quality monitoring is required during operation phase. The following Section provides details of the water quality monitoring to be undertaken by the Environmental Team (ET) to verify the distance of sediment and brine plume dispersion and to identify whether the potential exists for any indirect impacts to occur to ecological sensitive receivers.
- 2.2. The water quality monitoring programme was carried out to allow any deteriorating water quality to be readily detected and timely action taken to rectify the situation.
- 2.3. Water quality monitoring for the Contract can be divided into the following stages:

(a) Operation phase Marine Water Quality Monitoring – first year upon commissioning

(b)Continuous Monitoring of Effluent Quality

WATER QUALITY PARAMETERS

2.4. Parameters to be measured in the marine water quality monitoring and the Continuous Monitoring of Effluent Quality are listed in **Table 2.1** and **Table 2.2** respectively.

a) Operation phase Marine Water Quality Monitoring

2.5. The parameters for the marine water quality monitoring that have been selected for measurement in situ and in the laboratory are those that were either determined in the EIA to be those with the most potential to be affected by the operation works or are a standard check on water quality conditions.

| Parameters | Unit | Abbreviation | |
|--------------------------------------|------|--------------|--|
| In-situ measurements | | | |
| Dissolved oxygen | mg/L | DO | |
| Temperature | ٥C | - | |
| рН | - | - | |
| Turbidity | NTU | - | |
| Salinity | 0/00 | - | |
| Total Residual Chlorine | mg/L | TRC | |
| Laboratory measurements | | | |
| Suspended Solids | mg/L | SS | |
| Iron-Soluble | mg/L | Fe | |
| Anti-scalant as Reactive Phosphorus* | mg/L | PO4 as P- | |

 Table 2.1
 Parameters measured in the Marine Water Quality Monitoring

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

b) Continuous Monitoring of Effluent Quality

2.6. The monitoring requirement for the continuous effluent quality monitoring shall be conducted in accordance with the effluent parameters and standards stipulated by the Water Pollution Control Ordinance Discharge License (No.: WT00044188-2023) conditions.

| Parameters | Unit | Abbreviation |
|---------------------------------------|------|--------------|
| In-situ measurements | | |
| Temperature | ٥C | - |
| pH | pН | - |
| Salinity | 0/00 | - |
| Total Residual Chlorine | mg/L | TRC |
| Laboratory measurements | | |
| Suspended Solids | mg/L | SS |
| Iron-Soluble | mg/L | Fe |
| Total Inorganic Nitrogen | mg/L | - |
| Total Phosphorus | mg/L | - |
| Sodium Metabisulphite | mg/L | SMBS |
| Anti-scalant as Reactive Phosphorus * | mg/L | PO4 as P- |

 Table 2.2
 Parameters measured in the Continuous Monitoring of Effluent Quality

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

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

MONITORING EQUIPMENT

a) Operation phase Marine Water Quality Monitoring

2.8. For water quality monitoring, the following equipment were used:

Dissolved Oxygen and Temperature Measuring Equipment - The instrument was a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and was operable from a DC power source. It was capable of measuring: dissolved oxygen levels in the range of 0 - 20 mg/L and 0 - 200% saturation; and a temperature of 0 - 45 degrees Celsius. It has a membrane electrode with automatic temperature compensation complete with a cable of not less than 35 m in length. Sufficient stocks of spare electrodes and cables were available for replacement where necessary (e.g. YSI model 59 DO meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

Turbidity Measurement Equipment - The instrument was a portable, weatherproof turbidity-measuring unit complete with cable, sensor and comprehensive operation manuals. The equipment was operated from a DC power source, it has a photoelectric sensor capable of measuring turbidity between 0 - 1000 NTU and complete with a cable with at least 35 m in length (for example Hach 2100P or an approved similar instrument).

Salinity Measurement Instrument - A portable salinometer capable of measuring salinity in the range of 0 - 40 ppt was provided for measuring salinity of the water at each monitoring location.

Water Depth Gauge – A portable, battery-operated echo sounder (for example Seafarer 700 or a similar approved instrument) was used for the determination of water depth at each designated monitoring station. This unit will preferably be affixed to the bottom of the work boat if the same vessel is to be used throughout the monitoring programme. The echo sounder was suitably calibrated.

Positioning Device – A Global Positioning System (GPS) was used during monitoring to allow accurate recording of the position of the monitoring vessel before taking measurements. The Differential GPS, or equivalent instrument, was suitably calibrated at appropriate checkpoint (e.g. Quarry Bay Survey Nail) to verify that the monitoring station is at the correct position before the water quality monitoring commence.

Water Sampling Equipment - 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, was used. The water sampler has 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.

Total Residual Chlorine -Total residual chlorine (TRC) shall be measured in-situ using approved test kit.

b) Continuous Monitoring of Effluent Quality

2.9. The equipment to be used for the effluent quality monitoring was summarizes in Table 2.3.

| Equipment | Model |
|---|---|
| Refrigerated Sampler | Teledyne ISCO 5800 |
| Online sampler for real-time monitoring (Xylem WTW IQ SensorNet system and sensors) | DIQ/S 284-PR: Universal Transmitter to operate up to 4 digital IQ sensors, with PROFIBUS-connection |

 Table 2.3
 Parameters measured in the Continuous Monitoring of Effluent Quality

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| Equipment | Model |
|-----------|---|
| | TetraCon® 700 IQ SW: Digital 4 electrode conductivity cell, in seawater design, suited for heavily polluted water, for use with the IQ SENSOR NET. With integrated temperature sensor |
| | VisoTurb® 700 IQ SW: Digital turbidity sensor for industrial and seawater applications (ultrasonic cleaning) for use with the IQ SENSOR NET system |
| | SensoLyt® 700 IQ SW: Robust digital pH/ORP sensor for SensoLyt® SEA/ DWA/ECA/PtA pH/ORP electrodes, in sea water design, for use with the IQ SENSOR NET. With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function |
| | FDO®700 IQ SW: Digital calibration free optical D.O. sensor (universal use). Optimized for measuring and controlling the O2 input in seawater applications, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ SW, membrane cap SCFDO® 700 and protective cap MSK FDO® |
| | Chlorine 3017M: Online analyzer for photometric measurement of free and total chlorine, according to colorimetric DPD Method (ISO &US EPA); outputs (selectable): 4 to 20 mA or RS 485 |

Based on Section 5.1.3 of the EM&A Manual, the online sampler for real-time monitoring will be tested before use by HOKLAS-accredited laboratory and will be re-calibrated at monthly intervals throughout the stages of effluent quality monitoring.

SAMPLING / TESTING PROTOCOLS

2.10. All in situ monitoring instruments were checked, calibrated, and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at monthly intervals throughout the stages of the water

quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.

2.11. On-site calibration of field equipment was following the "*Guide to On-Site Test Methods for the Analysis of Waters*", BS 1427: 2009. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available so that monitoring can proceed uninterrupted even when equipment is under maintenance, calibration etc.

LABORATORY MEASUREMENT AND ANALYSIS

- a) Operation phase Marine Water Quality Monitoring
- 2.12. Sufficient volume of each water sample was collected for carrying out the laboratory analyses. Using chain of custody forms, collected water samples were transferred to a HOKLAS accredited laboratory (Acumen Laboratory and Testing Limit HOKLAS 241) for immediate processing. The determination work was start within the next working day after collection of the water samples. Analytical methodology and sample preservation of other parameters were based on the latest edition of Standard Methods for the Examination of Waste and Wastewater published by APHA, AWWA and WPCF and methods by USEPA, or suitable method in accordance with requirements of HOKLAS or another internationally accredited scheme. The QA/QC details were in accordance with the requirements of HOKLAS or another internationally accredited scheme.
- 2.13. Parameters for laboratory measurements, standard methods and detection limits are presented in **Table 2.4**.

| | cteetion mints of marine wate | | <u> </u> | |
|-------------------------|--|--------------------|--------------------|-----------|
| Parameters | Standard Methods | Detection Limit | Reporting Limit | Precision |
| Dissolved oxygen | Instrumental, CTD | 0.1 | - | ±25% |
| Temperature | Instrumental, CTD | 0.1 | - | ±25% |
| рН | Instrumental, CTD | 0.1 | - | ±25% |
| Turbidity | Instrumental, CTD | 0.1 | - | ±25% |
| Salinity | Instrumental, CTD | 0.1 | - | ±25% |
| Suspended Solids | APHA 23rd Ed 2540D | 1.0 | 2.5 | ±17% |
| Iron | APHA 3111 B | 0.2 | - | ±25% |
| Total residual chlorine | APHA 4500CL: G | 0.01mg/L | - | ±25% |
| Anti-scalant* | Anti-scalant [*] Content acrylic polymers determination method | | - | - |

Table 2.4Laboratory measurements, standard methods, and corresponding
detection limits of marine water quality monitoring

12

*Remark: A proposal for update anti-scalant monitoring under the operation phase EM&A programme is proposed via email on 27 May 2024. EPD has agreed to update the anti-scalant monitoring detection limit, action and limit level from 0.2 mg/L to 5.0 mg/L (EPD ref. ()In EP 2/N8/E/120 Pt.14).

b) Continuous Monitoring of Effluent Quality

2.14. Analyses of the sample shall be carried out using American Public Health Association Standard Method for the Examination of Water and Wastewater or other internationally accepted standard methods proposed by the Licensee and approved by the Authority which could achieve the monitoring requirement.

| | sus for continuous Montering of Endent Quanty |
|-----------------------------------|---|
| Parameters | Standard Methods |
| Flow Rate (m3 / day) | In-house method |
| Temperature(°C) | Instrumental |
| Salinity (º/₀₀) | Instrumental |
| pH (pH units) | Instrumental |
| Suspended Solids (mg / L) | APHA 2540E |
| Iron (mg / L) | APHA 3111 B |
| Total Inorganic Nitrogen (mg / L) | In-house method |
| Total Phosphorous (mg / L) | In-house method |
| Total Residual Chlorine | APHA 4500CL: G |
| Sodium Metabisulphite | |
| Anti-scalant 'ACUMER' 4035* | |

 Table 2.5
 Measurements Methods for Continuous Monitoring of Effluent Quality

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

MONITORING LOCATION

- a) Operation phase Marine Water Quality Monitoring
- 2.15. The operation phase water quality monitoring locations are in accordance with the EM&A Manual and detailed in **Table 2.6** below. A schedule for water quality monitoring was prepared by the ET and submitted to IEC and EPD prior to the commencement of the monitoring.



| Station | Easting | Northing | Description |
|---------|---------|----------|---|
| CE | 843550 | 815243 | Upstream control station at ebb tide |
| CF | 846843 | 810193 | Upstream control station at flood tide |
| WSR1 | 846864 | 812014 | Ecological sensitive receiver at Tung Lung Chau |
| WSR2 | 847645 | 812993 | Fisheries sensitive receiver at Tung Lung Chau |
| WSR3 | 848023 | 813262 | Ecological sensitive receiver at Tung Lung Chau |
| WSR4 | 847886 | 814154 | Ecological sensitive receiver at Tai Miu Wan |
| WSR16 | 845039 | 815287 | Ecological sensitive receiver at Fat Tong Chau |
| WSR33 | 847159 | 814488 | Ecological sensitive receiver at Tai Miu Wan |
| WSR36 | 846878 | 814081 | Ecological sensitive receiver at Kwun Tsai |
| WSR37 | 846655 | 813810 | Ecological sensitive receiver at Tit Cham Chau |
| NF1 | 846542 | 813614 | Edge of Mixing zone, ~ 200m west of outfall diffuser |
| NF2 | 846942 | 813614 | Edge of Mixing zone, ~ 200m east of outfall diffuser |
| NF3 | 846742 | 813414 | Edge of Mixing zone, ~ 200m south of outfall diffuser |

Table 2.6Location of Water Quality Monitoring Stations

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



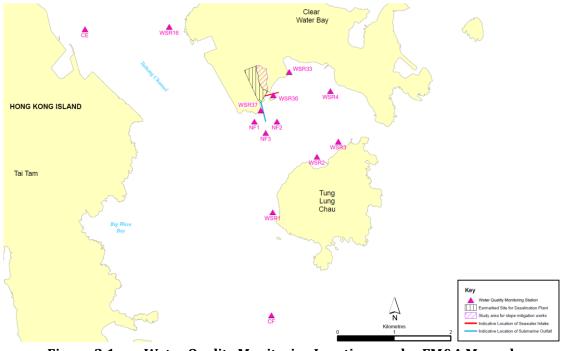
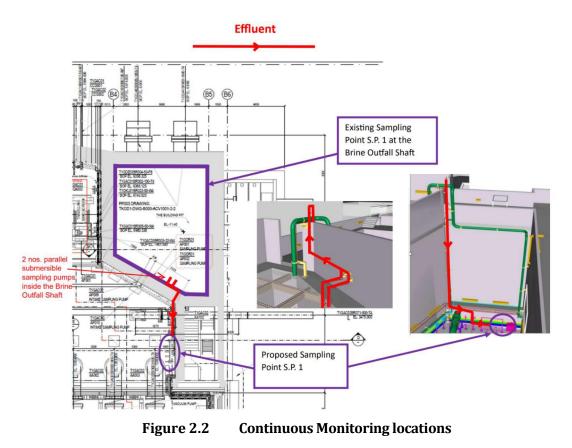


Figure 2.1 Water Quality Monitoring Locations under EM&A Manual

- b) Continuous Monitoring of Effluent Quality
- 2.17. In accordance with the discharge license, the Continuous Monitoring shall be sampling at Brine Outfall Shaft.



15



SAMPLING FREQUENCY

a) Impact Marine Water Quality Monitoring

2.18. Water quality monitoring was carried out three days per week during the operation phase. Monitoring at each station was undertaken once per day. The interval between two sets of monitoring was not less than 36 hours. The monitoring frequency would be increased in the case of exceedances of Action/Limit Levels if considered necessary by ET. Monitoring frequency would be maintained as far as practicable.

b) Continuous Monitoring of Effluent Quality

- 2.19. The effluent should be collected in a full 24-hour period. Twenty four-hour flowweighted composite effluent sample for subsequent chemical analysis and testing should be prepared by the following procedures:
 - Collect effluent sub-sample at bi-hourly interval over a 24 hour period
 - Obtain flow record of the Project for the 24-hour sampling period
 - Calculate the volume of each sub-sample for preparation of flow-weighted composite sample
 - Transfer the appropriate volume of sub-samples to a clean container and mix thoroughly

SAMPLING DEPTHS & REPLICATION

a) Operation phase Marine Water Quality Monitoring

- 2.20. During water quality monitoring, each station was sampled, and measurements/ water samples were taken at three depths, 1 m below the sea surface, mid-depth, and 1 m above the seabed. For in situ measurements, duplicate readings were made at each water depth at each station. Duplicate water samples were collected at each water depth at each station.
 - b) Continuous Monitoring of Effluent Quality
- 2.21. The effluent sampling should be planned carefully to ensure appropriate volume of effluent sub-samples is collected to prepare sufficient amount of flow-weighted composite effluent sample for carrying out subsequent chemical analysis and testing.

ACTION AND LIMIT LEVELS

2.22. The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in **Table 2.7** and **Table 2.8**.

a) Operation phase Marine Water Quality Monitoring

| Parameters | Derived Action and Limit Levels Action | Limit | | | |
|----------------|---|--|--|--|--|
| Operation pl | hase Marine Water Quality Monit | toring | | | |
| D0 in mg/L | Surface and Middle | Surface and Middle | | | |
| DO III IIIg/ L | $7.30 \text{ mg } \text{L}^{-1}$ | 4 mg L ⁻¹ | | | |
| | Bottom | Bottom | | | |
| | 7.31 mg L ⁻¹ | 2 mg L ⁻¹ | | | |
| | Tung Lung Chau Fish Culture Zone | Tung Lung Chau Fish Culture Zone | | | |
| | 5.1 mgL ⁻¹ or level at control station | 5.0 mgL ⁻¹ or level at control station | | | |
| | (Whichever the lower) | (Whichever the lower) | | | |
| | (whichever the lower) | | | | |
| SS in mg/L | 5.00 mg L ⁻¹ or 20% exceedance of | 6.00 mg L ⁻¹ or 30% exceedance of value | | | |
| (Depth- | value at any impact station | at any impact station compared with | | | |
| averaged) | compared with corresponding data | corresponding data from contro | | | |
| | from control station | station | | | |
| | | | | | |
| Turbidity in | 2.41 NTU or 20% exceedance of | 2.84 NTU or 30% exceedance of value | | | |
| NTU (Depth- | value at any impact station | at any impact station compared with | | | |
| averaged) | compared with corresponding data | corresponding data from contro | | | |
| | from control station | station | | | |
| Salinity in | 34.25 PSU or 9% exceedance of | 34.56 PSU or 10% exceedance of value | | | |
| PSU (Depth- | value at any impact station | at any impact station compared with | | | |
| averaged) | compared with corresponding data | corresponding data from contro | | | |
| averageuj | from control station | station | | | |
| | | Station | | | |
| Iron in mg/L | 0.3 mg/L | 0.3 mg/L | | | |
| (Depth- | | | | | |
| averaged) | | | | | |
| | | | | | |
| Total residual | 0.01 mg/L | 0.01 mg/L | | | |
| chlorine in | | | | | |
| mg/L | | | | | |
| *Anti-scalant | 5.0 mg/L | 5.0 mg/L | | | |
| in mg/L | | | | | |
| (Depth- | | | | | |
| averaged) | | | | | |

Table 2.7Derived Action and Limit Levels for Water Quality

17



Notes:

i."Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

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

iii.For Turbidity, SS, iron and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

iv.*A proposal for update anti-scalant monitoring under the operation phase EM&A programme is proposed via email on 27 May 2024. EPD has agreed to update the anti-scalant monitoring detection limit, action and limit level from 0.2 mg/L to 5.0 mg/L (EPD ref. ()In EP 2/N8/E/120 Pt.14).

b) Continuous Monitoring of Effluent Quality

Table 2.8Derived Limit Levels for Water Quality

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

*Remark:

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

MONITORING RESULTS AND OBSERVATIONS

a) Operation phase Marine Water Quality Monitoring

- 2.23. The operation phase of Tseung Kwan O Desalination Plant was commenced on 1 July 2024. Marine water quality monitoring for the operation phase of Tseung Kwan O Desalination Plant was conducted in the reporting period at the thirteen monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2 and NF3). The Action and Limit Level would be referred to the approved EM&A Manual Table 2.7.
- 2.24. The marine water quality monitoring was conducted at the thirteen monitoring stations on 2, 5, 7, 9, 12, 16, 19, 21, 23, 26, 28 and 30 November 2024.
- 2.25. The marine water quality monitoring on 14 November 2024 was cancelled due to the typhoon signal no.3.



- 2.26. Seven (7) of the operation phase water quality monitoring results of SS obtained had exceeded the Action Level. Thirty-six (36) of SS obtained during the reporting period had exceeded the Limit Level.
- 2.27. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 2, 5, 7, 9, 12, 16, 19, 21, 23, 26, 28 and 30 November 2024 were concluded to be unrelated to the Contract as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix K**.
- 2.28. Monitoring results of 8 key parameters: Salinity, DO, turbidity, SS, pH, temperature, Total Residual Chlorine and Iron in this reporting, are summarized in **Table 2.9**, and detailed results are presented in **Appendix F**.
 - b) Continuous Monitoring of Effluent Quality
- 2.29. Continuous Monitoring of Effluent Quality was conducted sampling point in the reporting month. No exceedance of the sampling was obtained during the reporting period. The detailed results are summarized in **Table 2.10**, and presented in **Appendix F.**
- 2.30. The plant was shut down from 7 a.m. to 7 p.m. on 3 November 2024. No effluent discharge from TKODP occurred during this period.
- 2.31. Due to the plant has suspended production, there was no effluent discharge from the TKODP during the period between 24 November 2024 and 30 November 2024.



Table 2.9Summary of Impact Water Quality Monitoring Results

| | | | | | | Parameters | | | | | |
|--------|-----------|-------|----------------------------|--------|-----------|------------|------------------|-------|--------|--------|--|
| Locati | Locations | | Dissolved Oxygen (mg/L) | | | Turbidity | Suspended Solids | Temp. | TRC | Iron | |
| | | (ppt) | Surface & Middle | Bottom | рН | (NTU) | (mg/L) | (°C) | (mg/L) | (mg/L) | |
| | Avg. | 32.06 | 8.48 | 8.51 | 8.18 | 2.41 | 3.29 | 26.55 | < 0.01 | <0.1 | |
| CE | Min. | 31.27 | 8.05 | 8.05 | 8.00 | 2.05 | 2.50 | 25.10 | < 0.01 | <0.1 | |
| | Max. | 33.14 | 8.98 | 8.96 | 8.36 | 2.69 | 6.00 | 27.57 | <0.01 | <0.1 | |
| | Avg. | 32.14 | 8.69 | 8.69 | 8.14 | 2.32 | 3.76 | 26.41 | <0.01 | <0.1 | |
| CF | Min. | 31.52 | 8.12 | 8.04 | 7.94 | 2.06 | 2.50 | 25.06 | < 0.01 | <0.1 | |
| | Max. | 33.23 | 9.21 | 9.26 | 8.41 2.66 | | 8.00 | 27.59 | < 0.01 | <0.1 | |
| | Avg. | 32.07 | 8.48 | 8.50 | 8.17 | 1.77 | 3.44 | 26.55 | < 0.01 | <0.1 | |
| WSR1 | Min. | 31.40 | 7.96 | 7.95 | 7.98 | 1.34 | 2.50 | 25.25 | < 0.01 | <0.1 | |
| | Max. | 32.42 | 9.22 | 9.33 | 8.32 | 2.18 | 9.00 | 27.81 | < 0.01 | <0.1 | |
| | Avg. | 32.07 | 8.71 | 8.73 | 8.14 | 1.73 | 3.38 | 26.49 | < 0.01 | <0.1 | |
| WSR2 | Min. | 31.05 | 7.91 | 7.91 | 8.00 | 1.40 | 2.50 | 25.00 | < 0.01 | <0.1 | |
| | Max. | 33.30 | 9.15 | 9.25 | 8.30 | 2.20 | 10.00 | 27.60 | < 0.01 | <0.1 | |
| | Avg. | 32.13 | 8.68 | 8.69 | 8.16 | 1.76 | 3.62 | 26.47 | < 0.01 | <0.1 | |
| WSR3 | Min. | 31.29 | 8.21 | 8.28 | 7.98 | 1.42 | 2.50 | 24.94 | < 0.01 | <0.1 | |
| | Max. | 32.90 | 9.24 | 9.25 | 8.36 | 2.09 | 12.00 | 27.80 | < 0.01 | <0.1 | |
| | Avg. | 32.07 | 8.52 | 8.52 | 8.15 | 1.86 | 3.53 | 26.56 | < 0.01 | <0.1 | |
| WSR4 | Min. | 31.00 | 8.02 | 8.00 | 7.91 | 1.47 | 2.50 | 25.15 | <0.01 | <0.1 | |
| | Max. | 32.84 | 9.27 | 9.19 | 8.33 | 2.21 | 7.00 | 27.71 | <0.01 | <0.1 | |
| | Avg. | 32.24 | 8.62 | 8.63 | 8.18 | 1.67 | 4.07 | 26.51 | < 0.01 | <0.1 | |
| WSR16 | Min. | 31.20 | 8.09 | 8.05 | 7.94 | 1.37 | 2.50 | 25.19 | <0.01 | <0.1 | |
| | Max. | 33.07 | 9.05 | 9.11 | 8.33 | 2.10 | 9.00 | 27.44 | < 0.01 | <0.1 | |

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Operation Phase Monthly EM&A Report No.5



| | | | | | | Paramet | ers | | | |
|-----------|------|----------|----------------------------|--------|------|-----------|------------------|-------|--------|--------|
| Locations | | Salinity | Dissolved Oxygen (mg/L) | | | Turbidity | Suspended Solids | Temp. | TRC | Iron |
| | | (ppt) | Surface & Middle | Bottom | рН | (NTU) | (mg/L) | (°C) | (mg/L) | (mg/L) |
| | Avg. | 32.10 | 8.47 | 8.49 | 8.20 | 1.77 | 3.53 | 26.55 | < 0.01 | <0.1 |
| WSR33 | Min. | 31.27 | 7.83 | 7.97 | 7.92 | 1.23 | 2.50 | 25.14 | < 0.01 | <0.1 |
| | Max. | 33.09 | 9.28 | 9.38 | 8.36 | 2.20 | 8.00 | 27.88 | < 0.01 | < 0.1 |
| | Avg. | 31.80 | 8.66 | 8.68 | 8.16 | 1.78 | 3.69 | 26.46 | < 0.01 | < 0.1 |
| WSR36 | Min. | 31.17 | 8.14 | 8.21 | 7.97 | 1.46 | 2.50 | 24.84 | < 0.01 | < 0.1 |
| | Max. | 32.54 | 9.14 | 9.13 | 8.32 | 2.13 | 11.00 | 27.36 | <0.01 | < 0.1 |
| | Avg. | 32.00 | 8.52 | 8.52 | 8.20 | 1.76 | 4.46 | 26.55 | <0.01 | < 0.1 |
| WSR37 | Min. | 31.04 | 7.75 | 7.72 | 8.04 | 1.48 | 2.50 | 25.13 | <0.01 | <0.1 |
| | Max. | 32.79 | 9.10 | 9.18 | 8.32 | 2.21 | 13.00 | 27.88 | <0.01 | <0.1 |
| | Avg. | 32.27 | 8.67 | 8.68 | 8.16 | 1.74 | 3.47 | 26.51 | < 0.01 | <0.1 |
| NF1 | Min. | 31.59 | 8.11 | 8.11 | 7.96 | 1.39 | 2.50 | 25.04 | < 0.01 | <0.1 |
| | Max. | 33.24 | 9.21 | 9.14 | 8.30 | 2.04 | 9.00 | 27.87 | < 0.01 | <0.1 |
| | Avg. | 32.05 | 8.49 | 8.48 | 8.13 | 1.71 | 4.14 | 26.49 | < 0.01 | < 0.1 |
| NF2 | Min. | 31.38 | 7.99 | 8.02 | 7.99 | 1.43 | 2.50 | 25.14 | < 0.01 | < 0.1 |
| | Max. | 32.84 | 9.24 | 9.11 | 8.28 | 2.14 | 15.00 | 27.57 | < 0.01 | < 0.1 |
| | Avg. | 32.11 | 8.72 | 8.70 | 8.15 | 1.67 | 3.78 | 26.50 | < 0.01 | < 0.1 |
| NF3 | Min. | 31.25 | 8.05 | 8.08 | 7.98 | 1.42 | 2.50 | 24.99 | < 0.01 | <0.1 |
| | Max. | 32.83 | 9.33 | 9.33 | 8.25 | 2.22 | 10.00 | 27.74 | < 0.01 | < 0.1 |

Notes:

i. "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood and mid-ebb tides at three water depths, except that of DO where the data for "Surface & Middle" and "Bottom" are calculated separately.

ii. Measurement data of Suspending Solids would be rounding to 2.5mg/L if the value was less than 2.5mg/L to facilitate data analysing.



Table 2.10 Summary of Continuous Effluent Monitoring Results

| | Sal (ppt) | рН | Temp (°C) | Total Residual Chlorine (mg/L) | Suspended Solids (mg/L) | Total Inorganic Nitrogen (mg/L) | Total Phosphorus (mg/L) | *Sodium Metabisulphite (mg/L) | Iron (mg/L) |
|------|-----------|------|--------------|---|----------------------------|--|-------------------------------|-------------------------------------|----------------|
| Avg. | 53.82 | 7.32 | 26.01 | 0.04 | 2.00 | 0.21 | 0.01 | <2 | <0.1 |
| Min. | 49.80 | 6.68 | 24.01 | 0.01 | <2 | 0.02 | <0.01 | <2 | <0.1 |
| Max. | 58.64 | 8.00 | 28.60 | 0.09 | 2 | 0.42 | 0.02 | <2 | <0.1 |

* Remark: As confirmed by various laboratories in Hong Kong, the lowest detection limit for Sodium Metabisulphite is <2 mg/L. Due to the limitation of the laboratory, the lowest result for Sodium Metabisulphite will only be shown as < 2 mg/L.

3. WASTE

3.1. The waste generated from this Contract includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the Contract are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Contract, the quantities of different types of waste generated in the reporting month are summarized in **Table 3.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix G**.

| Table 3.1 | Quantities of Waste Generated from the Contract during the reporting period |
|-----------|---|
|-----------|---|

| | Actu | al Quantities | s of Inert C&I |) Materials Ge | Actual Quantities of C&D Wastes Generated Monthly | | | | | | |
|--------------------|--------------------------------|--|------------------------------|--------------------------------|---|------------------|-------------|-----------------------------------|-------------------------|-------------------|---------------------------------------|
| Reporting Month | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper / cardboard packaging | Plastics ⁽¹⁾ | Chemical Waste | Others, e.g., general refuse |
| | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) |
| Nov 2024 | 237.790 | 0.000 | 0.000 | 0.000 | 237.790 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 62.300 |

Notes: (1) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

3.2. No dewatered sludge was generated by the operation in the reporting period.

4. LANDFILL GAS MONITORING

MONITORING REQUIREMENT

- 4.1. In accordance with Section 11 of the EM&A Manual, monthly monitoring of landfill gas is required for the first year of operation at buildings within the Project Site and consultation zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter freshwater mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.
- 4.2. Routine monitoring is required at buildings within the Project Site and consultation zones. The monitoring frequency will be monthly for the first year of operation.
- 4.3. For the manholes and utility pits within the Project Site and along the fresh water mains, each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement.
- 4.4. Monitoring of oxygen, methane, carbon dioxide and barometric pressure would be performed monthly during the operation phase.

MONITORING LOCATION

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

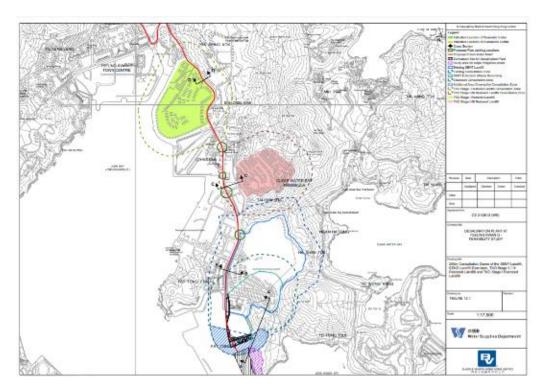


Figure 4.1 Overview of the SENT Extension Consultation Zone and the Contract Site Area 31

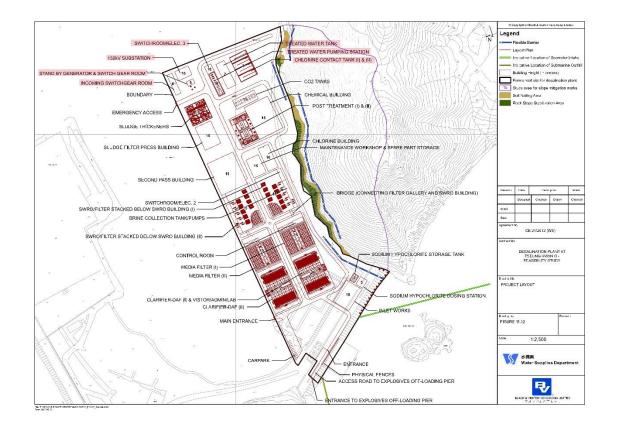


Figure 4.2 Landfill Gas Monitoring Location For Building

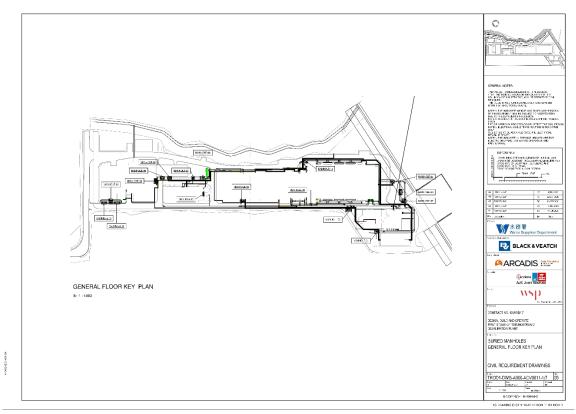


Figure 4.3 Landfill Gas Monitoring Location For Manholes/Pits

32

MONITORING PARAMETERS

4.6. The landfill gas monitoring parameters and the action and limit level are summarized in **Table 4.1**.

| Table 4.1 | Action and Limit Level for Landfill Gas Monitoring Equipment |
|-----------|--|
|-----------|--|

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

MONITORING EQUIPMENT

- 4.7. Landfill Gas monitoring was carried out using intrinsically-safe, portable multi-gas monitoring instruments. The gas monitoring equipment is:
 - Complying with the Landfill Gas Hazard Assessment Guidance Note as intrinsically safe;
 - Capable of continuous barometric pressure and gas pressure measurements;
 - Normally operated in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump;
 - Having low battery, fault and over range indication incorporated;
 - Capable of storing monitoring data, and shall be capable of being downloaded directly;
 - Measure in the following ranges:

| methane | 0-100% Lower Explosion Limit (LEL) and 0-100% v/v; |
|---------------------|--|
| oxygen | 0-25% v/v; |
| carbon dioxide | 0-5% v/v; and |
| barometric pressure | mBar (absolute) |

• alarm (both audibly and visually) in the event that the concentrations of the following are exceeded:

| methane | >10% LEL; |
|---------------------|-----------------|
| oxygen | <19% |
| carbon dioxide | >0.5% by volume |
| barometric pressure | mBar (absolute) |

4.8. Monitoring equipment used in the reporting period are summarized in **Table 4.2**. The Landfill Gas monitoring equipment calibration certificate is presented in **Appendix E**.

Table 4.2Landfill Gas Monitoring Equipment

| Equipment | Brand and Model | Calibration Expiry Date |
|-----------------------|-----------------|-------------------------|
| Portable Gas Detector | Altair 5X | 22 April 2025 |

MONITORING RESULTS AND OBSERVATIONS

4.9. In this reporting period, monthly landfill gas monitoring was conducted on 14 and 15 November 2024. No exceedances of action level and limit level was observed. The detail of result was presented in **Appendix F**.

5. LANDSCAPE

MONITORING REQUIREMENTS

5.1. In accordance with Section 8.1 of the EM&A Manual, weekly site audit shall be carried out by the ET include checking whether good site practices are being properly implemented by the Contractor and the extent of the works area within the Clear Water Bay Country Park should be checked by the ET during the weekly site audit.

SITE INSPECTION

- 5.2. Weekly site audit was carried out by the ET in the reporting month, no trespass by the Contractor outside the works area of the Project and Clear Water Bay Country Park, and no damage to the vegetation and rocky shore outside the Project area was observed in the reporting month. All plants were observed to be in satisfactory condition in the reporting month.
- 5.3. If non-compliance were found during the operation phase, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix D**.

6. ECOLOGY (CORAL MONITORING)

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

MONITORING LOCATION

6.2. In accordance with Appendix B Section 5.1 of the approved supplementary EM&A Manual, two indirect impact sites (C2 and C3) and one control site (C8) as shown in **Figure 6.1** should be monitored during the operation Phase. Operation coral survey should be conducted at the indirect impact and control sites. Ten selected hard coral colonies with similar species should be tagged at each of the control and indirect impact sites before commencement of the operation phase. Tagged hard coral colonies should be monitored in open waters during the operation phase.

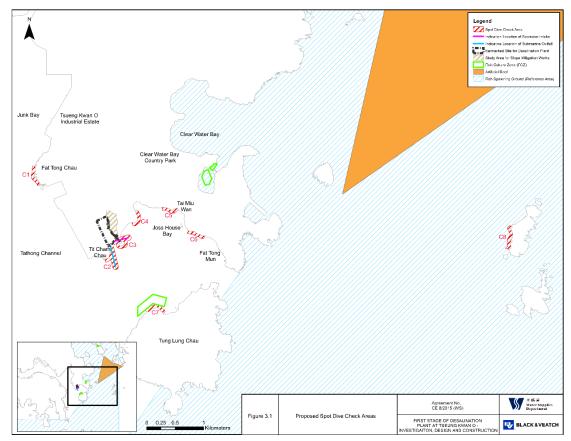


Figure 6.1 Spot Dive Check Areas Two Proposed Indirect Impact Sites (C2 and C3) and one control site (C8) during Operation Phase

ACTION AND LIMIT LEVELS

6.3. The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in Table 6.1.

Table 6.1Action and Limit Level for Coral Monitoring Equipment

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

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

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

MONITORING FREQUENCY

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

MONITORING RESULT AND OBSERVATION

6.6. Operation phase coral monitoring works was conducted on 11 November 2024. A total of 30 tagged coral colonies (10 at control site and 20 and two indirect impact sites) were monitored. All coral colonies were good in general. The detail of the monitoring is presented in **Appendix H**.

7. ECOLOGY (FISHERY MONITORING)

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

MONITORING LOCATION

- 7.2. In accordance with Section 2.3 of the approved Methodology Paper on Regular Fisheries Monitoring, it is recommended to set up six (6) fisheries monitoring locations in Joss House Bay and its vicinity to monitor the fisheries resources.
- 7.3. Two (2) sampling locations are set up in close proximity of the direct footprint of the proposed submarine utilities around TKO Area 137. These sampling locations represent the potential Project impact zones (i.e. areas at and in close proximity to the footprint of the proposed submarine utilities that will be directly affected by the Project works).
- 7.4. Two (2) gradient locations are proposed between the proposed submarine utilities and Tung Lung Chau FCZ to assist in the interpretation and identification of any potential fisheries impact in the vicinity of the FCZ.
- 7.5. Two (2) reference locations are proposed in the outer Joss House Bay between the waters of Tung Lung Chau and Fat Tong Mun. These reference locations are further away and will not be affected by the Project discharge (based on the EIA prediction) and will serve as control stations. Any significant fisheries impact identified at the reference locations should be caused by other natural factors or non-Project activities. The trends of fisheries conditions recorded in the reference locations will be used to assist in the interpretation of the trends of fisheries impact identified in the impact and gradient locations.
- 7.6. The coordinates of the proposed monitoring locations are shown in **Figure 7.1**.

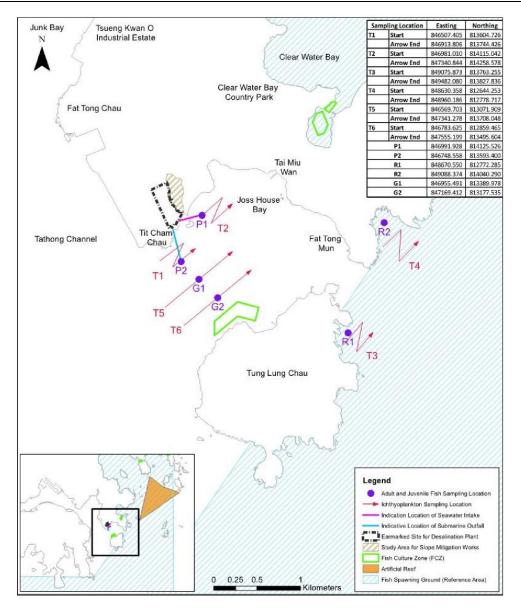


Figure 7.1 Monitoring Location of Regular Fishery Monitoring during Operation Phase

MONITORING FREQUENCY

- 7.7. Operation phase fishery monitoring shall be carried out 2 times in wet season (April to October) and 2 times in dry season (November to March) to examine the following:
 - Fish species composition;
 - Abundance: number of fish captured;
 - Diversity of fish resources: species diversity and evenness;
 - Size: range of total length; Biomass in weight; and
 - Values of catches of commercial species: catch per unit effort (CPUE) and yield per unit effort (YPUE).

MONITORING RESULT AND OBSERVATION

7.8. Operation phase fishery monitoring for wet season 2024 was carried out on 24 and 31 August 2024. The detail of the monitoring was presented in the 4th Operation Phase Monthly EM&A Report.

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

8.1. The Environmental Complaint Handling Procedure is shown in below **Figure 9.1**:

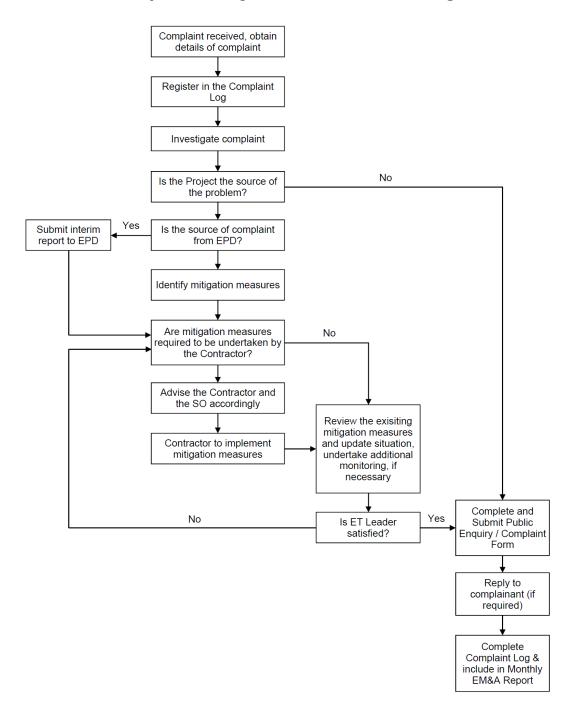


Figure 9.1 Environmental Complaint Handling Procedures

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- 8.2. Operation phase EM&A works for water quality were conducted at the thirteen monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 NF1, NF2 and NF3) during the reporting period in accordance with the EM&A Manual
- 8.3. The marine water quality monitoring was conducted at the thirteen monitoring stations on 2, 5, 7, 9, 12, 16, 19, 21, 23, 26, 28 and 30 November 2024. Seven (7) of SS obtained had exceeded the Action Level. Thirty-six (36) of SS obtained during the reporting period had exceeded the Limit Level. After investigation, all exceedances were concluded unrelated to the Project.
- 8.4. The marine water quality monitoring on 14 November 2024 was cancelled due to the typhoon signal no.3.
- 8.5. Continuous Monitoring of Effluent Quality was conducted sampling point in the reporting month. No exceedance of the sampling was obtained during the reporting period.
- 8.6. The plant was shut down from 7 a.m. to 7 p.m. on 3 November 2024. No effluent discharge from TKODP occurred during this period.
- 8.7. Due to the plant has suspended production, there was no effluent discharge from the TKODP during the period between 24 November 2024 and 30 November 2024.
- 8.8. Operation phase coral monitoring works was conducted on 11 November 2024. There is no AL/LL exceedance during the monitoring period. The detail of the monitoring was presented in **Appendix H**.
- 8.9. Operation phase fishery monitoring for wet season 2024 was carried out on 24 and 31 August 2024. The detail of the monitoring was presented in the 4th Operation Phase Monthly EM&A Report.
- 8.10. In this reporting period, monthly landfill gas monitoring was conducted on 14 and 15 November 2024. No exceedances of action level and limit level was observed.
- 8.11. No environmental complaint, notification of summons and prosecution Statistics on complaint and notification of summons and prosecution are summarized in **Appendix J**.

9. EM&A SITE INSPECTION

9.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 5, 14, 18 and 26 November 2024 at the site portions listed in **Table 10.1** below.

| Date | Inspected Site Portion | Time |
|------------------|------------------------|---------------|
| 5 November 2024 | TKO Area 137 | 14:30 - 15:30 |
| 14 November 2024 | TKO Area 137 | 14:30 - 15:30 |
| 18 November 2024 | TKO Area 137 | 09:30 - 10:30 |
| 26 November 2024 | TKO Area 137 | 09:15 - 12:30 |

- 9.2. Joint site inspections with IEC were carried out on 26 November 2024.
- 9.3. Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 10.2**.

| Table 10.2 S | ite Observations |
|--------------|------------------|
|--------------|------------------|

| Date | Environmental Observations | Follow-up Status |
|------------------|--|------------------|
| 5 November 2024 | No major environmental deficiency was observed. | N/A |
| 14 November 2024 | No major environmental deficiency was observed. | N/A |
| 18 November 2024 | No major environmental deficiency was observed. | N/A |
| 26 November 2024 | No major environmental deficiency was observed. | N/A |

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

10. FUTURE KEY ISSUES

- 10.1. Works to be undertaken in the next reporting month are:
 - Potable Water Production
- 10.2. The major environmental impacts brought by the above operation works include:
 - Effluent of the water production work and system cleaning works;
 - Waste generation from the operation activities
- 10.3. The key environmental mitigation measures implemented for the Contract in this reporting period associated with the above operation works include:
 - Regularly monitoring of the effluent
 - Sorting and storage of general refuse and operation waste

11. CONCLUSIONS AND RECOMMENDATIONS

- 11.1. This is the 5th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 November 2024 to 30 November 2024, in accordance with the EM&A Manual and the requirement under FEP-01/503/2015/B.
- 11.2. The EM&A works for operation phase water quality were conducted during the reporting period in accordance with the EM&A Manual. Seven (7) of SS obtained had exceeded the Action Level. Thirty-six (36) of SS obtained during the reporting period had exceeded the Limit Level. After investigation, all exceedances were concluded unrelated to the Project.
- 11.3. Continuous Monitoring of Effluent Quality was conducted sampling point in the reporting month. No exceedance of the sampling was obtained during the reporting period.
- 11.4. The plant was shut down from 7 a.m. to 7 p.m. on 3 November 2024. No effluent discharge from TKODP occurred during this perio
- 11.5. Due to the plant has suspended production, there was no effluent discharge from the TKODP during the period between 24 November 2024 and 30 November 2024.
- 11.6. Operation phase coral monitoring works was conducted on 11 November 2024. There is no AL/LL exceedance during the monitoring period.
- 11.7. Operation phase fishery monitoring for wet season 2024 was carried out on 24 and 31 August 2024. The detail of the monitoring was presented in the 4th Operation Phase Monthly EM&A Report.
- 11.8. In this reporting period, monthly landfill gas monitoring was conducted on 14 and 15 November 2024. No exceedances of action level and limit level was observed.
- 11.9. Weekly environmental site inspections were conducted during the reporting period. Observations and reminders were reported during the site inspections. All items are rectified within the reporting period. The environmental performance of the project was therefore considered satisfactory.
- 11.10.No environmental complaint, notification of summons and prosecution was received in the reporting period.
- 11.11.The ET will keep track on the operation works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

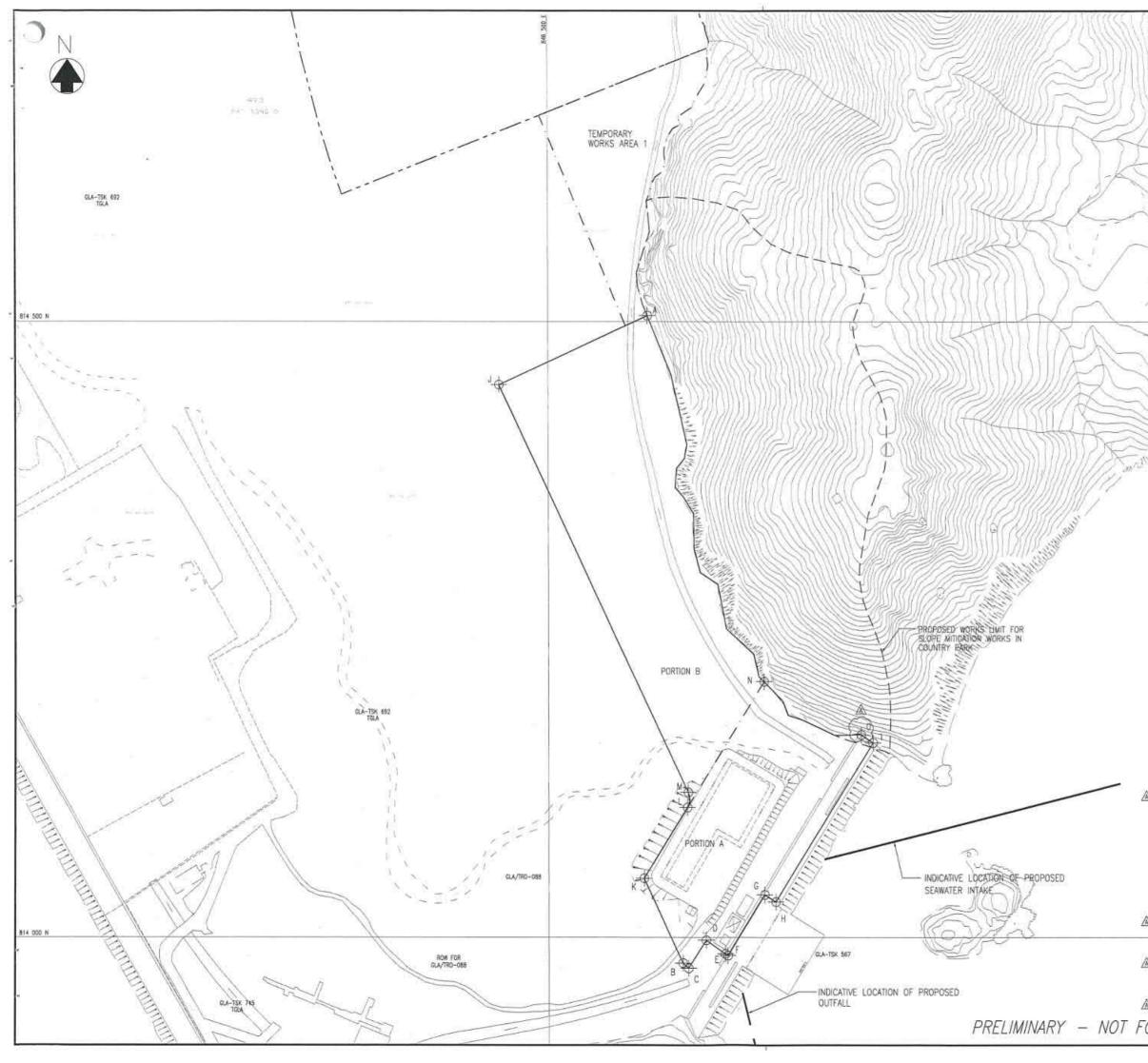
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Appendix A

Overview of Desalination Plant in Tseung Kwan O

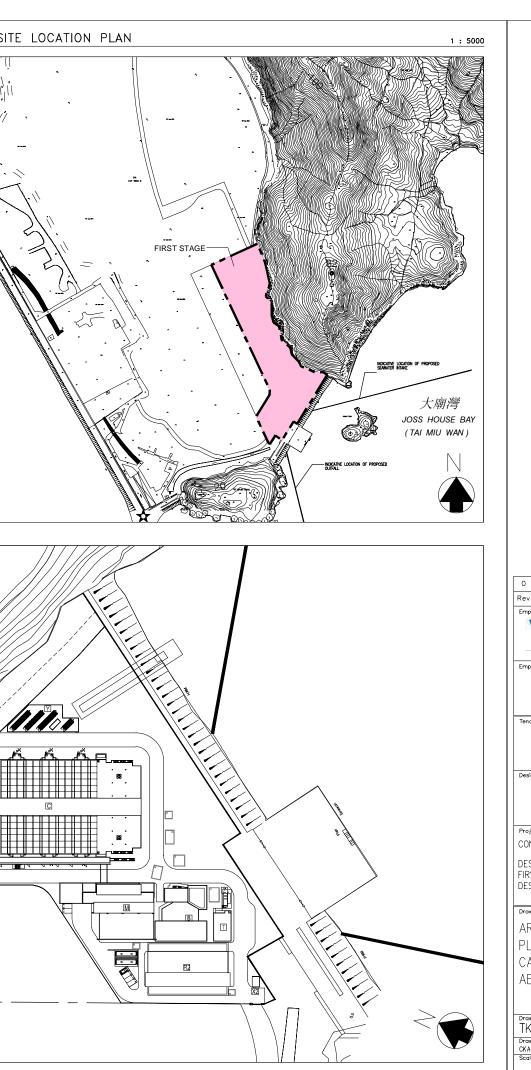


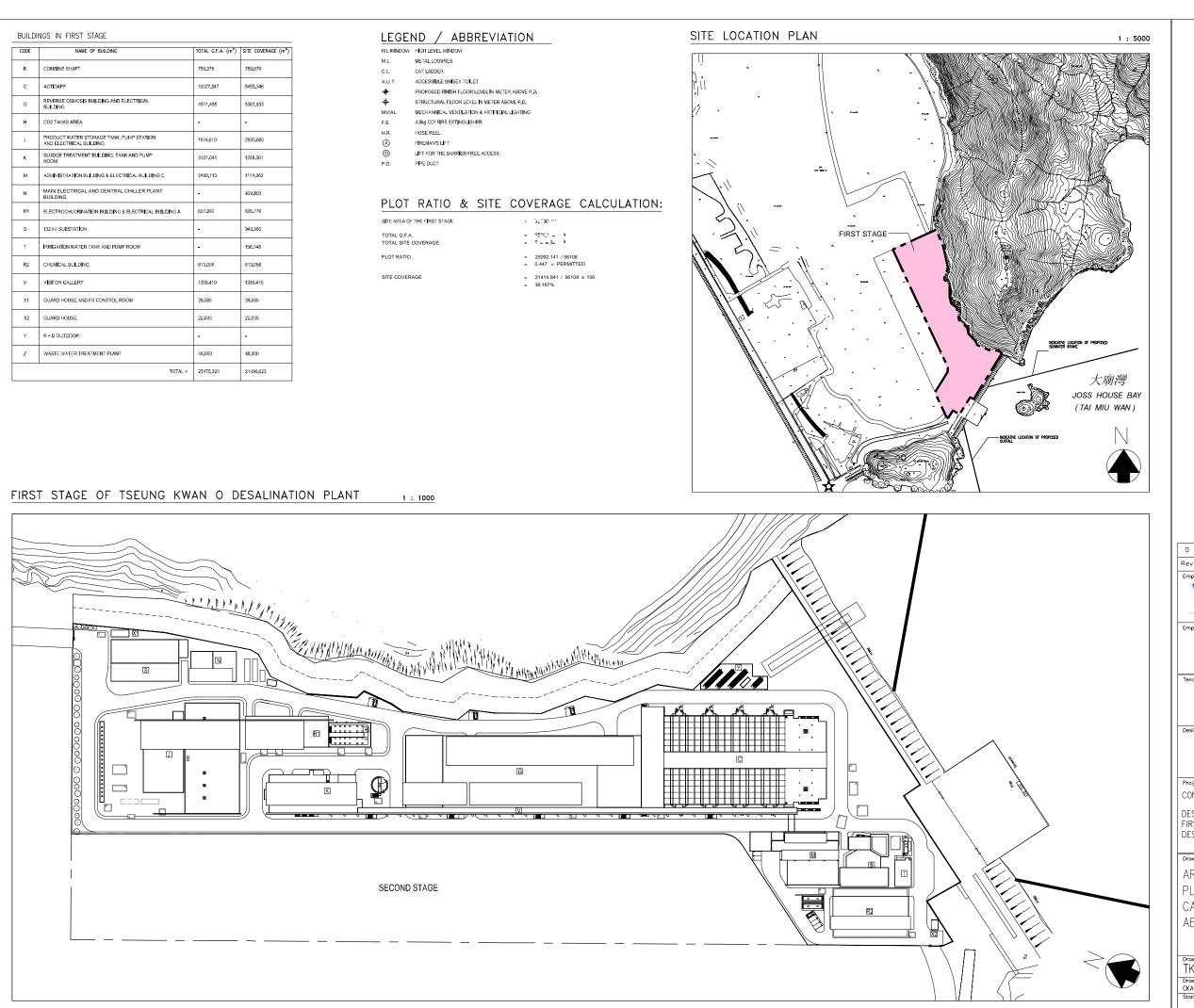
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| | | 51 | | NOTE: | TEMPORARY WORKS AREA 1 HANDED OVER AT +6 MPD 1 TOLERANCE OF #500mm. | |
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| | A B C | 846581.93 846610.11 846614.73 | 814505.03 813979.23 813975.12 | A 07/18 Review Deta Designed Initial YLC Dete 02/18 Approved Agreement No. C Controct No. C Controct Tible DESIGN FIRST ST/ | UPDATE COORDINATES Description CKH S2 02/18 02/18 02/18 KMMC E 8/2015 (WS) 13/WSD/17 I, BUILD AND OPER. AGE OF TSEUNG KW | YLC Initial Checked WLS 02/18 |
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| | | 846581.93 846610.11 846614.73 846629.09 846644.75 846644.75 846646.80 846677.24 846677.24 846686.56 8466766.21 8466578.45 846578.45 | 814505.03 813979.23 813979.23 813997.84 813997.84 813985.28 814034.67 814028.89 814028.89 814158.11 814448.83 814048.11 814105.83 | A 07/18 Review Deta Designed Initial YLC Deta 02/18 Approved Apreement Ne. Contract Title DESIGN FIRST ST/ DE Drowing Title Drowing No. 190495/1 | UPDATE COORDINATES Description Decked Diset CKH SZ | ATE 0 CAS Revision B CAS |

| CODE | NAME OF BUILDING | TOTAL G.F.A. (m²) | SITE COVERAGE (m ² |
|------|---|-------------------|-------------------------------|
| в | COMBINE SHAFT | 759.876 | 759.876 |
| с | ACTIDAFF | 10027.547 | 5455.346 |
| G | REVERSE OSMOSIS BUILDING AND ELECTRICAL BUILDING | 4511 <u>.</u> 455 | 5367.935 |
| н | CO2 TANKS AREA | - | - |
| J | PRODUCT WATER STORAGE TANK, PUMP STATION AND ELECTRICAL BUILDING | 1974.610 | 2933.980 |
| к | SLUDGE TREATMENT BUILDING, TANK AND PUMP ROOM | 2531.044 | 1228.361 |
| м | ADMINISTRATION BUILDING & ELECTRICAL BUILDING C | 2459 <u>.</u> 713 | 1114.062 |
| Ν | MAIN ELECTRICAL AND CENTRAL CHILLER PLANT BUILDING | - | 459,893 |
| R1 | ELECTROCHLORINATION BUILDING & ELECTRICAL BUILDING A | 657.992 | 825.776 |
| S | 132 KV SUBSTATION | - | 943.560 |
| т | IRRIGATION WATER TANK AND PUMP ROOM | - | 156.148 |
| R2 | CHEMICAL BUILDING | 813.056 | 813.056 |
| v | VISITOR GALLERY | 1330.410 | 1330.410 |
| X1 | GUARD HOUSE AND FS CONTROL ROOM | 39.585 | 39.585 |
| X2 | GUARD HOUSE | 22.035 | 22.035 |
| Y | R + D OUTDOOR | - | - |
| z | WASTE WATER TREATMENT PLANT | 48.000 | 48.000 |
| | TOTAL = | 25175.323 | 21498.023 |

- A.U.T.

| SITE AREA OF THE FIRST STAGE | = 2°.,X; |
|-------------------------------------|--|
| TOTAL G.F.A. TOTAL SITE COVERAGE | = 9570,2 = 3 |
| PLOT RATIO | = 25092.141 / 56108 = 0.447 < PERMITTED |
| SITE COVERAGE | = 21414.841 / 56108 x 100 |





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Appendix B

Summary of Implementation Status of Environmental Mitigation



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | - | emer Stag | ntation | Implementation status | Relevant Legislation & Guidelines |
|-------------------|--|---|----------------------|----------|--------------|---------|--------------------------|--|
| | o , | main concerns to address | | D | C | 0 | 50000 | |
| Air Qualit | y | | | <u> </u> | | | | |
| S4.8.1 | Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites. | Land site/ During construction/ During Operation | Contractor(s) | | √ | ~ | Implemented | Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites |
| Water Qua | ality | | | <u> </u> | | | | |
| S6.9 and S6.12 | The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer. | Sterilization of water mains prior to commissioning | Contractor(s) | | • | ~ | N/A | Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems |
| S6.9 | The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging. | Sterilization of water mains prior to commissioning | Contractor(s) | | ~ | • | Implemented | Inland and Coastal Waters |
| S6.9 | Site drainage should be well maintained, and good construction practices should be observed to ensure that oil, fuels, solvents, and other chemicals are managed, stored and handled properly and do not enter the nearby water streams. | Land site & drainage/ During construction/ During operation | Contractor(s) | | • | • | Implemented | - |
| Waste Ma | nagement | | | | | | | |
| S8.5 | Provision of sufficient waste disposal points and regular collection for disposal. | All area/ During construction/ During operation | Contractor(s) | | • | | Implemented | DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness. |
| S8.5 | Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ~ | • | Implemented | Waste Disposal (Chemical Waste) |
| S8.5 | Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD. | All area/ During construction/ During operation | Contractor(s)/ WSD | | 1 | 1 | Implemented | (General) Regulation; Code of Practice on the Packaging, |
| S8.5 | A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ~ | • | Implemented | Handling and Storage of Chemical Wastes |

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | - | | ntation | Implementation status | Relevant Legislation & Guidelines |
|-------------------|---|--|----------------------|----------|---|----------|-------------------------------|--|
| Reference | Mugation Measures | main concerns to address | | StageDCO | | | status | & Guidennes |
| S8.5 | Storage areas for chemical waste shall be enclosed on at least 3 sides. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | ↓ ↓ | Implemented | |
| S8.5 | Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | • | Implemented | |
| S8.5 | Storage areas for chemical waste shall have adequate ventilation. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ~ | - | Implemented | |
| S8.5 | Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary). | All area/ During construction/ During operation | Contractor(s)/ WSD | | ~ | • | Implemented | |
| S8.5 | Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | • | Implemented | |
| S8.5 | General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | • | Implemented after reminder | |
| S8.5 | Adequate number of waste containers will be provided to avoid over-spillage of waste. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | * | Implemented | DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness. |
| S8.5 | A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | • | Implemented | - |
| S8.5 | Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminum can, wastepaper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ✓ | √ | Implemented | - |
| Landscape | | | T | 1 | | | l | |
| S11.10 & 11.11 | The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | | ~ | | Implemented | - |

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|--------------------|--|--|----------------------|-------------------------|----------|----------|--------------------------|---|
| | | main concerns to address | concerns to address | | С | 0 | | |
| S11.10 & 11.11 | At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | √ | √ | • | Implemented | - |
| \$11.10 & 11.11 | Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to: - green roofs where practical (i.e. without equipment on the roof); - roadside planting; - aesthetic treatment of all structures; - vertical greening; - screen planting along application site; and - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible, to reduce their visual impact and blend them into the surrounding landscape. (MM3) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | ~ | • | Implemented | - |
| S11.10 & 11.11 | All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | - | • | • | Implemented | ETWB TCW No. 3/2006 - Tree Preservation. |
| \$11.10 & 11.11 | No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | • | ~ | Implemented | DEVB TC(W) No. 10/2013 |
| S11.10 & 11.11 | Any slope mitigation works necessary to address natural terrain hazards, will be minimized to minimize any potential environmental impact to the Country Park e.g. soil nailing and rock stabilization will aim to avoid existing trees e.g. should any restoration of vegetation be necessary, the best planting matrix with native species will be established, with the aim of resembling the existing vegetation. (MM6) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | • | ~ | Implemented | |
| S11.10 & 11.11 | Dredging works for the installation of intake structures and outfall diffusers should be minimized to avoid or reduce any potential environmental impacts to as low as reasonably practicable (ALARP). The intake and outfall structures (e.g. intake openings and diffuser heads) will be prefabricated and transferred to site for | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | • | • | Implemented | |



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | Imp | lemer Stag | ntation e | Implementation status | Relevant Legislation & Guidelines |
|-------------------|---|--|----------------------|----------|---------------|--------------|--------------------------|--------------------------------------|
| nerer ence | | main concerns to address | | D | C | 0 | | |
| | installation. (MM7) | | | | | | | |
| S11.10 & 11.11 | All night-time lighting will be reduced to a practical minimum both in terms of number of level and will be hooded and directional. (MM8) units and lux level and will be hooded and directional. (MM8) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | - | • | - | Implemented | - |
| Landfill Ga | | | • | | | | | |
| S12.7 | During all works, safety procedures should be implemented to minimize the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater. | All area/ Detailed design/ During construction/operation | Contractor(s) | | √ | ~ | Implemented | - |
| S12.7 | During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 meter. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | • | ~ | Implemented | |
| S12.7 | The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance. Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations. | All area/ Detailed design/ During construction/operation | Contractor(s) | √ | • | • | Implemented | |
| S12.7 | Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade. | All area/ Detailed design/ During construction/operation | Contractor(s) | - | • | ~ | Implemented | |
| S12.7 | All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it. | All area/ Detailed design/ During construction/operation | Contractor(s) | ~ | • | ~ | Implemented | |
| S12.7 | Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the concentrations of methane. carbon dioxide and oxygen. | All area/ Detailed design/ During construction/operation | Contractor(s) | • | • | ~ | Implemented | |
| S12.7 | Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented. | All area/ Detailed design/ During construction/operation | Contractor(s) | - | • | ~ | Implemented | |

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant



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| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | Imp | lemei Stag | ntation se | Implementation status | Relevant Legislation & Guidelines |
|------------------|---|---|----------------------|-----------------------|---------------|---------------|--------------------------|--------------------------------------|
| | | main concerns to address | | D | C | 0 | | |
| S12.7 | Proceed drilling with adequate care and precautions against the potential hazards which may be encountered. | All area/ Detailed design/ During construction/operation | Contractor(s) | 1 | √ | ~ | Implemented | |
| S12.7 | Prior to the commencement of the site works, the drilling contractor should devise a 'method-of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, <i>supervisors</i> responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site <i>supervisor</i> and all operatives must be familiar with this statement. | All area/ During construction/operation | Contractor(s) | • | • | ~ | Implemented | |
| S12.7 | Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence grilled metal covers should be used. | All area/ Detailed design/ During construction/operation | Contractor(s) | • | • | ~ | N/A | |
| S12.7 | It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months. | All area/ Detailed design/ During construction/operation | Contractor(s) | • | • | * | N/A | |
| S12.7 | The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring. | All area/ Detailed design/ During construction/operation | Contractor(s) | • | ~ | × | Implemented | |
| S12.7 | All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site. | All area/ Detailed design/ During construction/operation | Contractor(s) | ✓ | • | × | Implemented | |

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





Appendix C

Impact Monitoring Schedule

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Water Quality Monitoring Schedule (November 2024)

| un Mon | Tue | | Wed | Thu | Fri | Sat |
|---|-------|--|-----|--|-----|---|
| | | | | | 1 | 2 |
| | | | | | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb.08.00 - 09.54 |
| | | | | | | |
| 4 | 5 | | 6 | 7 | 8 | 9 |
| | CE, C | Impact Water Quality monitoring for CF, WSR1, WSR2, WSR3, WSR4, WSR46, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood:08:00 - 10:50 | | Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood:08:53 - 12:23 | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:00 - 09:12 |
| 0 11 | 12 | | 13 | 14 | 15 | 16 |
| | | Impact Water Quality monitoring for CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb-08:00 - 10:35 | | Impact Water Quality mentioning for CE, CF, WRH, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, WRRJ, Wastering Period. Mid eb:06:54-1224 (Cancelled) | | Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR4, WSR3 WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb:10:30 - 14:00 |
| 7 18 | 19 | | 20 | 21 | 22 | 23 |
| | CE, C | Impact Water Quality monitoring for CF, WSR1, WSR2, WSR4, WSR4, WSR46, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:00-11:11 | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR36, WSR37, NF1, NF2, NF3 WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 09-38 - 13:08 | | Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR3 WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:00 - 09:15 |
| 25 | 26 | | 27 | 28 | 29 | 30 |
| | CE, C | Impact Water Quality monitoring for CF, WSR1, WSR2, WSR4, WSR4, WSR46, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:00 - 10:38 | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR36, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:38 - 12:08 | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR36, WSR37, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 09:51 - 13:21 |
| Remarks: . Monitoring Parameters: Dissolved oxygen, Temperature, pH, Turbid !. Typhoon Signal No.3 was hosted on 14 November 2024. Due to the : | | Thlorine | | | | |

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Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Tentative Water Quality Monitoring Schedule (December 2024)

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | <u>.</u> | J Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR66, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:04-11:34 | • | Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:22-11-52 | • | Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 10:15-13:45 |
| | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood.08.00 - 09:57 | | Inspect Water Quality monitoring for CE: CF: WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb.08:00 - 11:04 | | Impact Water Quality monitoring for CE. CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 09:29 - 12:59 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:00-10:14 | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:16-11-16 | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR4, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood.09:37 - 13:07 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | - | Impact Water Quality monitoring for CE, CF, WSRL, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:00-09:03 | | Inspect Weter Quality monitoring for CE: CF: WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:00 - 10:33 | | Impact Water Quality monitoring for CE. CF, WNR1, WNR2, WNR4, WNR46, WNR33, WNR36, WNR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 09:20 - 11:44 |
| 29 | 30 | 31 | | | | |
| | | Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:00 - 10:51 | | | | |
| emarks: Monitoring Parameters: Dissolved oxygen. Temperature, pH, Turbidity, Samended Solids, Iron, Total Residual Chlorine Typhona Sigual No.3 was hoted on 14 November 2024, Due to the safety reasons, the monitoring was cancelled. Join: Due to safety concern of vessel transportation earlier than (1700, Water Quality Monitoring would start at (1800). Prioritized routing: Mid-ebb: CE-+WSR16-+WSR37-+WSR36WSR3WSR3WSR3WSR3WSR4Remaining stations | | | | | | |

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Landfill Gas Monitoring Schedule (November 2024)

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| 24 | 43 | 26 | <i>41</i> | 20 | 27 | 30 |
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| Pamarke | | | | | | |
| emarks: Monitoring Parameters: Oxygen, Methane, Carbon Dioxide and Barometric Pressure | | | | | | |
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Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Tentative Landfill Gas Monitoring Schedule (December 2024)

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| rmarks: Monitoring Parameters: Oxygen, Methane, Carbon Dioxide and Barometric Pressure | | | | | | | |
| Monitoring Parameters: Oxygen, Methane, Carbon Di | ioxide and Barometric Pressure | | | | | | |
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| Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant | | | | | | | | | | |
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| Ecological Monitoring Schedule Nov-24 | | | | | | | | | | |
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| e schedule may change o | due to unforeseen circumstances (adverse weather, etc.) | | | | | | | | | |

| Decata Decata Name Name Name Second 2 3 4 8 6 7 2 3 4 8 6 7 2 3 4 8 6 7 2 3 1 1 1 1 1 3 9 1 1 1 1 1 1 4 9 1 | | Desig | n, Build and Operate First | ct No. 13/WSD/17 Stage of Tseung Kwan O | Desalination Plant | |
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Appendix D

Event / Action Plan



Table D1Event and Action Plan for Water Quality Monitoring

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

Notes : ET = Environmental Team, IEC = Independent Environmental Checker; ER = Engineering Representatives The above actions should be taken within 1 working day after the exceedance is identified during operation phase.



Table D2Event and Action Plan for Ecology during Operation Phase

| Event | 1. | | | Act | ion | | | | | |
|--|----------------------------|---|----------------------------|---|----------------------|---|----------------|--|--|--|
| Event | ET | N. | IEC | | Contractor(s) | | | ER | | |
| Non- conformity on one occassion | 1. 2. 3. 4. | Identify source Inform IEC and ER Discuss remedial actions with IEC, the ER and the Contractor Monitor/ audit/ review remedial actions until rectification has been completed | 1, 2, 3, 4, 5, | Check monitoring/ auditing results Check the Contractor's working method Discuss with the ET and Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures Check the implementation of remedial measures | 1. 2. 3. | Take immediate action to avoid further problem Amend working methods if needed Submit proposals for remedial actions to ET, ER and IEC Rectify damage and implement the agreed remedial actions | 1. 2. 3. | Notify Contractor Ensure remedial measures are properly implemented Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works in case of serious non-conformity until situation i rectified | | |
| Repeated Non- comformity | 1. 2. 3. 4. 5. | Identify source Inform IEC, ER, EPD and AFCD Increase monitoring and audit frequency Discuss remedial actions with the IEC, the ER and the Contractor Monitor/ audit/ review remedial actions until rectification has been completed If non-conformity stops, cease additional monitoring/ auditing | 1. 2. 3. 4. 5, | Check monitoring/ auditing results Check the Contractor's working method Discuss with the ET and Contractor on possible remedial measures Supervise the implementation of remedial measures Advise the ER on effectiveness of proposed remedial measures and keep EPD and AFCD informed | 1. 2. 3. 4. | Take immediate action to avoid further problem Amend working methods if needed Submit proposals for remedial actions to ET, ER and IEC Rectify damage and implement the agreed remedial actions | 1. 2. 3. | Notify Contractor Ensure remedial measures are properly implemented Consider and instruct, if necessary, the Contactor to slow down or to stop all or part of the works in the case of serious non-conformity until situation is rectified | | |

Notes : ET = Environmental Team, IEC = Independent Environmental Checker; ER = Engineering Representatives



Table D3Event and Action Plan for Operation Phase Coral Monitoring

| Parame | Action | | | | | | | | | |
|-------------------------------|--|---|---|--|--|--|--|--|--|--|
| Event | ET Leader | IEC | SOR ** | Contractor | | | | | | |
| Action Level Exceedance | Check monitoring data Inform the IEC, SOR and Contractor of the findings; Increase the monitoring to at least once a month to confirm findings; Propose mitigation measures for consideration | Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SOR accordingly. | Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented. | Inform the SOR and confirm notification of the non- compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SOR; Implement the agreed measures. | | | | | | |
| Limit Level Exceedance | 1. Undertake Steps 1-4 as in the Action Level Exceedance. If further exceedance of Limit Level, propose enhancement measures for consideration. | Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SOR accordingly. | Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented. | confirm notification of the non-compliance in writing; | | | | | | |

Remark: ** The "SOR" is equivalent to the "ER" as defined in the EM&A Manual of the Project



Table D4Event and Action Plan for Operation Phase LFG Hazard

| Parameters | Level | Action |
|----------------------|---|--|
| Oxygen (O2) | Action Level < 19% O ₂ | Ventilate trench/void to restore O ₂ to > 19% |
| | Limit Level < 19% O ₂ | Stop works |
| | | Evacuate personnel/prohibit entry |
| | | Increase ventilation to restore O ₂ to > 19% |
| Methane (CH4) | Action Level >10% LEL | Post "No Smoking" signs |
| | | Prohibit hot works |
| | | Increase ventilation to restore CH ₄ to <10% LEL |
| | Limit Level >20% LEL | Stop works |
| | Semicorport of the second s | Evacuate personnel/prohibit entry |
| | | Increase ventilation to restore CH ₄ to<10% LEL |
| Carbon Dioxide (CO2) | Action Level >0.5% CO ₂ | Ventilate to restore CO_2 to < 0.5% |
| | Limit Level >1.5% CO ₂ | Stop works |
| | | Evacuate personnel / prohibit entry |
| | | Increase ventilation to restore CO ₂ to <0.5% |





Appendix E

WaterQualityMonitoringEquipmentandLandfillGasEquipmentCalibrationCertification



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.: R-Date of Issue: 02Page No.: 1 c

: R-BD090078 : 02 October 2024 : 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

| Name of Equipment : | YSI ProDSS Multi Parameters |
|----------------------------|-----------------------------|
| Manufacturer : | YSI |
| Serial Number : | 22C106561 |
| Date of Received : | 26 September 2024 |
| Date of Calibration : | 27 September 2024 |
| Date of Next Calibration : | 26 December 2024 |
| Request No. : | D-BD090078 |

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|--------------------|-----------------------------|-----------|--------------|
| 4.00 | 4.03 | 0.03 | Satisfactory |
| 7.42 | 7.49 | 0.07 | Satisfactory |
| 10.01 | 10.07 | 0.06 | Satisfactory |

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

(2) Temperature

| Reading of Ref. thermometer (°C) | Display Reading (°C) | Tolerance | Result |
|------------------------------------|------------------------|-----------|--------------|
| 17.0 | 15.6 | -1.4 | Satisfactory |
| 28.0 | 26.2 | -1.8 | Satisfactory |
| 32.5 | 30.7 | -1.8 | Satisfactory |

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

(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|-----------------|--------------|
| 10 | 10.11 | 1.10 | Satisfactory |
| 20 | 20.59 | 2.95 | Satisfactory |
| 30 | 31.25 | 4.17 | Satisfactory |

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

--- CONTINUED ON NEXT PAGE ---

LEE Chun-ning Assistant Manager

AUTHORIZED SIGNATORY:



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

| Test Report No. | : R-BD090078 |
|-----------------|-------------------|
| Date of Issue | : 02 October 2024 |
| Page No. | : 2 of 2 |
| | |

(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|---------------------------|--------------------------|-----------|--------------|
| 7.37 | 7.35 | -0.02 | Satisfactory |
| 5.56 | 5.49 | -0.07 | Satisfactory |
| 2.30 | 2.58 | 0.28 | Satisfactory |
| 0.20 | 0.39 | 0.19 | Satisfactory |

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

(5) Turbidity

| Expected Reading (NTU) | Display Reading (NTU) | Tolerance (%) | Result (a) |
|------------------------|-------------------------|-----------------|--------------|
| 0 | 0.75 | | Satisfactory |
| 10 | 10.92 | 9.2 | Satisfactory |
| 20 | 21.08 | 5.4 | Satisfactory |
| 100 | 102.32 | 2.3 | Satisfactory |
| 800 | 786.90 | -1.6 | Satisfactory |

(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 principals as practiced by QPT or quoted from relevant international standards. •The results relate only to the calibrated equipment as received

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

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

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

--- END OF REPORT ---



ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong **T:** +852 2610 1044 **F:** +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

| CONTACT: CLIENT: | MR. TOBY WAN AURECON HONG KONG LIMITED | WORK ORDER: | HK2444708 |
|---------------------|---|----------------|-------------|
| ADDRESS: | UNIT 1608, 16/F, TOWER B, | SUB-BATCH: | 0 |
| | MANULIFE FINANCIAL CENTRE, | LABORATORY: | HONG KONG |
| | 223-231 WAI YIP STREET, | DATE RECEIVED: | 29-Oct-2024 |
| | KWUN TONG, HONG KONG | DATE OF ISSUE: | 06-Nov-2024 |

GENERAL COMMENTS

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

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

| Equipment information (Bran | d name, Model No., Serial No. and Equipment No.) is provided by client. |
|-----------------------------|---|
| Equipment Type: | pH meter |
| Service Nature: | Performance Check |
| Scope: | pH Value |
| Brand Name/ Model No.: | [Xylem]/ [SensoLyt®700IQ SW, SensoLyt® SEA] |
| Serial No./ Equipment No.: | [23462251/24111620]/ [N/A] |
| Date of Calibration: | 29-October-2024 |
| | |

Ma Sin

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2444708

| SUB-BATCH: DATE OF ISSUE: CLIENT: | 0 06-Nov-2024 AURECON HONG KONG LIMITE | D | |
|--|--|---------------------------|-----------------|
| Equipment Type: Brand Name/ Model No.: | pH meter [Xylem]/ [SensoLyt®700IQ SW, Se | ensoLyt® SEA] | |
| Serial No./ Equipment No.: | [23462251/24111620]/ [N/A] | | |
| Date of Calibration: | 29-October-2024 | Date of Next Calibration: | 29-January-2025 |

PARAMETERS:

pH Value

Method Ref: APHA (23rd edition), 4500H: B

| Expected Reading (pH unit) | Displayed Reading (pH unit) | Tolerance (pH unit) |
|----------------------------|-----------------------------|---------------------|
| 4.0 | 4.08 | +0.08 |
| 7.0 | 7.06 | +0.06 |
| 10.0 | 9.95 | -0.05 |
| | Tolerance Limit (pH unit) | ±0.20 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ma Aij

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

| CONTACT: CLIENT: | MR. TOBY WAN AURECON HONG KONG LIMITED | WORK ORDER: | HK2444708 |
|---------------------|---|----------------|-------------|
| ADDRESS: | UNIT 1608, 16/F, TOWER B, | SUB-BATCH: | 1 |
| | MANULIFE FINANCIAL CENTRE, | LABORATORY: | HONG KONG |
| | 223-231 WAI YIP STREET, | DATE RECEIVED: | 29-Oct-2024 |
| | KWUN TONG, HONG KONG | DATE OF ISSUE: | 06-Nov-2024 |

GENERAL COMMENTS

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

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.Equipment Type:Salinity MeterService Nature:Performance CheckScope:SalinityBrand Name/ Model No.:[Xylem]/ [TetraCon® 700 IQ SW]Serial No./ Equipment No.:[24141069/24110178]/ [N/A]Date of Calibration:29-October-2024

Ma Lin

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



| WORK ORDER: | HK2444708 | | |
|---|---|---------------------------|-----------------|
| SUB-BATCH: DATE OF ISSUE: CLIENT: | 1 06-Nov-2024 AURECON HONG KONG LIMITE | D | |
| Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration: | Salinity Meter [Xylem]/ [TetraCon® 700 IQ SW] [24141069/24110178]/ [N/A] 29-October-2024 | Date of Next Calibration: | 29-January-2025 |

PARAMETERS:

Salinity

Method Ref: APHA (23rd edition), 2520B

| Expected Reading (ppt) | Displayed Reading (ppt) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 20 | 20.2 | +1.0 |
| | Tolerance Limit (%) | ±10.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ma Lin

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

| CONTACT: CLIENT: | MR. TOBY WAN AURECON HONG KONG LIMITED | WORK ORDER: | HK2444708 |
|---------------------|---|----------------|-------------|
| ADDRESS: | UNIT 1608, 16/F, TOWER B, | SUB-BATCH: | 4 |
| | MANULIFE FINANCIAL CENTRE, | LABORATORY: | HONG KONG |
| | 223-231 WAI YIP STREET, | DATE RECEIVED: | 29-Oct-2024 |
| | KWUN TONG, HONG KONG | DATE OF ISSUE: | 06-Nov-2024 |

GENERAL COMMENTS

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

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

| Equipment information (Bran | d name, Model No., Serial No. and Equipment No.) is provided by client. |
|--|--|
| Equipment Type: | Thermometer |
| Service Nature: | Performance Check |
| Scope: | Temperature |
| Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration: | [Xylem]/ [TetraCon® 700IQ SW, SensoLyt®700IQ SW] [23462251]/ [N/A] 29-October-2024 |

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



| WORK ORDER: | HK2444708 | | |
|--|---|---------------------------|-----------------|
| SUB-BATCH: DATE OF ISSUE: CLIENT: | 4 06-Nov-2024 AURECON HONG KONG LIMI | TED | |
| Equipment Type: Brand Name/ Model No.: | Thermometer [Xylem]/ [TetraCon® 700IQ SW | /, SensoLyt®700IQ SW] | |
| Serial No./ Equipment No.: | [23462251]/ [N/A] | | |
| Date of Calibration: | 29-October-2024 | Date of Next Calibration: | 29-January-2025 |
| | | | |

PARAMETERS:

Temperature Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.Expected Reading (°C)Displayed Reading (°C)Tolerance (°C)25.625.6+0.0

| 25.6 | 25.6 | +0.0 |
|------|----------------------|------|
| | | |
| | | |
| | Tolerance Limit (°C) | ±2.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ma Sij

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

| CONTACT: CLIENT: | MR. TOBY WAN AURECON HONG KONG LIMITED | WORK ORDER: | HK2444708 |
|---------------------|--|---|--|
| ADDRESS: | UNIT 1608, 16/F, TOWER B, MANULIFE FINANCIAL CENTRE, 223-231 WAI YIP STREET, KWUN TONG, HONG KONG | SUB-BATCH: LABORATORY: DATE RECEIVED: DATE OF ISSUE: | 5 HONG KONG 29-Oct-2024 06-Nov-2024 |
| | | | |

GENERAL COMMENTS

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

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.Equipment Type:Chlorine MeterService Nature:Performance CheckScope:Total Residual ChlorineBrand Name/ Model No.:[Xylem]/ [Chlorine 3017M]Serial No./ Equipment No.:[21D102738]/ [N/A]Date of Calibration:29-October-2024

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2444708

| SUB-BATCH: DATE OF ISSUE: CLIENT: | 5 06-Nov-2024 AURECON HONG KONG LIMITED |
|--|---|
| Equipment Type: Brand Name/ Model No.: | Chlorine Meter [Xylem]/ [Chlorine 3017M] |
| Serial No./ Equipment No.: | [21D102738]/ [N/A] |

29-October-2024

Date of Next Calibration:

29-January-2025

PARAMETERS:

Date of Calibration:

Total Residual Chlorine

Method Ref: APHA (23rd edition), 4500Cl: G

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (%) |
|-------------------------|--------------------------|---------------|
| 1.09 | 1.154 | +5.9 |
| | Tolerance Limit (%) | ±10.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ma Si

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



Ref.2024/04/014CustomerAurecon Hong Kong Ltd.

Date: 23-Apr-24

CERTIFICATE FOR CALIBRATION CHECK TEST

| Model | Serial No. | Calibration Check Gas | Regulator | Full Scale | Response |
|-----------|------------|------------------------|--------------|------------|------------|
| | | 1.45% Methane, | | 100% LEL | 29% LEL |
| | | 15% Oxygen | | 30% Vol | 15% O2 |
| Altair 5X | 221165 | 60ppm Carbon Monoxide | .25litre/min | 1999 ppm | 60 ppm CO |
| | | 20ppm Hydrogen Sulfide | | 200 ppm | 20 ppm H2S |
| | | 10% Vol Carbon Dioxide | | 10% Vol | 3% CO2 |

Remarks: Regular inspection completed. Calibration passed

MSA Hong Kong Ltd. certify that instrument/s listed above has/have been calibrated check tested on: 23-Apr-24

This instrument was calibrated in accordance with all requirements of the specifications of MSA.

This instrument must be calibration checked prior to use in accordance with the instruction manual.

This instrument was calibrated using NIST traceable equipment and was in accordance with all requirements of the drawings and specifications of MSA.

For and on behalf of MSA Hong Kong Ltd.

Authorised Signature





Appendix F

Water Quality Monitoring Data & Landfill Gas Monitoring Data

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| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| CE | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:00:00 AM | 8.59 | 8.12 | 33.04 | 27.57 | 2.57 | 3.00 | <0.1 | <0.01 |
| CE | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:00:00 AM | 8.45 | 8.11 | 33.14 | 27.54 | 2.69 | 5.00 | <0.1 | <0.01 |
| CE | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 11 | 8:01:00 AM | 8.59 | 8.13 | 33.06 | 27.52 | 2.61 | 4.00 | <0.1 | <0.01 |
| CE | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 11 | 8:01:00 AM | 8.44 | 8.15 | 33.10 | 27.47 | 2.66 | 4.00 | <0.1 | <0.01 |
| CE | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 21 | 8:02:00 AM | 8.57 | 8.09 | 33.10 | 27.50 | 2.63 | 2.50 | <0.1 | <0.01 |
| CE | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 21 | 8:02:00 AM | 8.51 | 8.09 | 33.14 | 27.49 | 2.52 | 3.00 | <0.1 | <0.01 |
| CF | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:08:00 AM | 9.13 | 8.34 | 32.56 | 27.52 | 2.33 | 4.00 | <0.1 | <0.01 |
| CF | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:08:00 AM | 9.21 | 8.41 | 32.57 | 27.51 | 2.35 | 4.00 | <0.1 | <0.01 |
| CF | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 11:09:00 AM | 9.23 | 8.34 | 32.47 | 27.55 | 2.40 | 5.00 | <0.1 | <0.01 |
| CF | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 11:09:00 AM | 9.09 | 8.36 | 32.48 | 27.50 | 2.35 | 8.00 | <0.1 | <0.01 |
| CF | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 18 | 11:10:00 AM | 9.26 | 8.35 | 32.48 | 27.59 | 2.27 | 8.00 | <0.1 | <0.01 |
| CF | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 18 | 11:10:00 AM | 9.15 | 8.37 | 32.60 | 27.52 | 2.36 | 5.00 | <0.1 | <0.01 |
| WSR01 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:44:00 AM | 8.56 | 8.14 | 32.38 | 27.79 | 1.43 | 3.00 | <0.1 | <0.01 |
| WSR01 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:44:00 AM | 8.50 | 8.12 | 32.40 | 27.80 | 1.35 | 5.00 | <0.1 | <0.01 |
| WSR01 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 10:45:00 AM | 8.49 | 8.15 | 32.33 | 27.72 | 1.36 | 5.00 | <0.1 | <0.01 |
| WSR01 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 10:45:00 AM | 8.60 | 8.15 | 32.31 | 27.81 | 1.41 | 4.00 | <0.1 | <0.01 |
| WSR01 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 10:46:00 AM | 8.62 | 8.10 | 32.29 | 27.78 | 1.44 | 3.00 | <0.1 | <0.01 |
| WSR01 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 10:46:00 AM | 8.62 | 8.16 | 32.35 | 27.80 | 1.34 | 5.00 | <0.1 | <0.01 |
| WSR02 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:23:00 AM | 8.00 | 8.23 | 33.25 | 27.55 | 2.13 | 6.00 | <0.1 | <0.01 |
| WSR02 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:23:00 AM | 7.93 | 8.21 | 33.30 | 27.56 | 2.19 | 6.00 | <0.1 | <0.01 |
| WSR02 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 10:24:00 AM | 8.02 | 8.21 | 33.28 | 27.60 | 2.20 | 2.50 | <0.1 | <0.01 |
| WSR02 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 10:24:00 AM | 8.00 | 8.25 | 33.30 | 27.59 | 2.18 | 2.50 | <0.1 | <0.01 |
| WSR02 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 10:25:00 AM | 8.09 | 8.22 | 33.18 | 27.57 | 2.16 | 4.00 | <0.1 | <0.01 |
| WSR02 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 10:25:00 AM | 8.05 | 8.23 | 33.15 | 27.54 | 2.12 | 7.00 | <0.1 | <0.01 |
| WSR03 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:07:00 AM | 9.24 | 8.22 | 32.33 | 27.74 | 1.98 | 5.00 | <0.1 | <0.01 |
| WSR03 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:07:00 AM | 9.22 | 8.22 | 32.34 | 27.80 | 1.91 | 3.00 | <0.1 | <0.01 |
| WSR03 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:08:00 AM | 9.22 | 8.15 | 32.34 | 27.80 | 1.93 | 4.00 | <0.1 | <0.01 |
| WSR03 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:08:00 AM | 9.12 | 8.22 | 32.27 | 27.72 | 1.95 | 5.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR03 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 10:09:00 AM | 9.25 | 8.17 | 32.24 | 27.79 | 1.94 | 4.00 | <0.1 | <0.01 |
| WSR03 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 10:09:00 AM | 9.16 | 8.17 | 32.26 | 27.74 | 1.99 | 3.00 | <0.1 | <0.01 |
| WSR04 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:52:00 AM | 8.63 | 8.25 | 32.24 | 27.61 | 2.14 | 5.00 | <0.1 | <0.01 |
| WSR04 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:52:00 AM | 8.64 | 8.23 | 32.24 | 27.68 | 2.12 | 6.00 | <0.1 | <0.01 |
| WSR04 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:53:00 AM | 8.78 | 8.26 | 32.25 | 27.63 | 2.17 | 4.00 | <0.1 | <0.01 |
| WSR04 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:53:00 AM | 8.67 | 8.23 | 32.16 | 27.61 | 2.18 | 5.00 | <0.1 | <0.01 |
| WSR04 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:54:00 AM | 8.73 | 8.24 | 32.23 | 27.71 | 2.17 | 6.00 | <0.1 | <0.01 |
| WSR04 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:54:00 AM | 8.68 | 8.24 | 32.15 | 27.64 | 2.11 | 5.00 | <0.1 | <0.01 |
| WSR16 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:23:00 AM | 8.72 | 8.29 | 32.12 | 27.44 | 1.37 | 8.00 | <0.1 | <0.01 |
| WSR16 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:23:00 AM | 8.83 | 8.29 | 32.04 | 27.38 | 1.42 | 6.00 | <0.1 | <0.01 |
| WSR16 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 8 | 8:24:00 AM | 8.79 | 8.28 | 32.07 | 27.41 | 1.53 | 5.00 | <0.1 | <0.01 |
| WSR16 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 8 | 8:24:00 AM | 8.78 | 8.29 | 32.15 | 27.40 | 1.39 | 7.00 | <0.1 | <0.01 |
| WSR16 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 15 | 8:25:00 AM | 8.75 | 8.33 | 32.11 | 27.40 | 1.44 | 4.00 | <0.1 | <0.01 |
| WSR16 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 15 | 8:25:00 AM | 8.83 | 8.28 | 32.04 | 27.43 | 1.37 | 7.00 | <0.1 | <0.01 |
| WSR33 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:37:00 AM | 8.92 | 8.28 | 33.06 | 27.85 | 2.06 | 6.00 | <0.1 | <0.01 |
| WSR33 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:37:00 AM | 9.08 | 8.29 | 33.06 | 27.83 | 2.11 | 7.00 | <0.1 | <0.01 |
| WSR33 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:38:00 AM | 8.96 | 8.29 | 33.09 | 27.85 | 2.15 | 8.00 | <0.1 | <0.01 |
| WSR33 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:38:00 AM | 8.94 | 8.31 | 33.07 | 27.85 | 2.20 | 5.00 | <0.1 | <0.01 |
| WSR33 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:39:00 AM | 8.91 | 8.30 | 33.05 | 27.88 | 2.09 | 5.00 | <0.1 | <0.01 |
| WSR33 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:39:00 AM | 9.05 | 8.29 | 33.08 | 27.82 | 2.11 | 6.00 | <0.1 | <0.01 |
| WSR36 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:21:00 AM | 9.14 | 8.15 | 31.63 | 27.36 | 1.62 | 7.00 | <0.1 | <0.01 |
| WSR36 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:21:00 AM | 9.12 | 8.13 | 31.69 | 27.32 | 1.64 | 11.00 | <0.1 | <0.01 |
| WSR36 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3 | 9:22:00 AM | 9.09 | 8.18 | 31.55 | 27.28 | 1.60 | 4.00 | <0.1 | <0.01 |
| WSR36 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3 | 9:22:00 AM | 9.08 | 8.20 | 31.57 | 27.33 | 1.61 | 5.00 | <0.1 | <0.01 |
| WSR36 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:22:00 AM | 9.13 | 8.19 | 31.69 | 27.36 | 1.66 | 8.00 | <0.1 | <0.01 |
| WSR36 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:22:00 AM | 9.08 | 8.18 | 31.64 | 27.29 | 1.59 | 7.00 | <0.1 | <0.01 |
| WSR37 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:15:00 AM | 9.09 | 8.27 | 32.48 | 27.78 | 1.65 | 9.00 | <0.1 | <0.01 |
| WSR37 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:15:00 AM | 9.08 | 8.31 | 32.53 | 27.80 | 1.62 | 10.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | рН | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR37 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:16:00 AM | 9.04 | 8.26 | 32.48 | 27.80 | 1.66 | 5.00 | <0.1 | <0.01 |
| WSR37 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:16:00 AM | 9.17 | 8.26 | 32.51 | 27.88 | 1.64 | 5.00 | <0.1 | <0.01 |
| WSR37 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 9:17:00 AM | 9.18 | 8.32 | 32.48 | 27.83 | 1.66 | 9.00 | <0.1 | <0.01 |
| WSR37 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 9:17:00 AM | 9.16 | 8.26 | 32.51 | 27.77 | 1.70 | 6.00 | <0.1 | <0.01 |
| NF1 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:45:00 AM | 8.31 | 8.18 | 33.19 | 27.79 | 1.39 | 8.00 | <0.1 | <0.01 |
| NF1 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:45:00 AM | 8.19 | 8.17 | 33.20 | 27.83 | 1.43 | 3.00 | <0.1 | <0.01 |
| NF1 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7 | 8:46:00 AM | 8.35 | 8.23 | 33.23 | 27.84 | 1.44 | 4.00 | <0.1 | <0.01 |
| NF1 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7 | 8:46:00 AM | 8.25 | 8.21 | 33.24 | 27.84 | 1.43 | 7.00 | <0.1 | <0.01 |
| NF1 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 12 | 8:47:00 AM | 8.25 | 8.18 | 33.14 | 27.86 | 1.43 | 4.00 | <0.1 | <0.01 |
| NF1 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 12 | 8:47:00 AM | 8.34 | 8.21 | 33.21 | 27.87 | 1.44 | 3.00 | <0.1 | <0.01 |
| NF2 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:01:00 AM | 9.24 | 8.16 | 32.39 | 27.54 | 1.76 | 6.00 | <0.1 | <0.01 |
| NF2 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:01:00 AM | 9.07 | 8.18 | 32.24 | 27.48 | 1.75 | 5.00 | <0.1 | <0.01 |
| NF2 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 9:02:00 AM | 9.11 | 8.20 | 32.38 | 27.49 | 1.72 | 4.00 | <0.1 | <0.01 |
| NF2 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 9:02:00 AM | 9.08 | 8.17 | 32.25 | 27.57 | 1.76 | 6.00 | <0.1 | <0.01 |
| NF2 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 10 | 9:03:00 AM | 9.10 | 8.21 | 32.36 | 27.53 | 1.73 | 2.50 | <0.1 | <0.01 |
| NF2 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 10 | 9:03:00 AM | 9.11 | 8.15 | 32.26 | 27.50 | 1.75 | 5.00 | <0.1 | <0.01 |
| NF3 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:09:00 AM | 8.79 | 8.12 | 32.79 | 27.71 | 2.16 | 5.00 | <0.1 | <0.01 |
| NF3 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:09:00 AM | 8.76 | 8.08 | 32.73 | 27.74 | 2.12 | 2.50 | <0.1 | <0.01 |
| NF3 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6 | 9:10:00 AM | 8.80 | 8.07 | 32.68 | 27.72 | 2.15 | 3.00 | <0.1 | <0.01 |
| NF3 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6 | 9:10:00 AM | 8.89 | 8.09 | 32.71 | 27.64 | 2.16 | 6.00 | <0.1 | <0.01 |
| NF3 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 11 | 9:11:00 AM | 8.80 | 8.06 | 32.74 | 27.70 | 2.18 | 4.00 | <0.1 | <0.01 |
| NF3 | 2/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 11 | 9:11:00 AM | 8.86 | 8.10 | 32.75 | 27.72 | 2.22 | 2.50 | <0.1 | <0.01 |
| CE | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 11:18:00 AM | 8.98 | 8.23 | 31.72 | 27.22 | 2.23 | 6.00 | <0.1 | <0.01 |
| CE | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 11:18:00 AM | 8.90 | 8.27 | 31.88 | 27.15 | 2.26 | 3.00 | <0.1 | <0.01 |
| CE | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 12 | 11:19:00 AM | 8.85 | 8.26 | 31.88 | 27.23 | 2.28 | 3.00 | <0.1 | <0.01 |
| CE | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 12 | 11:19:00 AM | 9.02 | 8.27 | 31.73 | 27.16 | 2.25 | 2.50 | <0.1 | <0.01 |
| CE | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 24 | 11:20:00 AM | 8.90 | 8.24 | 31.78 | 27.16 | 2.29 | 5.00 | <0.1 | <0.01 |
| CE | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 24 | 11:20:00 AM | 8.96 | 8.24 | 31.74 | 27.16 | 2.27 | 3.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|-----------|---------------|-------------|-----------|------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| CF | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 8:06:00 AM | 8.57 | 8.25 | 31.52 | 27.20 | 2.51 | 2.50 | <0.1 | <0.01 |
| CF | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 8:06:00 AM | 8.47 | 8.20 | 31.66 | 27.13 | 2.52 | 3.00 | <0.1 | <0.01 |
| CF | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 11 | 8:07:00 AM | 8.62 | 8.25 | 31.66 | 27.12 | 2.56 | 2.50 | <0.1 | <0.01 |
| CF | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 11 | 8:07:00 AM | 8.51 | 8.22 | 31.61 | 27.16 | 2.51 | 2.50 | <0.1 | <0.01 |
| CF | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 20 | 8:08:00 AM | 8.64 | 8.25 | 31.54 | 27.13 | 2.53 | 4.00 | <0.1 | <0.01 |
| CF | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 20 | 8:08:00 AM | 8.62 | 8.20 | 31.69 | 27.16 | 2.49 | 3.00 | <0.1 | <0.01 |
| WSR01 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 8:32:00 AM | 8.12 | 8.22 | 31.93 | 27.12 | 1.51 | 2.50 | <0.1 | <0.01 |
| WSR01 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 8:32:00 AM | 8.00 | 8.23 | 31.91 | 27.08 | 1.55 | 3.00 | <0.1 | <0.01 |
| WSR01 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 8:33:00 AM | 8.11 | 8.19 | 32.06 | 27.12 | 1.46 | 2.50 | <0.1 | <0.01 |
| WSR01 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 8:33:00 AM | 8.03 | 8.25 | 31.92 | 27.14 | 1.53 | 5.00 | <0.1 | <0.01 |
| WSR01 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 8 | 8:34:00 AM | 8.17 | 8.24 | 31.96 | 27.09 | 1.51 | 3.00 | <0.1 | <0.01 |
| WSR01 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 8 | 8:34:00 AM | 8.14 | 8.25 | 32.07 | 27.10 | 1.54 | 4.00 | <0.1 | <0.01 |
| WSR02 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 8:53:00 AM | 7.91 | 8.17 | 32.30 | 27.31 | 1.55 | 10.00 | <0.1 | <0.01 |
| WSR02 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 8:53:00 AM | 8.05 | 8.20 | 32.15 | 27.24 | 1.54 | 5.00 | <0.1 | <0.01 |
| WSR02 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 5 | 8:54:00 AM | 7.92 | 8.17 | 32.21 | 27.28 | 1.60 | 3.00 | <0.1 | <0.01 |
| WSR02 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 5 | 8:54:00 AM | 8.00 | 8.14 | 32.27 | 27.24 | 1.62 | 4.00 | <0.1 | <0.01 |
| WSR02 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 9 | 8:55:00 AM | 8.04 | 8.17 | 32.16 | 27.28 | 1.57 | 3.00 | <0.1 | <0.01 |
| WSR02 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 9 | 8:55:00 AM | 7.91 | 8.20 | 32.31 | 27.33 | 1.49 | 4.00 | <0.1 | <0.01 |
| WSR03 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 9:09:00 AM | 8.47 | 8.04 | 32.27 | 27.19 | 1.57 | 4.00 | <0.1 | <0.01 |
| WSR03 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 9:09:00 AM | 8.45 | 8.03 | 32.14 | 27.25 | 1.62 | 3.00 | <0.1 | <0.01 |
| WSR03 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 9:10:00 AM | 8.46 | 8.02 | 32.19 | 27.22 | 1.57 | 4.00 | <0.1 | <0.01 |
| WSR03 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 9:10:00 AM | 8.54 | 8.05 | 32.19 | 27.20 | 1.60 | 4.00 | <0.1 | <0.01 |
| WSR03 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 7 | 9:11:00 AM | 8.49 | 8.05 | 32.09 | 27.23 | 1.65 | 4.00 | <0.1 | <0.01 |
| WSR03 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 7 | 9:11:00 AM | 8.43 | 8.03 | 32.26 | 27.23 | 1.58 | 2.50 | <0.1 | <0.01 |
| WSR04 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 9:25:00 AM | 8.21 | 8.29 | 32.24 | 27.06 | 1.90 | 3.00 | <0.1 | <0.01 |
| WSR04 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 9:25:00 AM | 8.11 | 8.29 | 32.25 | 27.03 | 1.97 | 3.00 | <0.1 | <0.01 |
| WSR04 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 9:26:00 AM | 8.18 | 8.33 | 32.14 | 27.07 | 1.95 | 4.00 | <0.1 | <0.01 |
| WSR04 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 9:26:00 AM | 8.22 | 8.30 | 32.15 | 27.06 | 1.94 | 7.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | рН | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | lron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR04 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 7 | 9:27:00 AM | 8.27 | 8.33 | 32.21 | 27.05 | 1.88 | 3.00 | <0.1 | <0.01 |
| WSR04 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 7 | 9:27:00 AM | 8.18 | 8.29 | 32.09 | 27.10 | 1.95 | 3.00 | <0.1 | <0.01 |
| WSR16 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:55:00 AM | 8.20 | 8.18 | 32.55 | 27.06 | 2.06 | 6.00 | <0.1 | <0.01 |
| WSR16 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:55:00 AM | 8.09 | 8.15 | 32.46 | 27.00 | 2.10 | 6.00 | <0.1 | <0.01 |
| WSR16 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 8 | 10:56:00 AM | 8.18 | 8.15 | 32.59 | 27.01 | 2.08 | 5.00 | <0.1 | <0.01 |
| WSR16 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 8 | 10:56:00 AM | 8.20 | 8.14 | 32.47 | 27.07 | 2.03 | 4.00 | <0.1 | <0.01 |
| WSR16 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 15 | 10:57:00 AM | 8.05 | 8.14 | 32.45 | 27.00 | 2.01 | 2.50 | <0.1 | <0.01 |
| WSR16 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 15 | 10:57:00 AM | 8.06 | 8.17 | 32.43 | 27.02 | 2.04 | 4.00 | <0.1 | <0.01 |
| WSR33 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 9:42:00 AM | 9.08 | 8.19 | 31.94 | 27.41 | 1.47 | 3.00 | <0.1 | <0.01 |
| WSR33 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 9:42:00 AM | 9.09 | 8.22 | 31.98 | 27.43 | 1.31 | 2.50 | <0.1 | <0.01 |
| WSR33 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 9:43:00 AM | 9.01 | 8.22 | 31.94 | 27.45 | 1.42 | 2.50 | <0.1 | <0.01 |
| WSR33 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 9:43:00 AM | 9.09 | 8.20 | 32.04 | 27.41 | 1.33 | 2.50 | <0.1 | <0.01 |
| WSR33 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 7 | 9:44:00 AM | 8.94 | 8.22 | 32.01 | 27.45 | 1.37 | 2.50 | <0.1 | <0.01 |
| WSR33 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 7 | 9:44:00 AM | 9.06 | 8.22 | 32.01 | 27.46 | 1.45 | 4.00 | <0.1 | <0.01 |
| WSR36 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 9:59:00 AM | 8.77 | 8.11 | 31.17 | 27.25 | 1.63 | 2.50 | <0.1 | <0.01 |
| WSR36 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 9:59:00 AM | 8.88 | 8.11 | 31.33 | 27.23 | 1.61 | 4.00 | <0.1 | <0.01 |
| WSR36 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 3 | 10:00:00 AM | 8.86 | 8.09 | 31.20 | 27.24 | 1.65 | 2.50 | <0.1 | <0.01 |
| WSR36 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 3 | 10:00:00 AM | 8.85 | 8.11 | 31.24 | 27.27 | 1.62 | 4.00 | <0.1 | <0.01 |
| WSR36 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 5 | 10:00:00 AM | 8.88 | 8.14 | 31.25 | 27.29 | 1.66 | 2.50 | <0.1 | <0.01 |
| WSR36 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 5 | 10:00:00 AM | 8.85 | 8.08 | 31.25 | 27.29 | 1.70 | 4.00 | <0.1 | <0.01 |
| WSR37 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:16:00 AM | 8.64 | 8.18 | 32.40 | 27.12 | 2.20 | 2.50 | <0.1 | <0.01 |
| WSR37 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:16:00 AM | 8.79 | 8.19 | 32.39 | 27.08 | 2.17 | 2.50 | <0.1 | <0.01 |
| WSR37 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 10:17:00 AM | 8.77 | 8.18 | 32.35 | 27.10 | 2.21 | 7.00 | <0.1 | <0.01 |
| WSR37 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 4 | 10:17:00 AM | 8.67 | 8.14 | 32.37 | 27.08 | 2.19 | 7.00 | <0.1 | <0.01 |
| WSR37 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 7 | 10:18:00 AM | 8.64 | 8.19 | 32.42 | 27.10 | 2.19 | 4.00 | <0.1 | <0.01 |
| WSR37 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 7 | 10:18:00 AM | 8.82 | 8.15 | 32.47 | 27.09 | 2.21 | 3.00 | <0.1 | <0.01 |
| NF1 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:40:00 AM | 8.39 | 8.07 | 32.13 | 27.20 | 1.73 | 3.00 | <0.1 | <0.01 |
| NF1 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:40:00 AM | 8.44 | 8.09 | 32.06 | 27.22 | 1.79 | 5.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| NF1 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 7 | 10:41:00 AM | 8.32 | 8.10 | 32.00 | 27.22 | 1.76 | 3.00 | <0.1 | <0.01 |
| NF1 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 7 | 10:41:00 AM | 8.33 | 8.06 | 32.02 | 27.23 | 1.79 | 2.50 | <0.1 | <0.01 |
| NF1 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 13 | 10:42:00 AM | 8.40 | 8.09 | 32.12 | 27.19 | 1.73 | 5.00 | <0.1 | <0.01 |
| NF1 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 13 | 10:42:00 AM | 8.38 | 8.11 | 32.02 | 27.20 | 1.72 | 2.50 | <0.1 | <0.01 |
| NF2 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:32:00 AM | 8.28 | 8.13 | 31.69 | 27.15 | 2.13 | 2.50 | <0.1 | <0.01 |
| NF2 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:32:00 AM | 8.34 | 8.10 | 31.70 | 27.18 | 2.07 | 6.00 | <0.1 | <0.01 |
| NF2 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 5 | 10:33:00 AM | 8.32 | 8.13 | 31.71 | 27.20 | 2.05 | 3.00 | <0.1 | <0.01 |
| NF2 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 5 | 10:33:00 AM | 8.28 | 8.10 | 31.78 | 27.20 | 2.08 | 5.00 | <0.1 | <0.01 |
| NF2 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 10 | 10:34:00 AM | 8.20 | 8.11 | 31.65 | 27.20 | 2.14 | 6.00 | <0.1 | <0.01 |
| NF2 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 10 | 10:34:00 AM | 8.33 | 8.08 | 31.68 | 27.21 | 2.06 | 4.00 | <0.1 | <0.01 |
| NF3 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:25:00 AM | 8.62 | 8.25 | 32.62 | 27.24 | 1.44 | 2.50 | <0.1 | <0.01 |
| NF3 | 5/11/2024 | Sunny | Mid-Flood | Moderate | S | 1 | 10:25:00 AM | 8.58 | 8.20 | 32.53 | 27.24 | 1.42 | 3.00 | <0.1 | <0.01 |
| NF3 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 6 | 10:26:00 AM | 8.59 | 8.24 | 32.61 | 27.21 | 1.48 | 2.50 | <0.1 | <0.01 |
| NF3 | 5/11/2024 | Sunny | Mid-Flood | Moderate | М | 6 | 10:26:00 AM | 8.57 | 8.20 | 32.59 | 27.25 | 1.53 | 2.50 | <0.1 | <0.01 |
| NF3 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 11 | 10:27:00 AM | 8.45 | 8.23 | 32.46 | 27.25 | 1.48 | 4.00 | <0.1 | <0.01 |
| NF3 | 5/11/2024 | Sunny | Mid-Flood | Moderate | В | 11 | 10:27:00 AM | 8.51 | 8.23 | 32.51 | 27.21 | 1.42 | 2.50 | <0.1 | <0.01 |
| CE | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 12:11:00 PM | 8.59 | 8.36 | 32.67 | 26.98 | 2.36 | 2.50 | <0.1 | <0.01 |
| CE | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 12:11:00 PM | 8.65 | 8.30 | 32.67 | 27.02 | 2.35 | 3.00 | <0.1 | <0.01 |
| CE | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 10 | 12:12:00 PM | 8.74 | 8.34 | 32.72 | 27.00 | 2.27 | 4.00 | <0.1 | <0.01 |
| CE | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 10 | 12:12:00 PM | 8.60 | 8.34 | 32.67 | 27.02 | 2.25 | 2.50 | <0.1 | <0.01 |
| CE | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 20 | 12:13:00 PM | 8.74 | 8.30 | 32.70 | 27.03 | 2.33 | 3.00 | <0.1 | <0.01 |
| CE | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 20 | 12:13:00 PM | 8.68 | 8.32 | 32.63 | 26.99 | 2.36 | 2.50 | <0.1 | <0.01 |
| CF | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 8:53:00 AM | 8.85 | 8.17 | 31.79 | 26.88 | 2.56 | 3.00 | <0.1 | <0.01 |
| CF | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 8:53:00 AM | 8.90 | 8.16 | 31.67 | 26.87 | 2.53 | 5.00 | <0.1 | <0.01 |
| CF | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 10 | 8:54:00 AM | 8.90 | 8.18 | 31.76 | 26.90 | 2.55 | 2.50 | <0.1 | <0.01 |
| CF | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 10 | 8:54:00 AM | 8.89 | 8.17 | 31.71 | 26.88 | 2.61 | 2.50 | <0.1 | <0.01 |
| CF | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 18 | 8:55:00 AM | 8.93 | 8.18 | 31.77 | 26.92 | 2.66 | 2.50 | <0.1 | <0.01 |
| CF | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 18 | 8:55:00 AM | 8.87 | 8.13 | 31.69 | 26.88 | 2.59 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR01 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:19:00 AM | 8.13 | 8.12 | 32.19 | 27.10 | 1.50 | 3.00 | <0.1 | <0.01 |
| WSR01 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:19:00 AM | 7.99 | 8.13 | 32.20 | 27.07 | 1.51 | 5.00 | <0.1 | <0.01 |
| WSR01 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5 | 9:20:00 AM | 7.98 | 8.11 | 32.29 | 27.09 | 1.70 | 4.00 | <0.1 | <0.01 |
| WSR01 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5 | 9:20:00 AM | 8.09 | 8.09 | 32.21 | 27.08 | 1.51 | 2.50 | <0.1 | <0.01 |
| WSR01 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 8 | 9:21:00 AM | 8.16 | 8.09 | 32.21 | 27.06 | 1.52 | 4.00 | <0.1 | <0.01 |
| WSR01 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 8 | 9:21:00 AM | 8.00 | 8.14 | 32.30 | 27.14 | 1.68 | 2.50 | <0.1 | <0.01 |
| WSR02 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:40:00 AM | 8.79 | 8.28 | 31.31 | 27.08 | 2.10 | 2.50 | <0.1 | <0.01 |
| WSR02 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:40:00 AM | 8.65 | 8.28 | 31.31 | 27.10 | 2.09 | 3.00 | <0.1 | <0.01 |
| WSR02 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5 | 9:41:00 AM | 8.73 | 8.24 | 31.26 | 27.12 | 2.09 | 5.00 | <0.1 | <0.01 |
| WSR02 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5 | 9:41:00 AM | 8.71 | 8.29 | 31.31 | 27.06 | 2.13 | 4.00 | <0.1 | <0.01 |
| WSR02 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 9 | 9:42:00 AM | 8.72 | 8.30 | 31.29 | 27.08 | 2.13 | 3.00 | <0.1 | <0.01 |
| WSR02 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 9 | 9:42:00 AM | 8.77 | 8.29 | 31.32 | 27.07 | 2.09 | 2.50 | <0.1 | <0.01 |
| WSR03 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:57:00 AM | 8.35 | 8.32 | 32.26 | 27.23 | 1.85 | 2.50 | <0.1 | <0.01 |
| WSR03 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:57:00 AM | 8.47 | 8.36 | 32.23 | 27.23 | 1.88 | 2.50 | <0.1 | <0.01 |
| WSR03 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 9:58:00 AM | 8.42 | 8.36 | 32.26 | 27.22 | 1.86 | 2.50 | <0.1 | <0.01 |
| WSR03 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 9:58:00 AM | 8.39 | 8.34 | 32.23 | 27.28 | 1.90 | 2.50 | <0.1 | <0.01 |
| WSR03 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 9:59:00 AM | 8.39 | 8.32 | 32.23 | 27.20 | 1.87 | 6.00 | <0.1 | <0.01 |
| WSR03 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 9:59:00 AM | 8.32 | 8.32 | 32.18 | 27.20 | 1.88 | 5.00 | <0.1 | <0.01 |
| WSR04 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:15:00 AM | 8.20 | 8.08 | 32.27 | 27.32 | 1.80 | 3.00 | <0.1 | <0.01 |
| WSR04 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:15:00 AM | 8.07 | 8.12 | 32.16 | 27.28 | 1.81 | 4.00 | <0.1 | <0.01 |
| WSR04 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 10:16:00 AM | 8.05 | 8.06 | 32.22 | 27.31 | 1.86 | 5.00 | <0.1 | <0.01 |
| WSR04 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 10:16:00 AM | 8.18 | 8.07 | 32.15 | 27.28 | 1.81 | 3.00 | <0.1 | <0.01 |
| WSR04 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 10:17:00 AM | 8.20 | 8.08 | 32.28 | 27.29 | 1.81 | 2.50 | <0.1 | <0.01 |
| WSR04 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 10:17:00 AM | 8.13 | 8.07 | 32.20 | 27.31 | 1.79 | 5.00 | <0.1 | <0.01 |
| WSR16 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:48:00 AM | 8.99 | 8.14 | 32.27 | 27.25 | 1.57 | 2.50 | <0.1 | <0.01 |
| WSR16 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:48:00 AM | 8.97 | 8.16 | 32.33 | 27.22 | 1.60 | 5.00 | <0.1 | <0.01 |
| WSR16 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 8 | 11:49:00 AM | 8.82 | 8.17 | 32.26 | 27.24 | 1.64 | 5.00 | <0.1 | <0.01 |
| WSR16 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 8 | 11:49:00 AM | 8.84 | 8.20 | 32.36 | 27.21 | 1.64 | 4.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR16 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 14 | 11:50:00 AM | 8.93 | 8.19 | 32.34 | 27.23 | 1.59 | 3.00 | <0.1 | <0.01 |
| WSR16 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 14 | 11:50:00 AM | 8.97 | 8.19 | 32.26 | 27.27 | 1.57 | 5.00 | <0.1 | <0.01 |
| WSR33 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:32:00 AM | 8.51 | 8.17 | 31.36 | 27.23 | 1.78 | 4.00 | <0.1 | <0.01 |
| WSR33 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:32:00 AM | 8.51 | 8.15 | 31.36 | 27.22 | 1.76 | 6.00 | <0.1 | <0.01 |
| WSR33 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 10:33:00 AM | 8.40 | 8.19 | 31.27 | 27.25 | 1.77 | 4.00 | <0.1 | <0.01 |
| WSR33 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 10:33:00 AM | 8.40 | 8.16 | 31.35 | 27.20 | 1.78 | 6.00 | <0.1 | <0.01 |
| WSR33 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 10:34:00 AM | 8.52 | 8.14 | 31.29 | 27.28 | 1.81 | 4.00 | <0.1 | <0.01 |
| WSR33 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 10:34:00 AM | 8.47 | 8.19 | 31.28 | 27.27 | 1.75 | 2.50 | <0.1 | <0.01 |
| WSR36 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:51:00 AM | 9.00 | 8.20 | 31.45 | 26.87 | 1.94 | 8.00 | <0.1 | <0.01 |
| WSR36 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:51:00 AM | 9.02 | 8.15 | 31.41 | 26.88 | 2.00 | 5.00 | <0.1 | <0.01 |
| WSR36 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 10:52:00 AM | 9.09 | 8.15 | 31.51 | 26.84 | 1.97 | 5.00 | <0.1 | <0.01 |
| WSR36 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 10:52:00 AM | 8.99 | 8.20 | 31.49 | 26.84 | 1.93 | 4.00 | <0.1 | <0.01 |
| WSR36 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 10:52:00 AM | 9.08 | 8.14 | 31.44 | 26.86 | 1.94 | 2.50 | <0.1 | <0.01 |
| WSR36 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 10:52:00 AM | 9.06 | 8.17 | 31.41 | 26.89 | 2.00 | 4.00 | <0.1 | <0.01 |
| WSR37 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:08:00 AM | 8.85 | 8.29 | 32.53 | 27.11 | 1.66 | 3.00 | <0.1 | <0.01 |
| WSR37 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:08:00 AM | 8.77 | 8.29 | 32.55 | 27.12 | 1.67 | 5.00 | <0.1 | <0.01 |
| WSR37 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 11:09:00 AM | 8.89 | 8.29 | 32.62 | 27.06 | 1.69 | 3.00 | <0.1 | <0.01 |
| WSR37 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 11:09:00 AM | 8.79 | 8.30 | 32.57 | 27.11 | 1.66 | 3.00 | <0.1 | <0.01 |
| WSR37 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 11:10:00 AM | 8.79 | 8.29 | 32.61 | 27.12 | 1.70 | 6.00 | <0.1 | <0.01 |
| WSR37 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 11:10:00 AM | 8.74 | 8.28 | 32.62 | 27.12 | 1.65 | 2.50 | <0.1 | <0.01 |
| NF1 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:33:00 AM | 8.80 | 8.30 | 32.60 | 27.19 | 1.70 | 3.00 | <0.1 | <0.01 |
| NF1 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:33:00 AM | 8.77 | 8.25 | 32.57 | 27.26 | 1.70 | 2.50 | <0.1 | <0.01 |
| NF1 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 7 | 11:34:00 AM | 8.77 | 8.28 | 32.52 | 27.26 | 1.76 | 2.50 | <0.1 | <0.01 |
| NF1 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 7 | 11:34:00 AM | 8.75 | 8.29 | 32.48 | 27.20 | 1.75 | 2.50 | <0.1 | <0.01 |
| NF1 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 12 | 11:35:00 AM | 8.72 | 8.26 | 32.50 | 27.26 | 1.75 | 2.50 | <0.1 | <0.01 |
| NF1 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 12 | 11:35:00 AM | 8.80 | 8.26 | 32.51 | 27.23 | 1.73 | 5.00 | <0.1 | <0.01 |
| NF2 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:26:00 AM | 7.99 | 8.19 | 31.53 | 26.98 | 1.51 | 3.00 | <0.1 | <0.01 |
| NF2 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:26:00 AM | 8.10 | 8.18 | 31.49 | 27.00 | 1.71 | 4.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| NF2 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5 | 11:27:00 AM | 8.05 | 8.19 | 31.59 | 27.01 | 1.53 | 2.50 | <0.1 | <0.01 |
| NF2 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5 | 11:27:00 AM | 8.02 | 8.16 | 31.53 | 27.02 | 1.52 | 2.50 | <0.1 | <0.01 |
| NF2 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 9 | 11:28:00 AM | 8.02 | 8.15 | 31.59 | 27.03 | 1.69 | 2.50 | <0.1 | <0.01 |
| NF2 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 9 | 11:28:00 AM | 8.11 | 8.16 | 31.53 | 27.01 | 1.71 | 2.50 | <0.1 | <0.01 |
| NF3 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:19:00 AM | 8.79 | 8.17 | 32.22 | 26.86 | 1.51 | 2.50 | <0.1 | <0.01 |
| NF3 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | s | 1 | 11:19:00 AM | 8.79 | 8.18 | 32.12 | 26.94 | 1.46 | 2.50 | <0.1 | <0.01 |
| NF3 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 6 | 11:20:00 AM | 8.62 | 8.22 | 32.24 | 26.91 | 1.51 | 5.00 | <0.1 | <0.01 |
| NF3 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | М | 6 | 11:20:00 AM | 8.62 | 8.20 | 32.22 | 26.86 | 1.46 | 3.00 | <0.1 | <0.01 |
| NF3 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 11 | 11:21:00 AM | 8.67 | 8.18 | 32.25 | 26.94 | 1.45 | 5.00 | <0.1 | <0.01 |
| NF3 | 7/11/2024 | Cloudy | Mid-Flood | Moderate | В | 11 | 11:21:00 AM | 8.69 | 8.16 | 32.18 | 26.90 | 1.47 | 3.00 | <0.1 | <0.01 |
| CE | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 8:04:00 AM | 8.11 | 8.00 | 32.12 | 27.07 | 2.56 | 4.00 | <0.1 | <0.01 |
| CE | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 8:04:00 AM | 8.05 | 8.02 | 32.15 | 27.07 | 2.60 | 3.00 | <0.1 | <0.01 |
| CE | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 11 | 8:05:00 AM | 8.10 | 8.04 | 32.15 | 27.12 | 2.60 | 2.50 | <0.1 | <0.01 |
| CE | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 11 | 8:05:00 AM | 8.10 | 8.03 | 32.17 | 27.09 | 2.58 | 2.50 | <0.1 | <0.01 |
| CE | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 21 | 8:06:00 AM | 8.05 | 8.07 | 32.21 | 27.11 | 2.55 | 2.50 | <0.1 | <0.01 |
| CE | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 21 | 8:06:00 AM | 8.06 | 8.06 | 32.20 | 27.14 | 2.56 | 2.50 | <0.1 | <0.01 |
| CF | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:25:00 AM | 9.06 | 8.15 | 32.08 | 26.78 | 2.33 | 2.50 | <0.1 | <0.01 |
| CF | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 11:25:00 AM | 9.05 | 8.16 | 32.12 | 26.79 | 2.35 | 2.50 | <0.1 | <0.01 |
| CF | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 11:26:00 AM | 8.91 | 8.13 | 32.16 | 26.75 | 2.28 | 2.50 | <0.1 | <0.01 |
| CF | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 11:26:00 AM | 8.97 | 8.13 | 32.15 | 26.74 | 2.21 | 2.50 | <0.1 | <0.01 |
| CF | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 20 | 11:27:00 AM | 9.04 | 8.10 | 32.16 | 26.76 | 2.24 | 2.50 | <0.1 | <0.01 |
| CF | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 20 | 11:27:00 AM | 9.03 | 8.08 | 32.12 | 26.81 | 2.27 | 3.00 | <0.1 | <0.01 |
| WSR01 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 11:01:00 AM | 7.96 | 7.99 | 32.30 | 27.12 | 1.79 | 2.50 | <0.1 | <0.01 |
| WSR01 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 11:01:00 AM | 8.03 | 8.00 | 32.32 | 27.14 | 1.83 | 2.50 | <0.1 | <0.01 |
| WSR01 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 11:02:00 AM | 8.05 | 7.98 | 32.27 | 27.11 | 1.78 | 2.50 | <0.1 | <0.01 |
| WSR01 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 11:02:00 AM | 7.93 | 7.99 | 32.29 | 27.12 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR01 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 11:03:00 AM | 8.01 | 8.05 | 32.26 | 27.05 | 1.80 | 3.00 | <0.1 | <0.01 |
| WSR01 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 11:03:00 AM | 7.95 | 8.04 | 32.35 | 27.11 | 1.83 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR02 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:41:00 AM | 8.57 | 8.09 | 32.86 | 26.94 | 1.50 | 2.50 | <0.1 | <0.01 |
| WSR02 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:41:00 AM | 8.64 | 8.12 | 32.92 | 26.88 | 1.51 | 3.00 | <0.1 | <0.01 |
| WSR02 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 10:42:00 AM | 8.70 | 8.06 | 32.85 | 26.92 | 1.50 | 2.50 | <0.1 | <0.01 |
| WSR02 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 10:42:00 AM | 8.66 | 8.11 | 32.96 | 26.92 | 1.55 | 2.50 | <0.1 | <0.01 |
| WSR02 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9 | 10:43:00 AM | 8.61 | 8.12 | 32.98 | 26.93 | 1.54 | 2.50 | <0.1 | <0.01 |
| WSR02 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9 | 10:43:00 AM | 8.75 | 8.11 | 32.87 | 26.90 | 1.50 | 2.50 | <0.1 | <0.01 |
| WSR03 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:26:00 AM | 8.76 | 8.02 | 31.57 | 26.95 | 1.81 | 2.50 | <0.1 | <0.01 |
| WSR03 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:26:00 AM | 8.74 | 7.98 | 31.48 | 26.91 | 1.75 | 2.50 | <0.1 | <0.01 |
| WSR03 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:27:00 AM | 8.79 | 7.98 | 31.55 | 26.88 | 1.74 | 2.50 | <0.1 | <0.01 |
| WSR03 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:27:00 AM | 8.80 | 8.05 | 31.54 | 26.88 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR03 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 10:28:00 AM | 8.73 | 8.06 | 31.55 | 26.95 | 1.77 | 2.50 | <0.1 | <0.01 |
| WSR03 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 10:28:00 AM | 8.71 | 8.04 | 31.53 | 26.86 | 1.73 | 4.00 | <0.1 | <0.01 |
| WSR04 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:11:00 AM | 8.24 | 7.95 | 32.75 | 27.03 | 2.17 | 2.50 | <0.1 | <0.01 |
| WSR04 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:11:00 AM | 8.20 | 7.96 | 32.75 | 27.06 | 2.20 | 2.50 | <0.1 | <0.01 |
| WSR04 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:12:00 AM | 8.26 | 7.97 | 32.73 | 27.04 | 2.16 | 2.50 | <0.1 | <0.01 |
| WSR04 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:12:00 AM | 8.28 | 7.98 | 32.84 | 27.08 | 2.19 | 2.50 | <0.1 | <0.01 |
| WSR04 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 10:13:00 AM | 8.25 | 7.94 | 32.78 | 27.08 | 2.17 | 2.50 | <0.1 | <0.01 |
| WSR04 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 10:13:00 AM | 8.23 | 7.94 | 32.83 | 27.08 | 2.21 | 2.50 | <0.1 | <0.01 |
| WSR16 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:29:00 AM | 8.45 | 8.06 | 32.77 | 27.07 | 1.73 | 2.50 | <0.1 | <0.01 |
| WSR16 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:29:00 AM | 8.40 | 7.99 | 32.79 | 27.05 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR16 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 8 | 8:30:00 AM | 8.44 | 8.04 | 32.75 | 27.02 | 1.75 | 2.50 | <0.1 | <0.01 |
| WSR16 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 8 | 8:30:00 AM | 8.56 | 8.06 | 32.76 | 27.04 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR16 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 15 | 8:31:00 AM | 8.53 | 8.01 | 32.80 | 27.05 | 1.73 | 3.00 | <0.1 | <0.01 |
| WSR16 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 15 | 8:31:00 AM | 8.49 | 8.06 | 32.70 | 27.03 | 1.76 | 3.00 | <0.1 | <0.01 |
| WSR33 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:54:00 AM | 7.83 | 8.24 | 32.41 | 27.08 | 1.85 | 4.00 | <0.1 | <0.01 |
| WSR33 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:54:00 AM | 7.91 | 8.25 | 32.53 | 27.02 | 1.84 | 3.00 | <0.1 | <0.01 |
| WSR33 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:55:00 AM | 7.98 | 8.24 | 32.48 | 27.03 | 1.87 | 2.50 | <0.1 | <0.01 |
| WSR33 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:55:00 AM | 7.94 | 8.23 | 32.45 | 27.08 | 1.84 | 3.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|-----------|---------|---------|---------------|-------------|-----------|------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR33 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:56:00 AM | 7.98 | 8.22 | 32.46 | 27.04 | 1.80 | 2.50 | <0.1 | <0.01 |
| WSR33 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:56:00 AM | 8.00 | 8.20 | 32.48 | 27.03 | 1.87 | 3.00 | <0.1 | <0.01 |
| WSR36 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:38:00 AM | 8.55 | 8.18 | 32.34 | 27.12 | 1.53 | 2.50 | <0.1 | <0.01 |
| WSR36 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 9:38:00 AM | 8.55 | 8.13 | 32.25 | 27.16 | 1.50 | 2.50 | <0.1 | <0.01 |
| WSR36 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3 | 9:39:00 AM | 8.55 | 8.16 | 32.30 | 27.19 | 1.53 | 2.50 | <0.1 | <0.01 |
| WSR36 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3 | 9:39:00 AM | 8.59 | 8.18 | 32.27 | 27.13 | 1.52 | 3.00 | <0.1 | <0.01 |
| WSR36 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:39:00 AM | 8.63 | 8.18 | 32.36 | 27.16 | 1.49 | 2.50 | <0.1 | <0.01 |
| WSR36 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:39:00 AM | 8.64 | 8.11 | 32.33 | 27.16 | 1.46 | 2.50 | <0.1 | <0.01 |
| WSR37 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 9:30:00 AM | 8.70 | 8.09 | 32.59 | 27.25 | 1.59 | 3.00 | <0.1 | <0.01 |
| WSR37 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:30:00 AM | 8.77 | 8.04 | 32.57 | 27.21 | 1.55 | 3.00 | <0.1 | <0.01 |
| WSR37 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:31:00 AM | 8.71 | 8.07 | 32.60 | 27.24 | 1.53 | 3.00 | <0.1 | <0.01 |
| WSR37 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:31:00 AM | 8.80 | 8.05 | 32.60 | 27.21 | 1.56 | 3.00 | <0.1 | <0.01 |
| WSR37 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 9:32:00 AM | 8.74 | 8.06 | 32.54 | 27.23 | 1.54 | 6.00 | <0.1 | <0.01 |
| WSR37 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 9:32:00 AM | 8.75 | 8.11 | 32.59 | 27.17 | 1.55 | 2.50 | <0.1 | <0.01 |
| NF1 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:53:00 AM | 9.21 | 8.02 | 31.76 | 26.78 | 1.83 | 2.50 | <0.1 | <0.01 |
| NF1 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:53:00 AM | 9.20 | 7.96 | 31.72 | 26.77 | 1.81 | 2.50 | <0.1 | <0.01 |
| NF1 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7 | 8:54:00 AM | 9.22 | 8.03 | 31.72 | 26.80 | 1.85 | 2.50 | <0.1 | <0.01 |
| NF1 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7 | 8:54:00 AM | 9.05 | 7.98 | 31.83 | 26.80 | 1.79 | 2.50 | <0.1 | <0.01 |
| NF1 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 13 | 8:55:00 AM | 9.14 | 8.04 | 31.73 | 26.75 | 1.75 | 2.50 | <0.1 | <0.01 |
| NF1 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 13 | 8:55:00 AM | 9.07 | 8.02 | 31.79 | 26.84 | 1.79 | 2.50 | <0.1 | <0.01 |
| NF2 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:10:00 AM | 8.34 | 8.09 | 31.82 | 26.85 | 1.69 | 2.50 | <0.1 | <0.01 |
| NF2 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:10:00 AM | 8.23 | 8.05 | 31.81 | 26.87 | 1.68 | 2.50 | <0.1 | <0.01 |
| NF2 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 9:11:00 AM | 8.26 | 8.06 | 31.80 | 26.87 | 1.63 | 2.50 | <0.1 | <0.01 |
| NF2 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 9:11:00 AM | 8.32 | 8.05 | 31.84 | 26.87 | 1.64 | 2.50 | <0.1 | <0.01 |
| NF2 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 10 | 9:12:00 AM | 8.33 | 8.08 | 31.85 | 26.93 | 1.63 | 2.50 | <0.1 | <0.01 |
| NF2 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 10 | 9:12:00 AM | 8.34 | 8.06 | 31.86 | 26.93 | 1.62 | 2.50 | <0.1 | <0.01 |
| NF3 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:20:00 AM | 8.90 | 8.19 | 32.11 | 27.04 | 1.69 | 2.50 | <0.1 | <0.01 |
| NF3 | 9/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 9:20:00 AM | 8.88 | 8.22 | 32.22 | 27.11 | 1.65 | 2.50 | <0.1 | <0.01 |

| NF3 9/11/ NF3 9/11/ NF3 9/11/ | 1/2024 1/2024 1/2024 | Cloudy Cl | Mid-Ebb Mid-Ebb Mid-Ebb | Moderate Moderate Moderate | M | 6 | 9:21:00 AM | 8.96 | 8.16 | 32.22 | 27.05 | 1.69 | 2.50 | <0.1 | <0.01 |
|---|----------------------------|--|-------------------------------|----------------------------------|---|----|-------------|------|------|-------|-------|------|------|------|-------|
| NF3 9/11/ NF3 9/11/ | 1/2024 | Cloudy | | | М | 6 | | | | | | | | | |
| NF3 9/11/ | 1/2024 | | Mid-Ebb | Moderate | | 0 | 9:21:00 AM | 8.81 | 8.18 | 32.12 | 27.13 | 1.62 | 2.50 | <0.1 | <0.01 |
| | · | Cloudy | | Houchate | В | 11 | 9:22:00 AM | 8.88 | 8.15 | 32.12 | 27.11 | 1.69 | 2.50 | <0.1 | <0.01 |
| CE 12/11/ | 11/2024 | | Mid-Ebb | Moderate | В | 11 | 9:22:00 AM | 8.97 | 8.21 | 32.20 | 27.09 | 1.65 | 2.50 | <0.1 | <0.01 |
| | | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:00:00 AM | 8.11 | 8.15 | 31.35 | 27.34 | 2.58 | 2.50 | <0.1 | <0.01 |
| CE 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:00:00 AM | 8.14 | 8.19 | 31.27 | 27.36 | 2.66 | 2.50 | <0.1 | <0.01 |
| CE 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 8:01:00 AM | 8.16 | 8.21 | 31.29 | 27.29 | 2.61 | 6.00 | <0.1 | <0.01 |
| CE 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 8:01:00 AM | 8.07 | 8.19 | 31.41 | 27.31 | 2.51 | 4.00 | <0.1 | <0.01 |
| CE 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | В | 19 | 8:02:00 AM | 8.08 | 8.16 | 31.29 | 27.27 | 2.47 | 2.50 | <0.1 | <0.01 |
| CE 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | В | 19 | 8:02:00 AM | 8.12 | 8.16 | 31.40 | 27.33 | 2.48 | 4.00 | <0.1 | <0.01 |
| CF 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:39:00 AM | 8.27 | 8.11 | 32.65 | 27.13 | 2.23 | 3.00 | <0.1 | <0.01 |
| CF 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:39:00 AM | 8.27 | 8.15 | 32.55 | 27.06 | 2.25 | 5.00 | <0.1 | <0.01 |
| CF 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 11:40:00 AM | 8.22 | 8.16 | 32.66 | 27.14 | 2.26 | 4.00 | <0.1 | <0.01 |
| CF 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 11:40:00 AM | 8.31 | 8.10 | 32.56 | 27.05 | 2.23 | 2.50 | <0.1 | <0.01 |
| CF 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | В | 19 | 11:41:00 AM | 8.22 | 8.10 | 32.61 | 27.12 | 2.28 | 3.00 | <0.1 | <0.01 |
| CF 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | В | 19 | 11:41:00 AM | 8.21 | 8.14 | 32.59 | 27.09 | 2.29 | 3.00 | <0.1 | <0.01 |
| WSR01 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:12:00 AM | 8.36 | 8.18 | 31.69 | 27.36 | 2.09 | 3.00 | <0.1 | <0.01 |
| WSR01 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:12:00 AM | 8.27 | 8.13 | 31.78 | 27.39 | 2.09 | 4.00 | <0.1 | <0.01 |
| WSR01 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 11:13:00 AM | 8.30 | 8.14 | 31.87 | 27.40 | 2.12 | 2.50 | <0.1 | <0.01 |
| WSR01 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 11:13:00 AM | 8.41 | 8.13 | 31.75 | 27.32 | 2.04 | 4.00 | <0.1 | <0.01 |
| WSR01 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 11:14:00 AM | 8.34 | 8.16 | 31.69 | 27.32 | 2.08 | 2.50 | <0.1 | <0.01 |
| WSR01 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 11:14:00 AM | 8.35 | 8.18 | 31.78 | 27.40 | 2.11 | 4.00 | <0.1 | <0.01 |
| WSR02 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:51:00 AM | 9.10 | 8.06 | 32.36 | 27.25 | 1.66 | 2.50 | <0.1 | <0.01 |
| WSR02 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:51:00 AM | 9.03 | 8.08 | 32.45 | 27.28 | 1.67 | 2.50 | <0.1 | <0.01 |
| WSR02 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 10:52:00 AM | 9.07 | 8.10 | 32.30 | 27.28 | 1.68 | 2.50 | <0.1 | <0.01 |
| WSR02 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 10:52:00 AM | 9.18 | 8.05 | 32.41 | 27.28 | 1.46 | 4.00 | <0.1 | <0.01 |
| WSR02 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9 | 10:53:00 AM | 9.21 | 8.04 | 32.30 | 27.24 | 1.72 | 2.50 | <0.1 | <0.01 |
| WSR02 12/11/ | 11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9 | 10:53:00 AM | 9.07 | 8.09 | 32.47 | 27.24 | 1.66 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR03 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:34:00 AM | 8.33 | 8.15 | 32.76 | 26.93 | 1.47 | 2.50 | <0.1 | <0.01 |
| WSR03 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:34:00 AM | 8.21 | 8.20 | 32.78 | 27.02 | 1.42 | 5.00 | <0.1 | <0.01 |
| WSR03 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:35:00 AM | 8.35 | 8.20 | 32.90 | 26.98 | 1.49 | 3.00 | <0.1 | <0.01 |
| WSR03 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:35:00 AM | 8.27 | 8.16 | 32.76 | 27.02 | 1.48 | 2.50 | <0.1 | <0.01 |
| WSR03 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 10:36:00 AM | 8.30 | 8.21 | 32.83 | 26.94 | 1.46 | 6.00 | <0.1 | <0.01 |
| WSR03 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 10:36:00 AM | 8.32 | 8.20 | 32.76 | 27.00 | 1.46 | 3.00 | <0.1 | <0.01 |
| WSR04 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:17:00 AM | 8.70 | 8.31 | 31.18 | 27.15 | 1.74 | 3.00 | <0.1 | <0.01 |
| WSR04 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:17:00 AM | 8.83 | 8.25 | 31.05 | 27.20 | 1.72 | 2.50 | <0.1 | <0.01 |
| WSR04 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:18:00 AM | 8.71 | 8.30 | 31.12 | 27.14 | 1.74 | 2.50 | <0.1 | <0.01 |
| WSR04 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:18:00 AM | 8.82 | 8.30 | 31.00 | 27.17 | 1.47 | 2.50 | <0.1 | <0.01 |
| WSR04 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 10:19:00 AM | 8.71 | 8.28 | 31.08 | 27.13 | 1.72 | 2.50 | <0.1 | <0.01 |
| WSR04 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 10:19:00 AM | 8.79 | 8.26 | 31.11 | 27.19 | 1.70 | 4.00 | <0.1 | <0.01 |
| WSR16 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:27:00 AM | 8.53 | 8.09 | 32.20 | 27.12 | 1.48 | 3.00 | <0.1 | <0.01 |
| WSR16 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:27:00 AM | 8.53 | 8.14 | 32.29 | 27.13 | 1.48 | 6.00 | <0.1 | <0.01 |
| WSR16 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 8 | 8:28:00 AM | 8.52 | 8.08 | 32.27 | 27.14 | 1.52 | 3.00 | <0.1 | <0.01 |
| WSR16 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 8 | 8:28:00 AM | 8.54 | 8.10 | 32.16 | 27.14 | 1.52 | 2.50 | <0.1 | <0.01 |
| WSR16 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 15 | 8:29:00 AM | 8.47 | 8.11 | 32.16 | 27.05 | 1.52 | 4.00 | <0.1 | <0.01 |
| WSR16 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 15 | 8:29:00 AM | 8.44 | 8.12 | 32.17 | 27.14 | 1.49 | 2.50 | <0.1 | <0.01 |
| WSR33 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:59:00 AM | 8.26 | 8.36 | 32.05 | 27.34 | 2.10 | 2.50 | <0.1 | <0.01 |
| WSR33 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:59:00 AM | 8.20 | 8.35 | 32.16 | 27.31 | 2.07 | 3.00 | <0.1 | <0.01 |
| WSR33 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:00:00 AM | 8.24 | 8.30 | 32.01 | 27.34 | 2.07 | 3.00 | <0.1 | <0.01 |
| WSR33 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:00:00 AM | 8.20 | 8.34 | 32.02 | 27.32 | 2.13 | 5.00 | <0.1 | <0.01 |
| WSR33 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 10:01:00 AM | 8.28 | 8.34 | 32.18 | 27.37 | 2.09 | 2.50 | <0.1 | <0.01 |
| WSR33 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 10:01:00 AM | 8.20 | 8.31 | 32.03 | 27.29 | 2.07 | 2.50 | <0.1 | <0.01 |
| WSR36 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:42:00 AM | 8.31 | 8.25 | 31.65 | 27.14 | 1.57 | 2.50 | <0.1 | <0.01 |
| WSR36 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:42:00 AM | 8.23 | 8.25 | 31.76 | 27.13 | 1.55 | 2.50 | <0.1 | <0.01 |
| WSR36 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:43:00 AM | 8.26 | 8.21 | 31.73 | 27.16 | 1.60 | 2.50 | <0.1 | <0.01 |
| WSR36 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:43:00 AM | 8.31 | 8.27 | 31.65 | 27.18 | 1.64 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR36 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 9:43:00 AM | 8.29 | 8.27 | 31.63 | 27.15 | 1.57 | 2.50 | <0.1 | <0.01 |
| WSR36 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 9:43:00 AM | 8.32 | 8.24 | 31.69 | 27.13 | 1.58 | 2.50 | <0.1 | <0.01 |
| WSR37 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:33:00 AM | 8.01 | 8.18 | 31.22 | 27.41 | 1.79 | 2.50 | <0.1 | <0.01 |
| WSR37 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 9:33:00 AM | 7.95 | 8.23 | 31.39 | 27.40 | 1.79 | 4.00 | <0.1 | <0.01 |
| WSR37 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:34:00 AM | 8.00 | 8.21 | 31.35 | 27.34 | 1.75 | 2.50 | <0.1 | <0.01 |
| WSR37 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 9:34:00 AM | 8.00 | 8.23 | 31.39 | 27.40 | 1.77 | 2.50 | <0.1 | <0.01 |
| WSR37 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 9:35:00 AM | 8.10 | 8.23 | 31.22 | 27.37 | 1.76 | 5.00 | <0.1 | <0.01 |
| WSR37 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 9:35:00 AM | 8.12 | 8.22 | 31.26 | 27.41 | 1.72 | 3.00 | <0.1 | <0.01 |
| NF1 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:53:00 AM | 8.67 | 8.09 | 31.70 | 27.06 | 1.50 | 5.00 | <0.1 | <0.01 |
| NF1 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:53:00 AM | 8.64 | 8.08 | 31.60 | 27.06 | 1.49 | 2.50 | <0.1 | <0.01 |
| NF1 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7 | 8:54:00 AM | 8.68 | 8.13 | 31.67 | 27.07 | 1.49 | 4.00 | <0.1 | <0.01 |
| NF1 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7 | 8:54:00 AM | 8.59 | 8.12 | 31.63 | 27.02 | 1.73 | 2.50 | <0.1 | <0.01 |
| NF1 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 13 | 8:55:00 AM | 8.74 | 8.13 | 31.68 | 27.09 | 1.74 | 2.50 | <0.1 | <0.01 |
| NF1 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 13 | 8:55:00 AM | 8.58 | 8.11 | 31.76 | 27.07 | 1.73 | 2.50 | <0.1 | <0.01 |
| NF2 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:13:00 AM | 8.39 | 8.20 | 32.04 | 27.12 | 1.50 | 2.50 | <0.1 | <0.01 |
| NF2 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:13:00 AM | 8.40 | 8.15 | 31.94 | 27.13 | 1.43 | 3.00 | <0.1 | <0.01 |
| NF2 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 9:14:00 AM | 8.41 | 8.20 | 31.95 | 27.13 | 1.46 | 2.50 | <0.1 | <0.01 |
| NF2 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 9:14:00 AM | 8.41 | 8.15 | 31.89 | 27.16 | 1.44 | 2.50 | <0.1 | <0.01 |
| NF2 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 10 | 9:15:00 AM | 8.36 | 8.18 | 31.93 | 27.20 | 1.47 | 2.50 | <0.1 | <0.01 |
| NF2 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 10 | 9:15:00 AM | 8.29 | 8.20 | 32.03 | 27.12 | 1.44 | 3.00 | <0.1 | <0.01 |
| NF3 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:24:00 AM | 8.86 | 8.18 | 32.12 | 27.37 | 1.77 | 3.00 | <0.1 | <0.01 |
| NF3 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:24:00 AM | 8.72 | 8.22 | 32.13 | 27.38 | 1.78 | 3.00 | <0.1 | <0.01 |
| NF3 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6 | 9:25:00 AM | 8.73 | 8.22 | 32.07 | 27.42 | 1.79 | 5.00 | <0.1 | <0.01 |
| NF3 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6 | 9:25:00 AM | 8.72 | 8.19 | 32.18 | 27.39 | 1.77 | 2.50 | <0.1 | <0.01 |
| NF3 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 11 | 9:26:00 AM | 8.69 | 8.18 | 32.20 | 27.34 | 1.76 | 4.00 | <0.1 | <0.01 |
| NF3 | 12/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 11 | 9:26:00 AM | 8.75 | 8.19 | 32.07 | 27.40 | 1.80 | 3.00 | <0.1 | <0.01 |
| CE | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:30:00 AM | 8.20 | 8.09 | 32.44 | 26.28 | 2.49 | 4.00 | <0.1 | <0.01 |
| CE | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:30:00 AM | 8.34 | 8.04 | 32.43 | 26.27 | 2.46 | 4.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| CE | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 11 | 10:31:00 AM | 8.25 | 8.04 | 32.41 | 26.27 | 2.32 | 6.00 | <0.1 | <0.01 |
| CE | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 11 | 10:31:00 AM | 8.26 | 8.08 | 32.31 | 26.29 | 2.35 | 5.00 | <0.1 | <0.01 |
| CE | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 21 | 10:32:00 AM | 8.28 | 8.07 | 32.44 | 26.28 | 2.26 | 6.00 | <0.1 | <0.01 |
| CE | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 21 | 10:32:00 AM | 8.34 | 8.04 | 32.32 | 26.30 | 2.24 | 3.00 | <0.1 | <0.01 |
| CF | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 1:50:00 PM | 8.18 | 8.03 | 32.34 | 26.11 | 2.23 | 6.00 | <0.1 | <0.01 |
| CF | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 1:50:00 PM | 8.20 | 8.01 | 32.29 | 26.14 | 2.26 | 8.00 | <0.1 | <0.01 |
| CF | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 1:51:00 PM | 8.20 | 8.05 | 32.29 | 26.12 | 2.21 | 6.00 | <0.1 | <0.01 |
| CF | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10 | 1:51:00 PM | 8.19 | 8.02 | 32.33 | 26.12 | 2.22 | 4.00 | <0.1 | <0.01 |
| CF | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 19 | 1:52:00 PM | 8.23 | 8.00 | 32.34 | 26.14 | 2.19 | 3.00 | <0.1 | <0.01 |
| CF | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 19 | 1:52:00 PM | 8.19 | 8.00 | 32.32 | 26.12 | 2.15 | 5.00 | <0.1 | <0.01 |
| WSR01 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 1:24:00 PM | 8.03 | 8.16 | 32.32 | 26.24 | 1.51 | 5.00 | <0.1 | <0.01 |
| WSR01 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 1:24:00 PM | 8.03 | 8.11 | 32.31 | 26.21 | 1.54 | 9.00 | <0.1 | <0.01 |
| WSR01 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 1:25:00 PM | 8.11 | 8.13 | 32.32 | 26.24 | 1.56 | 5.00 | <0.1 | <0.01 |
| WSR01 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 1:25:00 PM | 8.05 | 8.09 | 32.34 | 26.21 | 1.55 | 5.00 | <0.1 | <0.01 |
| WSR01 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 1:26:00 PM | 7.98 | 8.14 | 32.31 | 26.23 | 1.49 | 5.00 | <0.1 | <0.01 |
| WSR01 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 1:26:00 PM | 8.02 | 8.11 | 32.35 | 26.21 | 1.54 | 7.00 | <0.1 | <0.01 |
| WSR02 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 1:03:00 PM | 8.87 | 8.19 | 31.12 | 26.17 | 1.40 | 5.00 | <0.1 | <0.01 |
| WSR02 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 1:03:00 PM | 8.82 | 8.19 | 31.05 | 26.17 | 1.47 | 5.00 | <0.1 | <0.01 |
| WSR02 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 1:04:00 PM | 8.95 | 8.17 | 31.15 | 26.19 | 1.45 | 2.50 | <0.1 | <0.01 |
| WSR02 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 1:04:00 PM | 8.94 | 8.12 | 31.16 | 26.19 | 1.47 | 3.00 | <0.1 | <0.01 |
| WSR02 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9 | 1:05:00 PM | 8.82 | 8.20 | 31.14 | 26.19 | 1.47 | 6.00 | <0.1 | <0.01 |
| WSR02 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9 | 1:05:00 PM | 8.96 | 8.18 | 31.16 | 26.17 | 1.46 | 8.00 | <0.1 | <0.01 |
| WSR03 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 12:45:00 PM | 9.11 | 8.02 | 31.46 | 26.37 | 1.80 | 7.00 | <0.1 | <0.01 |
| WSR03 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 12:45:00 PM | 9.05 | 8.02 | 31.36 | 26.35 | 1.75 | 12.00 | <0.1 | <0.01 |
| WSR03 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 12:46:00 PM | 9.06 | 7.99 | 31.43 | 26.35 | 1.75 | 4.00 | <0.1 | <0.01 |
| WSR03 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 12:46:00 PM | 9.13 | 8.03 | 31.48 | 26.38 | 1.73 | 6.00 | <0.1 | <0.01 |
| WSR03 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 12:47:00 PM | 9.05 | 8.04 | 31.41 | 26.37 | 1.77 | 6.00 | <0.1 | <0.01 |
| WSR03 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 12:47:00 PM | 9.12 | 8.03 | 31.41 | 26.36 | 1.74 | 6.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR04 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 12:30:00 PM | 8.50 | 7.96 | 31.69 | 26.24 | 1.62 | 5.00 | <0.1 | <0.01 |
| WSR04 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 12:30:00 PM | 8.55 | 7.92 | 31.71 | 26.25 | 1.59 | 6.00 | <0.1 | <0.01 |
| WSR04 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 12:31:00 PM | 8.49 | 7.97 | 31.66 | 26.24 | 1.64 | 4.00 | <0.1 | <0.01 |
| WSR04 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 12:31:00 PM | 8.55 | 7.91 | 31.73 | 26.23 | 1.59 | 3.00 | <0.1 | <0.01 |
| WSR04 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 12:32:00 PM | 8.52 | 7.99 | 31.72 | 26.23 | 1.66 | 4.00 | <0.1 | <0.01 |
| WSR04 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 12:32:00 PM | 8.43 | 7.99 | 31.69 | 26.23 | 1.61 | 4.00 | <0.1 | <0.01 |
| WSR16 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:55:00 AM | 8.67 | 7.98 | 32.07 | 26.16 | 1.57 | 5.00 | <0.1 | <0.01 |
| WSR16 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:55:00 AM | 8.59 | 7.99 | 32.19 | 26.16 | 1.63 | 7.00 | <0.1 | <0.01 |
| WSR16 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 8 | 10:56:00 AM | 8.65 | 7.95 | 32.16 | 26.14 | 1.59 | 9.00 | <0.1 | <0.01 |
| WSR16 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 8 | 10:56:00 AM | 8.63 | 7.95 | 32.19 | 26.16 | 1.63 | 6.00 | <0.1 | <0.01 |
| WSR16 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 16 | 10:57:00 AM | 8.65 | 7.99 | 32.11 | 26.15 | 1.57 | 7.00 | <0.1 | <0.01 |
| WSR16 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 16 | 10:57:00 AM | 8.64 | 7.94 | 32.15 | 26.14 | 1.63 | 7.00 | <0.1 | <0.01 |
| WSR33 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 12:13:00 PM | 8.09 | 7.95 | 32.63 | 26.16 | 1.60 | 4.00 | <0.1 | <0.01 |
| WSR33 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 12:13:00 PM | 8.15 | 7.98 | 32.73 | 26.13 | 1.61 | 5.00 | <0.1 | <0.01 |
| WSR33 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 12:14:00 PM | 8.01 | 7.98 | 32.70 | 26.14 | 1.65 | 5.00 | <0.1 | <0.01 |
| WSR33 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 12:14:00 PM | 8.07 | 8.00 | 32.70 | 26.13 | 1.62 | 5.00 | <0.1 | <0.01 |
| WSR33 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 12:15:00 PM | 8.16 | 7.94 | 32.67 | 26.14 | 1.57 | 4.00 | <0.1 | <0.01 |
| WSR33 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 12:15:00 PM | 8.15 | 7.92 | 32.67 | 26.15 | 1.62 | 7.00 | <0.1 | <0.01 |
| WSR36 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:57:00 AM | 8.29 | 8.05 | 31.23 | 26.43 | 2.13 | 4.00 | <0.1 | <0.01 |
| WSR36 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:57:00 AM | 8.14 | 8.00 | 31.27 | 26.45 | 2.05 | 5.00 | <0.1 | <0.01 |
| WSR36 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 11:58:00 AM | 8.26 | 8.02 | 31.24 | 26.45 | 2.11 | 8.00 | <0.1 | <0.01 |
| WSR36 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 11:58:00 AM | 8.28 | 7.98 | 31.28 | 26.45 | 2.10 | 4.00 | <0.1 | <0.01 |
| WSR36 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 11:58:00 AM | 8.32 | 7.97 | 31.25 | 26.42 | 2.13 | 6.00 | <0.1 | <0.01 |
| WSR36 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 11:58:00 AM | 8.21 | 8.01 | 31.26 | 26.42 | 2.08 | 3.00 | <0.1 | <0.01 |
| WSR37 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:51:00 AM | 8.71 | 8.14 | 32.09 | 26.32 | 1.79 | 6.00 | <0.1 | <0.01 |
| WSR37 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:51:00 AM | 8.70 | 8.07 | 32.04 | 26.30 | 1.84 | 7.00 | <0.1 | <0.01 |
| WSR37 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 11:52:00 AM | 8.71 | 8.11 | 32.09 | 26.32 | 1.81 | 8.00 | <0.1 | <0.01 |
| WSR37 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 11:52:00 AM | 8.59 | 8.11 | 32.16 | 26.32 | 1.78 | 8.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR37 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 11:53:00 AM | 8.58 | 8.11 | 32.17 | 26.33 | 1.84 | 5.00 | <0.1 | <0.01 |
| WSR37 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8 | 11:53:00 AM | 8.63 | 8.12 | 32.08 | 26.31 | 1.79 | 8.00 | <0.1 | <0.01 |
| NF1 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:19:00 AM | 8.86 | 8.12 | 32.42 | 26.20 | 1.91 | 4.00 | <0.1 | <0.01 |
| NF1 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:19:00 AM | 8.92 | 8.11 | 32.41 | 26.19 | 1.90 | 5.00 | <0.1 | <0.01 |
| NF1 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7 | 11:20:00 AM | 8.94 | 8.17 | 32.38 | 26.20 | 1.89 | 4.00 | <0.1 | <0.01 |
| NF1 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7 | 11:20:00 AM | 8.88 | 8.16 | 32.40 | 26.21 | 1.90 | 4.00 | <0.1 | <0.01 |
| NF1 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 12 | 11:21:00 AM | 8.99 | 8.09 | 32.33 | 26.22 | 1.87 | 5.00 | <0.1 | <0.01 |
| NF1 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 12 | 11:21:00 AM | 8.90 | 8.17 | 32.36 | 26.22 | 1.93 | 9.00 | <0.1 | <0.01 |
| NF2 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:36:00 AM | 8.72 | 8.09 | 32.66 | 26.37 | 1.68 | 5.00 | <0.1 | <0.01 |
| NF2 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:36:00 AM | 8.72 | 8.01 | 32.61 | 26.36 | 1.67 | 6.00 | <0.1 | <0.01 |
| NF2 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 11:37:00 AM | 8.85 | 8.08 | 32.61 | 26.38 | 1.68 | 8.00 | <0.1 | <0.01 |
| NF2 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5 | 11:37:00 AM | 8.75 | 8.02 | 32.65 | 26.38 | 1.69 | 5.00 | <0.1 | <0.01 |
| NF2 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9 | 11:38:00 AM | 8.76 | 8.01 | 32.66 | 26.35 | 1.71 | 5.00 | <0.1 | <0.01 |
| NF2 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9 | 11:38:00 AM | 8.83 | 8.03 | 32.69 | 26.37 | 1.72 | 9.00 | <0.1 | <0.01 |
| NF3 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:44:00 AM | 8.22 | 8.22 | 31.71 | 26.36 | 1.52 | 9.00 | <0.1 | <0.01 |
| NF3 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:44:00 AM | 8.26 | 8.14 | 31.68 | 26.36 | 1.57 | 6.00 | <0.1 | <0.01 |
| NF3 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6 | 11:45:00 AM | 8.20 | 8.15 | 31.73 | 26.37 | 1.59 | 9.00 | <0.1 | <0.01 |
| NF3 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6 | 11:45:00 AM | 8.27 | 8.17 | 31.73 | 26.38 | 1.57 | 6.00 | <0.1 | <0.01 |
| NF3 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 12 | 11:46:00 AM | 8.17 | 8.18 | 31.72 | 26.39 | 1.53 | 5.00 | <0.1 | <0.01 |
| NF3 | 16/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 12 | 11:46:00 AM | 8.24 | 8.21 | 31.60 | 26.39 | 1.57 | 6.00 | <0.1 | <0.01 |
| CE | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:26:00 AM | 8.41 | 8.09 | 31.47 | 26.96 | 2.14 | 4.00 | <0.1 | <0.01 |
| CE | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:26:00 AM | 8.34 | 8.06 | 31.34 | 27.24 | 2.16 | 2.50 | <0.1 | <0.01 |
| CE | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 11 | 11:27:00 AM | 8.41 | 8.05 | 31.46 | 27.12 | 2.11 | 3.00 | <0.1 | <0.01 |
| CE | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 11 | 11:27:00 AM | 8.34 | 8.07 | 31.46 | 26.38 | 2.09 | 3.00 | <0.1 | <0.01 |
| CE | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 22 | 11:28:00 AM | 8.42 | 8.09 | 31.42 | 26.89 | 2.05 | 4.00 | <0.1 | <0.01 |
| CE | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 22 | 11:28:00 AM | 8.37 | 8.06 | 31.35 | 27.25 | 2.11 | 3.00 | <0.1 | <0.01 |
| CF | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 8:05:00 AM | 8.13 | 7.98 | 31.79 | 26.47 | 2.43 | 4.00 | <0.1 | <0.01 |
| CF | 19/11/2024 | Cloudy | Mid-Flood | Moderate | s | 1 | 8:05:00 AM | 8.12 | 7.95 | 31.73 | 26.59 | 2.46 | 3.00 | <0.1 | <0.01 |

| CF 19/11/2024 Cloud CF 19/11/2024 Cloud CF 19/11/2024 Cloud CF 19/11/2024 Cloud WSR01 19/11/2024 Cloud | udy Mid-Flood | Moderate | M B B S S M M | 10 10 18 18 1 1 1 5 5 | 8:06:00 AM 8:06:00 AM 8:07:00 AM 8:07:00 AM 8:31:00 AM 8:31:00 AM 8:32:00 AM | 8.11 8.20 8.06 8.04 8.28 8.17 8.18 | 8.00 7.96 7.95 8.01 8.10 8.13 | 31.75 31.80 31.81 31.71 32.41 32.32 | 26.59 26.84 26.51 27.01 26.67 26.50 | 2.36 2.35 2.28 2.25 1.67 1.69 | 4.00 3.00 6.00 3.00 3.00 5.00 | <0.1 <0.1 <0.1 <0.1 <0.1 | <0.01 <0.01 <0.01 <0.01 <0.01 |
|---|--|--|---------------------------------|---|--|--|--|--|--|--|--|--------------------------------------|---|
| CF 19/11/2024 Cloud CF 19/11/2024 Cloud WSR01 19/11/2024 Cloud | udy Mid-Flood | Moderate Moderate Moderate Moderate Moderate | B B S S M M | 18 18 1 1 5 | 8:07:00 AM 8:07:00 AM 8:31:00 AM 8:31:00 AM 8:32:00 AM | 8.06 8.04 8.28 8.17 | 7.95 8.01 8.10 | 31.81 31.71 32.41 | 26.51 27.01 26.67 | 2.28 2.25 1.67 | 6.00 3.00 3.00 | <0.1 <0.1 <0.1 | <0.01 |
| CF 19/11/2024 Cloud WSR01 19/11/2024 Cloud | audy Mid-Flood audy Mid-Flood audy Mid-Flood audy Mid-Flood audy Mid-Flood audy Mid-Flood audy Mid-Flood audy Mid-Flood | Moderate Moderate Moderate Moderate Moderate | B S S M M | 18 1 1 5 | 8:07:00 AM 8:31:00 AM 8:31:00 AM 8:31:00 AM 8:32:00 AM | 8.04 8.28 8.17 | 8.01 | 31.71 32.41 | 27.01 26.67 | 2.25 | 3.00 | <0.1 | <0.01 |
| WSR01 19/11/2024 Cloud | pudy Mid-Flood pudy M | Moderate Moderate Moderate Moderate | S S M M | 1 1 5 | 8:31:00 AM 8:31:00 AM 8:32:00 AM | 8.28 | 8.10 | 32.41 | 26.67 | 1.67 | 3.00 | <0.1 | |
| WSR01 19/11/2024 Cloud WSR01 19/11/2024 Cloud WSR01 19/11/2024 Cloud WSR01 19/11/2024 Cloud | oudy Mid-Flood oudy Mid-Flood oudy Mid-Flood oudy Mid-Flood | Moderate Moderate Moderate | S M M | 1 | 8:31:00 AM 8:32:00 AM | 8.17 | | | | | | | <0.01 |
| WSR01 19/11/2024 Cloud WSR01 19/11/2024 Cloud WSR01 19/11/2024 Cloud | Dudy Mid-Flood Dudy Mid-Flood Dudy Mid-Flood | Moderate Moderate | M | 5 | 8:32:00 AM | | 8.13 | 32.32 | 26.50 | 1(0 | 5.00 | .0.1 | |
| WSR01 19/11/2024 Cloud WSR01 19/11/2024 Cloud | budy Mid-Flood budy Mid-Flood | Moderate | М | | | 8.18 | | | 20.00 | 1.09 | 5.00 | <0.1 | <0.01 |
| WSR01 19/11/2024 Cloud | oudy Mid-Flood | | | 5 | 8-32-00 AM | | 8.15 | 32.42 | 26.96 | 1.62 | 3.00 | <0.1 | <0.01 |
| | | Moderate | P | | 0.52.00 AM | 8.29 | 8.08 | 32.41 | 26.49 | 1.65 | 3.00 | <0.1 | <0.01 |
| WSR01 19/11/2024 Cloud | oudy Mid-Flood | | В | 8 | 8:33:00 AM | 8.16 | 8.14 | 32.39 | 26.05 | 1.69 | 2.50 | <0.1 | <0.01 |
| | | Moderate | В | 8 | 8:33:00 AM | 8.19 | 8.10 | 32.38 | 26.78 | 1.68 | 2.50 | <0.1 | <0.01 |
| WSR02 19/11/2024 Cloud | oudy Mid-Flood | Moderate | S | 1 | 8:52:00 AM | 9.14 | 8.04 | 31.84 | 26.53 | 1.53 | 2.50 | <0.1 | <0.01 |
| WSR02 19/11/2024 Cloud | oudy Mid-Flood | Moderate | S | 1 | 8:52:00 AM | 9.15 | 8.05 | 31.85 | 27.12 | 1.55 | 3.00 | <0.1 | <0.01 |
| WSR02 19/11/2024 Cloud | oudy Mid-Flood | Moderate | М | 5 | 8:53:00 AM | 9.21 | 8.06 | 31.87 | 26.63 | 1.53 | 2.50 | <0.1 | <0.01 |
| WSR02 19/11/2024 Cloud | oudy Mid-Flood | Moderate | М | 5 | 8:53:00 AM | 9.10 | 8.12 | 31.94 | 26.98 | 1.56 | 2.50 | <0.1 | <0.01 |
| WSR02 19/11/2024 Cloud | oudy Mid-Flood | Moderate | В | 9 | 8:54:00 AM | 9.09 | 8.12 | 31.91 | 26.53 | 1.54 | 2.50 | <0.1 | <0.01 |
| WSR02 19/11/2024 Cloud | oudy Mid-Flood | Moderate | В | 9 | 8:54:00 AM | 9.25 | 8.06 | 31.89 | 26.73 | 1.53 | 3.00 | <0.1 | <0.01 |
| WSR03 19/11/2024 Cloud | oudy Mid-Flood | Moderate | S | 1 | 9:08:00 AM | 8.83 | 8.24 | 32.21 | 27.17 | 1.81 | 5.00 | <0.1 | <0.01 |
| WSR03 19/11/2024 Cloud | oudy Mid-Flood | Moderate | S | 1 | 9:08:00 AM | 8.76 | 8.26 | 32.20 | 26.68 | 1.78 | 2.50 | <0.1 | <0.01 |
| WSR03 19/11/2024 Cloud | oudy Mid-Flood | Moderate | М | 4 | 9:09:00 AM | 8.87 | 8.22 | 32.23 | 26.29 | 1.90 | 4.00 | <0.1 | <0.01 |
| WSR03 19/11/2024 Cloud | oudy Mid-Flood | Moderate | М | 4 | 9:09:00 AM | 8.84 | 8.24 | 32.21 | 26.38 | 1.84 | 5.00 | <0.1 | <0.01 |
| WSR03 19/11/2024 Cloud | oudy Mid-Flood | Moderate | В | 7 | 9:10:00 AM | 8.81 | 8.23 | 32.17 | 26.62 | 1.78 | 2.50 | <0.1 | <0.01 |
| WSR03 19/11/2024 Cloud | oudy Mid-Flood | Moderate | В | 7 | 9:10:00 AM | 8.83 | 8.19 | 32.24 | 26.37 | 1.84 | 2.50 | <0.1 | <0.01 |
| WSR04 19/11/2024 Cloud | oudy Mid-Flood | Moderate | S | 1 | 9:24:00 AM | 8.78 | 8.13 | 31.95 | 27.12 | 1.90 | 3.00 | <0.1 | <0.01 |
| WSR04 19/11/2024 Cloud | oudy Mid-Flood | Moderate | S | 1 | 9:24:00 AM | 8.89 | 8.13 | 31.96 | 27.30 | 1.91 | 4.00 | <0.1 | <0.01 |
| WSR04 19/11/2024 Cloud | oudy Mid-Flood | Moderate | М | 4 | 9:25:00 AM | 8.78 | 8.08 | 32.01 | 26.65 | 1.92 | 3.00 | <0.1 | <0.01 |
| WSR04 19/11/2024 Cloud | oudy Mid-Flood | Moderate | М | 4 | 9:25:00 AM | 8.90 | 8.12 | 32.05 | 27.16 | 1.87 | 2.50 | <0.1 | <0.01 |
| WSR04 19/11/2024 Cloud | oudy Mid-Flood | Moderate | В | 7 | 9:26:00 AM | 8.76 | 8.10 | 31.95 | 27.06 | 1.93 | 3.00 | <0.1 | <0.01 |
| WSR04 19/11/2024 Cloud | oudy Mid-Flood | Moderate | В | 7 | 9:26:00 AM | 8.87 | 8.08 | 31.93 | 26.94 | 1.88 | 4.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR16 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:03:00 AM | 8.83 | 8.05 | 31.32 | 26.62 | 1.76 | 3.00 | <0.1 | <0.01 |
| WSR16 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:03:00 AM | 8.77 | 8.08 | 31.20 | 27.01 | 1.78 | 2.50 | <0.1 | <0.01 |
| WSR16 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 8 | 11:04:00 AM | 8.67 | 8.08 | 31.29 | 26.34 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR16 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 8 | 11:04:00 AM | 8.70 | 8.08 | 31.32 | 27.18 | 1.81 | 3.00 | <0.1 | <0.01 |
| WSR16 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 14 | 11:05:00 AM | 8.72 | 8.11 | 31.20 | 26.74 | 1.78 | 6.00 | <0.1 | <0.01 |
| WSR16 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 14 | 11:05:00 AM | 8.83 | 8.11 | 31.21 | 26.73 | 1.74 | 4.00 | <0.1 | <0.01 |
| WSR33 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:41:00 AM | 8.16 | 8.11 | 32.35 | 26.41 | 1.29 | 3.00 | <0.1 | <0.01 |
| WSR33 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:41:00 AM | 8.18 | 8.14 | 32.40 | 26.23 | 1.26 | 3.00 | <0.1 | <0.01 |
| WSR33 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 9:42:00 AM | 8.16 | 8.17 | 32.37 | 26.53 | 1.23 | 3.00 | <0.1 | <0.01 |
| WSR33 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 9:42:00 AM | 8.14 | 8.11 | 32.37 | 26.21 | 1.26 | 4.00 | <0.1 | <0.01 |
| WSR33 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 9:43:00 AM | 8.19 | 8.15 | 32.34 | 26.76 | 1.28 | 3.00 | <0.1 | <0.01 |
| WSR33 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 9:43:00 AM | 8.22 | 8.16 | 32.44 | 26.18 | 1.31 | 2.50 | <0.1 | <0.01 |
| WSR36 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:58:00 AM | 8.89 | 8.02 | 31.50 | 26.70 | 1.82 | 2.50 | <0.1 | <0.01 |
| WSR36 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:58:00 AM | 8.84 | 8.08 | 31.56 | 26.32 | 1.76 | 5.00 | <0.1 | <0.01 |
| WSR36 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 9:59:00 AM | 8.84 | 8.04 | 31.46 | 26.35 | 1.83 | 2.50 | <0.1 | <0.01 |
| WSR36 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 9:59:00 AM | 8.79 | 8.09 | 31.50 | 26.74 | 1.78 | 2.50 | <0.1 | <0.01 |
| WSR36 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 9:59:00 AM | 8.92 | 8.04 | 31.55 | 26.85 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR36 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 9:59:00 AM | 8.77 | 8.03 | 31.54 | 26.55 | 1.79 | 2.50 | <0.1 | <0.01 |
| WSR37 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:15:00 AM | 8.63 | 8.19 | 31.09 | 26.20 | 1.52 | 2.50 | <0.1 | <0.01 |
| WSR37 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:15:00 AM | 8.62 | 8.21 | 31.10 | 27.05 | 1.50 | 2.50 | <0.1 | <0.01 |
| WSR37 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 10:16:00 AM | 8.61 | 8.13 | 31.10 | 26.33 | 1.48 | 2.50 | <0.1 | <0.01 |
| WSR37 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4 | 10:16:00 AM | 8.78 | 8.16 | 31.13 | 26.48 | 1.54 | 2.50 | <0.1 | <0.01 |
| WSR37 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 10:17:00 AM | 8.60 | 8.19 | 31.04 | 26.63 | 1.54 | 2.50 | <0.1 | <0.01 |
| WSR37 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7 | 10:17:00 AM | 8.78 | 8.21 | 31.05 | 26.17 | 1.50 | 3.00 | <0.1 | <0.01 |
| NF1 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:48:00 AM | 9.01 | 8.18 | 31.71 | 27.25 | 1.87 | 2.50 | <0.1 | <0.01 |
| NF1 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:48:00 AM | 8.96 | 8.19 | 31.67 | 26.58 | 1.82 | 2.50 | <0.1 | <0.01 |
| NF1 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 7 | 10:49:00 AM | 8.93 | 8.20 | 31.59 | 26.38 | 1.85 | 2.50 | <0.1 | <0.01 |
| NF1 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 7 | 10:49:00 AM | 9.01 | 8.20 | 31.63 | 26.93 | 1.82 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| NF1 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 13 | 10:50:00 AM | 8.92 | 8.20 | 31.59 | 27.28 | 1.85 | 2.50 | <0.1 | <0.01 |
| NF1 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 13 | 10:50:00 AM | 9.03 | 8.15 | 31.69 | 27.15 | 1.83 | 3.00 | <0.1 | <0.01 |
| NF2 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:36:00 AM | 8.25 | 8.16 | 32.01 | 26.83 | 1.79 | 3.00 | <0.1 | <0.01 |
| NF2 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | s | 1 | 10:36:00 AM | 8.31 | 8.09 | 32.02 | 26.42 | 1.83 | 3.00 | <0.1 | <0.01 |
| NF2 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5 | 10:37:00 AM | 8.23 | 8.15 | 31.94 | 26.43 | 1.80 | 2.50 | <0.1 | <0.01 |
| NF2 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5 | 10:37:00 AM | 8.30 | 8.17 | 31.91 | 26.07 | 1.78 | 2.50 | <0.1 | <0.01 |
| NF2 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 10 | 10:38:00 AM | 8.22 | 8.15 | 31.90 | 26.24 | 1.84 | 4.00 | <0.1 | <0.01 |
| NF2 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 10 | 10:38:00 AM | 8.19 | 8.11 | 31.93 | 27.01 | 1.81 | 2.50 | <0.1 | <0.01 |
| NF3 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:26:00 AM | 8.98 | 8.06 | 31.64 | 26.11 | 1.48 | 3.00 | <0.1 | <0.01 |
| NF3 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:26:00 AM | 9.09 | 8.01 | 31.62 | 26.52 | 1.44 | 2.50 | <0.1 | <0.01 |
| NF3 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 6 | 10:27:00 AM | 9.00 | 7.98 | 31.65 | 26.72 | 1.52 | 3.00 | <0.1 | <0.01 |
| NF3 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | М | 6 | 10:27:00 AM | 9.01 | 8.06 | 31.63 | 25.93 | 1.49 | 2.50 | <0.1 | <0.01 |
| NF3 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 11 | 10:28:00 AM | 9.06 | 7.98 | 31.62 | 26.11 | 1.50 | 2.50 | <0.1 | <0.01 |
| NF3 | 19/11/2024 | Cloudy | Mid-Flood | Moderate | В | 11.1 | 10:28:00 AM | 9.01 | 8.02 | 31.55 | 26 | 1.45 | 3.00 | <0.1 | <0.01 |
| CE | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 1:03:00 PM | 8.17 | 8.25 | 31.58 | 26.45 | 2.27 | 2.50 | <0.1 | <0.01 |
| CE | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 1:03:00 PM | 8.24 | 8.21 | 31.62 | 26.45 | 2.33 | 2.50 | <0.1 | <0.01 |
| CE | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 10.65 | 1:04:00 PM | 8.22 | 8.25 | 31.7 | 26.45 | 2.37 | 2.50 | <0.1 | <0.01 |
| CE | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 10.65 | 1:04:00 PM | 8.32 | 8.26 | 31.63 | 26.45 | 2.38 | 2.50 | <0.1 | <0.01 |
| CE | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 20.3 | 1:05:00 PM | 8.31 | 8.21 | 31.58 | 26.42 | 2.21 | 2.50 | <0.1 | <0.01 |
| CE | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 20.3 | 1:05:00 PM | 8.18 | 8.21 | 31.66 | 26.43 | 2.19 | 2.50 | <0.1 | <0.01 |
| CF | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:44:00 AM | 8.71 | 8.15 | 32.23 | 26.11 | 2.49 | 4.00 | <0.1 | <0.01 |
| CF | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 9:44:00 AM | 8.68 | 8.13 | 32.18 | 26.14 | 2.5 | 2.50 | <0.1 | <0.01 |
| CF | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 10.65 | 9:45:00 AM | 8.65 | 8.14 | 32.16 | 26.14 | 2.51 | 2.50 | <0.1 | <0.01 |
| CF | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 10.65 | 9:45:00 AM | 8.57 | 8.13 | 32.24 | 26.14 | 2.53 | 5.00 | <0.1 | <0.01 |
| CF | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 20.3 | 9:46:00 AM | 8.6 | 8.17 | 32.14 | 26.13 | 2.45 | 4.00 | <0.1 | <0.01 |
| CF | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 20.3 | 9:46:00 AM | 8.63 | 8.13 | 32.11 | 26.14 | 2.48 | 2.50 | <0.1 | <0.01 |
| WSR01 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:10:00 AM | 8.43 | 8.22 | 31.82 | 26.3 | 1.83 | 2.50 | <0.1 | <0.01 |
| WSR01 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | s | 1 | 10:10:00 AM | 8.33 | 8.26 | 31.93 | 26.29 | 1.81 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR01 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4.45 | 10:11:00 AM | 8.46 | 8.25 | 31.84 | 26.31 | 1.88 | 2.50 | <0.1 | <0.01 |
| WSR01 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4.45 | 10:11:00 AM | 8.37 | 8.27 | 31.87 | 26.31 | 1.84 | 2.50 | <0.1 | <0.01 |
| WSR01 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7.9 | 10:12:00 AM | 8.46 | 8.23 | 31.83 | 26.3 | 1.82 | 3.00 | <0.1 | <0.01 |
| WSR01 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7.9 | 10:12:00 AM | 8.39 | 8.24 | 31.9 | 26.29 | 1.85 | 2.50 | <0.1 | <0.01 |
| WSR02 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:31:00 AM | 8.78 | 8.15 | 31.63 | 26.25 | 1.96 | 2.50 | <0.1 | <0.01 |
| WSR02 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:31:00 AM | 8.88 | 8.15 | 31.67 | 26.28 | 1.95 | 2.50 | <0.1 | <0.01 |
| WSR02 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4.9 | 10:32:00 AM | 8.81 | 8.18 | 31.65 | 26.25 | 1.93 | 2.50 | <0.1 | <0.01 |
| WSR02 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4.9 | 10:32:00 AM | 8.84 | 8.17 | 31.63 | 26.26 | 1.96 | 5.00 | <0.1 | <0.01 |
| WSR02 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 8.8 | 10:33:00 AM | 8.87 | 8.16 | 31.63 | 26.26 | 1.94 | 2.50 | <0.1 | <0.01 |
| WSR02 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 8.8 | 10:33:00 AM | 8.78 | 8.18 | 31.68 | 26.28 | 1.91 | 4.00 | <0.1 | <0.01 |
| WSR03 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:47:00 AM | 9.03 | 8.25 | 32.39 | 26.26 | 1.78 | 3.00 | <0.1 | <0.01 |
| WSR03 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 10:47:00 AM | 9.01 | 8.27 | 32.31 | 26.28 | 1.81 | 6.00 | <0.1 | <0.01 |
| WSR03 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4.25 | 10:48:00 AM | 9.16 | 8.25 | 32.29 | 26.27 | 1.78 | 2.50 | <0.1 | <0.01 |
| WSR03 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 4.25 | 10:48:00 AM | 9.03 | 8.25 | 32.39 | 26.27 | 1.81 | 2.50 | <0.1 | <0.01 |
| WSR03 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7.5 | 10:49:00 AM | 9.13 | 8.28 | 32.36 | 26.27 | 1.82 | 2.50 | <0.1 | <0.01 |
| WSR03 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 7.5 | 10:49:00 AM | 9.14 | 8.27 | 32.36 | 26.27 | 1.79 | 2.50 | <0.1 | <0.01 |
| WSR04 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:03:00 AM | 8.24 | 8.27 | 32.41 | 26.23 | 1.68 | 4.00 | <0.1 | <0.01 |
| WSR04 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:03:00 AM | 8.26 | 8.28 | 32.48 | 26.23 | 1.71 | 4.00 | <0.1 | <0.01 |
| WSR04 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 3.5 | 11:04:00 AM | 8.23 | 8.29 | 32.46 | 26.23 | 1.66 | 4.00 | <0.1 | <0.01 |
| WSR04 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 3.5 | 11:04:00 AM | 8.26 | 8.29 | 32.37 | 26.23 | 1.68 | 4.00 | <0.1 | <0.01 |
| WSR04 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 11:05:00 AM | 8.23 | 8.27 | 32.36 | 26.23 | 1.67 | 5.00 | <0.1 | <0.01 |
| WSR04 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 11:05:00 AM | 8.29 | 8.29 | 32.46 | 26.23 | 1.7 | 2.50 | <0.1 | <0.01 |
| WSR16 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 12:40:00 PM | 8.78 | 8.31 | 32.16 | 26.34 | 1.94 | 2.50 | <0.1 | <0.01 |
| WSR16 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | s | 1 | 12:40:00 PM | 8.8 | 8.27 | 32.19 | 26.33 | 1.93 | 3.00 | <0.1 | <0.01 |
| WSR16 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 7.7 | 12:41:00 PM | 8.81 | 8.32 | 32.16 | 26.31 | 1.95 | 3.00 | <0.1 | <0.01 |
| WSR16 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 7.7 | 12:41:00 PM | 8.74 | 8.29 | 32.26 | 26.33 | 1.96 | 6.00 | <0.1 | <0.01 |
| WSR16 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 14.4 | 12:42:00 PM | 8.77 | 8.29 | 32.25 | 26.33 | 1.95 | 2.50 | <0.1 | <0.01 |
| WSR16 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 14.4 | 12:42:00 PM | 8.81 | 8.30 | 32.23 | 26.31 | 1.94 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | рН | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR33 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:20:00 AM | 8.79 | 8.28 | 31.86 | 26.16 | 1.65 | 3.00 | <0.1 | <0.01 |
| WSR33 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:20:00 AM | 8.89 | 8.28 | 31.84 | 26.15 | 1.64 | 2.50 | <0.1 | <0.01 |
| WSR33 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 3.5 | 11:21:00 AM | 8.76 | 8.25 | 31.85 | 26.14 | 1.67 | 5.00 | <0.1 | <0.01 |
| WSR33 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 3.5 | 11:21:00 AM | 8.8 | 8.27 | 31.81 | 26.14 | 1.65 | 2.50 | <0.1 | <0.01 |
| WSR33 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 11:22:00 AM | 8.75 | 8.28 | 31.86 | 26.16 | 1.66 | 2.50 | <0.1 | <0.01 |
| WSR33 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6 | 11:22:00 AM | 8.84 | 8.24 | 31.91 | 26.13 | 1.67 | 2.50 | <0.1 | <0.01 |
| WSR36 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:37:00 AM | 8.92 | 8.14 | 31.6 | 26.12 | 1.68 | 4.00 | <0.1 | <0.01 |
| WSR36 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:37:00 AM | 8.89 | 8.12 | 31.53 | 26.12 | 1.67 | 3.00 | <0.1 | <0.01 |
| WSR36 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 3.25 | 11:38:00 AM | 8.85 | 8.12 | 31.6 | 26.14 | 1.69 | 2.50 | <0.1 | <0.01 |
| WSR36 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 3.25 | 11:38:00 AM | 8.98 | 8.12 | 31.6 | 26.11 | 1.68 | 5.00 | <0.1 | <0.01 |
| WSR36 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 5.5 | 11:38:00 AM | 8.89 | 8.14 | 31.58 | 26.12 | 1.71 | 3.00 | <0.1 | <0.01 |
| WSR36 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 5.5 | 11:38:00 AM | 8.85 | 8.15 | 31.59 | 26.14 | 1.69 | 2.50 | <0.1 | <0.01 |
| WSR37 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:54:00 AM | 8.13 | 8.29 | 32.09 | 26.44 | 1.53 | 2.50 | <0.1 | <0.01 |
| WSR37 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 11:54:00 AM | 8.13 | 8.27 | 32.02 | 26.42 | 1.51 | 2.50 | <0.1 | <0.01 |
| WSR37 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 3.95 | 11:55:00 AM | 8.03 | 8.26 | 32.07 | 26.41 | 1.5 | 4.00 | <0.1 | <0.01 |
| WSR37 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 3.95 | 11:55:00 AM | 8.03 | 8.30 | 32.04 | 26.44 | 1.51 | 2.50 | <0.1 | <0.01 |
| WSR37 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6.9 | 11:56:00 AM | 8.01 | 8.27 | 32.04 | 26.44 | 1.58 | 5.00 | <0.1 | <0.01 |
| WSR37 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 6.9 | 11:56:00 AM | 8.08 | 8.28 | 32.01 | 26.43 | 1.55 | 2.50 | <0.1 | <0.01 |
| NF1 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 12:25:00 PM | 8.74 | 8.14 | 32.71 | 26.32 | 1.82 | 4.00 | <0.1 | <0.01 |
| NF1 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | s | 1 | 12:25:00 PM | 8.72 | 8.10 | 32.71 | 26.29 | 1.78 | 2.50 | <0.1 | <0.01 |
| NF1 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 6.75 | 12:26:00 PM | 8.76 | 8.09 | 32.67 | 26.29 | 1.77 | 2.50 | <0.1 | <0.01 |
| NF1 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 6.75 | 12:26:00 PM | 8.75 | 8.10 | 32.69 | 26.3 | 1.8 | 3.00 | <0.1 | <0.01 |
| NF1 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 12.5 | 12:27:00 PM | 8.84 | 8.11 | 32.64 | 26.29 | 1.81 | 6.00 | <0.1 | <0.01 |
| NF1 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 12.5 | 12:27:00 PM | 8.82 | 8.14 | 32.77 | 26.3 | 1.82 | 6.00 | <0.1 | <0.01 |
| NF2 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 12:17:00 PM | 8.57 | 8.28 | 32.51 | 26.41 | 1.65 | 5.00 | <0.1 | <0.01 |
| NF2 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 12:17:00 PM | 8.52 | 8.26 | 32.5 | 26.4 | 1.64 | 3.00 | <0.1 | <0.01 |
| NF2 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5.2 | 12:18:00 PM | 8.49 | 8.23 | 32.53 | 26.4 | 1.63 | 3.00 | <0.1 | <0.01 |
| NF2 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 5.2 | 12:18:00 PM | 8.59 | 8.27 | 32.53 | 26.39 | 1.46 | 5.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|-----------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| NF2 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 9.4 | 12:19:00 PM | 8.52 | 8.28 | 32.51 | 26.41 | 1.48 | 3.00 | <0.1 | <0.01 |
| NF2 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 9.4 | 12:19:00 PM | 8.48 | 8.27 | 32.49 | 26.39 | 1.47 | 5.00 | <0.1 | <0.01 |
| NF3 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 12:06:00 PM | 8.05 | 8.20 | 32.18 | 26.29 | 1.62 | 2.50 | <0.1 | <0.01 |
| NF3 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | S | 1 | 12:06:00 PM | 8.1 | 8.21 | 32.2 | 26.31 | 1.63 | 2.50 | <0.1 | <0.01 |
| NF3 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 6.25 | 12:07:00 PM | 8.06 | 8.24 | 32.15 | 26.32 | 1.51 | 2.50 | <0.1 | <0.01 |
| NF3 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | М | 6.25 | 12:07:00 PM | 8.11 | 8.24 | 32.21 | 26.3 | 1.59 | 2.50 | <0.1 | <0.01 |
| NF3 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 11.5 | 12:08:00 PM | 8.12 | 8.22 | 32.13 | 26.32 | 1.52 | 4.00 | <0.1 | <0.01 |
| NF3 | 21/11/2024 | Cloudy | Mid-Flood | Moderate | В | 11.5 | 12:08:00 PM | 8.08 | 8.21 | 32.11 | 26.29 | 1.54 | 3.00 | <0.1 | <0.01 |
| CE | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:00:00 AM | 8.83 | 8.20 | 31.95 | 26.3 | 2.65 | 4.00 | <0.1 | <0.01 |
| CE | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:00:00 AM | 8.85 | 8.18 | 31.92 | 26.33 | 2.66 | 4.00 | <0.1 | <0.01 |
| CE | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10.25 | 8:01:00 AM | 8.9 | 8.19 | 31.93 | 26.33 | 2.53 | 3.00 | <0.1 | <0.01 |
| CE | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 10.25 | 8:01:00 AM | 8.87 | 8.20 | 31.86 | 26.32 | 2.46 | 3.00 | <0.1 | <0.01 |
| CE | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 19.5 | 8:02:00 AM | 8.94 | 8.15 | 31.9 | 26.31 | 2.34 | 3.00 | <0.1 | <0.01 |
| CE | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 19.5 | 8:02:00 AM | 8.95 | 8.19 | 31.87 | 26.32 | 2.38 | 4.00 | <0.1 | <0.01 |
| CF | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 11:20:00 AM | 8.55 | 7.94 | 32.01 | 26.13 | 2.24 | 2.50 | <0.1 | <0.01 |
| CF | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 11:20:00 AM | 8.57 | 7.94 | 32.02 | 26.1 | 2.25 | 3.00 | <0.1 | <0.01 |
| CF | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 9.9 | 11:21:00 AM | 8.47 | 8.01 | 31.91 | 26.1 | 2.19 | 5.00 | <0.1 | <0.01 |
| CF | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 9.9 | 11:21:00 AM | 8.46 | 7.94 | 31.96 | 26.12 | 2.12 | 4.00 | <0.1 | <0.01 |
| CF | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 18.8 | 11:22:00 AM | 8.63 | 7.96 | 31.95 | 26.11 | 2.22 | 4.00 | <0.1 | <0.01 |
| CF | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 18.8 | 11:22:00 AM | 8.47 | 7.95 | 31.93 | 26.11 | 2.25 | 6.00 | <0.1 | <0.01 |
| WSR01 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:54:00 AM | 8.91 | 8.21 | 31.83 | 26.1 | 2.16 | 3.00 | <0.1 | <0.01 |
| WSR01 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:54:00 AM | 8.93 | 8.13 | 31.81 | 26.09 | 2.15 | 2.50 | <0.1 | <0.01 |
| WSR01 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4.4 | 10:55:00 AM | 8.88 | 8.17 | 31.76 | 26.07 | 2.15 | 4.00 | <0.1 | <0.01 |
| WSR01 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4.4 | 10:55:00 AM | 9.01 | 8.13 | 31.77 | 26.09 | 2.13 | 2.50 | <0.1 | <0.01 |
| WSR01 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7.8 | 10:56:00 AM | 8.94 | 8.17 | 31.77 | 26.08 | 2.18 | 2.50 | <0.1 | <0.01 |
| WSR01 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7.8 | 10:56:00 AM | 8.95 | 8.19 | 31.77 | 26.08 | 2.13 | 4.00 | <0.1 | <0.01 |
| WSR02 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:33:00 AM | 8.54 | 8.04 | 31.41 | 26.29 | 1.81 | 5.00 | <0.1 | <0.01 |
| WSR02 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:33:00 AM | 8.55 | 8.00 | 31.53 | 26.29 | 1.83 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | рН | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR02 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4.6 | 10:34:00 AM | 8.66 | 8.01 | 31.49 | 26.28 | 1.81 | 2.50 | <0.1 | <0.01 |
| WSR02 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4.6 | 10:34:00 AM | 8.67 | 8.03 | 31.44 | 26.3 | 1.82 | 2.50 | <0.1 | <0.01 |
| WSR02 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8.2 | 10:35:00 AM | 8.57 | 8.04 | 31.42 | 26.29 | 1.83 | 2.50 | <0.1 | <0.01 |
| WSR02 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 8.2 | 10:35:00 AM | 8.51 | 8.02 | 31.54 | 26.29 | 1.79 | 2.50 | <0.1 | <0.01 |
| WSR03 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:15:00 AM | 8.51 | 8.11 | 31.32 | 26.13 | 1.56 | 4.00 | <0.1 | <0.01 |
| WSR03 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:15:00 AM | 8.41 | 8.14 | 31.29 | 26.12 | 1.57 | 2.50 | <0.1 | <0.01 |
| WSR03 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:16:00 AM | 8.49 | 8.18 | 31.38 | 26.11 | 1.55 | 4.00 | <0.1 | <0.01 |
| WSR03 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4 | 10:16:00 AM | 8.47 | 8.18 | 31.32 | 26.13 | 1.56 | 2.50 | <0.1 | <0.01 |
| WSR03 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 10:17:00 AM | 8.47 | 8.18 | 31.41 | 26.11 | 1.58 | 5.00 | <0.1 | <0.01 |
| WSR03 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7 | 10:17:00 AM | 8.43 | 8.12 | 31.34 | 26.12 | 1.53 | 3.00 | <0.1 | <0.01 |
| WSR04 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:00:00 AM | 8.08 | 8.12 | 32.33 | 26.14 | 1.86 | 2.50 | <0.1 | <0.01 |
| WSR04 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 10:00:00 AM | 8.02 | 8.15 | 32.46 | 26.14 | 1.9 | 2.50 | <0.1 | <0.01 |
| WSR04 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3.7 | 10:01:00 AM | 8.02 | 8.15 | 32.46 | 26.15 | 1.86 | 5.00 | <0.1 | <0.01 |
| WSR04 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3.7 | 10:01:00 AM | 7.98 | 8.15 | 32.36 | 26.12 | 1.91 | 2.50 | <0.1 | <0.01 |
| WSR04 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6.4 | 10:02:00 AM | 8.15 | 8.10 | 32.38 | 26.14 | 1.87 | 5.00 | <0.1 | <0.01 |
| WSR04 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6.4 | 10:02:00 AM | 8 | 8.14 | 32.36 | 26.14 | 1.91 | 2.50 | <0.1 | <0.01 |
| WSR16 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:25:00 AM | 8.43 | 8.21 | 32.15 | 26.09 | 1.62 | 2.50 | <0.1 | <0.01 |
| WSR16 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:25:00 AM | 8.48 | 8.24 | 32.15 | 26.09 | 1.61 | 2.50 | <0.1 | <0.01 |
| WSR16 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7.55 | 8:26:00 AM | 8.45 | 8.20 | 32.26 | 26.12 | 1.6 | 3.00 | <0.1 | <0.01 |
| WSR16 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 7.55 | 8:26:00 AM | 8.43 | 8.18 | 32.23 | 26.1 | 1.61 | 2.50 | <0.1 | <0.01 |
| WSR16 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 14.1 | 8:27:00 AM | 8.56 | 8.17 | 32.2 | 26.1 | 1.61 | 2.50 | <0.1 | <0.01 |
| WSR16 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 14.1 | 8:27:00 AM | 8.44 | 8.21 | 32.13 | 26.1 | 1.63 | 2.50 | <0.1 | <0.01 |
| WSR33 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:43:00 AM | 8.6 | 8.19 | 32.17 | 26.37 | 1.87 | 2.50 | <0.1 | <0.01 |
| WSR33 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:43:00 AM | 8.63 | 8.24 | 32.12 | 26.37 | 1.87 | 2.50 | <0.1 | <0.01 |
| WSR33 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3.6 | 9:44:00 AM | 8.6 | 8.16 | 32.15 | 26.39 | 1.84 | 3.00 | <0.1 | <0.01 |
| WSR33 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3.6 | 9:44:00 AM | 8.66 | 8.18 | 32.14 | 26.36 | 1.82 | 4.00 | <0.1 | <0.01 |
| WSR33 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6.2 | 9:45:00 AM | 8.74 | 8.23 | 32.17 | 26.37 | 1.84 | 3.00 | <0.1 | <0.01 |
| WSR33 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6.2 | 9:45:00 AM | 8.59 | 8.21 | 32.13 | 26.38 | 1.82 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR36 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:27:00 AM | 8.33 | 8.26 | 32.48 | 26.27 | 1.6 | 2.50 | <0.1 | <0.01 |
| WSR36 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:27:00 AM | 8.31 | 8.26 | 32.52 | 26.28 | 1.56 | 2.50 | <0.1 | <0.01 |
| WSR36 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3.5 | 9:28:00 AM | 8.25 | 8.21 | 32.41 | 26.29 | 1.58 | 2.50 | <0.1 | <0.01 |
| WSR36 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 3.5 | 9:28:00 AM | 8.33 | 8.23 | 32.54 | 26.26 | 1.57 | 2.50 | <0.1 | <0.01 |
| WSR36 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:28:00 AM | 8.38 | 8.28 | 32.48 | 26.29 | 1.57 | 2.50 | <0.1 | <0.01 |
| WSR36 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 6 | 9:28:00 AM | 8.4 | 8.22 | 32.42 | 26.29 | 1.55 | 2.50 | <0.1 | <0.01 |
| WSR37 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:21:00 AM | 8.51 | 8.27 | 31.52 | 26.3 | 1.87 | 4.00 | <0.1 | <0.01 |
| WSR37 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:21:00 AM | 8.55 | 8.21 | 31.54 | 26.28 | 1.85 | 2.50 | <0.1 | <0.01 |
| WSR37 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4.4 | 9:22:00 AM | 8.51 | 8.22 | 31.54 | 26.31 | 1.85 | 3.00 | <0.1 | <0.01 |
| WSR37 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 4.4 | 9:22:00 AM | 8.47 | 8.23 | 31.55 | 26.31 | 1.87 | 2.50 | <0.1 | <0.01 |
| WSR37 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7.8 | 9:23:00 AM | 8.48 | 8.28 | 31.53 | 26.28 | 1.89 | 2.50 | <0.1 | <0.01 |
| WSR37 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 7.8 | 9:23:00 AM | 8.41 | 8.26 | 31.45 | 26.31 | 1.84 | 2.50 | <0.1 | <0.01 |
| NF1 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:49:00 AM | 8.7 | 8.22 | 32.44 | 26.1 | 1.48 | 2.50 | <0.1 | <0.01 |
| NF1 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 8:49:00 AM | 8.72 | 8.24 | 32.46 | 26.1 | 1.48 | 2.50 | <0.1 | <0.01 |
| NF1 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6.55 | 8:50:00 AM | 8.77 | 8.18 | 32.51 | 26.11 | 1.49 | 2.50 | <0.1 | <0.01 |
| NF1 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6.55 | 8:50:00 AM | 8.71 | 8.25 | 32.48 | 26.11 | 1.5 | 4.00 | <0.1 | <0.01 |
| NF1 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 12.1 | 8:51:00 AM | 8.68 | 8.21 | 32.4 | 26.09 | 1.47 | 2.50 | <0.1 | <0.01 |
| NF1 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 12.1 | 8:51:00 AM | 8.71 | 8.17 | 32.49 | 26.12 | 1.49 | 2.50 | <0.1 | <0.01 |
| NF2 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | s | 1 | 9:06:00 AM | 8.77 | 8.00 | 31.54 | 26.13 | 1.56 | 5.00 | <0.1 | <0.01 |
| NF2 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:06:00 AM | 8.85 | 8.03 | 31.42 | 26.15 | 1.57 | 8.00 | <0.1 | <0.01 |
| NF2 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5.35 | 9:07:00 AM | 8.7 | 8.00 | 31.53 | 26.14 | 1.52 | 2.50 | <0.1 | <0.01 |
| NF2 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 5.35 | 9:07:00 AM | 8.79 | 7.99 | 31.43 | 26.13 | 1.56 | 2.50 | <0.1 | <0.01 |
| NF2 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9.7 | 9:08:00 AM | 8.76 | 8.03 | 31.49 | 26.15 | 1.53 | 3.00 | <0.1 | <0.01 |
| NF2 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 9.7 | 9:08:00 AM | 8.86 | 7.99 | 31.46 | 26.15 | 1.56 | 2.50 | <0.1 | <0.01 |
| NF3 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:14:00 AM | 9.25 | 8.01 | 32.32 | 26.26 | 2.08 | 5.00 | <0.1 | <0.01 |
| NF3 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | S | 1 | 9:14:00 AM | 9.33 | 8.00 | 32.33 | 26.23 | 2.09 | 2.50 | <0.1 | <0.01 |
| NF3 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6 | 9:15:00 AM | 9.31 | 8.00 | 32.32 | 26.26 | 2.07 | 3.00 | <0.1 | <0.01 |
| NF3 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | М | 6 | 9:15:00 AM | 9.31 | 8.06 | 32.36 | 26.24 | 2.1 | 5.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| NF3 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 11 | 9:16:00 AM | 9.23 | 8.06 | 32.35 | 26.24 | 2.09 | 7.00 | <0.1 | <0.01 |
| NF3 | 23/11/2024 | Cloudy | Mid-Ebb | Moderate | В | 11 | 9:16:00 AM | 9.33 | 8.05 | 32.25 | 26.26 | 2.05 | 10.00 | <0.1 | <0.01 |
| CE | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 8:11:00 AM | 8.65 | 8.18 | 32.74 | 25.14 | 2.32 | 2.50 | <0.1 | <0.01 |
| CE | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 8:11:00 AM | 8.63 | 8.17 | 32.7 | 25.16 | 2.38 | 2.50 | <0.1 | <0.01 |
| CE | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 10.8 | 8:12:00 AM | 8.74 | 8.17 | 32.69 | 25.18 | 2.49 | 2.50 | <0.1 | <0.01 |
| CE | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 10.8 | 8:12:00 AM | 8.74 | 8.17 | 32.7 | 25.15 | 2.43 | 3.00 | <0.1 | <0.01 |
| CE | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 20.6 | 8:13:00 AM | 8.77 | 8.20 | 32.7 | 25.18 | 2.42 | 4.00 | <0.1 | <0.01 |
| CE | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 20.6 | 8:13:00 AM | 8.65 | 8.19 | 32.65 | 25.16 | 2.39 | 4.00 | <0.1 | <0.01 |
| CF | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:31:00 AM | 8.89 | 8.34 | 33.19 | 25.11 | 2.1 | 5.00 | <0.1 | <0.01 |
| CF | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:31:00 AM | 8.96 | 8.34 | 33.16 | 25.07 | 2.11 | 2.50 | <0.1 | <0.01 |
| CF | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 10.5 | 11:32:00 AM | 8.97 | 8.34 | 33.23 | 25.1 | 2.1 | 3.00 | <0.1 | <0.01 |
| CF | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 10.5 | 11:32:00 AM | 8.93 | 8.31 | 33.16 | 25.1 | 2.11 | 5.00 | <0.1 | <0.01 |
| CF | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 20 | 11:33:00 AM | 9.01 | 8.32 | 33.16 | 25.09 | 2.1 | 2.50 | <0.1 | <0.01 |
| CF | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 20 | 11:33:00 AM | 8.89 | 8.31 | 33.14 | 25.06 | 2.13 | 2.50 | <0.1 | <0.01 |
| WSR01 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:05:00 AM | 8.96 | 8.16 | 32.17 | 25.33 | 1.93 | 3.00 | <0.1 | <0.01 |
| WSR01 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:05:00 AM | 8.94 | 8.17 | 32.11 | 25.32 | 1.92 | 6.00 | <0.1 | <0.01 |
| WSR01 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.5 | 11:06:00 AM | 9.03 | 8.15 | 32.16 | 25.35 | 1.92 | 3.00 | <0.1 | <0.01 |
| WSR01 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.5 | 11:06:00 AM | 8.98 | 8.15 | 32.19 | 25.32 | 1.91 | 2.50 | <0.1 | <0.01 |
| WSR01 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8 | 11:07:00 AM | 8.93 | 8.17 | 32.18 | 25.31 | 1.91 | 3.00 | <0.1 | <0.01 |
| WSR01 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8 | 11:07:00 AM | 9.05 | 8.17 | 32.12 | 25.33 | 1.92 | 2.50 | <0.1 | <0.01 |
| WSR02 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:44:00 AM | 8.82 | 8.06 | 32.76 | 25.26 | 1.65 | 3.00 | <0.1 | <0.01 |
| WSR02 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:44:00 AM | 8.93 | 8.09 | 32.77 | 25.24 | 1.63 | 2.50 | <0.1 | <0.01 |
| WSR02 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.95 | 10:45:00 AM | 8.88 | 8.08 | 32.76 | 25.24 | 1.66 | 3.00 | <0.1 | <0.01 |
| WSR02 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.95 | 10:45:00 AM | 8.88 | 8.08 | 32.78 | 25.25 | 1.65 | 2.50 | <0.1 | <0.01 |
| WSR02 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8.9 | 10:46:00 AM | 8.8 | 8.06 | 32.73 | 25.24 | 1.55 | 2.50 | <0.1 | <0.01 |
| WSR02 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8.9 | 10:46:00 AM | 8.93 | 8.08 | 32.74 | 25.25 | 1.63 | 3.00 | <0.1 | <0.01 |
| WSR03 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:26:00 AM | 8.63 | 8.22 | 32.09 | 24.94 | 2.06 | 4.00 | <0.1 | <0.01 |
| WSR03 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:26:00 AM | 8.77 | 8.21 | 32.07 | 24.95 | 2.05 | 3.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR03 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.7 | 10:27:00 AM | 8.66 | 8.21 | 32.07 | 24.97 | 2.09 | 2.50 | <0.1 | <0.01 |
| WSR03 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.7 | 10:27:00 AM | 8.71 | 8.22 | 32.13 | 24.97 | 2.08 | 2.50 | <0.1 | <0.01 |
| WSR03 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.4 | 10:28:00 AM | 8.65 | 8.23 | 32.1 | 24.98 | 2.05 | 3.00 | <0.1 | <0.01 |
| WSR03 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.4 | 10:28:00 AM | 8.67 | 8.24 | 32.13 | 24.98 | 2.08 | 2.50 | <0.1 | <0.01 |
| WSR04 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:11:00 AM | 9.05 | 8.12 | 31.79 | 25.25 | 1.61 | 2.50 | <0.1 | <0.01 |
| WSR04 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | s | 1 | 10:11:00 AM | 9 | 8.10 | 31.71 | 25.27 | 1.6 | 3.00 | <0.1 | <0.01 |
| WSR04 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.35 | 10:12:00 AM | 8.97 | 8.11 | 31.73 | 25.26 | 1.6 | 2.50 | <0.1 | <0.01 |
| WSR04 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.35 | 10:12:00 AM | 9.03 | 8.11 | 31.79 | 25.27 | 1.61 | 2.50 | <0.1 | <0.01 |
| WSR04 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 5.7 | 10:13:00 AM | 9.02 | 8.11 | 31.72 | 25.27 | 1.64 | 5.00 | <0.1 | <0.01 |
| WSR04 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 5.7 | 10:13:00 AM | 9.01 | 8.12 | 31.7 | 25.28 | 1.63 | 3.00 | <0.1 | <0.01 |
| WSR16 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 8:36:00 AM | 8.78 | 8.32 | 31.92 | 25.21 | 1.62 | 4.00 | <0.1 | <0.01 |
| WSR16 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 8:36:00 AM | 8.75 | 8.32 | 31.88 | 25.2 | 1.58 | 4.00 | <0.1 | <0.01 |
| WSR16 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 8 | 8:37:00 AM | 8.78 | 8.33 | 31.89 | 25.19 | 1.65 | 5.00 | <0.1 | <0.01 |
| WSR16 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 8 | 8:37:00 AM | 8.72 | 8.31 | 31.94 | 25.2 | 1.61 | 3.00 | <0.1 | <0.01 |
| WSR16 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 15 | 8:38:00 AM | 8.8 | 8.33 | 31.91 | 25.19 | 1.59 | 2.50 | <0.1 | <0.01 |
| WSR16 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 15 | 8:38:00 AM | 8.85 | 8.33 | 31.93 | 25.2 | 1.62 | 5.00 | <0.1 | <0.01 |
| WSR33 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:54:00 AM | 8.11 | 8.14 | 31.89 | 25.18 | 1.86 | 2.50 | <0.1 | <0.01 |
| WSR33 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:54:00 AM | 7.98 | 8.15 | 31.93 | 25.2 | 1.77 | 4.00 | <0.1 | <0.01 |
| WSR33 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.6 | 9:55:00 AM | 8.12 | 8.14 | 31.92 | 25.22 | 1.88 | 2.50 | <0.1 | <0.01 |
| WSR33 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.6 | 9:55:00 AM | 7.98 | 8.12 | 31.99 | 25.18 | 1.84 | 3.00 | <0.1 | <0.01 |
| WSR33 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.2 | 9:56:00 AM | 7.98 | 8.15 | 31.89 | 25.21 | 1.86 | 2.50 | <0.1 | <0.01 |
| WSR33 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.2 | 9:56:00 AM | 7.98 | 8.15 | 31.95 | 25.17 | 1.87 | 2.50 | <0.1 | <0.01 |
| WSR36 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:38:00 AM | 8.58 | 8.14 | 32.38 | 24.87 | 1.95 | 4.00 | <0.1 | <0.01 |
| WSR36 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:38:00 AM | 8.52 | 8.13 | 32.32 | 24.88 | 1.93 | 3.00 | <0.1 | <0.01 |
| WSR36 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.45 | 9:39:00 AM | 8.53 | 8.13 | 32.41 | 24.84 | 1.88 | 3.00 | <0.1 | <0.01 |
| WSR36 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.45 | 9:39:00 AM | 8.54 | 8.12 | 32.42 | 24.86 | 1.95 | 4.00 | <0.1 | <0.01 |
| WSR36 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 5.9 | 9:39:00 AM | 8.51 | 8.11 | 32.33 | 24.87 | 1.91 | 4.00 | <0.1 | <0.01 |
| WSR36 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 5.9 | 9:39:00 AM | 8.52 | 8.11 | 32.34 | 24.89 | 1.95 | 5.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR37 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:31:00 AM | 8.07 | 8.17 | 32.79 | 25.17 | 2.17 | 2.50 | <0.1 | <0.01 |
| WSR37 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:31:00 AM | 7.98 | 8.15 | 32.79 | 25.19 | 2.16 | 5.00 | <0.1 | <0.01 |
| WSR37 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.05 | 9:32:00 AM | 7.97 | 8.15 | 32.75 | 25.22 | 2.16 | 5.00 | <0.1 | <0.01 |
| WSR37 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.05 | 9:32:00 AM | 8.02 | 8.16 | 32.79 | 25.21 | 2.19 | 5.00 | <0.1 | <0.01 |
| WSR37 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 7.1 | 9:33:00 AM | 8.04 | 8.15 | 32.74 | 25.19 | 2.19 | 5.00 | <0.1 | <0.01 |
| WSR37 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 7.1 | 9:33:00 AM | 8.04 | 8.16 | 32.69 | 25.19 | 2.17 | 5.00 | <0.1 | <0.01 |
| NF1 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:00:00 AM | 8.12 | 8.15 | 32.43 | 25.08 | 1.79 | 3.00 | <0.1 | <0.01 |
| NF1 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:00:00 AM | 8.11 | 8.16 | 32.49 | 25.05 | 1.88 | 2.50 | <0.1 | <0.01 |
| NF1 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 6.9 | 9:01:00 AM | 8.17 | 8.16 | 32.5 | 25.04 | 1.81 | 3.00 | <0.1 | <0.01 |
| NF1 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 6.9 | 9:01:00 AM | 8.1 | 8.14 | 32.44 | 25.04 | 1.78 | 3.00 | <0.1 | <0.01 |
| NF1 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 12.8 | 9:02:00 AM | 8.11 | 8.16 | 32.45 | 25.07 | 1.72 | 4.00 | <0.1 | <0.01 |
| NF1 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 12.8 | 9:02:00 AM | 8.18 | 8.16 | 32.45 | 25.09 | 1.69 | 3.00 | <0.1 | <0.01 |
| NF2 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:17:00 AM | 8.8 | 8.11 | 32.84 | 25.2 | 2.09 | 4.00 | <0.1 | <0.01 |
| NF2 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:17:00 AM | 8.79 | 8.10 | 32.75 | 25.24 | 2.06 | 2.50 | <0.1 | <0.01 |
| NF2 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 5.25 | 9:18:00 AM | 8.8 | 8.10 | 32.76 | 25.24 | 2.03 | 6.00 | <0.1 | <0.01 |
| NF2 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 5.25 | 9:18:00 AM | 8.7 | 8.13 | 32.78 | 25.22 | 2.07 | 4.00 | <0.1 | <0.01 |
| NF2 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 9.5 | 9:19:00 AM | 8.76 | 8.13 | 32.83 | 25.24 | 2.07 | 3.00 | <0.1 | <0.01 |
| NF2 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 9.5 | 9:19:00 AM | 8.72 | 8.10 | 32.81 | 25.23 | 2.04 | 3.00 | <0.1 | <0.01 |
| NF3 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:25:00 AM | 8.14 | 8.10 | 31.68 | 24.99 | 1.56 | 2.50 | <0.1 | <0.01 |
| NF3 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:25:00 AM | 8.2 | 8.12 | 31.69 | 24.99 | 1.53 | 2.50 | <0.1 | <0.01 |
| NF3 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 6.1 | 9:26:00 AM | 8.07 | 8.10 | 31.64 | 25.02 | 1.58 | 2.50 | <0.1 | <0.01 |
| NF3 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | М | 6.1 | 9:26:00 AM | 8.1 | 8.11 | 31.66 | 25.02 | 1.56 | 2.50 | <0.1 | <0.01 |
| NF3 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 11.2 | 9:27:00 AM | 8.2 | 8.09 | 31.69 | 24.99 | 1.51 | 5.00 | <0.1 | <0.01 |
| NF3 | 26/11/2024 | Sunny | Mid-Ebb | Moderate | В | 11.2 | 9:27:00 AM | 8.12 | 8.10 | 31.66 | 25.02 | 1.54 | 8.00 | <0.1 | <0.01 |
| CE | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 8:39:00 AM | 8.39 | 8.17 | 31.89 | 26.23 | 2.3 | 4.00 | <0.1 | <0.01 |
| CE | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 8:39:00 AM | 8.37 | 8.17 | 31.92 | 26.23 | 2.28 | 2.50 | <0.1 | <0.01 |
| CE | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 12.2 | 8:40:00 AM | 8.34 | 8.20 | 31.93 | 26.2 | 2.3 | 3.00 | <0.1 | <0.01 |
| CE | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 12.2 | 8:40:00 AM | 8.39 | 8.20 | 31.93 | 26.2 | 2.33 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| CE | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 23.4 | 8:41:00 AM | 8.34 | 8.19 | 31.82 | 26.21 | 2.29 | 4.00 | <0.1 | <0.01 |
| CE | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 23.4 | 8:41:00 AM | 8.41 | 8.21 | 31.82 | 26.22 | 2.31 | 4.00 | <0.1 | <0.01 |
| CF | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 12:06:00 PM | 8.97 | 8.16 | 31.72 | 26.22 | 2.06 | 4.00 | <0.1 | <0.01 |
| CF | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 12:06:00 PM | 8.97 | 8.17 | 31.81 | 26.22 | 2.09 | 5.00 | <0.1 | <0.01 |
| CF | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 9.85 | 12:07:00 PM | 8.91 | 8.14 | 31.83 | 26.22 | 2.18 | 2.50 | <0.1 | <0.01 |
| CF | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 9.85 | 12:07:00 PM | 8.92 | 8.16 | 31.79 | 26.19 | 2.15 | 3.00 | <0.1 | <0.01 |
| CF | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 18.7 | 12:08:00 PM | 8.93 | 8.16 | 31.79 | 26.2 | 2.07 | 2.50 | <0.1 | <0.01 |
| CF | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 18.7 | 12:08:00 PM | 9.02 | 8.17 | 31.73 | 26.19 | 2.08 | 2.50 | <0.1 | <0.01 |
| WSR01 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:40:00 AM | 9.2 | 8.32 | 31.46 | 26.37 | 1.81 | 3.00 | <0.1 | <0.01 |
| WSR01 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:40:00 AM | 9.22 | 8.30 | 31.45 | 26.34 | 1.8 | 3.00 | <0.1 | <0.01 |
| WSR01 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.65 | 11:41:00 AM | 9.2 | 8.31 | 31.47 | 26.34 | 1.79 | 2.50 | <0.1 | <0.01 |
| WSR01 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.65 | 11:41:00 AM | 9.25 | 8.30 | 31.49 | 26.37 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR01 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8.3 | 11:42:00 AM | 9.33 | 8.27 | 31.4 | 26.34 | 1.68 | 2.50 | <0.1 | <0.01 |
| WSR01 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8.3 | 11:42:00 AM | 9.32 | 8.28 | 31.41 | 26.34 | 1.77 | 3.00 | <0.1 | <0.01 |
| WSR02 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:19:00 AM | 8.89 | 8.26 | 31.19 | 26.04 | 1.68 | 2.50 | <0.1 | <0.01 |
| WSR02 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:19:00 AM | 8.87 | 8.24 | 31.28 | 26.03 | 1.65 | 5.00 | <0.1 | <0.01 |
| WSR02 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.5 | 11:20:00 AM | 8.89 | 8.25 | 31.3 | 26.02 | 1.7 | 2.50 | <0.1 | <0.01 |
| WSR02 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.5 | 11:20:00 AM | 8.87 | 8.26 | 31.18 | 26.02 | 1.65 | 2.50 | <0.1 | <0.01 |
| WSR02 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8 | 11:21:00 AM | 8.8 | 8.23 | 31.23 | 26.03 | 1.73 | 2.50 | <0.1 | <0.01 |
| WSR02 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8 | 11:21:00 AM | 8.85 | 8.23 | 31.21 | 26.01 | 1.7 | 2.50 | <0.1 | <0.01 |
| WSR03 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:59:00 AM | 8.28 | 8.05 | 32.41 | 26.15 | 1.81 | 2.50 | <0.1 | <0.01 |
| WSR03 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:59:00 AM | 8.3 | 8.05 | 32.35 | 26.13 | 1.78 | 2.50 | <0.1 | <0.01 |
| WSR03 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.75 | 11:00:00 AM | 8.35 | 8.07 | 32.45 | 26.12 | 1.77 | 2.50 | <0.1 | <0.01 |
| WSR03 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.75 | 11:00:00 AM | 8.26 | 8.05 | 32.45 | 26.12 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR03 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.5 | 11:01:00 AM | 8.28 | 8.09 | 32.4 | 26.12 | 1.76 | 2.50 | <0.1 | <0.01 |
| WSR03 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.5 | 11:01:00 AM | 8.33 | 8.08 | 32.4 | 26.12 | 1.75 | 2.50 | <0.1 | <0.01 |
| WSR04 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:44:00 AM | 9.27 | 8.28 | 32.67 | 26.41 | 1.82 | 3.00 | <0.1 | <0.01 |
| WSR04 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:44:00 AM | 9.26 | 8.25 | 32.71 | 26.43 | 1.83 | 2.50 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR04 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.65 | 10:45:00 AM | 9.25 | 8.28 | 32.77 | 26.43 | 1.84 | 3.00 | <0.1 | <0.01 |
| WSR04 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.65 | 10:45:00 AM | 9.24 | 8.27 | 32.72 | 26.43 | 1.8 | 2.50 | <0.1 | <0.01 |
| WSR04 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.3 | 10:46:00 AM | 9.19 | 8.24 | 32.73 | 26.43 | 1.81 | 6.00 | <0.1 | <0.01 |
| WSR04 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.3 | 10:46:00 AM | 9.17 | 8.27 | 32.67 | 26.42 | 1.83 | 3.00 | <0.1 | <0.01 |
| WSR16 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:04:00 AM | 9.05 | 8.26 | 32.24 | 26.48 | 1.67 | 3.00 | <0.1 | <0.01 |
| WSR16 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:04:00 AM | 9.02 | 8.24 | 32.29 | 26.48 | 1.69 | 6.00 | <0.1 | <0.01 |
| WSR16 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 8 | 9:05:00 AM | 9.06 | 8.25 | 32.22 | 26.45 | 1.68 | 2.50 | <0.1 | <0.01 |
| WSR16 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 8 | 9:05:00 AM | 9.14 | 8.23 | 32.32 | 26.47 | 1.69 | 4.00 | <0.1 | <0.01 |
| WSR16 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 15 | 9:06:00 AM | 9.05 | 8.27 | 32.3 | 26.48 | 1.67 | 2.50 | <0.1 | <0.01 |
| WSR16 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 15 | 9:06:00 AM | 9.11 | 8.24 | 32.33 | 26.45 | 1.66 | 2.50 | <0.1 | <0.01 |
| WSR33 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:27:00 AM | 9.28 | 8.24 | 31.58 | 26.29 | 1.68 | 4.00 | <0.1 | <0.01 |
| WSR33 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:27:00 AM | 9.28 | 8.24 | 31.55 | 26.29 | 1.65 | 2.50 | <0.1 | <0.01 |
| WSR33 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.5 | 10:28:00 AM | 9.28 | 8.27 | 31.63 | 26.29 | 1.58 | 2.50 | <0.1 | <0.01 |
| WSR33 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.5 | 10:28:00 AM | 9.28 | 8.25 | 31.55 | 26.27 | 1.48 | 2.50 | <0.1 | <0.01 |
| WSR33 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6 | 10:29:00 AM | 9.38 | 8.24 | 31.64 | 26.3 | 1.6 | 2.50 | <0.1 | <0.01 |
| WSR33 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6 | 10:29:00 AM | 9.37 | 8.25 | 31.66 | 26.29 | 1.59 | 2.50 | <0.1 | <0.01 |
| WSR36 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:11:00 AM | 8.63 | 8.21 | 32.07 | 26.24 | 2 | 2.50 | <0.1 | <0.01 |
| WSR36 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:11:00 AM | 8.63 | 8.24 | 32.2 | 26.24 | 1.96 | 3.00 | <0.1 | <0.01 |
| WSR36 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.4 | 10:12:00 AM | 8.6 | 8.25 | 32.09 | 26.25 | 2.05 | 3.00 | <0.1 | <0.01 |
| WSR36 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.4 | 10:12:00 AM | 8.63 | 8.26 | 32.13 | 26.23 | 2.01 | 2.50 | <0.1 | <0.01 |
| WSR36 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 5.8 | 10:12:00 AM | 8.72 | 8.22 | 32.08 | 26.22 | 2 | 2.50 | <0.1 | <0.01 |
| WSR36 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 5.8 | 10:12:00 AM | 8.75 | 8.21 | 32.11 | 26.24 | 1.98 | 2.50 | <0.1 | <0.01 |
| WSR37 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:02:00 AM | 9.1 | 8.24 | 31.75 | 26.16 | 1.65 | 5.00 | <0.1 | <0.01 |
| WSR37 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:02:00 AM | 9.09 | 8.25 | 31.7 | 26.15 | 1.67 | 2.50 | <0.1 | <0.01 |
| WSR37 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.8 | 10:03:00 AM | 9.2 | 8.23 | 31.75 | 26.16 | 1.68 | 6.00 | <0.1 | <0.01 |
| WSR37 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.8 | 10:03:00 AM | 9.18 | 8.24 | 31.82 | 26.16 | 1.65 | 4.00 | <0.1 | <0.01 |
| WSR37 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.6 | 10:04:00 AM | 9.14 | 8.24 | 31.8 | 26.16 | 1.67 | 4.00 | <0.1 | <0.01 |
| WSR37 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.6 | 10:04:00 AM | 9.07 | 8.20 | 31.74 | 26.16 | 1.68 | 3.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | рН | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| NF1 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:28:00 AM | 8.48 | 8.21 | 32.01 | 26.2 | 1.72 | 3.00 | <0.1 | <0.01 |
| NF1 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:28:00 AM | 8.48 | 8.24 | 31.92 | 26.21 | 1.75 | 3.00 | <0.1 | <0.01 |
| NF1 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 7.05 | 9:29:00 AM | 8.55 | 8.19 | 31.96 | 26.21 | 1.71 | 2.50 | <0.1 | <0.01 |
| NF1 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 7.05 | 9:29:00 AM | 8.59 | 8.19 | 32.03 | 26.2 | 1.73 | 2.50 | <0.1 | <0.01 |
| NF1 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 13.1 | 9:30:00 AM | 8.47 | 8.24 | 31.92 | 26.23 | 1.76 | 2.50 | <0.1 | <0.01 |
| NF1 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 13.1 | 9:30:00 AM | 8.6 | 8.24 | 31.96 | 26.23 | 1.75 | 2.50 | <0.1 | <0.01 |
| NF2 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:45:00 AM | 8.18 | 8.21 | 31.49 | 26.28 | 1.54 | 2.50 | <0.1 | <0.01 |
| NF2 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:45:00 AM | 8.18 | 8.24 | 31.41 | 26.3 | 1.7 | 2.50 | <0.1 | <0.01 |
| NF2 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 5.05 | 9:46:00 AM | 8.18 | 8.24 | 31.41 | 26.28 | 1.86 | 3.00 | <0.1 | <0.01 |
| NF2 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 5.05 | 9:46:00 AM | 8.23 | 8.23 | 31.47 | 26.27 | 1.8 | 2.50 | <0.1 | <0.01 |
| NF2 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 9.1 | 9:47:00 AM | 8.23 | 8.25 | 31.43 | 26.27 | 1.72 | 2.50 | <0.1 | <0.01 |
| NF2 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 9.1 | 9:47:00 AM | 8.28 | 8.24 | 31.38 | 26.28 | 1.55 | 2.50 | <0.1 | <0.01 |
| NF3 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:55:00 AM | 9.13 | 8.19 | 32.75 | 26.24 | 1.63 | 2.50 | <0.1 | <0.01 |
| NF3 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:55:00 AM | 9.13 | 8.19 | 32.83 | 26.25 | 1.59 | 3.00 | <0.1 | <0.01 |
| NF3 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 5.9 | 9:56:00 AM | 9.17 | 8.16 | 32.82 | 26.22 | 1.6 | 2.50 | <0.1 | <0.01 |
| NF3 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | М | 5.9 | 9:56:00 AM | 9.17 | 8.16 | 32.71 | 26.23 | 1.61 | 4.00 | <0.1 | <0.01 |
| NF3 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 10.8 | 9:57:00 AM | 9.09 | 8.15 | 32.72 | 26.23 | 1.63 | 6.00 | <0.1 | <0.01 |
| NF3 | 28/11/2024 | Sunny | Mid-Ebb | Moderate | В | 10.8 | 9:57:00 AM | 9.17 | 8.15 | 32.79 | 26.24 | 1.62 | 3.00 | <0.1 | <0.01 |
| CE | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:51:00 AM | 8.8 | 8.34 | 31.66 | 25.1 | 2.63 | 2.50 | <0.1 | <0.01 |
| CE | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 9:51:00 AM | 8.76 | 8.31 | 31.68 | 25.13 | 2.68 | 2.50 | <0.1 | <0.01 |
| CE | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 12.1 | 9:52:00 AM | 8.76 | 8.31 | 31.69 | 25.13 | 2.61 | 2.50 | <0.1 | <0.01 |
| CE | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 12.1 | 9:52:00 AM | 8.78 | 8.34 | 31.77 | 25.13 | 2.6 | 2.50 | <0.1 | <0.01 |
| CE | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 23.2 | 9:53:00 AM | 8.77 | 8.31 | 31.76 | 25.13 | 2.55 | 2.50 | <0.1 | <0.01 |
| CE | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 23.2 | 9:53:00 AM | 8.85 | 8.34 | 31.69 | 25.14 | 2.59 | 2.50 | <0.1 | <0.01 |
| CF | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 1:11:00 PM | 9.01 | 8.14 | 31.89 | 25.17 | 2.38 | 4.00 | <0.1 | <0.01 |
| CF | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 1:11:00 PM | 8.91 | 8.17 | 31.92 | 25.2 | 2.41 | 2.50 | <0.1 | <0.01 |
| CF | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 10.3 | 1:12:00 PM | 9.04 | 8.14 | 31.9 | 25.19 | 2.42 | 6.00 | <0.1 | <0.01 |
| CF | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 10.3 | 1:12:00 PM | 8.99 | 8.17 | 31.89 | 25.17 | 2.31 | 8.00 | <0.1 | <0.01 |

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| CF | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 19.6 | 1:13:00 PM | 8.99 | 8.15 | 31.8 | 25.18 | 2.38 | 2.50 | <0.1 | <0.01 |
| CF | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 19.6 | 1:13:00 PM | 9.01 | 8.14 | 31.87 | 25.19 | 2.37 | 2.50 | <0.1 | <0.01 |
| WSR01 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 12:45:00 PM | 9.05 | 8.29 | 32.26 | 25.29 | 1.99 | 3.00 | <0.1 | <0.01 |
| WSR01 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 12:45:00 PM | 9.04 | 8.28 | 32.21 | 25.3 | 2 | 5.00 | <0.1 | <0.01 |
| WSR01 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.75 | 12:46:00 PM | 8.97 | 8.29 | 32.37 | 25.29 | 1.99 | 5.00 | <0.1 | <0.01 |
| WSR01 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.75 | 12:46:00 PM | 9.07 | 8.27 | 32.25 | 25.29 | 2.03 | 2.50 | <0.1 | <0.01 |
| WSR01 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8.5 | 12:47:00 PM | 9.02 | 8.27 | 32.39 | 25.25 | 2 | 2.50 | <0.1 | <0.01 |
| WSR01 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8.5 | 12:47:00 PM | 9.01 | 8.29 | 32.38 | 25.29 | 2.05 | 3.00 | <0.1 | <0.01 |
| WSR02 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 12:24:00 PM | 9.04 | 8.08 | 32.66 | 25.01 | 1.72 | 2.50 | <0.1 | <0.01 |
| WSR02 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 12:24:00 PM | 9.09 | 8.06 | 32.73 | 25.04 | 1.77 | 2.50 | <0.1 | <0.01 |
| WSR02 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.75 | 12:25:00 PM | 8.98 | 8.07 | 32.8 | 25.01 | 1.73 | 3.00 | <0.1 | <0.01 |
| WSR02 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.75 | 12:25:00 PM | 9.03 | 8.07 | 32.68 | 25 | 1.74 | 4.00 | <0.1 | <0.01 |
| WSR02 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8.5 | 12:26:00 PM | 9.09 | 8.05 | 32.74 | 25.02 | 1.73 | 3.00 | <0.1 | <0.01 |
| WSR02 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 8.5 | 12:26:00 PM | 9 | 8.06 | 32.64 | 25 | 1.72 | 3.00 | <0.1 | <0.01 |
| WSR03 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 12:06:00 PM | 8.66 | 8.18 | 32.65 | 25.13 | 1.68 | 3.00 | <0.1 | <0.01 |
| WSR03 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 12:06:00 PM | 8.78 | 8.17 | 32.59 | 25.08 | 1.7 | 4.00 | <0.1 | <0.01 |
| WSR03 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.95 | 12:07:00 PM | 8.68 | 8.20 | 32.7 | 25.11 | 1.68 | 3.00 | <0.1 | <0.01 |
| WSR03 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.95 | 12:07:00 PM | 8.68 | 8.20 | 32.61 | 25.11 | 1.67 | 3.00 | <0.1 | <0.01 |
| WSR03 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.9 | 12:08:00 PM | 8.81 | 8.17 | 32.59 | 25.1 | 1.71 | 2.50 | <0.1 | <0.01 |
| WSR03 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.9 | 12:08:00 PM | 8.75 | 8.20 | 32.7 | 25.13 | 1.68 | 5.00 | <0.1 | <0.01 |
| WSR04 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:51:00 AM | 8.35 | 8.07 | 31.43 | 25.18 | 2.05 | 3.00 | <0.1 | <0.01 |
| WSR04 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:51:00 AM | 8.46 | 8.05 | 31.41 | 25.17 | 2.04 | 2.50 | <0.1 | <0.01 |
| WSR04 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.55 | 11:52:00 AM | 8.45 | 8.08 | 31.47 | 25.15 | 2.04 | 2.50 | <0.1 | <0.01 |
| WSR04 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.55 | 11:52:00 AM | 8.44 | 8.08 | 31.44 | 25.19 | 2.01 | 2.50 | <0.1 | <0.01 |
| WSR04 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.1 | 11:53:00 AM | 8.35 | 8.06 | 31.31 | 25.15 | 2.02 | 5.00 | <0.1 | <0.01 |
| WSR04 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.1 | 11:53:00 AM | 8.38 | 8.05 | 31.38 | 25.16 | 2 | 2.50 | <0.1 | <0.01 |
| WSR16 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:16:00 AM | 8.12 | 8.30 | 32.96 | 25.25 | 1.54 | 4.00 | <0.1 | <0.01 |
| WSR16 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:16:00 AM | 8.11 | 8.30 | 33.06 | 25.26 | 1.52 | 5.00 | <0.1 | <0.01 |

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| WSR16 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 8.2 | 10:17:00 AM | 8.07 | 8.32 | 33.05 | 25.24 | 1.52 | 5.00 | <0.1 | <0.01 |
| WSR16 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 8.2 | 10:17:00 AM | 8.12 | 8.32 | 33.07 | 25.27 | 1.54 | 3.00 | <0.1 | <0.01 |
| WSR16 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 15.4 | 10:18:00 AM | 8.22 | 8.31 | 33.01 | 25.28 | 1.56 | 3.00 | <0.1 | <0.01 |
| WSR16 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 15.4 | 10:18:00 AM | 8.18 | 8.32 | 32.94 | 25.23 | 1.52 | 6.00 | <0.1 | <0.01 |
| WSR33 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:34:00 AM | 7.9 | 8.20 | 31.65 | 25.17 | 2.18 | 6.00 | <0.1 | <0.01 |
| WSR33 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:34:00 AM | 7.94 | 8.19 | 31.67 | 25.17 | 2.16 | 3.00 | <0.1 | <0.01 |
| WSR33 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.7 | 11:35:00 AM | 7.98 | 8.19 | 31.5 | 25.19 | 2.17 | 2.50 | <0.1 | <0.01 |
| WSR33 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.7 | 11:35:00 AM | 8.03 | 8.20 | 31.67 | 25.16 | 2.19 | 3.00 | <0.1 | <0.01 |
| WSR33 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.4 | 11:36:00 AM | 8.03 | 8.19 | 31.65 | 25.17 | 2.19 | 2.50 | <0.1 | <0.01 |
| WSR33 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.4 | 11:36:00 AM | 7.97 | 8.19 | 31.68 | 25.14 | 2.17 | 2.50 | <0.1 | <0.01 |
| WSR36 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:18:00 AM | 8.67 | 8.32 | 32.01 | 25.26 | 2.07 | 4.00 | <0.1 | <0.01 |
| WSR36 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:18:00 AM | 8.69 | 8.30 | 32.05 | 25.29 | 2.01 | 6.00 | <0.1 | <0.01 |
| WSR36 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.7 | 11:19:00 AM | 8.68 | 8.31 | 32.12 | 25.26 | 1.95 | 5.00 | <0.1 | <0.01 |
| WSR36 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 3.7 | 11:19:00 AM | 8.65 | 8.31 | 31.94 | 25.24 | 1.94 | 3.00 | <0.1 | <0.01 |
| WSR36 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.4 | 11:19:00 AM | 8.57 | 8.32 | 32 | 25.28 | 1.96 | 2.50 | <0.1 | <0.01 |
| WSR36 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 6.4 | 11:19:00 AM | 8.66 | 8.32 | 31.93 | 25.29 | 1.98 | 3.00 | <0.1 | <0.01 |
| WSR37 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:12:00 AM | 7.75 | 8.22 | 31.31 | 25.14 | 1.76 | 6.00 | <0.1 | <0.01 |
| WSR37 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:12:00 AM | 7.8 | 8.21 | 31.23 | 25.13 | 1.79 | 4.00 | <0.1 | <0.01 |
| WSR37 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.05 | 11:13:00 AM | 7.74 | 8.21 | 31.39 | 25.17 | 1.78 | 4.00 | <0.1 | <0.01 |
| WSR37 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 4.05 | 11:13:00 AM | 7.76 | 8.22 | 31.31 | 25.13 | 1.79 | 7.00 | <0.1 | <0.01 |
| WSR37 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 7.1 | 11:14:00 AM | 7.72 | 8.21 | 31.24 | 25.16 | 1.76 | 9.00 | <0.1 | <0.01 |
| WSR37 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 7.1 | 11:14:00 AM | 7.8 | 8.19 | 31.34 | 25.13 | 1.75 | 13.00 | <0.1 | <0.01 |
| NF1 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:40:00 AM | 8.86 | 8.25 | 32.43 | 25.25 | 2.03 | 3.00 | <0.1 | <0.01 |
| NF1 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:40:00 AM | 8.81 | 8.27 | 32.42 | 25.22 | 2.04 | 2.50 | <0.1 | <0.01 |
| NF1 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 6.6 | 10:41:00 AM | 8.87 | 8.27 | 32.31 | 25.21 | 2.02 | 3.00 | <0.1 | <0.01 |
| NF1 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 6.6 | 10:41:00 AM | 8.77 | 8.25 | 32.44 | 25.2 | 2.03 | 2.50 | <0.1 | <0.01 |
| NF1 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 12.2 | 10:42:00 AM | 8.88 | 8.27 | 32.33 | 25.23 | 2.02 | 7.00 | <0.1 | <0.01 |
| NF1 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 12.2 | 10:42:00 AM | 8.75 | 8.26 | 32.44 | 25.24 | 2.04 | 8.00 | <0.1 | <0.01 |

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

| Location | Date | Weather | Tide | Sea Condition | Water Level | Depth (m) | Time | DO (mg/L) | pH | Sal (ppt) | Temp ((°C) | Turbidty (NTU) | SS (mg/L) | Iron (mg/L) | Total Residual Chlorine (mg/L) |
|----------|------------|---------|---------|---------------|-------------|-----------|-------------|-----------|------|-----------|------------|----------------|-----------|-------------|--------------------------------|
| NF2 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 10:57:00 AM | 8.27 | 8.12 | 32.51 | 25.14 | 1.67 | 5.00 | <0.1 | <0.01 |
| NF2 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | s | 1 | 10:57:00 AM | 8.39 | 8.12 | 32.35 | 25.15 | 1.68 | 10.00 | <0.1 | <0.01 |
| NF2 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 5.05 | 10:58:00 AM | 8.26 | 8.11 | 32.53 | 25.19 | 1.67 | 15.00 | <0.1 | <0.01 |
| NF2 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 5.05 | 10:58:00 AM | 8.3 | 8.13 | 32.4 | 25.17 | 1.68 | 14.00 | <0.1 | <0.01 |
| NF2 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 9.1 | 10:59:00 AM | 8.4 | 8.12 | 32.39 | 25.18 | 1.64 | 4.00 | <0.1 | <0.01 |
| NF2 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 9.1 | 10:59:00 AM | 8.36 | 8.11 | 32.37 | 25.18 | 1.65 | 6.00 | <0.1 | <0.01 |
| NF3 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:05:00 AM | 8.82 | 8.19 | 31.38 | 25.3 | 1.64 | 5.00 | <0.1 | <0.01 |
| NF3 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | S | 1 | 11:05:00 AM | 8.79 | 8.20 | 31.28 | 25.29 | 1.68 | 3.00 | <0.1 | <0.01 |
| NF3 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 6.1 | 11:06:00 AM | 8.75 | 8.20 | 31.35 | 25.32 | 1.64 | 4.00 | <0.1 | <0.01 |
| NF3 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | М | 6.1 | 11:06:00 AM | 8.84 | 8.20 | 31.42 | 25.28 | 1.67 | 7.00 | <0.1 | <0.01 |
| NF3 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 11.2 | 11:07:00 AM | 8.8 | 8.20 | 31.25 | 25.28 | 1.65 | 2.50 | <0.1 | <0.01 |
| NF3 | 30/11/2024 | Sunny | Mid-Ebb | Moderate | В | 11.2 | 11:07:00 AM | 8.83 | 8.19 | 31.25 | 25.3 | 1.68 | 3.00 | <0.1 | <0.01 |

Contract No. 13/WSD/17. Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

| 1/11/2024 2/11/2024 3/11/2024 4/11/2024 6/11/2024 6/11/2024 9/11/2024 10/11/2024 11/11/2024 11/11/2024 11/11/2024 11/11/2024 11/11/2024 11/11/2024 13/11/2024 14/11/2024 | <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 | 0.06 0.12 0.15 0.14 | 0.01 0.02 0.02 | <2 <2 | <0.1 |
|--|--|----------------------------------|--------------------------|------------------|------|
| 3/11/2024 4/11/2024 5/11/2024 6/11/2024 8/11/2024 9/11/2024 10/11/2024 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | <2 <2 <2 | 0.15 | | <2 | |
| 4/11/2024 5/11/2024 6/11/2024 7/11/2024 8/11/2024 9/11/2024 10/11/2024 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | <2 <2 | | 0.02 | | <0.1 |
| 5/11/2024 6/11/2024 7/11/2024 8/11/2024 9/11/2024 10/11/2024 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | <2 | 0.14 | 0.02 | <2 | <0.1 |
| 6/11/2024 7/11/2024 8/11/2024 9/11/2024 10/11/2024 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | | | 0.02 | <2 | <0.1 |
| 7/11/2024 8/11/2024 9/11/2024 10/11/2024 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | < 2 | 0.14 | 0.02 | <2 | <0.1 |
| 8/11/2024 9/11/2024 10/11/2024 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | <u>^</u> | 0.09 | 0.01 | <2 | <0.1 |
| 9/11/2024 10/11/2024 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | <2 | 0.39 | <0.01 | <2 | <0.1 |
| 10/11/2024 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | <2 | 0.41 | <0.01 | <2 | <0.1 |
| 11/11/2024 12/11/2024 13/11/2024 14/11/2024 | <2 | 0.38 | <0.01 | <2 | <0.1 |
| 12/11/2024 13/11/2024 14/11/2024 | <2 | 0.37 | <0.01 | <2 | <0.1 |
| 13/11/2024 14/11/2024 | <2 | 0.37 | <0.01 | <2 | <0.1 |
| 14/11/2024 | <2 | 0.33 | 0.01 | <2 | <0.1 |
| | <2 | 0.09 | <0.01 | <2 | <0.1 |
| | <2 | 0.02 | 0.03 | <2 | <0.1 |
| 15/11/2024 | <2 | 0.09 | 0.01 | <2 | <0.1 |
| 16/11/2024 | <2 | 0.06 | 0.01 | <2 | <0.1 |
| 17/11/2024 | <2 | 0.06 | 0.01 | <2 | <0.1 |
| 18/11/2024 | <2 | 0.06 | 0.01 | <2 | <0.1 |
| 19/11/2024 | <2 | 0.42 | <0.01 | <2 | <0.1 |
| 20/11/2024 | <2 | 0.26 | <0.01 | <2 | <0.1 |
| 21/11/2024 | <2 | 0.25 | <0.01 | <2 | <0.1 |
| 22/11/2024 | <2 | 0.07 | <0.01 | <2 | <0.1 |
| 23/11/2024 | <2 | 0.05 | <0.01 | <2 | <0.1 |
| 24/11/2024 | | | | | |
| 25/11/2024 | | | | | |
| 26/11/2024 | | | | | |
| 27/11/2024 | 1 | No effluent discharge from TKODF | due to the plant has sto | pped production. | |
| 28/11/2024 | | | | | |
| 29/11/2024 | | | | | |
| 30/11/2024 | | | | | |

*Remark:

As confirmed by various laboratories in Hong Kong, the lowest detection limit for Sodium Metabisulphite is <2 mg/L.

Due to the limitation of the laboratory, the lowest result for Sodium Metabisulphite will only be shown as < 2 mg/L.

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

Continuous Effluent Monitoring (November 2024)

Contract No. 13/WSD/17. Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Continuous Effluent Monitoring (November 2024)

| Date & Time | Sal (ppt) | рН | Temp (°C) | Total Residual Chlorine (mg/L) |
|--|----------------|--------------|--------------|-----------------------------------|
| 11/01/2024 01:00 AM | 58.26 | 7.26 | 27.4 | 0.06 |
| 11/01/2024 03:00 AM | 58.21 | 7.51 | 26.8 | 0.06 |
| 11/01/2024 05:00 AM | 58.21 | 7.25 | 26.8 | 0.06 |
| 11/01/2024 07:00 AM | 58.21 | 7.64 | 26.8 | 0.06 |
| 11/01/2024 09:00 AM | 58.21 | 7.04 | 26.8 | 0.06 |
| 11/01/2024 11:00 AM | 58.27 | 7.64 | 26.8 | 0.07 |
| 11/01/2024 01:00 PM | 58.27 | 7.01 | 27.0 | 0.07 |
| 11/01/2024 03:00 PM | 58.26 | 7.15 | 27.3 | 0.05 |
| 11/01/2024 05:00 PM | 58.26 | 7.03 | 27.6 | 0.06 |
| 11/01/2024 07:00 PM | 58.27 | 7.21 | 27.6 | 0.05 |
| 11/01/2024 09:00 PM | 58.35 | 7.51 | 27.5 | 0.05 |
| 11/01/2024 11:00 PM | 58.31 | 7.01 | 27.4 | 0.06 |
| 11/02/2024 01:00 AM | 58.31 | 7.01 | 27.4 | 0.07 |
| 11/02/2024 03:00 AM | 58.31 | 7.64 | 27.4 | 0.07 |
| 11/02/2024 05:00 AM | 58.31 | 7.01 | 27.4 | 0.07 |
| 11/02/2024 07:00 AM | 58.31 | 7.01 | 27.40 | 0.04 |
| 11/02/2024 09:00 AM | 58.23 | 7.21 | 27.40 | 0.05 |
| 11/02/2024 05:00 AM | 58.36 | 7.05 | 27.41 | 0.06 |
| 11/02/2024 01:00 PM | 58.16 | 7.06 | 27.4 | 0.05 |
| 11/02/2024 03:00 PM | 58.35 | 7.54 | 27.41 | 0.07 |
| 11/02/2024 05:00 PM | 58.30 | 7.05 | 27.4 | 0.04 |
| 11/02/2024 03:00 PM | 58.36 | 7.03 | 27.40 | 0.04 |
| 11/02/2024 09:00 PM | 58.34 | 7.05 | 27.40 | 0.05 |
| 11/02/2024 00:00 PM | 58.21 | 7.03 | 27.40 | 0.05 |
| 11/03/2024 01:00 AM | 58.05 | 7.05 | 27.40 | 0.06 |
| 11/03/2024 01:00 AM | 58.31 | 7.03 | 27.43 | 0.07 |
| 11/03/2024 05:00 AM | 58.64 | 7.02 | 27.43 | 0.07 |
| 11/03/2024 03:00 AM | 30.04 | 7.01 | 27.4 | 0.07 |
| 11/03/2024 07:00 AM | | | | |
| 11/03/2024 09:00 AM | | | | |
| 11/03/2024 01:00 PM | No effluent | discharge f | | ie to the plant has stopped |
| 11/03/2024 03:00 PM | | | production | |
| 11/03/2024 05:00 PM | | | | |
| 11/03/2024 07:00 PM | | | | |
| 11/03/2024 07:00 PM | 58.51 | 7.03 | 26.0 | 0.03 |
| 11/03/2024 09:00 PM | 58.50 | 7.30 | 26.1 | 0.05 |
| 11/04/2024 01:00 AM | 58.53 | 7.25 | 26.1 | 0.03 |
| 11/04/2024 03:00 AM | 58.49 | 7.25 | 26.1 | 0.04 |
| 11/04/2024 05:00 AM | 58.57 | 7.25 | 26.0 | 0.05 |
| 11/04/2024 07:00 AM | 58.55 | 7.55 | 26.0 | 0.06 |
| 11/04/2024 09:00 AM | 58.53 | 7.25 | 25.9 | 0.04 |
| 11/04/2024 11:00 AM | 58.51 | 7.23 | 25.9 | 0.04 |
| 11/04/2024 01:00 PM | 58.51 | 7.21 | 26.0 | 0.05 |
| 11/04/2024 01:00 PM | 58.51 | 7.35 | 26.1 | 0.03 |
| 11/04/2024 05:00 PM | 54.67 | 7.25 | 26.2 | 0.04 |
| 11/04/2024 03:00 PM 11/04/2024 07:00 PM | 49.80 | 7.23 | 26.2 | 0.05 |
| | | | | |
| 11/04/2024 00.00 DM | | | | |
| 11/04/2024 09:00 PM 11/04/2024 11:00 PM | 50.22 50.45 | 7.25 7.31 | 26.2 26.2 | 0.04 |

| Date & Time | Sal (ppt) | рН | Temp (°C) | Total Residual Chlorine (mg/L) |
|--|-----------|------|-----------|-----------------------------------|
| 11/05/2024 01:00 AM | 50.68 | 7.25 | 26.2 | 0.07 |
| 11/05/2024 03:00 AM | 50.89 | 7.05 | 26.2 | 0.06 |
| 11/05/2024 05:00 AM | 51.11 | 7.25 | 26.2 | 0.06 |
| 11/05/2024 07:00 AM | 51.22 | 7.65 | 26.2 | 0.05 |
| 11/05/2024 09:00 AM | 51.39 | 7.25 | 26.2 | 0.06 |
| 11/05/2024 11:00 AM | 51.45 | 7.54 | 25.2 | 0.07 |
| 11/05/2024 01:00 PM | 51.50 | 7.25 | 26.6 | 0.06 |
| 11/05/2024 03:00 PM | 51.50 | 7.05 | 26.5 | 0.05 |
| 11/05/2024 05:00 PM | 51.62 | 7.25 | 26.1 | 0.06 |
| 11/05/2024 07:00 PM | 51.81 | 7.54 | 26.4 | 0.06 |
| 11/05/2024 09:00 PM | 51.79 | 7.25 | 26.5 | 0.04 |
| 11/05/2024 11:00 PM | 51.79 | 7.65 | 26.7 | 0.06 |
| 11/06/2024 01:00 AM | 51.89 | 7.25 | 28.6 | 0.05 |
| 11/06/2024 03:00 AM | 51.98 | 7.54 | 28.5 | 0.06 |
| 11/06/2024 05:00 AM | 51.98 | 7.05 | 27.1 | 0.05 |
| 11/06/2024 07:00 AM | 52.07 | 7.25 | 27.6 | 0.06 |
| 11/06/2024 09:00 AM | 52.31 | 7.05 | 28.1 | 0.07 |
| 11/06/2024 11:00 AM | 52.40 | 7.25 | 26.6 | 0.08 |
| 11/06/2024 01:00 PM | 52.37 | 7.25 | 26.0 | 0.06 |
| 11/06/2024 03:00 PM | 52.48 | 7.25 | 27.3 | 0.05 |
| 11/06/2024 05:00 PM | 52.42 | 7.25 | 27.7 | 0.04 |
| 11/06/2024 07:00 PM | 52.47 | 7.25 | 28.3 | 0.05 |
| 11/06/2024 09:00 PM | 52.48 | 7.25 | 26.2 | 0.06 |
| 11/06/2024 11:00 PM | 52.60 | 7.25 | 27.1 | 0.05 |
| 11/07/2024 01:00 AM | 52.66 | 7.25 | 27.6 | 0.04 |
| 11/07/2024 03:00 AM | 52.66 | 7.51 | 27.6 | 0.05 |
| 11/07/2024 05:00 AM | 52.66 | 7.25 | 26.1 | 0.06 |
| 11/07/2024 07:00 AM | 52.78 | 7.65 | 26.3 | 0.05 |
| 11/07/2024 09:00 AM | 52.80 | 7.21 | 25.1 | 0.04 |
| 11/07/2024 11:00 AM | 52.90 | 7.25 | 26.9 | 0.06 |
| 11/07/2024 01:00 PM | 52.90 | 7.22 | 27.8 | 0.07 |
| 11/07/2024 03:00 PM | 52.90 | 7.25 | 27.0 | 0.05 |
| 11/07/2024 05:00 PM | 53.00 | 7.23 | 26.7 | 0.06 |
| 11/07/2024 03:00 PM | 53.00 | 7.25 | 26.0 | 0.07 |
| 11/07/2024 09:00 PM | 53.01 | 7.24 | 26.3 | 0.05 |
| 11/07/2024 11:00 PM | 53.06 | 7.25 | 26.5 | 0.06 |
| 11/08/2024 01:00 AM | 53.15 | 7.23 | 27.1 | 0.04 |
| 11/08/2024 03:00 AM | 53.23 | 7.25 | 26.5 | 0.05 |
| 11/08/2024 05:00 AM | 53.23 | 7.24 | 27.1 | 0.04 |
| 11/08/2024 07:00 AM | 53.32 | 7.25 | 27.0 | 0.06 |
| 11/08/2024 09:00 AM | 53.42 | 7.22 | 27.0 | 0.07 |
| 11/08/2024 11:00 AM | 53.42 | 7.25 | 26.6 | 0.06 |
| 11/08/2024 01:00 PM | 53.42 | 7.23 | 26.1 | 0.04 |
| 11/08/2024 03:00 PM | 53.43 | 7.25 | 26.1 | 0.05 |
| 11/08/2024 05:00 PM | 53.54 | 7.22 | 25.1 | 0.06 |
| 11/08/2024 07:00 PM | 53.54 | 7.22 | 25.1 | 0.05 |
| 11/08/2024 09:00 PM | 53.54 | 7.21 | 26.2 | 0.03 |
| 11/08/2024 09:00 PM 11/08/2024 11:00 PM | 53.65 | 7.23 | 25.6 | 0.03 |

Continuous Effluent Monitoring (November 2024)

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

| Date & Time | Sal (ppt) | рН | Temp (°C) | Total Residual Chlorine (mg/L) |
|---------------------|-----------|------|-----------|-----------------------------------|
| 11/09/2024 01:00 AM | 53.65 | 7.19 | 25.1 | 0.02 |
| 11/09/2024 03:00 AM | 53.65 | 7.25 | 25.0 | 0.02 |
| 11/09/2024 05:00 AM | 53.74 | 7.25 | 26.7 | 0.04 |
| 11/09/2024 07:00 AM | 53.74 | 7.18 | 25.0 | 0.06 |
| 11/09/2024 09:00 AM | 53.83 | 7.25 | 25.7 | 0.05 |
| 11/09/2024 11:00 AM | 53.85 | 7.19 | 26.6 | 0.04 |
| 11/09/2024 01:00 PM | 53.85 | 7.25 | 26.1 | 0.06 |
| 11/09/2024 03:00 PM | 53.85 | 7.85 | 26.2 | 0.03 |
| 11/09/2024 05:00 PM | 53.85 | 7.25 | 25.0 | 0.04 |
| 11/09/2024 07:00 PM | 53.85 | 7.15 | 26.9 | 0.06 |
| 11/09/2024 09:00 PM | 53.85 | 7.25 | 26.1 | 0.05 |
| 11/09/2024 11:00 PM | 53.93 | 7.15 | 26.0 | 0.05 |
| 11/10/2024 01:00 AM | 53.93 | 7.10 | 25.0 | 0.06 |
| 11/10/2024 03:00 AM | 53.94 | 7.25 | 25.0 | 0.03 |
| 11/10/2024 05:00 AM | 53.94 | 7.31 | 26.6 | 0.05 |
| 11/10/2024 07:00 AM | 53.94 | 7.25 | 26.6 | 0.06 |
| 11/10/2024 09:00 AM | 53.94 | 7.10 | 25.0 | 0.05 |
| 11/10/2024 11:00 AM | 53.94 | 7.25 | 26.1 | 0.06 |
| 11/10/2024 01:00 PM | 53.98 | 7.25 | 24.1 | 0.04 |
| 11/10/2024 03:00 PM | 53.98 | 7.10 | 24.1 | 0.06 |
| 11/10/2024 05:00 PM | 53.98 | 7.25 | 25.6 | 0.05 |
| 11/10/2024 07:00 PM | 53.98 | 7.11 | 25.3 | 0.06 |
| 11/10/2024 09:00 PM | 53.98 | 7.25 | 25.0 | 0.04 |
| 11/10/2024 11:00 PM | 54.06 | 7.16 | 26.6 | 0.03 |
| 11/11/2024 01:00 AM | 54.06 | 7.25 | 26.0 | 0.06 |
| 11/11/2024 03:00 AM | 54.00 | 7.18 | 25.8 | 0.04 |
| 11/11/2024 05:00 AM | 54.00 | 7.25 | 24.1 | 0.05 |
| 11/11/2024 07:00 AM | 53.98 | 7.18 | 24.9 | 0.06 |
| 11/11/2024 09:00 AM | 53.89 | 7.05 | 25.3 | 0.05 |
| 11/11/2024 11:00 AM | 53.92 | 7.25 | 25.1 | 0.06 |
| 11/11/2024 01:00 PM | 53.89 | 7.64 | 26.3 | 0.05 |
| 11/11/2024 03:00 PM | 53.89 | 7.25 | 25.6 | 0.04 |
| 11/11/2024 05:00 PM | 53.88 | 7.00 | 26.0 | 0.03 |
| 11/11/2024 07:00 PM | 53.88 | 7.06 | 25.0 | 0.06 |
| 11/11/2024 09:00 PM | 53.87 | 7.25 | 26.4 | 0.02 |
| 11/11/2024 11:00 PM | 53.87 | 7.05 | 26.9 | 0.05 |
| 11/12/2024 01:00 AM | 53.87 | 7.25 | 25.1 | 0.04 |
| 11/12/2024 03:00 AM | 53.88 | 7.04 | 25.0 | 0.06 |
| 11/12/2024 05:00 AM | 53.88 | 7.05 | 25.0 | 0.05 |
| 11/12/2024 07:00 AM | 53.91 | 7.25 | 26.3 | 0.03 |
| 11/12/2024 09:00 AM | 53.92 | 7.25 | 26.0 | 0.04 |
| 11/12/2024 11:00 AM | 53.05 | 7.05 | 26.3 | 0.03 |
| 11/12/2024 01:00 PM | 54.36 | 7.64 | 25.6 | 0.02 |
| 11/12/2024 03:00 PM | 53.65 | 7.55 | 26.3 | 0.03 |
| 11/12/2024 05:00 PM | 54.01 | 7.31 | 26.1 | 0.02 |
| 11/12/2024 07:00 PM | 54.68 | 7.58 | 25.4 | 0.04 |
| 11/12/2024 09:00 PM | 53.68 | 7.05 | 26.4 | 0.03 |
| 11/12/2024 11:00 PM | 54.05 | 7.84 | 26.1 | 0.04 |

| Contract No. 13/WSD/17. |
|---|
| Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant |

Continuous Effluent Monitoring (November 2024)

| Date & Time | Sal (ppt) | рН | Temp (°C) | Total Residual Chlorine (mg/L) |
|--|----------------|--------------|--------------|-----------------------------------|
| 11/13/2024 01:00 AM | 53.64 | 7.25 | 25.9 | 0.02 |
| 11/13/2024 03:00 AM | 53.04 | 7.31 | 25.7 | 0.02 |
| 11/13/2024 05:00 AM | 54.05 | 7.06 | 26.3 | 0.02 |
| 11/13/2024 07:00 AM | 54.68 | 7.64 | 26.0 | 0.02 |
| 11/13/2024 09:00 AM | 55.05 | 7.85 | 25.6 | 0.02 |
| 11/13/2024 11:00 AM | 54.06 | 7.36 | 25.3 | 0.03 |
| 11/13/2024 01:00 PM | 55.68 | 7.05 | 26.3 | 0.03 |
| 11/13/2024 03:00 PM | 54.06 | 7.61 | 25.1 | 0.03 |
| 11/13/2024 05:00 PM | 55.68 | 7.06 | 25.6 | 0.02 |
| 11/13/2024 07:00 PM | 53.05 | 7.68 | 26.3 | 0.02 |
| 11/13/2024 09:00 PM | 53.04 | 7.04 | 25.7 | 0.03 |
| 11/13/2024 11:00 PM | 52.04 | 7.05 | 26.3 | 0.02 |
| 11/14/2024 01:00 AM | 52.68 | 7.31 | 26.5 | 0.03 |
| 11/14/2024 03:00 AM | 51.36 | 7.05 | 25.7 | 0.02 |
| 11/14/2024 05:00 AM | 52.68 | 7.55 | 25.1 | 0.02 |
| 11/11/2024 07:00 AM | 51.36 | 7.61 | 26.4 | 0.02 |
| 11/14/2024 09:00 AM | 53.05 | 7.84 | 25.5 | 0.02 |
| 11/11/2024 05:00 AM | 53.68 | 7.68 | 26.6 | 0.01 |
| 11/14/2024 01:00 PM | 54.01 | 7.35 | 25.0 | 0.02 |
| 11/14/2024 03:00 PM | 55.35 | 7.31 | 24.7 | 0.02 |
| 11/14/2024 05:00 PM | 54.36 | 7.05 | 26.6 | 0.02 |
| 11/14/2024 03:00 PM | 53.31 | 6.68 | 25.1 | 0.02 |
| 11/14/2024 09:00 PM | 52.05 | 7.31 | 26.1 | 0.02 |
| 11/14/2024 0):00 PM | 51.06 | 7.54 | 26.0 | 0.04 |
| 11/14/2024 11:00 PM 11/15/2024 01:00 AM | 52.00 | 7.34 | 25.7 | 0.01 |
| 11/15/2024 01:00 AM | 52.68 | 7.05 | 26.7 | 0.02 |
| 11/15/2024 05:00 AM | 53.04 | 7.32 | 26.0 | 0.01 |
| 11/15/2024 05:00 AM | 51.05 | 7.45 | 25.3 | 0.01 |
| 11/15/2024 07:00 AM | 52.68 | 7.43 | 25.7 | 0.03 |
| 11/15/2024 09:00 AM | 53.54 | 7.55 | 26.3 | 0.01 |
| | | | | |
| 11/15/2024 01:00 PM 11/15/2024 03:00 PM | 52.68 52.04 | 7.31 7.21 | 26.0 26.4 | 0.02 |
| 11/15/2024 03:00 PM 11/15/2024 05:00 PM | 52.04 | 7.02 | 26.4 | 0.02 |
| 11/15/2024 05:00 PM 11/15/2024 07:00 PM | 53.68 | 7.64 | 25.6 | 0.02 |
| | 53.68 | 7.64 | 26.0 | 0.01 |
| 11/15/2024 09:00 PM | 54.01 | 7.28 | 26.0 | 0.02 |
| 11/15/2024 11:00 PM | 53.64 | 7.03 | 25.7 | 0.03 |
| 11/16/2024 01:00 AM 11/16/2024 03:00 AM | 52.84 | 7.03 | 25.3 | 0.02 |
| | | | | |
| 11/16/2024 05:00 AM | 54.05 | 7.68 | 24.0 | 0.02 |
| 11/16/2024 07:00 AM | 55.04 | 7.38 | 24.4 24.6 | 0.03 |
| 11/16/2024 09:00 AM | 54.06 | 7.36 7.33 | | 0.02 |
| 11/16/2024 11:00 AM | 55.05 | | 24.6 24.1 | 0.01 |
| 11/16/2024 01:00 PM | 53.61 | 7.68 | | 0.02 |
| 11/16/2024 03:00 PM | 52.68 | 7.58 | 24.7 | 0.02 |
| 11/16/2024 05:00 PM | 53.04 | 7.45 | 25.5 | 0.02 |
| 11/16/2024 07:00 PM | 52.65 | 7.08 | 24.1 | 0.03 |
| 11/16/2024 09:00 PM | 53.01 | 7.64 | 26.5 | 0.02 |
| 11/16/2024 11:00 PM | 52.04 | 6.99 | 25.1 | 0.01 |

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

Continuous Effluent Monitoring (November 2024)

Contract No. 13/WSD/17. Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Continuous Effluent Monitoring (November 2024)

| Date & Time | Sal (ppt) | pH | Temp (°C) | Total Residual Chlorine (mg/L) |
|--|----------------|--------------|-----------|-----------------------------------|
| 11/17/2024 01:00 AM | 52.68 | 7.31 | 25.6 | 0.03 |
| 11/17/2024 03:00 AM | 53.01 | 7.05 | 26.3 | 0.02 |
| 11/17/2024 05:00 AM | 54.05 | 7.68 | 25.9 | 0.03 |
| 11/17/2024 07:00 AM | 52.35 | 7.55 | 24.7 | 0.01 |
| 11/17/2024 09:00 AM | 52.00 | 7.17 | 24.5 | 0.02 |
| 11/17/2024 03:00 AM | 52.64 | 7.84 | 24.1 | 0.02 |
| 11/17/2024 01:00 PM | 52.87 | 7.54 | 24.6 | 0.02 |
| 11/17/2024 03:00 PM | 52.48 | 7.15 | 25.1 | 0.02 |
| 11/17/2024 05:00 PM | 53.05 | 7.58 | 25.6 | 0.02 |
| 11/17/2024 03:00 PM | 52.84 | 7.65 | 25.0 | 0.02 |
| 11/17/2024 09:00 PM | 51.05 | 7.68 | 25.6 | 0.02 |
| 11/17/2024 05:00 PM | 52.84 | 8.00 | 23.0 | 0.02 |
| 11/18/2024 01:00 AM | 52.04 | 7.05 | 24.1 | 0.03 |
| 11/18/2024 01:00 AM 11/18/2024 03:00 AM | 52.96 | 7.65 | 24.0 | 0.02 |
| 11/18/2024 05:00 AM | 52.96 | 7.65 | 25.0 | 0.01 |
| 11/18/2024 03:00 AM | 53.01 | 7.00 | 25.7 | 0.02 |
| 11/18/2024 09:00 AM | 53.01 | 7.68 | 25.7 | 0.03 |
| 11/18/2024 09:00 AM 11/18/2024 11:00 AM | 52.05 | 7.33 | 26.0 | 0.02 |
| 11/18/2024 11:00 AM 11/18/2024 01:00 PM | 53.06 | 7.68 | 25.1 | 0.02 |
| | 54.06 | 7.80 | 25.1 | 0.01 |
| 11/18/2024 03:00 PM | 54.00 | 7.05 | 25.0 | 0.04 |
| 11/18/2024 05:00 PM | | | 25.5 | 0.02 |
| 11/18/2024 07:00 PM | 54.61 54.03 | 7.68 7.58 | 25.5 | 0.02 |
| 11/18/2024 09:00 PM | 55.64 | 7.96 | 26.4 | 0.02 |
| 11/18/2024 11:00 PM | | 7.96 | 25.7 | 0.03 |
| 11/19/2024 01:00 AM | 53.04 | | | 0.02 |
| 11/19/2024 03:00 AM | 52.06 | 7.36 | 25.3 | |
| 11/19/2024 05:00 AM | 53.00 | 7.54 | 25.6 | 0.06 |
| 11/19/2024 07:00 AM | 52.18 | 7.46 | 26.3 | 0.02 |
| 11/19/2024 09:00 AM | 53.05 | 7.61 | 26.5 | 0.05 |
| 11/19/2024 11:00 AM | 54.05 | 7.58 | 26.6 | 0.02 |
| 11/19/2024 01:00 PM | 54.06 | 7.35 | 25.9 | 0.04 |
| 11/19/2024 03:00 PM | 54.04 | 7.54 | 25.0 | 0.03 |
| 11/19/2024 05:00 PM | 53.89 | 7.54 | 25.6 | 0.08 |
| 11/19/2024 07:00 PM | 53.05 | 7.05 | 26.7 | 0.08 |
| 11/19/2024 09:00 PM | 52.64 | 7.68 | 25.7 | 0.03 |
| 11/19/2024 11:00 PM | 53.04 | 7.65 | 26.1 | 0.01 |
| 11/20/2024 01:00 AM | 53.04 | 7.05 | 25.6 | 0.08 |
| 11/20/2024 03:00 AM | 54.05 | 7.01 | 26.3 | 0.03 |
| 11/20/2024 05:00 AM | 54.03 | 7.22 | 26.1 | 0.08 |
| 11/20/2024 07:00 AM | 53.94 | 7.65 | 26.0 | 0.02 |
| 11/20/2024 09:00 AM | 52.84 | 7.03 | 26.3 | 0.08 |
| 11/20/2024 11:00 AM | 53.64 | 7.64 | 26.1 | 0.06 |
| 11/20/2024 01:00 PM | 52.36 | 7.04 | 25.6 | 0.08 |
| 11/20/2024 03:00 PM | 53.01 | 7.61 | 26.3 | 0.08 |
| 11/20/2024 05:00 PM | 51.06 | 7.21 | 25.1 | 0.05 |
| 11/20/2024 07:00 PM | 52.64 | 7.01 | 26.3 | 0.08 |
| 11/20/2024 09:00 PM | 53.68 | 7.05 | 25.0 | 0.07 |
| 11/20/2024 11:00 PM | 53.01 | 7.68 | 26.7 | 0.06 |

| Date & Time | Sal (ppt) | рН | Temp (°C) | Total Residual Chlorine (mg/L) |
|---------------------|-------------|--------------|------------|-----------------------------------|
| 11/21/2024 01:00 AM | 53.06 | 7.98 | 24.1 | 0.07 |
| 11/21/2024 03:00 AM | 54.64 | 7.04 | 26.3 | 0.06 |
| 11/21/2024 05:00 AM | 53.68 | 7.54 | 25.1 | 0.07 |
| 11/21/2024 07:00 AM | 53.05 | 7.55 | 26.3 | 0.05 |
| 11/21/2024 09:00 AM | 52.64 | 7.64 | 26.3 | 0.07 |
| 11/21/2024 11:00 AM | 53.04 | 7.05 | 25.6 | 0.06 |
| 11/21/2024 01:00 PM | 53.04 | 7.64 | 24.7 | 0.05 |
| 11/21/2024 03:00 PM | 52.04 | 7.01 | 25.6 | 0.01 |
| 11/21/2024 05:00 PM | 53.64 | 7.55 | 25.6 | 0.06 |
| 11/21/2024 07:00 PM | 54.00 | 7.21 | 26.7 | 0.05 |
| 11/21/2024 09:00 PM | 54.68 | 7.16 | 25.3 | 0.06 |
| 11/21/2024 11:00 PM | 54.05 | 7.05 | 26.7 | 0.09 |
| 11/22/2024 01:00 AM | 52.05 | 7.50 | 26.2 | 0.05 |
| 11/22/2024 03:00 AM | 53.64 | 7.40 | 26.5 | 0.05 |
| 11/22/2024 05:00 AM | 52.04 | 7.10 | 25.0 | 0.04 |
| 11/22/2024 07:00 AM | 53.36 | 7.14 | 26.0 | 0.03 |
| 11/22/2024 09:00 AM | 53.01 | 7.54 | 26.3 | 0.02 |
| 11/22/2024 11:00 AM | 54.06 | 7.05 | 27.0 | 0.06 |
| 11/22/2024 01:00 PM | 55.01 | 7.58 | 26.4 | 0.05 |
| 11/22/2024 03:00 PM | 54.61 | 7.58 | 26.6 | 0.04 |
| 11/22/2024 05:00 PM | 53.05 | 7.01 | 26.0 | 0.06 |
| 11/22/2024 07:00 PM | 53.84 | 7.64 | 25.4 | 0.08 |
| 11/22/2024 09:00 PM | 54.07 | 7.03 | 26.3 | 0.05 |
| 11/22/2024 11:00 PM | 54.03 | 7.22 | 26.6 | 0.05 |
| 11/23/2024 01:00 AM | 55.34 | 7.31 | 27.1 | 0.05 |
| 11/23/2024 03:00 AM | 53.13 | 7.61 | 26.7 | 0.05 |
| 11/23/2024 05:00 AM | 53.21 | 7.05 | 25.7 | 0.06 |
| 11/23/2024 07:00 AM | 53.64 | 7.00 | 26.4 | 0.02 |
| 11/23/2024 09:00 AM | 52.07 | 7.31 | 26.6 | 0.03 |
| 11/23/2024 11:00 AM | 52.64 | 7.05 | 25.7 | 0.02 |
| 11/23/2024 01:00 PM | 52.31 | 7.68 | 26.4 | 0.03 |
| 11/23/2024 03:00 PM | 53.36 | 7.01 | 26.4 | 0.02 |
| 11/23/2024 05:00 PM | 53.15 | 7.00 | 25.7 | 0.03 |
| 11/23/2024 07:00 PM | 53.64 | 7.31 | 25.6 | 0.03 |
| 11/23/2024 09:00 PM | | | | |
| 11/23/2024 11:00 PM | | | | |
| 11/24/2024 01:00 AM | | | | |
| 11/24/2024 03:00 AM | | | | |
| 11/24/2024 05:00 AM | | | | |
| 11/24/2024 07:00 AM | | | | |
| 11/24/2024 09:00 AM | No effluent | discharge fi | | ie to the plant has stopped |
| 11/24/2024 11:00 AM | | | production | |
| 11/24/2024 01:00 PM | | | | |
| 11/24/2024 03:00 PM | | | | |
| 11/24/2024 05:00 PM | | | | |
| 11/24/2024 07:00 PM | | | | |
| 11/24/2024 09:00 PM | | | | |
| 11/24/2024 11:00 PM | | | | |

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

Continuous Effluent Monitoring (November 2024)

Contract No. 13/WSD/17. Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Continuous Effluent Monitoring (November 2024)

| Date & Time | Sal (ppt) | pН | Temp (°C) | Total Residual Chlorine (mg/L) |
|--|---------------|----------|---------------|-----------------------------------|
| 11/25/2024 01:00 AM | | | | |
| 11/25/2024 03:00 AM | | | | |
| 11/25/2024 05:00 AM | | | | |
| 11/25/2024 07:00 AM | | | | |
| 11/25/2024 09:00 AM | | | | |
| 11/25/2024 11:00 AM | | | | |
| 11/25/2024 01:00 PM | | | | |
| 11/25/2024 03:00 PM | | | | |
| 11/25/2024 05:00 PM | | | | |
| 11/25/2024 07:00 PM | | | | |
| 11/25/2024 09:00 PM | | | | |
| 11/25/2024 11:00 PM | | | | |
| 11/26/2024 01:00 AM | | | | |
| 11/26/2024 03:00 AM | | | | |
| 11/26/2024 05:00 AM | | | | |
| 11/26/2024 07:00 AM | | | | |
| 11/26/2024 09:00 AM | | | | |
| 11/26/2024 11:00 AM | | | | |
| 11/26/2024 01:00 PM | | | | |
| 11/26/2024 03:00 PM | | | | |
| 11/26/2024 05:00 PM | | | | |
| 11/26/2024 07:00 PM | | | | |
| 11/26/2024 09:00 PM | | | | |
| 11/26/2024 11:00 PM | No effluent d | ischarge | from TKODP du | e to the plant has stopped |
| 11/27/2024 01:00 AM | | | production. | |
| 11/27/2024 03:00 AM | | | | |
| 11/27/2024 05:00 AM | | | | |
| 11/27/2024 07:00 AM | | | | |
| 11/27/2024 09:00 AM | | | | |
| 11/27/2024 11:00 AM | | | | |
| 11/27/2024 01:00 PM | | | | |
| 11/27/2024 03:00 PM | | | | |
| 11/27/2024 05:00 PM | | | | |
| 11/27/2024 07:00 PM | | | | |
| 11/27/2024 09:00 PM | | | | |
| 11/27/2024 11:00 PM | | | | |
| 11/28/2024 01:00 AM | | | | |
| 11/28/2024 03:00 AM | | | | |
| 11/28/2024 05:00 AM | | | | |
| 11/28/2024 07:00 AM | | | | |
| 11/28/2024 09:00 AM | | | | |
| 11/28/2024 11:00 AM | | | | |
| 11/28/2024 01:00 PM | | | | |
| 11/28/2024 03:00 PM | | | | |
| 11/28/2024 05:00 PM | | | | |
| 11/28/2024 07:00 PM | | | | |
| 11/78/707/ 00-00 DM | | | | |
| 11/28/2024 09:00 PM 11/28/2024 11:00 PM | | | | |

| | Sal (ppt) | рН | Temp (°C) | Total Residual Chlorine (mg/L) |
|--|---------------|--------------|-----------------------------|-----------------------------------|
| 11/29/2024 01:00 AM 11/29/2024 03:00 AM 11/29/2024 05:00 AM 11/29/2024 07:00 AM 11/29/2024 07:00 AM 11/29/2024 07:00 AM 11/29/2024 01:00 PM 11/29/2024 01:00 PM 11/29/2024 03:00 PM 11/29/2024 07:00 PM 11/29/2024 01:00 AM 11/30/2024 01:00 AM 11/30/2024 07:00 AM 11/30/2024 01:00 PM 11/30/2024 01:00 PM 11/30/2024 01:00 PM 11/30/2024 01:00 PM 11/30/2024 01:00 PM 11/30/2024 07:00 PM 11/30/2024 07:00 PM 11/30/2024 07:00 PM 11/30/2024 07:00 PM 11/30/2024 07:00 PM 11/30/2024 11:00 PM | No effluent o | lischarge fi | rom TKODP du production. | ie to the plant has stopped |



Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of site: Tseung Kwan O Desalination Plant Phase 1

| Dates calibrated |
|------------------|
| 1514/24 |
| |
| |
| |

| Sample location | Date of | Sampling | | | Mo | nitoring wells / s | Surface Gas Emi | ssion | | |
|----------------------|-------------|--|----------------------|--------------------|---------------------------------|-----------------------|-----------------|---------|------------------|--------|
| | measurement | time | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon dioxide (%) | Oxygen (%) | Temp °C | Pressure mBar | Remark |
| MUI-Mid | 14/11/24 | 0700 | Cloudy | 0 | 0 | 0.01 | 20.4 | 22 | 1009 | |
| 111-Base 112- Mid | 14/11/14 | 0730 | Clouty | D | Ð | 0.01 | 20.5 | 22 | 1029 | |
| MUZ-Base | 14/11/24 | 0808 | clardy | 0 | 0 | 0.02 | 20.5 | 22 | 1009 | |
| My - Back | 14/11/24 | 0840 | cloudy | 0 | 0 | 0.01 | 22.6 | 12 | 1009 | |
| M3-Mid | 14/11/24 | 0918 | cloudy | 0 | 0 | 0-01 | 20.5 | 22 | 109 | |
| 144-Mid | | 10:30 | cloudy | 0 | 0 | 0 | 20.4 | 22 | 1209 | |
| 144-Bax | 14/11/24 | and the second | Cloudy | 0 | 0 | 0.01 | 20.6 | 22 | 1009 | |
| MAK-Mid | 14/11/24 | 11:40 | Cloren | 0 | 0 | 0.01 | 21 | n | 1009 | |
| 115-Be | 14/11/24 | 12:18 | Clarky Clarky | 0 | 0 | 0.01 | 20.6 | ni | 1009 | |
| MM6-Mil | (11/24 | | clary | 0 | | 0.02 | 20.6 | 12 | 1009 | |
| | 1.0000011 | 14.00 | Clark | 0 | D | 0.01 | 20.6 | 10 | 1009 | |

Signature

Aler

Name & Designation

Prepared by field operator:

Checked by:

Normer, opun Joury her lan

Date |&|11|24 |&111124



Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of site: Tseung Kwan O Desalination Plant Phase 1

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| | |
| | |
| | |

| Sample location | Date of measurement | Sampling | Wontoring weils / Surface Gas Emission | | | | | | | | |
|---------------------|------------------------|-----------|--|--------------------|---------------------------------|-----------------------|------------|---------|------------------|--------|--|
| | | time | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon dioxide (%) | Oxygen (%) | Temp °C | Pressure mBar | Remark | |
| MH6-Base | | 13:30 | gondy | 0 | 2 | 0.01 | 20.8 | 22 | 1009 | | |
| MM7-Mid MH7-Base | 14/1/124 | 14:05 | cloudy | 0 | 0 | p.01 | 20.8 | 22 | 1009 | 17.9 | |
| | 14/11/24 | 14:40 | cloudy | D | 0 | 0 | 20.7 | 22 | 1009 | | |
| 148-Bue 148-Mij | 114/11/24 | Bin 15-10 | clarly | Ð | D | 12.01 | 21 | 22 | 1009 | | |
| 1ng-mid | 14/11/24 | 18:40 | alondy | D | Ø | 0.02 | 20.9 | 22 | 1009 | | |
| 1ng-Bar | 14/11/24 | 16:08 | Cloudy | 0 | 0 | 0.01 | 208 | 22 | 1009 | | |
| 1110 - Base | 14/11/24 | 16:40 | clardy | D | 0 | 0.01 | 20.6 | 22 | 1009 | | |
| 1110-Mid | 14/11/24 14/11/24 | 17:15 | clordy | 0 | 0 | 0.01 | 20.9 | 22 | 1009 | | |
| 1411-11.1 | 14/11/14 | 17:35 | clouty | D | 0 | 0.01 | 20.7 | 22 | 1009 | | |
| MM 11-1312 | 14/1/14 | 18-15 | clority | g | 0 | 0-22 | 20.8 | 22 | 1009 | | |
| n in me | 14/4/4 | 10:40 | Clary | 3 | б | 001 | 20.7 | 22 | 1001 | | |

Date |+/1/1117 |<//11/27

Name & Designation Norman, Openan Tomy Low 1 and

Signature

Prepared by field operator:

Checked by:



Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of site: Tseung Kwan O Desalination Plant Phase 1

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| | |
| | |
| | |

| Sample | Date of | Sampling | Monitoring wells / Surface Gas Emission | | | | | | | | |
|-------------------------------|-------------|----------|---|--------------------|---------------------------------|-----------------------|------------|---------|------------------|--------|--|
| location | measurement | time | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon dioxide (%) | Oxygen (%) | Temp °C | Pressure mBar | Remark | |
| M1117-nil | | 13-30 | clouty | 0 | 0 | 0.01 | 20.8 | 23 | 1010 | | |
| | 18/11/24 | 14:00 | clouty | 0 | 0 | 0.01 | 20.7 | 23 | 1010 | | |
| Trated water Paper stolion | | 17:40 | de-y | 0 | 0 | 0.01 | 20.6 | 23 | 1010 | | |
| tenk noten | | 14:89 | clou by | ð | 0 | 0-21 | 20-7 | 23 | 1010 | | |
| ib lorie vom | 18/11/24 | 15.30 | clouder | 0 | Ð | 0.01 | 20-7 | 23 | 1010 | | |
| tonk witch Roon | 18/11/24 | 18.59 | cloudy | 0 | 0 | e-01 | 24 | | | | |
| Yound By generity | 18/11/12 | 16:30 | clary | D | 0 | 0.01 | 20.6 | 23 | 1010. | | |

Name & Designation

Prepared by field operator:

Norman, oyedan Torray be 12m

Checked by:

Amy

Signature

Date 18[11|17 Fe111/17



Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of site: Tseung Kwan O Desalination Plant Phase 1

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| | |
| | |
| | |

| Sample | Date of | Sampling | | | Moi | nitoring wells / | Surface Gas Emi | ssion | | |
|------------|-------------|----------|-------------------|--------------------|---------------------------------|-----------------------|-----------------|---------|------------------|--------|
| location | measurement | time | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon dioxide (%) | Oxygen (%) | Temp °C | Pressure mBar | Remark |
| MM12-Bive | | 0700 | Clandy | 0 | Ð | 0.01 | 20.7 | 23 | 1010 | |
| MN12-M:J | 18/11/24 | 0735 | doudy | 0 | 0 | 0.01 | 20-6 | 23 | 1010 | |
| 113-M:J | 18/11/14 | 0805 | clardy | 0 | 0 | 0.02 | 20.8 | 23 | 1010 | |
| MMB-Bar | | 0340 | clandy | Θ | 2 | 0.01 | 20-7 | 23 | 1010 | |
| ин 14-mil | 15/11/24 | 0915 | cloudy | 0 | 0 | 2.21 | 20.6 | 23 | 1010 | |
| 1414-Bac | 18/11/24 | AN 01:43 | clandy | 9 | 0 | 0.01 | 20.7 | 23 | 1010 | |
| 1415-Bue | 15/11/24 | 10:10 | Cloudy | Ð | 0 | 0.02 | 20.6 | 23 | 1010 | |
| 1115-M2 | 18/11/24 | 10-40 | clouby | ð | 0 | 0.01 | 20.8 | 23 | 1010 | |
| MIG-Mid | 12/11/24 | 11:18 | donly | 0 | 0 | 0.01 | 10.7 | 23 | 1010 | |
| MM 16-13-2 | 11/124 | 11:45 | dondy | 0 | 0 | 0.01 | 206 | 23 | 1610 | |
| MAIT Base. | 15/11/24 | 12:28 | douby | 0 | 0 | 2.01 | 226 | 23 | 1010 | |

Prepared by field operator:

Checked by:

Name & Designation Signature Date Name , operator Alm 18/11/17 Tommy low 12m 3 18/11/17.





Appendix G

Waste Flow Table

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Contract No. 13/WSD/17 Environmental Management Plan for Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Appendix F - Monthly Summary Waste Flow Table

Name of Department: WSD

Contract No.: 13/WSD/17

| W | 1 | 4.4.10 | | | I | | | 134.41 | | | |
|-----------|-----------------------------|---|---------------------------|-----------------------------|----------------------------|---------------|--------------|----------------------------|-----------------------|------------------|--------------------------------|
| | | Actual Qua | ntities of Inert C&I | D Materials Generat | ed Monthly | | | Actual Quantities | s of C&D Wastes G | enerated Monthly | |
| Month | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics (see Note 3) | Chemical Waste | Others, e.g. general refuse |
| | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000 kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) |
| Jan | 4978.345 | 0.000 | 0.000 | 4667.745 | 310.600 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 77.800 |
| Feb | 22561.796 | 0.000 | 0.000 | 21883.006 | 678.790 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 53.480 |
| Mar | 81.140 | 0.000 | 0.000 | 0.000 | 81.140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 52.260 |
| Apr | 57.130 | 0.000 | 0.000 | 0.000 | 57.130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 47.390 |
| May | 91.370 | 0.000 | 0.000 | 0.000 | 91.370 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 77.260 |
| Jun | 61.590 | 0.000 | 0.000 | 0.000 | 61.590 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 59.320 |
| Sub-total | 27831.371 | 0.000 | 0.000 | 26550.751 | 1280.620 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 367.510 |
| Jul | 60378.440 | 0.000 | 0.000 | 0.000 | 60378.440 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 66.800 |
| Aug | 163.330 | 0.000 | 0.000 | 0.000 | 163.330 | 0.000 | 0.000 | 0.000 | 0.000 | 2.460 | 42.260 |
| Sep | 834.890 | 0.000 | 0.000 | 0.000 | 834.890 | 0.000 | 0.000 | 0.000 | 0.000 | 0.805 | 27.020 |
| Oct | 78.140 | 0.000 | 0.000 | 0.000 | 78.140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 71.810 |
| Nov | 237.790 | 0.000 | 0.000 | 0.000 | 237.790 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 62.300 |
| Dec | | | | | | | | | | | |
| Total | 89523.961 | 0.000 | 0.000 | 26550.751 | 62973.210 | 0.000 | 0.000 | 0.000 | 0.002 | 3.265 | 637.700 |

Monthly Summary Waste Flow Table for <u>2024</u> (year)

Notes:

(1) The performance targets are given in Section 1.69 of Specification B

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging material





Appendix H

Ecology (Coral) Survey Report

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1 INTRODUCTION

1.1 Background

- 1.1.1 The Project, Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (EP No. FEP – 01/503/2015/B) for the construction and operation of the Project.
- 1.1.2 The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading As AJC Joint Venture (AJCJV) is contracted to carry out the Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP) under Contract No. 13/WSD/17 (the Project).
- 1.1.3 Acuity Sustainability Consulting Limited (ASCL) is commissioned by AJCJV to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-192/2015) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Project; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements and Contract No. 13/WSD/17 Specification requirements.
- 1.1.4 The proposed Desalination Plant at Tseung Kwan O (TKODP) will produce potable water with an initial capacity of 135 million litres per day (MLD), expandable to an ultimate capacity of 270 MLD in the future to provide a secure and alternative fresh water resource complying with the World Health Organization (WHO) standards. The plant will adopt the Seawater Reverse Osmosis (SWRO) technology, which dominates the market due to its reliability and progressive reduction in cost as the technology advances.
- 1.1.5 A baseline coral survey was conducted in October 2023 to verify the validity of the pervious EIA findings as well as to provide updated coral data for impact monitoring during the construction and operation phases. Two indirect impact sites and one control site were identified during the baseline coral survey for impact monitoring.

2 Methodology

- 2.1 All tagged coral colonies in C2, C3 and C8 will be monitored monthly during the first year of Project operation. The monitoring team will record the following parameters (using the same methodology adopted during the pre-construction phase survey): size, presence, survival, health conditions (percentage of mortality) and percentage of sediment of each tagged coral colonies. The general environmental conditions during the survey date will also be monitored.
- 2.2 Photographic records of the tagged coral colonies will be taken as far as possible maintaining the same aspect and orientation as photographs taken for the pre-translocation surveys. All the tags for marking coral colonies will be removed / retrieved once the monitoring programme is completed.
- 2.3 The results of the operation phase monitoring surveys should be reviewed with reference to findings of the baseline survey.
- 2.4 If, during the operation phase monitoring, observations of any die-off / abnormal conditions of the tagged corals are made, the ET will inform the Contractor, Independent Environmental Checker (IEC)/ Environmental Project Office (ENPO), Agriculture, Fisheries and Conservation Department (AFCD) and in liaison with AFCD investigate any measures needed.

2.5 Monitoring result will be reviewed and be compared against the Action Level and Limit Level (AL/LL) as set out in Table 2-1. Actions specified on Table 2-2 will be taken by ET, IEC, SOR and Contractor shall there be exceedance of AL/LL

| | I ACTION and Limit Levels for Operation I hase C | or at Molintoning |
|-----------|--|--|
| Parameter | Action Level Definition | Limit Level Definition |
| Mortality | If during Impact Monitoring a 15% increase in | |
| | the percentage of partial mortality on the corals | increase in the percentage of partial |
| | occurs at more than 20% of the tagged indirect | mortality on the corals occurs at more than |
| | impact site coral colonies that is not recorded on | 20% of the tagged indirect impact site coral |
| | the tagged corals at the control site, then the | colonies that is not recorded on the tagged |
| | Action Level is exceeded | corals at the control site, then the Limit |
| | | Level is exceeded |

Table 2-1 Action and Limit Levels for Operation Phase Coral Monitoring

Note: If the defined Action Level or Limit Level for coral monitoring is exceeded, the actions as set out in Table 5-4 will be implemented.

| Event | Action | | | | | | | | | | |
|--------------|-----------|-------------------|----|---------------------|----|------------------|----|---------------------|--|--|--|
| Lvent | ET Leader | | | IEC | | SOR | | Contractor | | | |
| Action Level | 1. | Check monitoring | 1. | Discuss monitoring | 1. | Discuss with the | 1. | Inform the SOR | | | |
| Exceedance | | data | | with the ET and the | | IEC additional | | and confirm | | | |
| | 2. | Inform the IEC, | | Contractor; | | monitoring | | notification of the | | | |
| | | SOR and | 2. | Review proposals | | requirements | | non-compliance in | | | |
| | | Contractor of the | | for additional | | and any other | | writing; | | | |
| | | findings; | | monitoring and any | | measures | 2. | Discuss with the | | | |
| | 3. | Increase the | | other measures | | proposed by the | | ET and the IEC and | | | |
| | | monitoring to at | | submitted by the | | ET; | | propose measures | | | |
| | | least once a | | Contractor and | 2. | Make | | to the IEC and the | | | |
| | | month to confirm | | advise the SOR | | agreement on | | SOR; | | | |
| | | findings; | | accordingly. | | the measures to | 3. | Implement the | | | |
| | 4. | Propose | | | | be | | agreed measures. | | | |
| | | mitigation | | | | implemented. | | | | | |
| | | measures for | | | | | | | | | |
| | | consideration | | | | | | | | | |

Table 2-2 Event and Action Plan for Operation Phase Monitoring

Remark: ** The "SOR" is equivalent to the "ER" as defined in the EM&A Manual of the Project

3. Result

3.1 The November 2024 operation phase monitoring were performed on 11th November 2024 for both Indirect Impact Sites and Control Site (Figure 1 and 2); and the weather conditions were summarized in Table 3.1.

| Table 3.1 | Weather | r Condition for 1 | the November | : 2024 O |)peration l | Phase Monitoring | g |
|-----------|---------|-------------------|--------------|----------|-------------|------------------|---|
| | | | | | A | | - |

| Date | Condition | Average Underwater Visibility |
|-----------------------------------|---|----------------------------------|
| 11 th November 2024 | East force 4 to 5,Isolated showers | Less than 0.5 |

- 3.2 Ten (10) hard coral colonies in C2, C3 and C8 were monitored at each site of Control and Indirect Impact sites as suggested in the Operation Phase Monitoring Plan. The general health conditions (size, mortality, bleaching and sediment) were recorded and summarized in Table 3.2, Table 3.3 and Table 3.4 Photos of each tagged coral colonies were taken during the monitoring activities and shown in Appendix A (Photo Plate A, B and C).
- 3.3 All tagged coral colonies showed good health condition during the November 2024 Monitoring survey. There was not increased level of mortality, bleaching and sediment in other tagged coral colonies when compared with the baseline results.

| Tag # | Species | Size (cm) – Max. Diameter | Condition | Mortality (%) | | Bleaching (%) | | Sediment (%) | |
|-------|---------------------------|---------------------------------|-----------|---------------|--------|---------------|--------|--------------|--------|
| | | | | Baseline | 11-Nov | Baseline | 11-Nov | Baseline | 11-Nov |
| 1 | Favites pentagona | 66 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Porites lutea | 58 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | Plesiastrea versipora | 31 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Platygyra carnosus | 30 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | Acropora solitaryensis | 32 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Plesiastrea versipora | 27 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Porites lutea | 39 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Favites pentagona | 20 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | Platygyra carnosus | 26 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | Acropora solitaryensis | 28 | Good | 0 | 0 | 0 | 0 | 0 | 0 |

 Table 3.2 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral

 Colonies at Control Site C8 during November 2024 Coral Monitoring Survey

| Tag # | Species | Size (cm) – Max. Diameter | Condition | Mortal | ity (%) | Bleachi | ng (%) | Sedime | ent (%) |
|-------|---------------------------|---------------------------------|-----------|----------|---------|----------|--------|----------|---------|
| | | | | Baseline | 11-Nov | Baseline | 11-Nov | Baseline | 11-Nov |
| 1 | Porites lutea | 21 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Favites abdita | 43 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | Duncanopsammia peltata | 45 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Dipsastraea veroni | 20 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | Favites pentagona | 19 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Plesiastrea versipora | 21 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Dipsastraea rotumana | 21 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Dipsastraea speciosa | 20 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | Porites lutea | 37 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | Porites lutea | 38 | Good | 0 | 0 | 0 | 0 | 0 | 0 |

 Table 3.3 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral

 Colonies at Indirect Impact Site C2 during November 2024 Coral Monitoring Survey

| Table 3.4 Sizes, Condition, Mortality, Ble | aching and Sediment of 10 Natural Coral |
|--|---|
| Colonies at Indirect Impact Site C3 during N | November 2024 Coral Monitoring Survey |

| Tag # | Species | Size (cm) – Max. Diameter | Condition | Mortality (%) | | Mortality (%) Bleaching (% | |) Sediment (%) | |
|-------|---------------------------|---------------------------------|-----------|---------------|--------|----------------------------|--------|----------------|--------|
| | | | | Baseline | 11-Nov | Baseline | 11-Nov | Baseline | 11-Nov |
| 11 | Acropora solitaryensis | 37 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Platygyra carnosa | 30 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | Favites pentagona | 33 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | Platygyra carnosa | 22 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | Dipsastraea veroni | 20 | Fair | 0 | 0 | 0 | 0 | 0 | 0 |
| 16# | Favites flexuosa | 20 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Favites chinensis | 51 | Good | 0 | 0 | 0 | 0 | 0 | 0 |

| 18 | Plesiastrea versipora | 22 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
|----|---------------------------|----|------|---|---|---|---|---|---|
| 19 | Duncanopsammia peltata | 29 | Good | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | Platygyra carnosus | 23 | Good | 0 | 0 | 0 | 0 | 0 | 0 |

#newly tagged coral colony

4. Discussion and Conclusion

- 4.1 The November 2024 coral monitoring survey were carried out in the indirect impact area (C2 and C3) and control site (C8) on 11th November 2024. A total of 30 tagged coral colonies (10 at control site and 20 and two indirect impact sites) were monitored. All coral colonies were good in general.
- 4.2 No sediment, bleaching or increased mortality in the general condition of all other tagged coral colonies were observed during the monthly operation phase monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period. Photos of each tagged corals colonies were taken and shown in Appendix A (Photo Plates A, B and C).

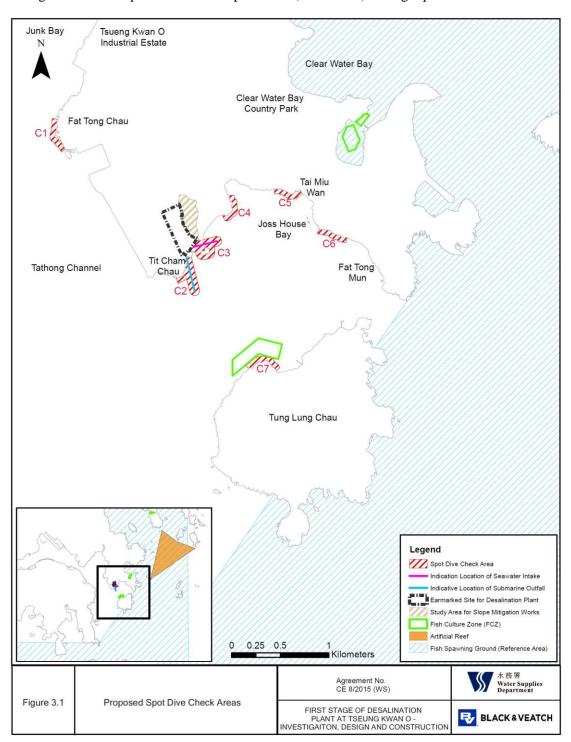


Figure 1 Two Proposed Indirect Impact Sites (C2 and C3) during Operation Phase

Figure 2 Proposed Control Site (C8) during Operation Phase

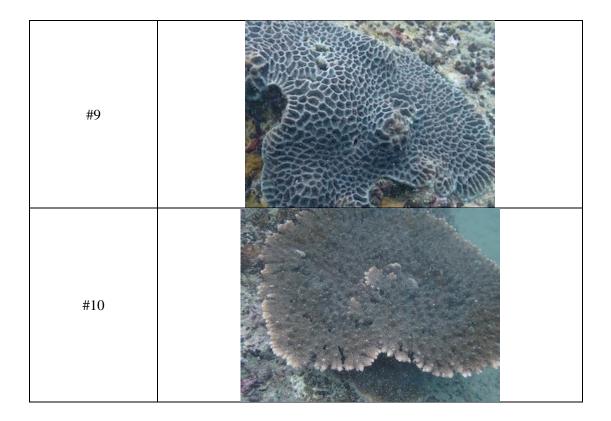


APPENDIX A TAGGED CORAL PHOTO

| Tag # | 11 th November 2024 |
|-------|--------------------------------|
| #1 | |
| #2 | |
| #3 | |
| #4 | |

Photo Plate A Tagged Corals at Control Site C8

| #5 | |
|----|--|
| | |
| #6 | |
| #7 | |
| #8 | |



| Tag # | 11 th November 2024 |
|-------|--------------------------------|
| #1 | |
| #2 | |
| #3 | |
| #4 | |

Photo Plate B Tagged Corals at Indirect Impact Site C2

| #5 | |
|----|--|
| #6 | |
| #7 | |
| #8 | |
| #9 | |

| #10 | |
|-----|--|
|-----|--|

| Tag # | 11 th November 2024 |
|-------|--------------------------------|
| #11 | |
| #12 | |
| #13 | |
| #14 | |

Photo Plate C Tagged Corals at Indirect Impact Site C3

| #15 | |
|-----|--|
| #16 | |
| #17 | |
| #18 | |

| #19 | |
|-----|--|
| #20 | |

THE END





Appendix I

Site Inspection Proforma

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Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspect | ion Date:0 | 5/11/2024 Inspected by: ET: Toby Wan | SO:Derek Lai WSD: |
|-------------------------------|-----------------------|---|--------------------------|
| Inspect | ion Time:1 | 4:30 Contractor: <u>Tommy Law</u> | IEC: |
| Weath | er | | |
| Condition Sunny Fine | | Sunny Fine Overcast Drizzle Rain | Storm |
| Temperature 26 ⁰ C | | 26 ⁰ C Humidity √ High Moderate | Low |
| Wind | | Calm Light Breeze Strong | |
| Item | | | |
| No. | EIA ref. | | N/A Yes No Photo/Remarks |
| 0.00 | General | | |
| 0.01 | | | |
| | | entrances/exits for public's information at any time? | |
| 0.02 | | Is ET Leader's log-book kept readily available for inspections? | |
| 1.00 | Air Qualit | y y | |
| 1.01 | S4.8.2 | Is the the treatment and storage of the chemical sludge enclosed inside building | |
| | | structure? | |
| 1.02 | S4.8.2 | Is the sludge treatment equipped Forced ventilation system with sufficient air | |
| 1.02 | a 4 a a | change rate? | |
| 1.03 | S4.8.2 | Is the exhaust discharge directed away from ASRs as far as practicable? | |
| 1.04 | S4.8.2 | Is the chemical sludge produced at the desalination plant removed off-site regularly | |
| | | to avoid accumulation of potentially odourous materials on site? | |
| 1.05 | S4.8.2 | Is dewatered sludge to landfill handled and transported properly to minimise odour | |
| | | nuisance to nearby ASRs? | |
| 1.06 | S4.8.2 | Are the trucks fully enclosed during transporting the dewatered sludge to the | |
| 2.00 | Weste Me | landfill to minimise any off-site odour impact during the transportation process? | |
| 2.00 | Waste Mar | | |
| 2.02 | S8.5.2 | Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? | |
| 2.03 | S8.5.2 | Is a trip-ticket system implemented to monitor the disposal of solid wastes at | |
| | | public filling facilities and landfills? | |
| 2.04 | S8.5.2 | Is the Contractor registered as a chemical waste producer? | |
| 2.05 | S8.5.2 | Is chemical waste separated from other waste and collected by a licensed chemical | |
| | | waste collector? | |
| 2.06 | S8.5.2 | Are trip tickets for chemical waste disposal available for inspection? | |
| 2.07 | S8.5.2 | Is drip tray provided for chemical storage? | |
| 2.08 | S8.5.2 | Are all containers for chemical waste properly labelled? | |
| 2.09 | S8.5.2 | Is chemical waste storage area used solely for storage of chemical waste and | |
| | | properly labelled? | |





Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|-------------------|--|--------------|--------------|--------|---------------|
| 2.10 | \$8.5.2 | Are incompatible chemical wastes stored in different areas? | | \checkmark | | |
| 2.11 | \$8.5.2 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | | ✓ | | |
| 2.12 | S8.5.2 | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? | | ✓ | | |
| 2.13 | \$8.5.2 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | | \checkmark | | |
| 2.14 | \$8.5.2 | Are sufficient general refuse disposal/collection points provided on site? | | \checkmark | | |
| 2.15 | \$8.5.2 | Is general refuse disposed of properly and regularly? | | \checkmark | | |
| 2.16 | S8.5.2 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | | ✓ | | |
| 2.17 | S8.5.2 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | | ✓ | | |
| 2.18 | S8.5.2 | Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills? | | \checkmark | | |
| 2.19 | \$8.5.2 | Is a dumping license obtained to deliver public fill to public filling areas? | ✓ | \Box | \Box | |
| 3.00 | Landscape | e and Visual | | | | |
| 3.01 | S11.10 & 11.11 | Are Is site hoarding provided? | | \checkmark | | |
| 3.02 | S11.10 & 11.11 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | | \checkmark | | |
| 3.03 | S11.10 & 11.11 | Is construction light oriented away from the sensitive receivers? | | \checkmark | | |
| 3.04 | S11.10 & 11.11 | Is grass hydroseeding provided to slopes as soon as the completion of works? | | ✓ | | |
| 3.05 | S11.10 & 11.11 | Are damages to trees outside site boundary due construction works avoided? | | ✓ | | |
| 3.06 | S11.10 & 11.11 | Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | ✓ | | | |
| 3.07 | S11.10 & 11.11 | Are the retained and transplanted tree(s) properly protected and in good conditions? | | ✓ | | |
| 3.08 | S11.10 & 11.11 | Are surgery works carried out for damaged trees? | \checkmark | | | |
| 4.00 | | Landfill Gas Hazard | | | | |
| 4.01 | S12.7 | Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works? | | \checkmark | | |
| 4.02 | S12.7 | Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces? | | ✓ | | |
| 4.03 | S12.7 | Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers? | | ✓ | | |





| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|----------|---|----------------------|--------------|----|---------------|
| 4.04 | S12.7 | Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade? | | \checkmark | | |
| 4.05 | S12.7 | Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact? | | \checkmark | | |
| 4.06 | S12.7 | Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces? | ✓ | | | |
| 4.07 | S12.7 | Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented? | ✓ | | | |
| 4.08 | S12.7 | Is the drilling proceeded with adequate care and precautions against the potential hazards? | | \checkmark | | |
| 4.09 | S12.7 | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works? | \checkmark | | | |
| 4.10 | S12.7 | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches? | | \checkmark | | |
| 4.11 | S12.7 | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? | | | | |
| 4.12 | S12.7 | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places? | | 1 | | |
| 5.00 | | Overall | | | | |
| 5.01 | | Is the EM&A properly implemented in general? | | \checkmark | | |





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date = 5 Nov 2024 No major observation was femd during site inspection. Signatures: EΤ Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: Dev (Name: Toby War (Name: (Name:) (Name:) 4

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WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspect | ion Date: <u>1</u> | | so:Derek Lai WSD: |
|-------------|--------------------|---|--------------------------|
| Inspect | ion Time:1 | 4:30 Contractor: <u>Tommy Law</u> | IEC: |
| Weath | er | | |
| Condi | tion | Sunny Fine Overcast Drizzle Rain | Storm Hazy |
| Tempe | erature | 24.8 ⁰ C Humidity ✓ High Moderate | Low |
| Wind | | Calm Light Breeze Strong | |
| Item No. | EIA ref. | | N/A Yes No Photo/Remarks |
| 0.00 | General | | |
| 0.01 | | Is the current Environmental Permit displayed conspicuously at all vehicle site | |
| | | entrances/exits for public's information at any time? | |
| 0.02 | | Is ET Leader's log-book kept readily available for inspections? | |
| 1.00 | Air Qualit | y | |
| 1.01 | S4.8.2 | Is the the treatment and storage of the chemical sludge enclosed inside building | |
| | | structure? | |
| 1.02 | S4.8.2 | Is the sludge treatment equipped Forced ventilation system with sufficient air | |
| | | change rate? | |
| 1.03 | S4.8.2 | Is the exhaust discharge directed away from ASRs as far as practicable? | |
| 1.04 | S4.8.2 | Is the chemical sludge produced at the desalination plant removed off-site regularly | |
| | | to avoid accumulation of potentially odourous materials on site? | |
| 1.05 | S4.8.2 | Is dewatered sludge to landfill handled and transported properly to minimise odour | |
| | | nuisance to nearby ASRs? | |
| 1.06 | S4.8.2 | Are the trucks fully enclosed during transporting the dewatered sludge to the landfill to minimise any off-site odour impact during the transportation process? | |
| 2.00 | Waste Ma | | |
| 2.00 | \$8.5.2 | Is a recording system implemented to record the amount of wastes generated, | |
| 2.02 | 50.5.2 | recycled and disposed of? | |
| 2.03 | S8.5.2 | Is a trip-ticket system implemented to monitor the disposal of solid wastes at public filling facilities and landfills? | |
| 2.04 | S8.5.2 | Is the Contractor registered as a chemical waste producer? | |
| | | | |
| 2.05 | S8.5.2 | Is chemical waste separated from other waste and collected by a licensed chemical waste collector? | |
| 2.06 | S8.5.2 | Are trip tickets for chemical waste disposal available for inspection? | |
| 2.07 | S8.5.2 | Is drip tray provided for chemical storage? | |
| 2.08 | S8.5.2 | Are all containers for chemical waste properly labelled? | |
| 2.09 | S8.5.2 | Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | |
| 1 | 1 | Property moented. | |





| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|-------------------|--|-----|--------------|----|---------------|
| 2.10 | S8.5.2 | Are incompatible chemical wastes stored in different areas? | | \checkmark | | |
| 2.11 | \$8.5.2 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | | \checkmark | | |
| 2.12 | S8.5.2 | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? | | ✓ | | |
| 2.13 | \$8.5.2 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | | \checkmark | | |
| 2.14 | \$8.5.2 | Are sufficient general refuse disposal/collection points provided on site? | | \checkmark | | |
| 2.15 | \$8.5.2 | Is general refuse disposed of properly and regularly? | | \checkmark | | |
| 2.16 | \$8.5.2 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | | ✓ | | |
| 2.17 | \$8.5.2 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | | ✓ | | |
| 2.18 | \$8.5.2 | Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills? | | \checkmark | | |
| 2.19 | \$8.5.2 | Is a dumping license obtained to deliver public fill to public filling areas? | ✓ | | | |
| 3.00 | Landscape | e and Visual | | | | |
| 3.01 | S11.10 & 11.11 | Are Is site hoarding provided? | | \checkmark | | |
| 3.02 | S11.10 & 11.11 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | | \checkmark | | |
| 3.03 | S11.10 & 11.11 | Is construction light oriented away from the sensitive receivers? | | \checkmark | | |
| 3.04 | S11.10 & 11.11 | Is grass hydroseeding provided to slopes as soon as the completion of works? | | ✓ | | |
| 3.05 | S11.10 & 11.11 | Are damages to trees outside site boundary due construction works avoided? | | \checkmark | | |
| 3.06 | S11.10 & 11.11 | Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | ✓ | | | |
| 3.07 | S11.10 & 11.11 | Are the retained and transplanted tree(s) properly protected and in good conditions? | | √ | | |
| 3.08 | S11.10 & 11.11 | Are surgery works carried out for damaged trees? | ✓ | | | |
| 4.00 | | Landfill Gas Hazard | | | | |
| 4.01 | S12.7 | Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works? | | \checkmark | | |
| 4.02 | S12.7 | Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces? | | \checkmark | | |
| 4.03 | S12.7 | Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers? | | ✓ | | |





| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|----------|---|----------------------|--------------|----|---------------|
| 4.04 | S12.7 | Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade? | | \checkmark | | |
| 4.05 | S12.7 | Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact? | | \checkmark | | |
| 4.06 | S12.7 | Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces? | ✓ | | | |
| 4.07 | S12.7 | Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented? | ✓ | | | |
| 4.08 | S12.7 | Is the drilling proceeded with adequate care and precautions against the potential hazards? | | \checkmark | | |
| 4.09 | S12.7 | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works? | \checkmark | | | |
| 4.10 | S12.7 | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches? | | \checkmark | | |
| 4.11 | S12.7 | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? | | | | |
| 4.12 | S12.7 | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places? | | 1 | | |
| 5.00 | | Overall | | | | |
| 5.01 | | Is the EM&A properly implemented in general? | | \checkmark | | |





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date : 14 Nov 2024 No major observation was formal during site inspection. Signatures: ЕΤ Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: Toby Wan) (Name: They hav) (Name Devel-(Name:) (Name: -))





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Internet 09:30 INTERNET INTERNET INTERNET INTERNET INTERNET INTERNET. Valuation Constitue Operation INTERNET. Constitue Operation INTERNET. Constitue Operation Internet. Constitue Operation Constitue Constitue Operation Constitue Constitue <th colspan="2" constitue<<="" th=""><th>Inspect</th><th>ion Date:1</th><th>8/11/2024 Inspected by: ET: Toby Wan</th><th></th><th>rek Lai</th><th> WSD</th><th>:</th></th> | <th>Inspect</th> <th>ion Date:1</th> <th>8/11/2024 Inspected by: ET: Toby Wan</th> <th></th> <th>rek Lai</th> <th> WSD</th> <th>:</th> | | Inspect | ion Date:1 | 8/11/2024 Inspected by: ET: Toby Wan | | rek Lai | WSD | : |
|--|--|------------|---|--------------|--------------------------------------|-----|---------------|-----|---|
| Condition Image: Surger Surger Image: Surger Surger Surger Surger Image: Surger | Inspect | ion Time:0 | 9:30 Contractor: <u>Tommy Law</u> | IEC: | | | | | |
| Temperature 24.2 C Humility is_ght Monore Wind 3.am j.ght Nerson Swreg Item NA Yes No Photo/Remarks 000 General | Weath | er | | | | | | | |
| With Date Jusce Decorg Inc. Is Arcf. N/A Yes No Photo/Remarks 0.00 General Image: Second | Condi | tion | Sunny Fine Overcast Drizzle Rain | Storm | Ha | azy | | | |
| Item N/A Yes No Photo/Remarks 0.00 General Item Is the current Environmental Permit displayed conspicuously at all vehicle site Image: Constraint of the environmental Permit displayed conspicuously at all vehicle site Image: Constraint of the environmental Permit displayed conspicuously at all vehicle site 0.01 Is the current Environmental Permit displayed conspicuously at all vehicle site Image: Constraint of the environmental Permit displayed conspicuously at all vehicle site Image: Constraint of the environmental Permit displayed conspicuously at all vehicle site 0.02 Is ET Lander's log-book kept readily available for inspections? Image: Constraint of the environmental Permit displayed conspicuously at all vehicle site Image: Constraint of the environmental Permit displayed conspicuously at all vehicle site 1.04 Air Quality Image: rate? Image: Constraint of the chemical sludge enclosed inside building structure? Image: Constraint of the chemical sludge enclosed inside building structure? Image: Constraint of the environmental Permit displayed constraint on site? 1.05 S4.8.2 Is the chemical sludge produced at the desalination plant removed off-site regularly or image: Constraint of potentially odourous materials on site? Image: Constraint on the environmental Permit displayed constraint on process? 1.05 S4.8.2 Is the chemical sludge to and the desalination plant removed off-site regularly or image: Constand reg | Tempe | erature | 24.2 ^o C Humidity ✓ High Moderate | Low | | | | | |
| No. EA set. N/A Yes No Photo/Remarks 000 General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? Image: Constraint of the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? Image: Constraint of the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? Image: Constraint of the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? Image: Constraint of the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? Image: Constraint of the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? Image: Constraint of the current Environmental Permit displayed conspicuously at all vehicle site environmental Permit displayed conspicuously at all vehicle environmentedity displayed peronet envicel display envi | Wind | | Calm Light Breeze Strong | | | | | | |
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| Iandfill to minimise any off-site odour impact during the transportation process? Image: | | | | | v | | | | |
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| 2.04 S8.5.2 Is the Contractor registered as a chemical waste producer? Image: separated from other waste and collected by a licensed chemical waste collector? 2.05 S8.5.2 Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Image: separated from other waste and collected by a licensed chemical waste collector? 2.06 S8.5.2 Are trip tickets for chemical waste disposal available for inspection? Image: separated from other waste and collected by a licensed chemical waste disposal available for inspection? 2.07 S8.5.2 Is drip tray provided for chemical storage? Image: separated from other waste properly labelled? 2.08 S8.5.2 Are all containers for chemical waste properly labelled? Image: separate and solely for storage of chemical waste and 2.09 S8.5.2 Is chemical waste storage area used solely for storage of chemical waste and Image: separate and solely for storage of chemical waste and | 2.03 | S8.5.2 | Is a trip-ticket system implemented to monitor the disposal of solid wastes at | | | | | | |
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| waste collector? Image: Collector? 2.06 \$8.5.2 Are trip tickets for chemical waste disposal available for inspection? 2.07 \$8.5.2 Is drip tray provided for chemical storage? 2.08 \$8.5.2 Are all containers for chemical waste properly labelled? 2.09 \$8.5.2 Is chemical waste storage area used solely for storage of chemical waste and | 2.04 | S8.5.2 | Is the Contractor registered as a chemical waste producer? | | \checkmark | | | | |
| 2.06 S8.5.2 Are trip tickets for chemical waste disposal available for inspection? Image: Constraint of the sector of the | 2.05 | S8.5.2 | Is chemical waste separated from other waste and collected by a licensed chemical | | | | | | |
| 2.07 S8.5.2 Is drip tray provided for chemical storage? 2.08 S8.5.2 Are all containers for chemical waste properly labelled? 2.09 S8.5.2 Is chemical waste storage area used solely for storage of chemical waste and | | | waste collector? | | \checkmark | | | | |
| 2.08 S8.5.2 Are all containers for chemical waste properly labelled? Image: Container of the storage and the storage of the storage of the storage and the storage of the storage of the storage of the storage and the storage of the storage of the storage and the storage of the storage of the storage and the storage and the storage of the storage of the storage and the storage of the storage of the storage and the storage and the storage and the storage and the storage of the storage of the storage and the storage of the storage of the storage of the storage and the storage of the storage of the storage and the storage and the storage and the storage of the storage of the storage of the storage and storage and the storage of the storage of the storage and the storage and st | 2.06 | S8.5.2 | Are trip tickets for chemical waste disposal available for inspection? | ✓ | | | | | |
| 2.09 S8.5.2 Is chemical waste storage area used solely for storage of chemical waste and ✓ | 2.07 | S8.5.2 | Is drip tray provided for chemical storage? | | \checkmark | | | | |
| | 2.08 | S8.5.2 | Are all containers for chemical waste properly labelled? | | | | | | |
| | | | | | V | | | | |
| | 2.09 | \$8.5.2 | | | \checkmark | | | | |





| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|-------------------|--|-----|--------------|----|---------------|
| 2.10 | S8.5.2 | Are incompatible chemical wastes stored in different areas? | | ✓ | | |
| 2.11 | \$8.5.2 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | | \checkmark | | |
| 2.12 | S8.5.2 | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? | | ✓ | | |
| 2.13 | \$8.5.2 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | | \checkmark | | |
| 2.14 | \$8.5.2 | Are sufficient general refuse disposal/collection points provided on site? | | \checkmark | | |
| 2.15 | \$8.5.2 | Is general refuse disposed of properly and regularly? | | \checkmark | | |
| 2.16 | \$8.5.2 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | | ✓ | | |
| 2.17 | \$8.5.2 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | | ✓ | | |
| 2.18 | \$8.5.2 | Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills? | | \checkmark | | |
| 2.19 | \$8.5.2 | Is a dumping license obtained to deliver public fill to public filling areas? | ✓ | | | |
| 3.00 | Landscape | e and Visual | | | | |
| 3.01 | S11.10 & 11.11 | Are Is site hoarding provided? | | \checkmark | | |
| 3.02 | S11.10 & 11.11 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | | \checkmark | | |
| 3.03 | S11.10 & 11.11 | Is construction light oriented away from the sensitive receivers? | | \checkmark | | |
| 3.04 | S11.10 & 11.11 | Is grass hydroseeding provided to slopes as soon as the completion of works? | | ✓ | | |
| 3.05 | S11.10 & 11.11 | Are damages to trees outside site boundary due construction works avoided? | | \checkmark | | |
| 3.06 | S11.10 & 11.11 | Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | ✓ | | | |
| 3.07 | S11.10 & 11.11 | Are the retained and transplanted tree(s) properly protected and in good conditions? | | √ | | |
| 3.08 | S11.10 & 11.11 | Are surgery works carried out for damaged trees? | ✓ | | | |
| 4.00 | | Landfill Gas Hazard | | | | |
| 4.01 | S12.7 | Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works? | | \checkmark | | |
| 4.02 | S12.7 | Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces? | | \checkmark | | |
| 4.03 | S12.7 | Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers? | | ✓ | | |





| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|----------|---|----------------------|--------------|----|---------------|
| 4.04 | S12.7 | Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade? | | \checkmark | | |
| 4.05 | S12.7 | Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact? | | \checkmark | | |
| 4.06 | S12.7 | Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces? | ✓ | | | |
| 4.07 | S12.7 | Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented? | ✓ | | | |
| 4.08 | S12.7 | Is the drilling proceeded with adequate care and precautions against the potential hazards? | | \checkmark | | |
| 4.09 | S12.7 | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works? | \checkmark | | | |
| 4.10 | S12.7 | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches? | | \checkmark | | |
| 4.11 | S12.7 | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? | | | | |
| 4.12 | S12.7 | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places? | | 1 | | |
| 5.00 | | Overall | | | | |
| 5.01 | | Is the EM&A properly implemented in general? | | \checkmark | | |





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date = 18 Nov 2024. No major observation was found duiry site inspection. Signatures: EΤ Contractor's Supervising Officers IEC's WSD's Representative Representative Representative Representative Representative (Name: Toby Wan) (Name: Let (Name: \mathcal{L} Im (Name:) (Name:)





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspect | ion Date:2 | 6/11/2024 Inspected by: ET: Toby Wan | | | rek Lai | | : W. P. Ho |
|---------|---------------------------------|---|---------|----------------|--------------|-----|---------------|
| Inspect | ion Time: _ 0 | 9:15 Contractor: <u>Tommy Law</u> | | IEC: <u>Se</u> | rena Shek | | |
| Weath | er | | | | | | |
| Condi | tion | Sunny Fine Overcast Drizzle Rain | | Storm | Ha | azy | |
| Tempo | erature | 20 ⁰ C Humidity √ High Mode | erate | Low | | | |
| Wind | | Calm Light Breeze Strong | | | | | |
| Item | | | | | | | |
| No. | EIA ref. | | | N/A | Yes | No | Photo/Remarks |
| 0.00 | General | | | | | | |
| 0.01 | | Is the current Environmental Permit displayed conspicuously at all vehicle si | ite | | | | |
| | | entrances/exits for public's information at any time? | | | V | | |
| 0.02 | | Is ET Leader's log-book kept readily available for inspections? | | | \checkmark | | |
| 1.00 | Air Qualit | y | | | | | |
| 1.01 | S4.8.2 | Is the the treatment and storage of the chemical sludge enclosed inside build | ing | | | | |
| | | structure? | | | V | | |
| 1.02 | S4.8.2 | Is the sludge treatment equipped Forced ventilation system with sufficient | ent air | | | | |
| | | change rate? | | <u> </u> | | | |
| 1.03 | S4.8.2 | Is the exhaust discharge directed away from ASRs as far as practicable? | | | \checkmark | | |
| 1.04 | S4.8.2 | Is the chemical sludge produced at the desalination plant removed off-site re | gularly | | | | |
| | | to avoid accumulation of potentially odourous materials on site? | | | v | | |
| 1.05 | S4.8.2 | Is dewatered sludge to landfill handled and transported properly to minimise | e odour | | | | |
| | | nuisance to nearby ASRs? | | | \checkmark | | |
| 1.06 | S4.8.2 | Are the trucks fully enclosed during transporting the dewatered sludge to the | | | \checkmark | | |
| 2.00 | XX 7 4 X <i>4</i> | landfill to minimise any off-site odour impact during the transportation proce | ess? | | | | |
| 2.00 | Waste Mar | - | | | | | |
| 2.02 | S8.5.2 | Is a recording system implemented to record the amount of wastes generated recycled and disposed of? | 1, | | \checkmark | | |
| 2.03 | S8.5.2 | Is a trip-ticket system implemented to monitor the disposal of solid was | stes at | | | | |
| | | public filling facilities and landfills? | | \checkmark | | | |
| 2.04 | S8.5.2 | Is the Contractor registered as a chemical waste producer? | | | \checkmark | | |
| 2.05 | S8.5.2 | Is chemical waste separated from other waste and collected by a licensed che | emical | | | | |
| | | waste collector? | | | V | | |
| | S8.5.2 | Are trip tickets for chemical waste disposal available for inspection? | | \checkmark | | | |
| 2.07 | S8.5.2 | Is drip tray provided for chemical storage? | | | \checkmark | | |
| 2.08 | S8.5.2 | Are all containers for chemical waste properly labelled? | | | \checkmark | | |
| 2.09 | S8.5.2 | Is chemical waste storage area used solely for storage of chemical waste and | l | | | | |
| | | properly labelled? | | | ✓ | | |





| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|-------------------|--|-----|--------------|----|---------------|
| 2.10 | S8.5.2 | Are incompatible chemical wastes stored in different areas? | | \checkmark | | |
| 2.11 | \$8.5.2 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | | \checkmark | | |
| 2.12 | S8.5.2 | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? | | ✓ | | |
| 2.13 | \$8.5.2 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | | \checkmark | | |
| 2.14 | \$8.5.2 | Are sufficient general refuse disposal/collection points provided on site? | | \checkmark | | |
| 2.15 | \$8.5.2 | Is general refuse disposed of properly and regularly? | | \checkmark | | |
| 2.16 | \$8.5.2 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | | ✓ | | |
| 2.17 | \$8.5.2 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | | ✓ | | |
| 2.18 | \$8.5.2 | Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills? | | \checkmark | | |
| 2.19 | \$8.5.2 | Is a dumping license obtained to deliver public fill to public filling areas? | ✓ | | | |
| 3.00 | Landscape | e and Visual | | | | |
| 3.01 | S11.10 & 11.11 | Are Is site hoarding provided? | | \checkmark | | |
| 3.02 | S11.10 & 11.11 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | | \checkmark | | |
| 3.03 | S11.10 & 11.11 | Is construction light oriented away from the sensitive receivers? | | \checkmark | | |
| 3.04 | S11.10 & 11.11 | Is grass hydroseeding provided to slopes as soon as the completion of works? | | ✓ | | |
| 3.05 | S11.10 & 11.11 | Are damages to trees outside site boundary due construction works avoided? | | \checkmark | | |
| 3.06 | S11.10 & 11.11 | Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | ✓ | | | |
| 3.07 | S11.10 & 11.11 | Are the retained and transplanted tree(s) properly protected and in good conditions? | | √ | | |
| 3.08 | S11.10 & 11.11 | Are surgery works carried out for damaged trees? | ✓ | | | |
| 4.00 | | Landfill Gas Hazard | | | | |
| 4.01 | S12.7 | Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works? | | \checkmark | | |
| 4.02 | S12.7 | Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces? | | \checkmark | | |
| 4.03 | S12.7 | Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers? | | ✓ | | |





| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|----------|---|----------------------|--------------|----|---------------|
| 4.04 | S12.7 | Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade? | | \checkmark | | |
| 4.05 | S12.7 | Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact? | | \checkmark | | |
| 4.06 | S12.7 | Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces? | ✓ | | | |
| 4.07 | S12.7 | Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented? | ✓ | | | |
| 4.08 | S12.7 | Is the drilling proceeded with adequate care and precautions against the potential hazards? | | \checkmark | | |
| 4.09 | S12.7 | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works? | \checkmark | | | |
| 4.10 | S12.7 | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches? | | \checkmark | | |
| 4.11 | S12.7 | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? | | | | |
| 4.12 | S12.7 | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places? | | 1 | | |
| 5.00 | | Overall | | | | |
| 5.01 | | Is the EM&A properly implemented in general? | | \checkmark | | |





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date: 26 Nov 2024 No major observation was found during site inspection --Signatures: ΕT Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative \ Representative Representative V (Name:40W (Name: Jonghan) (Name: Serena Shek) (Name: (Name: 7.h





Appendix J

Complaint Log

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Statistical Summary of Environmental Complaints

| | En | vironmental Complai | nt Statistics |
|------------------|-----------|---------------------|------------------|
| Reporting Period | Frequency | Cumulative | Complaint Nature |
| 1 - 30 Nov 2024 | 0 | 2 | N/A |

Statistical Summary of Environmental Summons

| Demonting Devia d | E | nvironmental Summons | Statistics |
|-------------------|-----------|----------------------|------------|
| Reporting Period | Frequency | Cumulative | Details |
| 1 - 30 Nov 2024 | 0 | 0 | N/A |

Statistical Summary of Environmental Prosecution

| Descenting Desired | Environmental Prosecution Statistics | | | | | | | |
|--------------------|--------------------------------------|------------|---------|--|--|--|--|--|
| Reporting Period | Frequency | Cumulative | Details | | | | | |
| 1 - 30 Nov 2024 | 0 | 0 | N/A | | | | | |

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Appendix K

Exceedance Report (s)

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Bi-Weekly Incident Report on Action Level or Limit Level Non-Compliance

| Date of | T | | Parameter | Measurement Result | Sampling | Depth Average Result | Action Level (mg/L) | | Limit Level (mg/L) | | Exceedance | Marine construction activities with | Exceedance related to | Reasons of non-project related exceedance | | | | | | |
|------------|--------------------|-------------------------|-------------------------|-----------------------|----------|-------------------------|------------------------|-----------------|-----------------------|-----------------|--------------|-------------------------------------|-----------------------|--|-----|-----|-----|-----|-----|--|
| exceedance | Station | | | (mg/L) | depth | (mg/L) | 95%- ile | Control 120% | 99%- ile | Control 130% | | contact with water (Y/N) | Project (Y/N) | (1) (2) | (3) | (4) | (5) | (6) | (7) | |
| | WSR2 | Ebb | Suspended Solid (SS) | | | 4.67 | 5.00 | 4.30 | 6.00 | 4.66 | Action Level | Ν | Ν | ✓ | | | ~ | ~ | ~ | |
| | WSR4 | Ebb | Suspended Solid (SS) | | | 5.17 | 5.00 | 4.30 | 6.00 | 4.66 | Limit Level | Ν | Ν | ~ | | | ~ | ✓ | ~ | |
| | WSR16 | Ebb | Suspended Solid (SS) | | | 6.17 | 5.00 | 4.30 | 6.00 | 4.66 | Limit Level | Ν | Ν | ~ | | | ~ | ✓ | ~ | |
| 02/11/2024 | WSR33 | Ebb | Suspended Solid (SS) | | | 6.17 | 5.00 | 4.30 | 6.00 | 4.66 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | > | |
| 02/11/2024 | WSR36 | Ebb | Suspended Solid (SS) | | | 7.00 | 5.00 | 4.30 | 6.00 | 4.66 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | WSR37 | Ebb | Suspended Solid (SS) | | | 7.33 | 5.00 | 4.30 | 6.00 | 4.66 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | NF1 Ebb NF2 Ebb | Ebb | Suspended Solid (SS) | | | 4.83 | 5.00 | 4.30 | 6.00 | 4.66 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | | Suspended Solid (SS) | | | 4.75 | 5.00 | 4.30 | 6.00 | 4.66 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | | |
| | WSR2 | Flood | Suspended Solid (SS) | | | 4.83 | 5.00 | 3.50 | 6.00 | 3.79 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | WSR3 | Flood | Suspended Solid (SS) | | | 3.58 | 5.00 | 3.50 | 6.00 | 3.79 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | WSR4 | Flood | Suspended Solid (SS) | | | 3.83 | 5.00 | 3.50 | 6.00 | 3.79 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| 05/11/2024 | WSR16 | Flood | Suspended Solid (SS) | | | 4.58 | 5.00 | 3.50 | 6.00 | 3.79 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | WSR37 | Flood | Suspended Solid (SS) | | | 4.33 | 5.00 | 3.50 | 6.00 | 3.79 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | NF1 | Flood | Suspended Solid (SS) | | | 3.50 | 5.00 | 3.50 | 6.00 | 3.79 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | NF2 | Flood | Suspended Solid (SS) | | | 4.42 | 5.00 | 3.50 | 6.00 | 3.79 | Limit Level | N | Ν | ~ | | | ~ | ~ | ~ | |
| | WSR4 | Ebb | Suspended Solid (SS) | | | 3.75 | 5.00 | 3.60 | 6.00 | 3.9 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | WSR16 | Ebb | Suspended Solid (SS) | | | 4.08 | 5.00 | 3.60 | 6.00 | 3.9 | Limit Level | Ν | Ν | ~ | | | ~ | ✓ | ~ | |
| 7/11/2024 | WSR33 | Ebb | Suspended Solid (SS) | | | 4.42 | 5.00 | 3.60 | 6.00 | 3.9 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | WSR36 | Ebb | Suspended Solid (SS) | | | 4.75 | 5.00 | 3.60 | 6.00 | 3.9 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| | WSR37 | Ebb | Suspended Solid (SS) | | | 3.75 | 5.00 | 3.60 | 6.00 | 3.9 | Limit Level | Ν | Ν | ~ | | | ~ | ~ | ~ | |
| 9/11/2024 | WSR37 | Ebb | Suspended Solid (SS) | | | 3.42 | 5.00 | 3.40 | 6.00 | 3.68 | Limit Level | Ν | Ν | ✓ | ~ | | ~ | ~ | ~ | |

1) Control station value already exceed either the Action or Limit Level.

2) No silt plume or pollution discharge from site area was observed.

3) Rainfall was recorded at Tseung Kwan O during the monitoring period, rainfall may lead to release of SS content form the soil of the nearby lands (e.g., Country Park, fill bank).

4) No action and limit level exceedance observed at WSR37 (Outfall Shaft).

5) Marine construction activity was completed.

6) No operation activities related to the release of SS in the reporting period.

7) No exceedances of SS at S.P.1 in the daily continuous effluent monitoring.

Conclusion:

During water quality monitoring on 2, 5, 7, 9 and 12 November 2024, seven (7) Limit Level exceedances were recorded during mid-flood tide and one (1) Action Level and thirteen (13) Limit Level exceedances were recorded during mid-ebb. Total one (1) Action Level and twenty (20) Limit Level exceedances for SS of impact water quality monitoring were recorded between 1 November 2024.

The marine construction works were completed on 1 September 2023. The commissioning activities were shown in the table below.





The desalination plant and the outfall shaft work normally.

After investigation, all exceedances were considered non-project related.

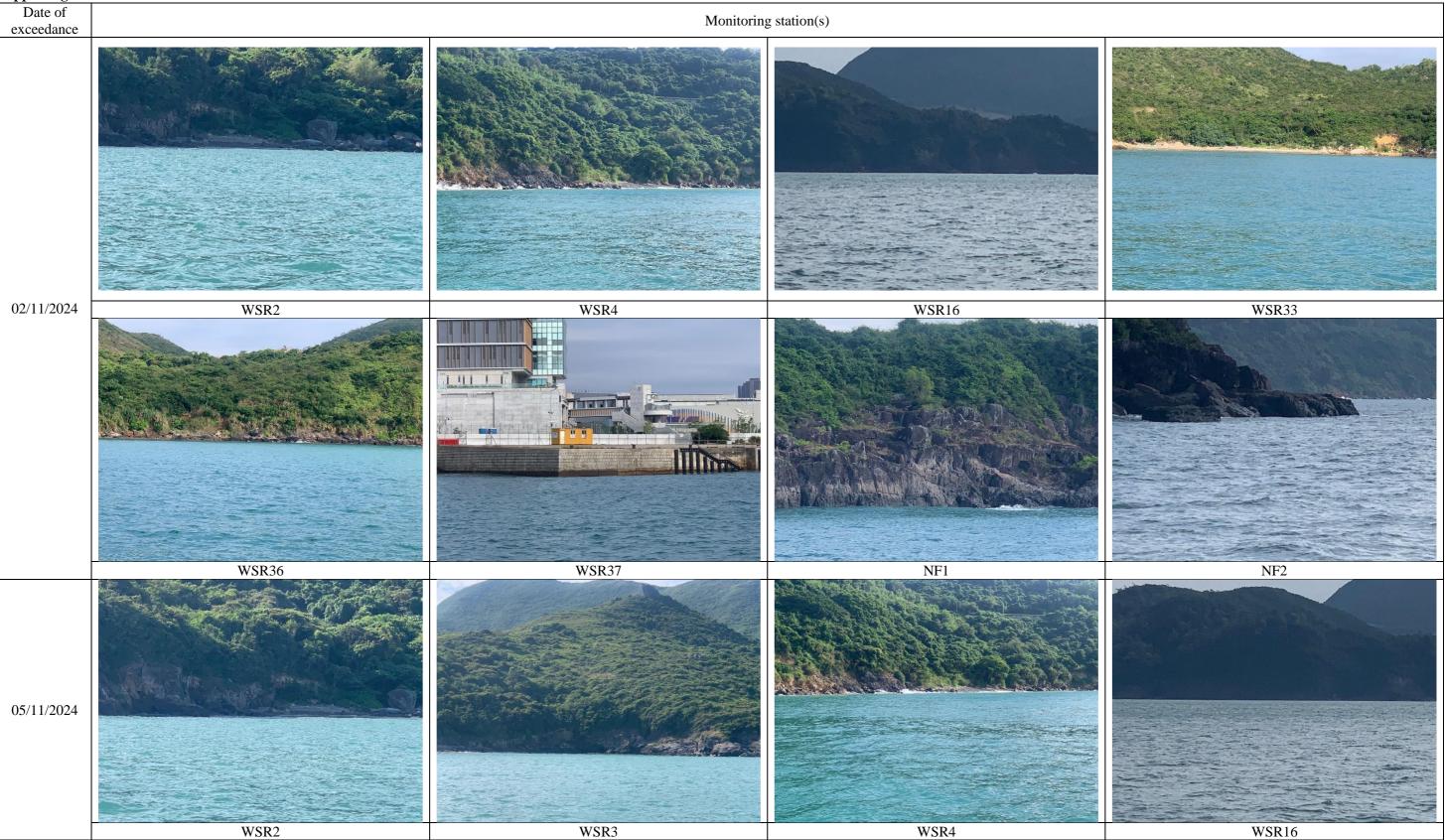
Operation Activities:

| 2 November 2024 | 5 November 2024 |
|--|---|
| Production of desalinated water Water sampling and analysis | Production of desalinated waterWater sampling and analysis |
| 7 November 2024 | 9 November 2024 |
| Production of desalinated water Water sampling and analysis | Production of desalinated waterWater sampling and analysis |



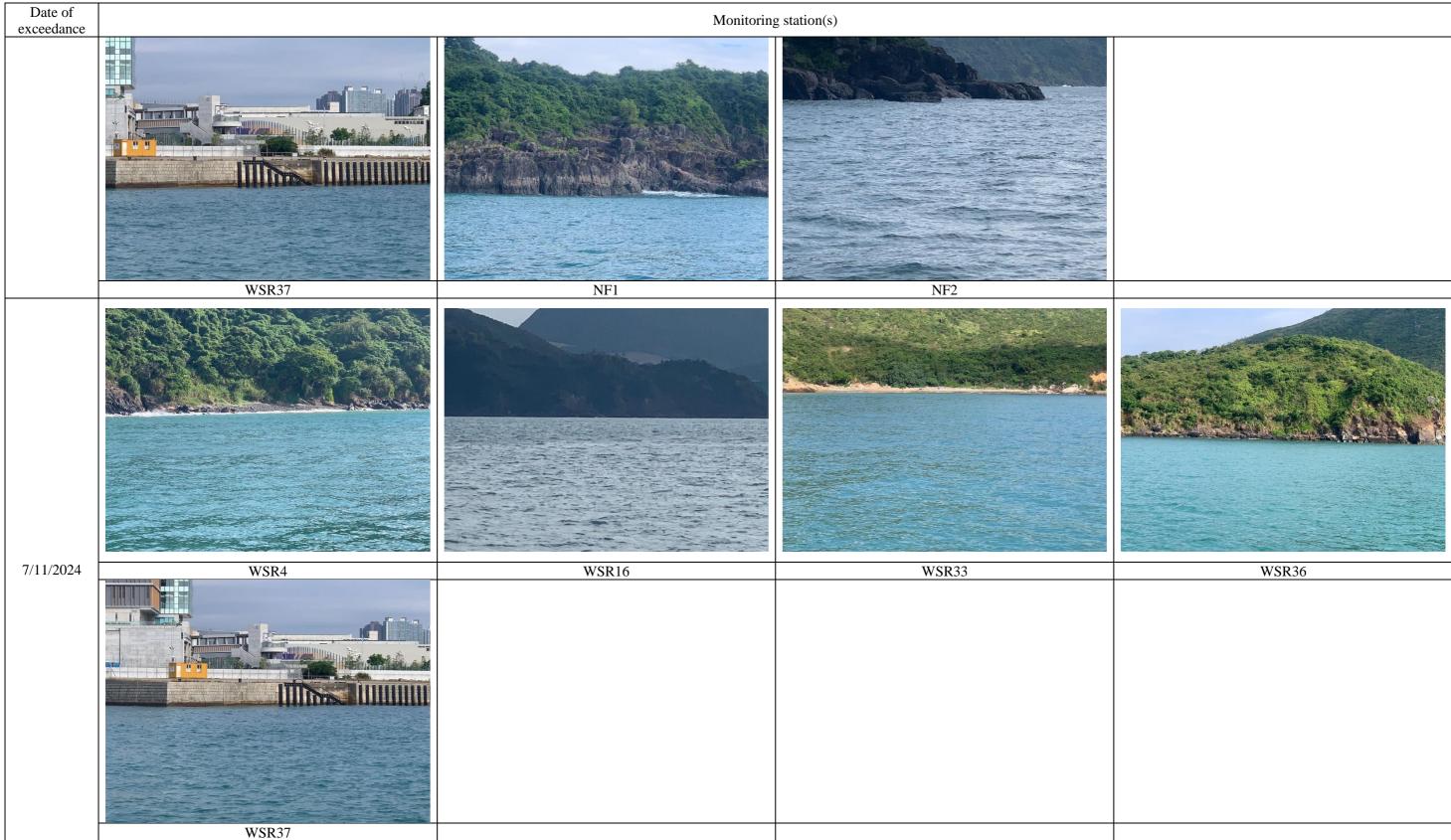


Supporting Photo:





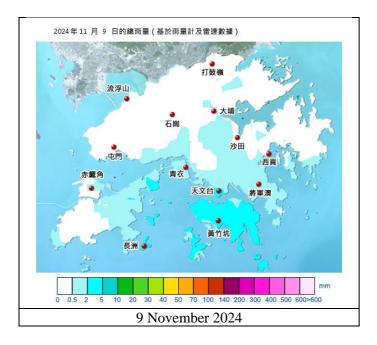








| Date of exceedance | Monitoring station(s) | | | | | | | | | |
|--------------------|-----------------------|--|--|--|--|--|--|--|--|--|
| 9/11/2024 | | | | | | | | | | |
| | WSR37 | | | | | | | | | |







Bi-Weekly Incident Report on Action Level or Limit Level Non-Compliance

| Date of | | | Parameter | Measurement Result | Sampling | Depth Av5000erage Result | | on Level mg/L) | Limit Level (mg/L) | | Exceedance | Marine construction activities with | Exc |
|------------|---------|-----|-------------------------|-----------------------|----------|-----------------------------|-------------|-------------------|-----------------------|-----------------|--------------|-------------------------------------|-----|
| exceedance | Station | | | (mg/L) | depth | (mg/L) | 95%- ile | Control 120% | 99%- ile | Control 130% | | contact with water (Y/N) | |
| | WSR1 | Ebb | Suspended Solid (SS) | | | 6.00 | 5.00 | 5.60 | 6.00 | 6.07 | Action Level | Ν | |
| | WSR3 | Ebb | Suspended Solid (SS) | | | 6.83 | 5.00 | 5.60 | 6.00 | 6.07 | Limit Level | Ν | |
| 16/11/2024 | WSR16 | Ebb | Suspended Solid (SS) | | | 6.83 | 5.00 | 5.60 | 6.00 | 6.07 | Limit Level | Ν | |
| 10/11/2024 | WSR37 | Ebb | Suspended Solid (SS) | | | 7.00 | 5.00 | 5.60 | 6.00 | 6.07 | Limit Level | Ν | |
| | NF2 | Ebb | Suspended Solid (SS) | | | 6.33 | 5.00 | 5.60 | 6.00 | 6.07 | Limit Level | Ν | |
| | NF3 | Ebb | Suspended Solid (SS) | | | 6.83 | 5.00 | 5.60 | 6.00 | 6.07 | Limit Level | Ν | |
| 23/11/2024 | NF3 | Ebb | Suspended Solid (SS) | | | 5.42 | 5.00 | 4.20 | 6.00 | 4.55 | Limit Level | Ν | |
| | WSR16 | Ebb | Suspended Solid (SS) | | | 3.92 | 5.00 | 3.70 | 6.00 | 4.01 | Action Level | Ν | |
| | WSR36 | Ebb | Suspended Solid (SS) | | | 3.83 | 5.00 | 3.70 | 6.00 | 4.01 | Action Level | Ν | |
| 26/11/2024 | WSR37 | Ebb | Suspended Solid (SS) | | | 4.58 | 5.00 | 3.70 | 6.00 | 4.01 | Limit Level | Ν | |
| | NF2 | Ebb | Suspended Solid (SS) | | | 3.75 | 5.00 | 3.70 | 6.00 | 4.01 | Action Level | Ν | |
| | NF3 | Ebb | Suspended Solid (SS) | | | 3.83 | 5.00 | 3.70 | 6.00 | 4.01 | Action Level | Ν | |
| 28/11/2024 | WSR37 | Ebb | Suspended Solid (SS) | | | 4.08 | 5.00 | 4.00 | 6.00 | 4.33 | Action Level | Ν | |
| | WSR1 | Ebb | Suspended Solid (SS) | | | 3.50 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |
| | WSR3 | Ebb | Suspended Solid (SS) | | | 3.42 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |
| | WSR16 | Ebb | Suspended Solid (SS) | | | 4.33 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |
| | WSR33 | Ebb | Suspended Solid (SS) | | | 3.25 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |
| 30/11/2024 | WSR36 | Ebb | Suspended Solid (SS) | | | 3.92 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |
| | WSR37 | Ebb | Suspended Solid (SS) | | | 7.17 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |
| | NF1 | Ebb | Suspended Solid (SS) | | | 4.33 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |
| | NF2 | Ebb | Suspended Solid (SS) | | | 9.00 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |
| | NF3 | Ebb | Suspended Solid (SS) | | | 4.08 | 5.00 | 3.00 | 6.00 | 3.25 | Limit Level | Ν | |

1) Control station value already exceed either the Action or Limit Level.

2) No silt plume or pollution discharge from site area was observed.

3) Rainfall was recorded at Tseung Kwan O during the monitoring period, rainfall may lead to release of SS content form the soil of the nearby lands (e.g., Country Park, fill bank).

4) No action and limit level exceedance observed at WSR37 (Outfall Shaft).

5) Marine construction activity was completed.

6) No operation activities related to the release of SS in the reporting period.

7) No exceedances of SS at S.P.1 in the daily continuous effluent monitoring.



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Reasons of non-project related Exceedance related to exceedance Project (Y/N) (1) (2) (3) (4) (5) (6) (7) √ \checkmark \checkmark \checkmark \checkmark Ν ✓ \checkmark \checkmark \checkmark \checkmark Ν ✓ \checkmark \checkmark \checkmark Ν \checkmark √ \checkmark \checkmark \checkmark \checkmark Ν ✓ \checkmark ✓ ✓ \checkmark Ν \checkmark \checkmark \checkmark \checkmark \checkmark Ν \checkmark ✓ ✓ Ν \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Ν \checkmark ✓ \checkmark \checkmark Ν √ ✓ \checkmark Ν ✓ \checkmark ✓ \checkmark \checkmark Ν √ ✓ \checkmark \checkmark Ν \checkmark \checkmark Ν ✓ \checkmark \checkmark \checkmark Ν \checkmark \checkmark \checkmark Ν \checkmark Ν ✓ \checkmark \checkmark \checkmark \checkmark Ν ✓ \checkmark \checkmark Ν \checkmark \checkmark \checkmark Ν \checkmark \checkmark \checkmark Ν ✓ \checkmark Ν \checkmark \checkmark \checkmark \checkmark Ν

Conclusion:

During water quality monitoring on 16, 19, 21, 23, 26, 28 and 30 November 2024, six (6) Action Level and sixteen (16) Limit Level exceedances were recorded during mid-ebb. Total six (6) Action Level and sixteen (16) Limit Level exceedances for SS of impact water quality monitoring were recorded between 16 November to 30 November 2024.

The marine construction works were completed on 1 September 2023. The commissioning activities were shown in the table below.

The desalination plant and the outfall shaft work normally.

After investigation, all exceedances were considered non-project related.

Operation Activities:

| 16 November 2024 | 23 November 2024 |
|--|--|
| Production of desalinated water Water sampling and analysis | Production of desalinated water Water sampling and analysis |
| 26 November 2024 | 28 November 2024 |
| • The plant was stopped operation | • The plant was stopped operation |
| 30 November 2024 | |
| The plant was stopped operation | |





Supporting Photo:

| | Monitoring station(s) | | | | | | | | | | |
|------|-----------------------|-------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
| WSR1 | WSR3 | WSR16 | | | | | | | | | |
| | | | | | | | | | | | |
| NF2 | NF3 | | | | | | | | | | |
| NF3 | | | | | | | | | | | |
| | <image/> | | | | | | | | | | |

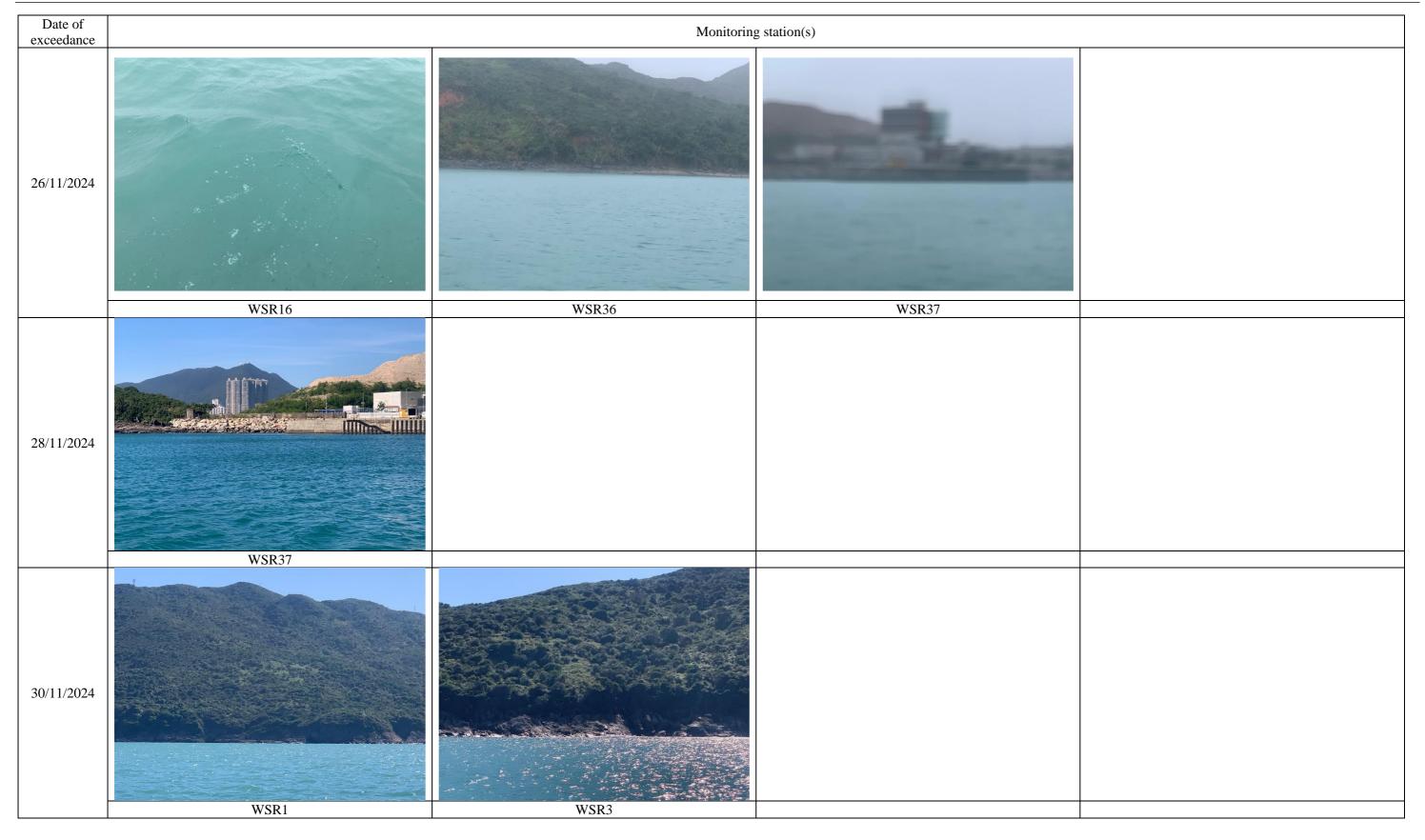






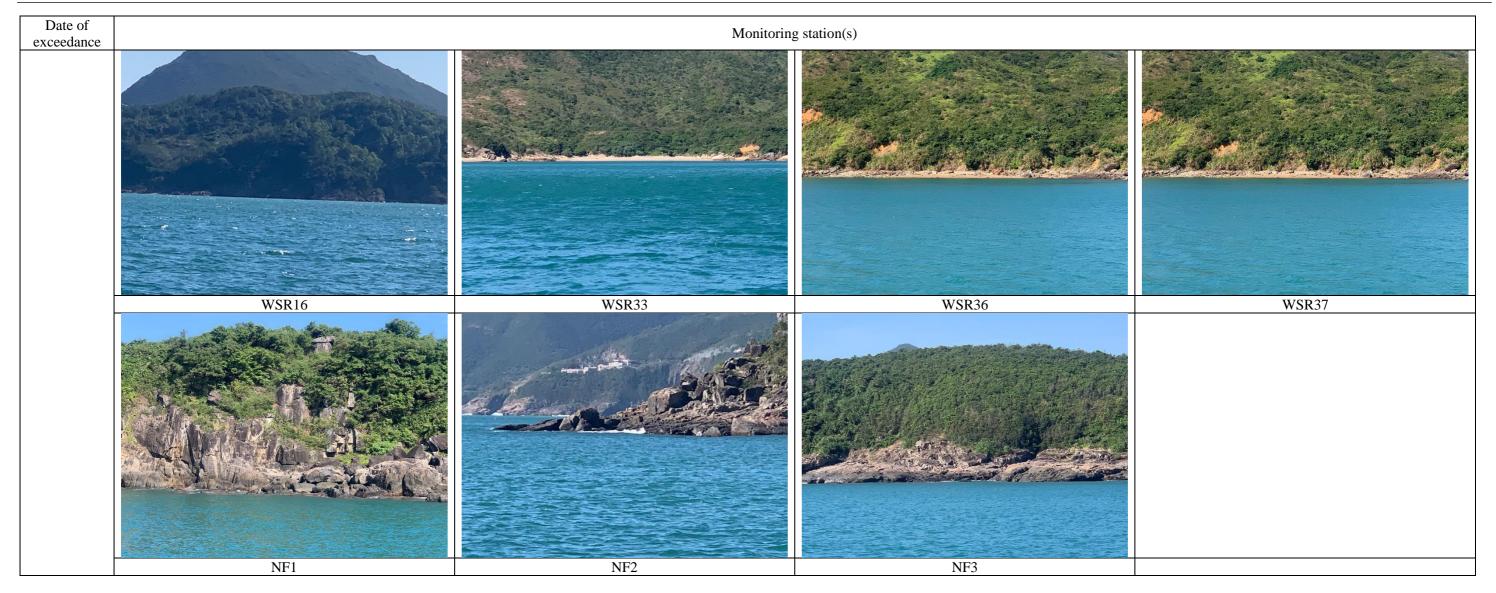
WSR37

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Bi-Weekly Incident Report (16 November to 30 November 2024)













Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Bi-Weekly Incident Report (16 November to 30 November 2024)

