

Intermodal Transfer Terminal – Bonded Vehicular Bridge and Associated Roads

Monthly EM&A Report for June 2022 July 2022 Mott MacDonald 3/F Manulife Place 348 Kwun Tong Road Kwun Tong Kowloon Hong Kong

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Intermodal Transfer Terminal – Bonded Vehicular Bridge and Associated Roads

Monthly EM&A Report for June 2022

July 2022

This Submission of Construction Phase Monthly Environmental Monitoring and Audit (EM&A) Report for June 2022

has been reviewed and certified by

the Environmental Team Leader (ETL) in accordance with

Condition 3.4 of Environmental Permit No. EP-560/2018 and

Section 10.3 of the EM&A Manual of the Project.

Certified by:

Mum Clea

Ir Thomas Chan Environmental Team Leader (ETL) Mott MacDonald Hong Kong Limited

Date

13 July 2022



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By Email

Airport Authority Hong Kong HKIA Tower, 1 Sky Plaza Road, Hong Kong International Airport, Lantau, Hong Kong

Attn: Alan Chan (Manager, Civil)

13 July 2022

Dear Sir,

Contract C19C02 – Independent Environmental Checker Consultancy Services for Intermodal Transfer Terminal – Bonded Vehicular Bridge and Associated Roads <u>Monthly Environmental and Audit (EM&A) Report for June 2022</u>

Reference is made to the Environmental Team's submission of Monthly EM&A Report for June 2022 in accordance with Condition 3.4 of the Environmental Permit (No: EP-560/2018) and Section 10.3 of the EM&A Manual of the Project certified by the ET Leader on 13 July 2022.

We would like to inform you that we have verified on the captioned submission in accordance with the requirement stipulated in Condition 1.9 of EP-560/2018.

Should you have any queries, please feel free to contact the undersigned at 3922 9366.

Yours faithfully, AECOM Asia Co. Ltd.

Y W Fung Independent Environmental Checker

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Executive summary

On 23 August 2018, the Environment Impact Assessment (EIA) Report (Register No.: AEIAR-216/2018) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-560/2018) was issued for the construction and operation of the Project.

In June 2019, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by Airport Authority Hong Kong (AAHK) to provide Environmental Team (ET) consultancy services for implementation of an Environmental Monitoring and Audit (EM&A) programme of the "Intermodal Transfer Terminal – Bonded Vehicular Bridge and Associated Roads" (hereinafter referred to as "the Project") in accordance with the Environmental Permit (EP) requirements throughout the Preconstruction, Construction and Post-construction phases.

The project construction was commenced on 5 October 2020 and the construction phase EM&A programme started on 5 October 2020.

This is the 21st Monthly EM&A Report for the construction phase of the Project which summaries findings of the EM&A programme during the reporting period from 1 to 30 June 2022.

Key Construction Works in the Reporting Period

A summary of construction activities undertaken during the reporting period is presented below:

- Plant and material mobilization for marine works
- Plant and material mobilization for landside works
- Preparation works for marine piling works construction of access platform for monopile
- Marine bored pilling works
- Marine pile cap construction
- Marine pier construction
- Bridge deck construction
- Ancillary buildings construction
- Abutment, upramp structure & superstructure
- Retaining wall construction

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken by ET in accordance with the approved EM&A Manual. A summary of the monitoring activities during the reporting period is presented below:

Table I: Summary Table for EM&A Activities in the Reporting Period

| EM&A Activities | Number of Sessions |
|---------------------------------------|--------------------|
| Water quality monitoring | 13 |
| Weekly environmental site inspections | 5 |

Breaches of Action and Limit Levels

Water Quality

There was no breach of Action or Limit Levels for water quality during the reporting month.

Complaint Log

There was no complaint in relation to the environmental impact received during the reporting period.

Notifications of Summons and Successful Prosecutions

There was no notifications of summons or successful prosecutions received during this reporting period.

Reporting Changes

There was no reporting change during the reporting period.

Future Key Issues

The future key issues to be undertaken in the upcoming month are:

- Plant and material mobilization for landside works
- Plant and material mobilization for marine works
- Preparation works for marine piling works construction of access platform for monopile
- Marine bored pilling works
- Marine pile cap construction
- Marine pier construction
- Bridge deck construction
- Ancillary buildings construction
- Abutment, upramp structure & superstructure
- Retaining wall construction

1 Introduction

1.1 Background

On 23 August 2018, the Environment Impact Assessment (EIA) Report (Register No.: AEIAR-216/2018) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-560/2018) was issued for the construction and operation of the Project.

The Project site is situated between the Hong Kong-Zhuhai-Macao Bridge Boundary Crossing Facilities (HKBCF) Island and the Hong Kong International Airport (HKIA), at the south of the existing SkyPier on the Airport Island. The Bonded Vehicular Bridge serves as a land connection between the HKBCF Island and Intermodal Transfer Terminal (ITT) building next to the SkyPier to be built by AAHK. Part of the bridge is located in the marine area (marine section) and part on the HKBCF Island (land section). The marine section of the site is situated in a marine area between HKIA and HKBCF Island.

The Bonded Vehicular Bridge serves as a dedicated direct vehicular access connecting the ITT of HKIA and HKBCF Island. The Project scale is anticipated to be small, the bridge's marine section is approximately 360 m in length, supported by bridge concrete piers. The Bridge's land section spans over the HKBCF Island with a total length of approximately 210 m.

In June 2019, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by Airport Authority Hong Kong (AAHK) to provide Environmental Team (ET) consultancy services for implementation of an Environmental Monitoring and Audit (EM&A) programme in accordance with the EP requirements throughout the Pre-construction, Construction and Post-construction phases of the Project.

Baseline monitoring for the Project was carried out between August to October 2019, and the baseline monitoring report was submitted in April 2020 in accordance with the requirements set out in the EP and recommended in the EM&A Manual and received no further comment from the Environmental Protection Department (EPD).

For Construction phase of the Project, the construction has been commenced on 5 October 2020 and the construction phase EM&A programme was started on 5 October 2020.

This is the 21st monthly EM&A report summarising the key findings of the construction phase EM&A programme from 1 to 30 June 2022 (the reporting period) and is submitted to fulfil requirements in Condition 3.4 of EP and Section 10.3 of EM&A Manual of the Project.

1.2 **Project Organisation**

The organisation chart and lines of communication with respect to the on-site environmental management structure of the key personnel are shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

| Table 1.1: Contact | Information of Ke | y Personnel |
|--------------------|-------------------|-------------|
|--------------------|-------------------|-------------|

| Party | Position | Name | Telephone |
|---|---|-------------|-----------|
| Project Manager's Representative (Airport Authority Hong Kong) | Senior Project Engineer, Environment | Becky Yan | 2183 2773 |
| Environmental Team (ET) | Environmental Team Leader | Thomas Chan | 2828 5967 |
| (Mott MacDonald Hong Kong Limited) | Deputy Environmental Team Leader | Gary Chow | 2828 5874 |
| Independent Environmental Checker (IEC) | Independent Environmental Checker | Y W Fung | 3922 9366 |
| (AECOM Asia Company Limited) | Deputy Independent Environmental Checker | Lemon Lam | 3922 9381 |
| Main Contractor | Senior Project Manager | Brian Ho | 9041 7535 |
| (Gammon Construction Limited) | Environmental Officer | Elena Lai | 6841 3324 |

1.3 Construction Works Programme and Construction Works Area

The construction works commenced on 5 October 2020. The construction works programme and the construction works area of the Project are shown in **Appendix B** and **Appendix C** respectively.

1.4 Construction Works undertaken during the Reporting Period

A summary of construction activities undertaken during this reporting period is presented below:

- Plant and material mobilization for marine works
- Plant and material mobilization for landside works
- Preparation works for marine piling works construction of access platform for monopile
- Marine bored pilling works
- Marine pile cap construction
- Marine pier construction
- Bridge deck construction
- Ancillary buildings construction
- Abutment, upramp structure & superstructure
- Retaining wall construction

2 Water Quality Monitoring

2.1 Impact Water Quality Monitoring

The impact water quality monitoring was conducted three days per week at mid-flood and midebb tides, at 5 water quality monitoring stations. Samples were taken at three depths, namely, 1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth station was omitted. For locations with water depth less than 3m, only the mid-depth station was monitored. Duplicate in-situ measurements and water samples were collected from each independent monitoring event for all parameters to ensure a robust statistically interpretable dataset.

2.2 Monitoring Methodology

2.2.1 Monitoring Parameters

For the 3 impact stations (M1 to M3) and 2 control stations (C1 and C2), monitoring of DO, DO%, pH, temperature, turbidity, salinity, SS and water depth were undertaken.

Other relevant data were also recorded, including monitoring location, time, tidal stages, weather conditions and any special phenomena or work during the monitoring.

2.2.2 Monitoring Locations

With reference to the Baseline Monitoring Report, the water quality monitoring was conducted at three locations in the sea channel between the HKIA and the HKBCF (M1, M2 and M3) and two control stations (C1 and C2), locations are shown in **Figure 2.1** and summarized in **Table 2.1**.

| ID | Monitoring Station | Easting | Northing |
|-------------------|------------------------|---------|----------|
| M1 | Impact Station | 812423 | 819635 |
| M2 ⁽¹⁾ | Impact Station | 812629 | 819845 |
| M3 ⁽²⁾ | Impact Station | 812586 | 820069 |
| C1 | Control Station - West | 812419 | 820670 |
| C2 | Control Station - East | 813072 | 820595 |

Table 2.1: Locations of Marine Water Quality Monitoring Stations

Notes:

1. As updated in the baseline monitoring report, the water quality monitoring at M2 station was shifted to bring it closer to the Project site and away from the SkyPier ferry movements for better representation.

2. As updated in the baseline monitoring report, the water quality monitoring at M3 station was shifted to the location near the seawater intake of HKBCF to better represent the potential water quality impacts at the nearby sensitive receiver

2.2.3 Monitoring Schedule for the Reporting Period

The schedule for water quality monitoring of the reporting period is presented in Appendix D.

2.2.4 Monitoring Equipment

Water samples for all monitoring parameters were collected, stored, preserved and analysed according to the Standard Methods, APHA 21st ed. and/or other methods as agreed by the EPD. In-situ measurements at monitoring locations including dissolved oxygen (DO), dissolved oxygen

saturation (DO%), pH, temperature, turbidity, salinity and water depth were collected using the equipment listed in **Table 2.2**.

Water samples for suspended solids (SS) analysis were stored in suitable containers provided by the HOKLAS laboratory with no preservative added, packed in ice (cooled to 4°C without being frozen) and delivered to the HOKLAS laboratory as soon as possible after collection.

| Equipment | Brand and Model | Quantity |
|---|--|----------|
| Water Sampler | Van Dorn Water Sampler | 2 |
| Monitoring Position Equipment (measurement of DGPS) | Garmin eTrex 20x | 1 |
| Water Depth Detector (measurement of water depth) | Garmin STRIKER [™] Series | 1 |
| Multifunctional Meter (measurement of DO, DO%, temperature, turbidity, salinity and pH) | YSI ProDSS (Multiparameter Sampling Instrument) | 2 |

2.2.5 Maintenance and Calibration of In-situ Instruments

In-situ monitoring instruments for water quality parameters were checked, calibrated and certified by a laboratory accredited under HOKLAS before use. Responses of sensors and electrodes were checked with certified standard solutions before each use.

Wet bulb calibration for DO measurement was carried out before commencement of monitoring and after completion of all measurements each day. The turbidity meter was calibrated in order to establish the relationship between NTU units and the levels of suspended solids. A zero check in distilled water was performed with the turbidity probe at least once per monitoring day. The probe was then calibrated with a solution of known NTU. Standard buffer solutions of at least pH 7 and pH 10 was used for calibration of the pH instrument before and after use on each monitoring day.

Calibration certificates of the monitoring equipment used in the monitoring for water quality parameters are provided in **Appendix E**.

2.2.6 Laboratory Measurement / Analysis

Analysis of SS was out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066). Sufficient water samples were collected at each of the control stations and impact stations for carrying out the laboratory SS determination.

The SS determination works started within 24 hours after collection of the water samples. The analysis followed the APHA 2540D analytical method with a detection limit of 1 mg/L.

2.3 Event and Action Plan

2.3.1 Action and Limit Levels

The Action and Limit Levels for the impact monitoring stations were extracted from Table 2.8 of the Baseline Monitoring Report. The derived Action and Limit Levels are summarized in **Table 2.3**.

| Parameters | Action Level | Limit Level |
|---------------------------|---|---|
| Impact Stations M1 and M2 | | |
| DO in mg/L | | |
| Surface & Middle | 4.3 | 4.0 |
| Bottom | 3.8 | 3.0 |
| SS in mg/L | 14.2 | 17.4 |
| | AND | AND |
| | 120% of upstream control station at the same tide of the same day | 130% of upstream control station at the same tide of the same day |
| Turbidity in NTU | 11.0 | 16.3 |
| | AND | AND |
| | 120% of upstream control station at the same tide of the same day | 130% of upstream control station at the same tide of the same day |
| Impact Station M3 | | |
| SS in mg/L | 33 | 42 |

Table 2.3: Derived Action and Limit Levels

Notes:

1. For DO measurement, non-compliance occurs when the monitoring result is lower than the limits.

2. For parameters other than DO, non-compliance of water quality occurs when the monitoring result is higher than the limits.

3. Depth-averaged results are used unless specified otherwise.

4. Impact station M3 is represents the impact station SR1A of "Expansion of Hong Kong International Airport into a Three-Runway System". The AL levels for M3 in Table 2.3 is referencing the agreed and adopted AL levels of SR1A from the Updated EM&A Manual for Expansion of Hong Kong International Airport into a Three-Runway System.

2.3.2 Event and Action Plan

In the event of water quality monitoring results at impact stations exceeding the Action and/or Limit levels for water quality as defined in **Table 2.3**, the actions in accordance with the Event and Action Plan presented in **Appendix F** shall be carried out.

2.4 Conclusion

During the reporting period, all monitoring results were within their corresponding Action and Limit Levels. Hence, no Action and Limit Level exceedance of water quality level was recorded during the reporting period.

In the meantime, the Contractor was reminded to implement and maintain all mitigation measures during weekly site inspection and regular environmental management meetings. These include maintaining mitigation measures properly as recommended in the EM&A Manual.

3 Environmental Site Inspection and Audit

3.1 Environmental Site Inspection

Site inspections were carried out by ET on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the Project. Key observations were recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary. During the reporting period, site inspections were carried out on 1, 8, 15, 22, 29 June 2022. Joint IEC site inspection was carried out on 8 June 2022.

Monthly landscape and visual site audit was carried out on 8 June 2022.

Key observations and reminders during the site inspections and landscape and visual site audit are described in **Table 3.1**.

| Inspection Date | Key Observations / Reminders | Recommendations / Actions | Close-Out Date |
|--------------------|--|--|-------------------|
| 25 May 2022 | The enclosure for the grouting station and stock of cement was not established properly. | The Contractor should ensure the grouting station and stock of cement are sheltered on the top and the three sides to avoid dust emission during operation. | 1 Jun 2022 |
| 1 Jun 2022 | Chemical containers were observed without measures for spillage prevention at Pier 5. | The Contractor should provide drip trays for the chemical containers. | 8 Jun 2022 |
| 1 Jun 2022 | The NRMM label affixed on the generator was observed faded. (Reminder) | The Contractor was reminded to display the valid NRMM label on the generator. | 1 Jun 2022 |
| 8 Jun 2022 | Stormwater control measure was observed inadequate for the surface drain as present along the site boundary during the rainy weather. Site surface runoff flew through the sandbags along and inside the surface drain to the catchpits was observed. | The Contractor should review the temporary site drainage system to ensure all surface runoff are diverted to wastewater treatment facilities for proper treatment prior to discharge to designated discharge point. | 29 Jun 2022 |
| 8 Jun 2022 | Site surface runoff at the section of site haul road was observed flowing along the surface drain to the discharge point without diversion to wastewater treatment facilities for treatment during rainy weather. | The Contractor should ensure the surface drain as present along the site boundary is intercepted for the prevention of silt, construction materials or debris being washed into the public drainage system. | 29 Jun 2022 |
| 8 Jun 2022 | Overflowing of site surface runoff through the concrete bunding to public drain was observed. | The Contractor should provide effective mitigation measures to ensure all surface runoff are diverted to wastewater treatment facilities for proper treatment prior to discharge to designated discharge point. | 29 Jun 2022 |

Table 3.1: Summary of Site Inspections and Recommendations

| Inspection Date | Key Observations / Reminders | Recommendations / Actions | Close-Out Date |
|--------------------|--|--|-------------------|
| 8 Jun 2022 | Site surface runoff was observed flowing into the temporary manhole during rainy weather. | The Contractor should enhance and maintain the protection measures to prevent surface runoff from entering the public drainage system. | 29 Jun 2022 |
| 8 Jun 2022 | Mitigation measure to reduce water pollution for the surface drain near stockpiling area was inadequate. | The Contractor should provide proper preventive measures for the stockpile (e.g. covering stockpile with impervious sheet, and adding bunding forsurface drain) to avoid any potential muddy runoff during rainy day. | 29 Jun 2022 |
| 15 Jun 2022 | Insufficient dust mitigation measure for the soil stockpile. (Reminder) | The Contractor was reminded to provide covering with impervious sheet for the soil stockpile after relocation of the stockpile to minimise potential muddy runoff during rainy weather. | 15 Jun 2022 |
| 22 Jun 2022 | Dusty material was observed on the paved haul road. | The Contractor should remove the dusty material on haul road to minimise silty runoff from site and fugitive dust emission. | 29 Jun 2022 |
| 22 Jun 2022 | Insufficient dust mitigation measure for haul road and exposed area. (Reminder) | The Contractor was reminded to provide sufficient dust suppression measures (e.g. water spraying) for haul road and exposed site area | 22 Jun 2022 |
| 29 Jun 2022 | The haul road was observed dry. | The Contractor should provide regular water spraying for the haul road to prevent fugitive dust emission. | On-going |

3.2 Advice on the Solid and Liquid Waste Management Status

The Contractor was registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting was carried out on site. Sufficient numbers of receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimise the disposal of C&D waste to public fill. The Contractor was reminded to maintain on site waste sorting and recording system and maximize reuse / recycling of C&D wastes, whenever these are generated.

The monthly summary of waste flow table is detailed in Appendix H.

The valid environmental licenses and permits for the Project during the reporting period are summarized in **Appendix I**.

3.3 Implementation Status of Environmental Mitigation Measures

In response to the site audit findings, the Contractor carried out corrective actions.

A summary of the environmental mitigation measures implementation status is presented in **Appendix J**. Necessary mitigation measures were implemented properly, observations and reminders were issued to the Contractor where actions were taken by the Contractor to rectify the identified issues.

3.4 Summary of Exceedance of the Environmental Quality Performance Limit

Water Quality

Water quality monitoring was conducted in the reporting period and with no Action and Limit Level exceedances of water quality level was recorded at M1, M2 and M3.

Detailed impact monitoring results and relevant graphical plots are presented in Appendix G.

3.5 Summary of Complaints, Notifications of Summons and Successful Prosecutions

Complaint Log

There was no complaint received in relation to the environmental impact during the reporting period.

Notifications of Summons or Status of Prosecution

There was no notification of summons or prosecutions received during the reporting period.

Cumulative Statistics

Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Table 3.2.**

Table 3.2: Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

| Reporting Period | Environmental Complaints | Notifications of Summons | Successful Prosecutions |
|---|-----------------------------|-----------------------------|----------------------------|
| This reporting period (Jun 2022) | 0 | 0 | 0 |
| From commencement date of construction to end of reporting period | 0 | 0 | 0 |

4 Future Key Issues

4.1 Construction Programme for the Coming Month

As informed by the Contractor, the major construction activities for the next reporting period (July 2022) are summarized in **Table 4.1**.

| Period | Description of Activities |
|----------|--|
| | Plant and material mobilization for landside works |
| | Plant and material mobilization for marine works |
| | Preparation works for marine piling works - construction of access platform for monopile |
| | Marine bored pilling works |
| Jul 2022 | Marine pile cap construction |
| | Marine pier construction |
| | Bridge deck construction |
| | Ancillary buildings construction |
| | Abutment, upramp structure & superstructure |
| | Retaining wall construction |

4.2 Environmental Site Inspection and Monitoring Schedule for the Next Reporting Period

The tentative schedule for weekly site inspection and water quality monitoring for the next reporting period is provided in **Appendix D**.

5 Conclusions

General

The construction works for the Project commenced on 5 October 2020. The ET of the Project has undertaken environmental site inspections and water quality monitoring under the construction phase EM&A programme during the reporting period.

Water Quality Monitoring

No Action and Limit Level exceedances of water quality level was recorded at M1, M2 and M3 during the reporting period.

Environmental Site Inspections

Environmental site inspections were carried out four (4) times during the reporting period. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.

Complaint Log

There was no complaint received in relation to the environmental impact during the reporting period.

Reporting Changes

There was no reporting change during the reporting period.

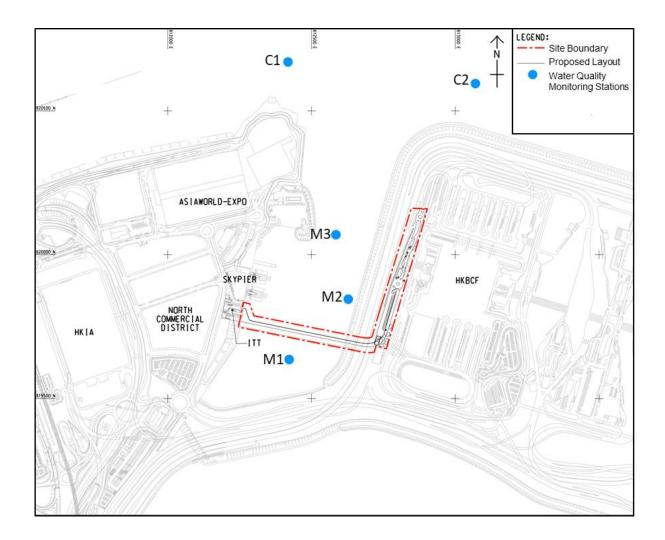
Notifications of Summons and Successful Prosecutions

There was no notification of summons or successful prosecutions received during the reporting period.

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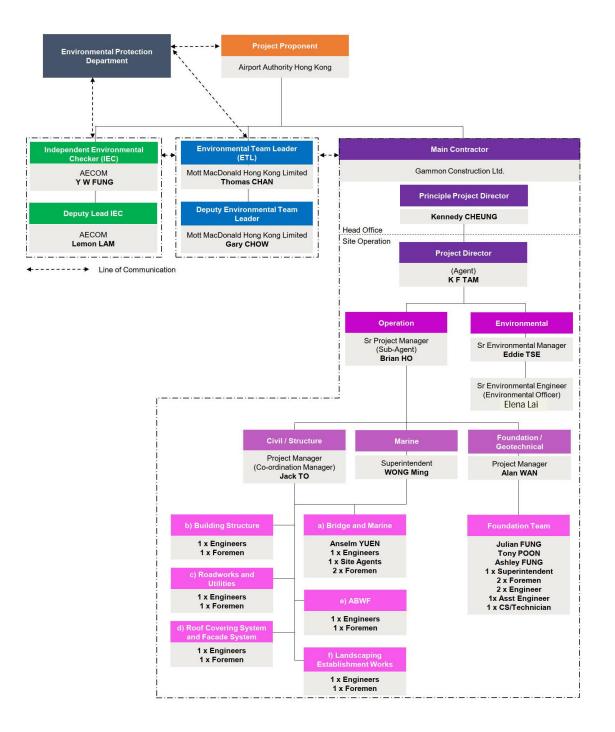
Figure

Figure 2.1 Water Quality Monitoring Locations



Appendices

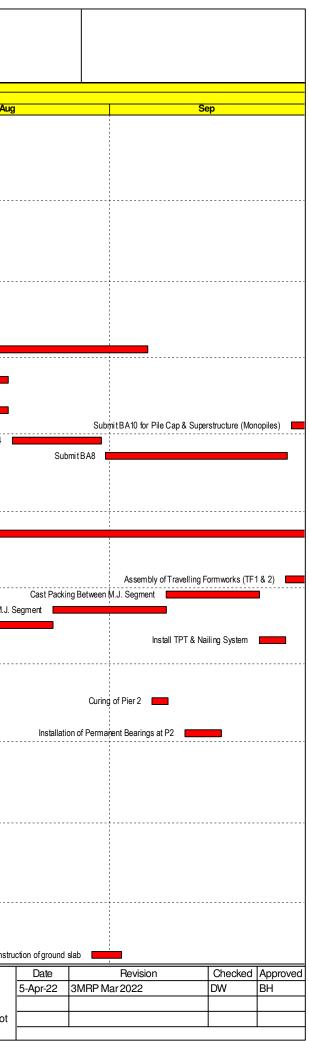
Appendix A. Project Organisation



Appendix B. Construction Works Programme

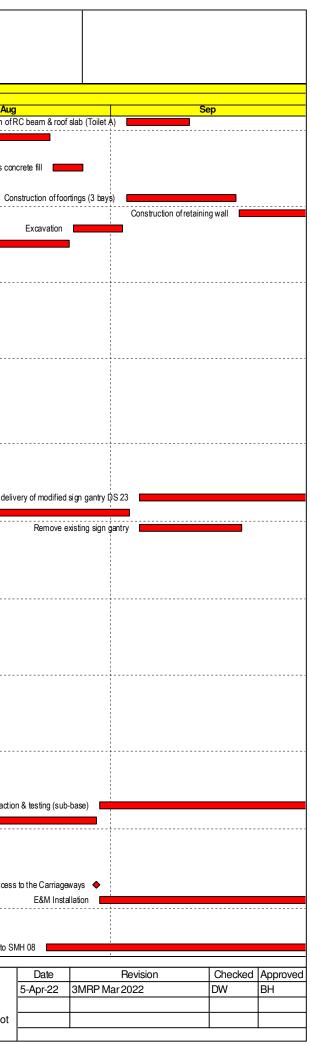
C19W10 ITTB AD2 Monthly Programme Rev. C Updated as 30 Jun 2022

| <i>v</i> ity ID | Activity Name | Current Start | Current Finish | Orig Dur | Pct Com | Jun | 2022 Jul | 2 Au |
|------------------------------|---|--------------------|-------------------|-------------|------------|--|-------------------------------------|------------------------|
| 9W10 ITTB A | D2 Monthly Programme Rev. C Updated as 30 Jur | 1 2022 | | | | | | |
| ontract Dates | | | | | | | | |
| Cost Centre 1 - Pr | eliminaries and General Requirements | | | | | | | |
| General Submiss | sion & Management Plans | | | | | | | |
| Design & Procure | ement | | | | | | | |
| On-Site Mock-up | for AAHK Kiosk 1 | | | | _ | | | |
| | onded Vehicular Bridge - Marine Portion from Chainage CH | 0.000 to CH439.827 | | | | | | |
| | Substructure Works | | | | | | | |
| Pier 7 | | | | | | | | |
| 19W10.C.31530 | Pier 7 Erection | 11-Apr-22 A | 01-Aug-22 | 27 | 10% | | | |
| Pier 6 | | ···· •··· | •••• 5 | | | | | . |
| 19W10.C.32860 | Cofferdam installation and pile cap construction (Pier 6) | 19-Mar-22 A | 27-Jun-22 A | 29 | 100% | | | |
| 19W10.C.32870 | Pier 6 Erection | 30-Jun-22 | 12-Jul-22 | 10 | 0% | Pier 6 Erection | | |
| Pier 2 | | | | | | | | |
| 19W10.C.32890 | Pier 2 Erection | 04-Aug-22 | 06-Sep-22 | 27 | 0% | | Pier 2 Ered | tion |
| Monopile | | | | | | | | |
| 19W10.C.81230 | Curing (Monopile) | 20-Jul-22 | 16-Aug-22 | 28 | 0% | Curing | (Monopile) | |
| 19W10.C.81215 | Monopile Bored Piling Works | 27-Apr-22 A | 19-Jul-22 | 40 | 62.5% | | | |
| 19W10.C.81235 | Sonic & Interface Test and Report Submission | 10-Aug-22 | 16-Aug-22 | 7 | 0% | | Sonic & Interface Test and Rep | ort Submission |
| 19W10.C.81250 | Submit BA10 for Pile Cap & Superstructure (Monopiles) | 28-Sep-22 | 04-Oct-22 | 7 | 0% | | | |
| 19W10.C.81240 | Submit BA14 | 17-Aug-22 | 30-Aug-22 | 14 | 0% | | | Submit BA14 |
| 19W10.C.81245 | Submit BA8 | 31-Aug-22 | 27-Sep-22 | 28 | 0% | | | |
| Marine Superstru | ucture | | J | | | | | |
| Pier 5 | | | | | | | | |
| Pier 3 | | | | | | | | |
| 19W10.C.31430 | Assembly of Travelling Formworks (TF3 & 4) | 14-Jul-22 | 20-Jul-22 | 6 | 0% | Assembly of Travelling Formworks (TF3 & 4) | | |
| 19W10.C.31440 | Cantilever Segment Erection (Pier 3, 10 cycles) | 21-Jul-22 | 20-Oct-22 | 70 | 0% | Cantilever Segment Erection (Pier | 3, 10 cycles) | |
| 19W10.C.31400 | Hammer Head | 07-May-22 A | 12-Jul-22 | 24 | ;8.33% | | | |
| Pier 7 | | | | | | | | |
| 19W10.C.31660 | Assembly of Travelling Formworks (TF1 & 2) | 27-Sep-22 | 07-Oct-22 | 6 | 0% | | | |
| 19W10.C.31640 | Cast Packing Between M.J. Segment | 09-Sep-22 | 23-Sep-22 | 10 | 0% | | | |
| 19W10.C.31630 | Construct M.J. Segment | 23-Aug-22 | 09-Sep-22 | 14 | 0% | | | Construct M.J. |
| 19W10.C.31620 | ErectFalsework | 01-Aug-22 | 23-Aug-22 | 18 | 0% | | Erect Falsework | |
| 19W10.C.31650 | Install TPT & Nailing System | 23-Sep-22 | 27-Sep-22 | 3 | 0% | | | |
| Pier 6 | | | | | | | | |
| 19W10.C.32000 | Hammer Head | 14-Jul-22 | 11-Aug-22 | 24 | 0% | Hammer Head | | |
| Pier 2 | | | | | | | | |
| 19W10.C.32280 | Curing of Pier 2 | 07-Sep-22 | 09-Sep-22 | 3 | 0% | | | |
| nstallation of Per | rmanent Bearings | , | | | | | | |
| 19W10.C.32580 | Installation of Permanent Bearings at P2 | 12-Sep-22 | 17-Sep-22 | 5 | 0% | | | |
| 19W10.C.32660 | Installation of Permanent Bearings at P7 | 01-Aug-22 | 06-Aug-22 | 5 | 0% | Insta | llation of Permanent Bearings at P7 | |
| TT Transfer Dec | | | | | | | | |
| 19W10.C.32330 | Bearing installation at ITT | 30-Jun-22 | 08-Jul-22 | 7 | 0% | Bearing installation at ITT | | |
| ost Centre 4 - Bo | onded Vehicular Bridge - Land Portion from Chainage CH43 | 9.827 to CH685.000 | 1 | | | | | |
| | ncilary Buildings | | | | | | | |
| | ssion & Approval | | | | | | | , , |
| Structure Works | | | | | | | | |
| C&ED Observatio | | | | | | | | |
| | | | | | | | | |
| ImmD Kiosk 1 ImmD Kiosk 2 | | | | | | | | |
| - | and Equipment Deem | | | | | | | ; |
| | and Equipment Room | | | | | | | |
| Toilet A | Construction offections | 05 4.17 22 | 10 Aug 00 | 7 | 00/ | | Construction of for | otings |
| 19W10.C.52110 | Construction of footings | 05-Aug-22 | 12-Aug-22 | 7 | 0% | | COnstruction of for | |
| 19W10.C.52520 | Construction of ground slab | 29-Aug-22 | 02-Sep-22 | 4 | 0% | <u></u> | | Constr |
| Adual LOE | Critical Remaining Work | | Proid | brt | יחו | C19W10-DWPG-B-AD-M24 | Data Date: 30-Jun | |
| Remaining LOE | | | - | | | | Printed: 12-Jul-22 | |
| Actual Work | Crit Milestone No Predecessors | 3-N | /Ionth F | Kolli | ing F | Programme (As of 30 June 2022) | Layout: C19W10 I | |
| Remaining Work | Actual Milestone No Successors | | | | - | Page 1 of 3 | Level of Effort. | nth Rolling (MPU), Not |
| | | | | | | - | | |



C19W10 ITTB AD2 Monthly Programme Rev. C Updated as 30 Jun 2022

| vity ID | Activity Name | Current Start | Current Finish | Orig Dur | Pct Com | 2022 |
|---------------------|---|------------------|-------------------|-------------|------------|---|
| 19W10.C.52840 | Construction of RC beam & roof slab (Toilet A) | 03-Sep-22 | 12-Sep-22 | 7 | 0% | Jun Jul Construction |
| 19W10.C.52120 | Construction of screen wall/ column & structure wall | 13-Aug-22 | 22-Aug-22 | 7 | 0% | Construction of screen wall/ column & structure wall |
| 19W10.C.51880 | Excavation | 02-Aug-22 | 04-Aug-22 | 3 | 0% | Excavation |
| 19W10.C.52310 | Mass concrete fill | 23-Aug-22 | 27-Aug-22 | 5 | 0% | Mas |
| C&ED Mobile X-Ra | | | | - | | |
| 19W10.C.52100 | Construction of foortings (3 bays) | 03-Sep-22 | 19-Sep-22 | 12 | 0% | |
| 19W10.C.52340 | Construction of retaining wall | 20-Sep-22 | 06-Oct-22 | 12 | 0% | |
| 19W10.C.51870 | Excavation | 26-Aug-22 | 02-Sep-22 | 6 | 0% | |
| 19W10.C.51865 | Installation of ELS | 09-Aug-22 | 25-Aug-22 | 14 | 0% | Installation of ELS |
| Water Pump & Tan | | 00-Aug-22 | 20-Aug-22 | 14 | 070 | |
| Electrical Room | | | | | | |
| Generator Room | | | | | | |
| 19W10.C.53810 | Backfilling | 09-Jul-22 | 15-Jul-22 | 5 | 0% | Backfilling |
| 19W10.C.53840 | | | | 5 | | Construction of ground slab |
| | Construction of ground slab | 16-Jul-22 | 20-Jul-22 | 4 | 0% | |
| 19W10.C.53900 | Construction of RC beam & roof slab | 21-Jul-22 | 29-Jul-22 | 7 | 0% | Construction of RC beam & roof slab |
| 19W10.C.53780 | Construction of retaining wall/ column & structure wall | 23-May-22 A | 08-Jul-22 | 7 | 0% | |
| Facade & Roof | | | | | | |
| ABWF Works | | | | | | |
| Building Services | Works | | | | | |
| | port and Specialist Systems | | | | | |
| ost Centre 7 - Ex | | | | | | |
| | | | | | | |
| Fencing and Modi | | | | | | |
| Permanent Fencin | - | | | | | |
| Modification of Sig | gn Gantry DS 23 | | | | | |
| 19W10.C.71572 | Fabrication & delivery of modified sign gantry DS 23 | 05-Sep-22 | 05-Dec-22 | 79 | 0% | Fabrication & |
| 19W10.C.71570 | Modified site gantry shop drawing submission & approval | 08-Aug-22 | 03-Sep-22 | 24 | 0% | Modified site gantry shop drawing submission & approval |
| 19W10.C.71581 | Remove existing sign gantry | 05-Sep-22 | 20-Sep-22 | 12 | 0% | |
| Retaining Wall (R) | W1, RW2 & RW3) | | | | | |
| RW1 (3m height w | | | | | | |
| 19W10.C.71230 | Backfilling | 01-Aug-22 | 11-Aug-22 | 10 | 0% | Backfilling |
| 19W10.C.71130 | Completion of ELS and Excavatoin | 06-May-22 A | 15-Jul-22 | 12 | 0% | |
| 19W10.C.71210 | Steel Fixing and Castthe Slab | 16-Jul-22 | 22-Jul-22 | 6 | 0% | Steel Fixing and Cast the Slab |
| 19W10.C.71220 | Steel Fixing and Castthe Wall | 23-Jul-22 | 30-Jul-22 | 6 | 0% | Steel Fixing and Castthe Wall |
| RW2 ((2.15m heig | - | 20 001 22 | 00 001 22 | 0 | 070 | |
| | | 02 14 00 | 01 Aug 22 | 7 | 00/ | Paalfilling |
| 19W10.C.71280 | Backfilling | 23-Jul-22 | 01-Aug-22 | 7 | 0% | Backfilling |
| 19W10.C.71250 | Completion of ELS and Excavatoin | 21-May-22 A | 07-Jul-22 | 6 | 0% | Steel Fixing and Cast the Slab |
| 19W10.C.71260 | Steel Fixing and Cast the Slab | 08-Jul-22 | 15-Jul-22 | 6 | 0% | |
| 19W10.C.71270 | Steel Fixing and Castthe Wall | 16-Jul-22 | 22-Jul-22 | 6 | 0% | Steel Fixing and Castthe Wall |
| | nt with 3.2m length) | | 1 | 1 | | |
| 19W10.C.71390 | Backfilling | 22-Jul-22 | 29-Jul-22 | 6 | 0% | Backfilling |
| 19W10.C.71320 | Completion of ELS and Excavatoin | 06-Jun-22 A | 06-Jul-22 | 5 | 0% | xoavatoin |
| 19W10.C.71330 | Steel Fixing and Cast the Slab | 07-Jul-22 | 14-Jul-22 | 6 | 0% | Steel Fixing and Cast the Slab |
| 19W10.C.71380 | Steel Fixing and Cast the Wall | 15-Jul-22 | 21-Jul-22 | 6 | 0% | Steel Fixing and Cast the Wall |
| At-Grade Roadwo | prks | | | | | |
| 19W10.C.71580 | Compaction & testing (sub-base) | 30-Aug-22 | 03-Oct-22 | 25 | 0% | Com |
| 19W10.C.71240 | Lay sub-base | 30-Jul-22 | 29-Aug-22 | 25 | 0% | Lay sub-base |
| | Is Inspection Aera Canopy | | | | | |
| | | | | | | |
| E & M Works | | | | | | |
| E&M Works at Car | | i | | - | | |
| 19W10.C.71170 | Access to the Carriageways | | 29-Aug-22 | 0 | 0% | A |
| 19W10.C.71180 | E&M Installation | 30-Aug-22 | 10-Oct-22 | 30 | 0% | |
| Utilities | | | | | | |
| Road Drainage (O | utside Chainage CH685) | | | | | |
| 19W10.C.71510 | SMH 01 to SMH 08 | 22-Aug-22 | 17-Oct-22 | 42 | 0% | SMH 01 |
| Actual LOE | Critical Remaining Work 🐺 Start Constraint | | Droid | oot | יחו | |
| Remaining LOE | ♦ ♦ Milestone | | - | | | C19W10-DWPG-B-AD-M24 Data Date: 30-Jun-22 Printed: 12-Jul-22 13:21 |
| Actual Work | Crit Milestone 🔇 No Predecessors | 3-1 | Month F | Rolli | na F | Programme (As of 30 June 2022) Layout: C19W10 ITT 3MRP - M24 |
| Adual WOIK | | | | | | |
| Remaining Work | ♦ ♦ Actual Milestone ♦ No Successors | | VIOIILIIII | 10m | | Page 2 of 3 |



C19W10 ITTB AD2 Monthly Programme Rev. C Updated as 30 Jun 2022

| | Activity Name | Current Start | Current Finish | Orig Dur | Pct Com | | | 2022 | |
|--------------------------------|--|------------------|-------------------|-------------|------------|------|--|---------------------------------------|------------------|
| | | | | | | | Jun | Jul | Auç |
| 19W10.C.71300 | SMH 09 to SMH 26 | 16-Sep-22 | 15-Nov-22 | 48 | 0% | | | | |
| 19W10.C.71480 | SMH 1002 to SMH 1004 | 28-May-22 A | 20-Aug-22 | 12 | 6.67% | | | | |
| 19W10.C.71515 | SMH 1101 to 1108 | 22-Aug-22 | 17-Oct-22 | 42 | 0% | | | | SMH 1101 1 |
| 19W10.C.71120 | SMH 26 to SMH 37 | 13-May-22 A | 15-Sep-22 | 60 | 0% | | | | |
| 19W10.C.71030 | SMH 37 to SMH 39 | 30-Jun-22 | 15-Jul-22 | 12 | 0% | | SMH 37 to SMH 39 | | |
| 19W10.C.71060 | SMH 46 to SMH 55 | 31-Mar-21 A | 25-Jul-22 | 30 | 3.33% | | | | |
| Sewerage | | | | 1 | | | | | |
| 19W10.C.71670 | CCTV | 08-Aug-22 | 22-Aug-22 | 12 | 0% | | | CCTV | |
| 19W10.C.71460 | FTMH 003 to 003C | 13-Jan-22 A | 11-Jul-22 | 18 | 50% | ; | ₩ | | |
| 19W10.C.71490 | FTMH 004 to 003B | 13-Jan-22 A | 04-Jul-22 | 6 | 50% | - | ······································ | | |
| 19W10.C.71520 | FTMH 006 to 003B | 13-Jan-22 A | 04-Jul-22 | 6 | 50% | 1 | | | |
| 19W10.C.71530 | FTMH 007 to 010 | 25-Jan-22 A | 06-Aug-22 | 30 | 0% | | • • • • • • • • • • • • • • • • • • • | | |
| 19W10.C.71680 | Pressure test | 23-Aug-22 | 06-Sep-22 | 12 | 0% | | | | Pres |
| ELV Ducting | | | | | | | | | |
| 19W10.C.71150 | ELV Ducting At Grade | 30-Jun-22 | 15-Sep-22 | 60 | 0% | | ELV Ducting At Grade | | |
| Water Main | | | | | | | | | |
| 19W10.C.71080 | Install Water Main | 02-Apr-22 A | 26-Oct-22 | 91 | 0% | | | | |
| EL Cable & Ducting | | | | | | | | | |
| 19W10.C.71090 | EL Cable & Ducting At Grade | 30-Jun-22 | 29-Nov-22 | 120 | 0% | | EL Cable & Ducting At Grade | | |
| TCSS Ducting | | | | | | | | | |
| 19W10.C.71350 | TCSS Ducting | 12-Aug-22 | 03-Dec-22 | 90 | 0% | | | TCSS Du | ucting |
| Telecom Ducting | | | | | | | | | |
| 19W10.C.81400 | Connection by others (HGC) | 24-Sep-22 | 11-Oct-22 | 12 | 0% | | | | |
| 19W10.C.81390 | Connection by others (HGV) | 08-Sep-22 | 23-Sep-22 | 12 | 0% | | | | |
| 19W10.C.81380 | Connection by others (HTC) | 24-Aug-22 | 07-Sep-22 | 12 | 0% | | | | Connection by ot |
| 19W10.C.72010 | Connection by others (PCCW) | 09-Aug-22 | 23-Aug-22 | 12 | 0% | | | Connection by others (PCCW) | |
| 19W10.C.72000 | Telecom Ducting | 30-Jun-22 | 08-Aug-22 | 31 | 0% | | Telecom Ducting | · · · · · · · · · · · · · · · · · · · | 3 |
| Road Lighting Duction | ng | | | | | | | | |
| 19W10.C.71610 | Drawing Submission and Material Ordering | 30-Jun-22 | 25-Oct-22 | 90 | 0% | | Drawing Submission and Material Ordering | | |
| 19W10.C.71360 | Road Lighting Ducting At Grade | 27-Aug-22 | 17-Dec-22 | 90 | 0% | | | | Road Lighting I |
| Irrigation | | | | | | | | | |
| 19W10.S.71010 | Consent of Works | | 29-Jul-22 | 0 | 0% | | | Consent of Works 🔶 | |
| 19W10.S.71000 | Submit WWO 046 Part 1 & 2 | 30-Jun-22 | | 0 | 0% | | Submit WWO 046 Part 1 & 2 🔶 | | |
| Fire Hydrant | | | | | | | | | |
| 19W10.C.71110 | Fire Hydrant At Grade | 09-Aug-22 | 30-Nov-22 | 90 | 0% | | | Fire Hydrant At Grade | |
| E-Bus Charger | | | | | | | | | |
| 19W10.C.72030 | Material Order & delivery | 03-Jun-22 A | 29-Dec-22 | 180 | 2.78% | very | | | |
| 19W10.C.72020 | Material submission & approval | 22-Apr-22 A | 02-Jun-22 A | 60 | 100% | | | | |
| Cost Centre 8 - Proje | ct Site Office at Chun Yue Road | | | | | | | | |
| OPTION WORKS | | | | | | | | | |
| Option C19W10/A - | Installation of Optical Fibre Cable Connection | | | | | | | | |
| 19W10.C.A1040 | Civil Provision for Optical Fibre Connection | 06-May-22 A | 21-Jul-22 | 85 | 80% | 1 | | | |
| 19W10.C.A1050 | MEP installation | 22-Jul-22 | 19-Oct-22 | 68 | 0% | | | MEP installation | |
| Option C19W10/B - | | | | | | | | | |
| | Material order & delivery | 30-Jun-22 | 15-Sep-22 | 60 | 0% | | Material order & delivery | | |
| 19W10.C.B1020 | | | · | | - / 0 | 1 1 | | | |
| 19W10.C.B1020 19W10.C.B1010 | Submit BA10 | 28-Jul-22 | 03-Aug-22 | 7 | 0% | | | Submit BA10 | |

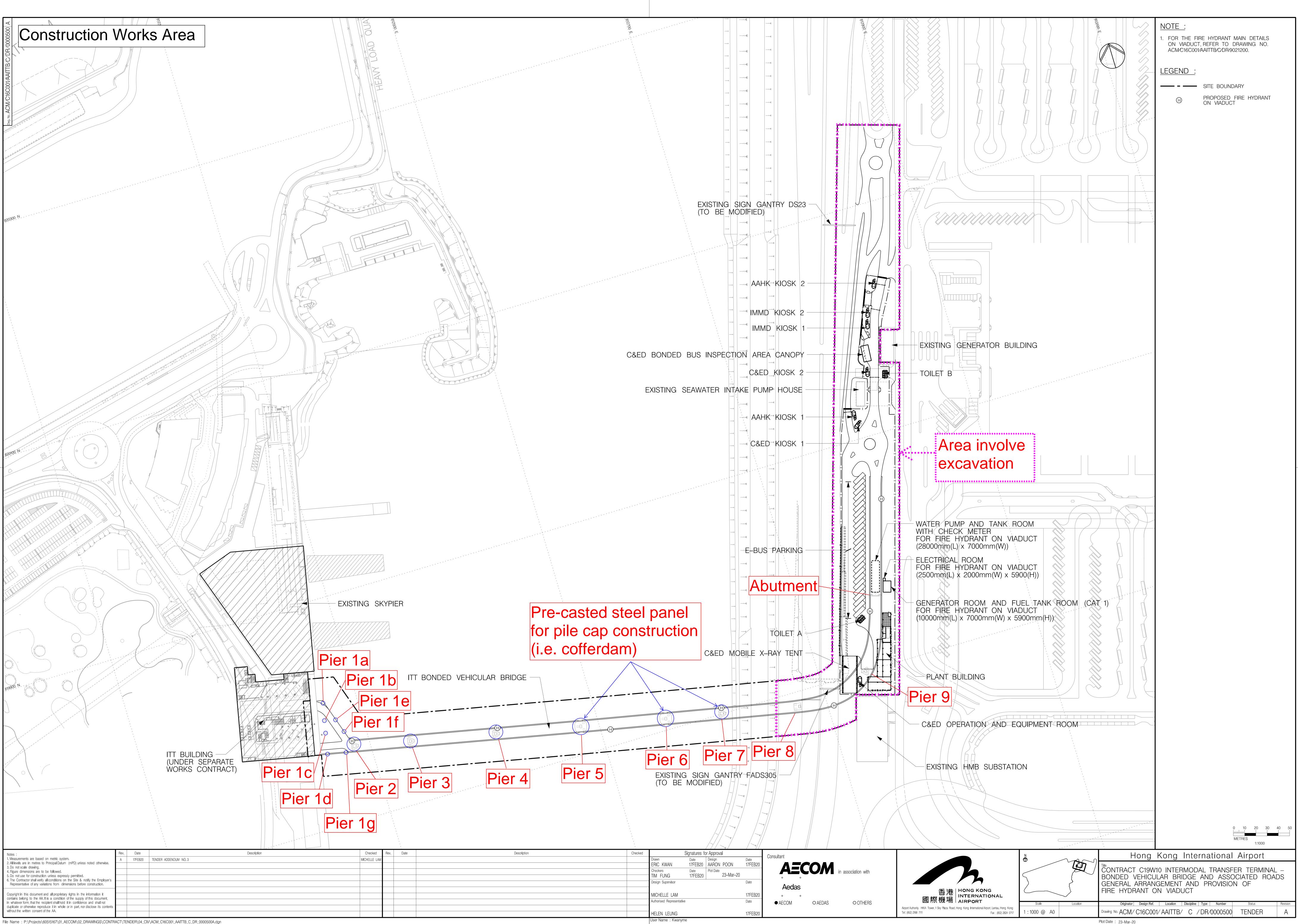
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|---|----------------|-----|-------------------------|---|---|-------------------|
| | Actual LOE | | Critical Remaining Work | ₽ | | Start Constraint |
| | Remaining LOE | • • | Milestone | | ₽ | Finish Constraint |
| | Actual Work | ♦ ♦ | Crit Milestone | ٥ | | No Predecessors |
| | Remaining Work | ♦ ♦ | Actual Milestone | | Þ | No Successors |

Project ID: C19W10-DWPG-B-AD-M24 3-Month Rolling Programme (As of 30 June 2022) Page 3 of 3

Data Date: 30-Jun-22 Printed: 12-Jul-22 13:21 Layout: C19W10 ITT 3MRP - M24 TASK filters: 3-Month Rolling (MPU), Not Level of Effort.

| \ug | | | SWH | Se 09 to SMH 26 | p | |
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| | Con | nection by ot | hers (HGV) | , | . , | |
| oth | ers (HTC) | - | | | | |
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| | 5-Apr-22 | 3MRP M | ar 2022 | | DW | BH |
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Appendix C. Construction Works Area



File Name : P:\Projects\60515167\01_AECOM\02_DRAWINGS\CONTRACT\TENDER\04_CIV\ACM_C16C001_AAITTB_C_DR_0000500A.dgn

Appendix D. Environmental Site Inspection and Monitoring Schedule

ITT-BVB Environmental Monitoring and Site Inspection Schedule for Jun 2022

Jun-22

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|--------------------------|-------------------------------|--------------------------|--------|--------------------------|
| | | | 1 | 2 | 3 | 4 |
| | | | Environmental Site Inspection | Water Quality Monitoring | | Water Quality Monitoring |
| | | | | mid- ebb: 14:47 | | mid- ebb: 16:02 |
| | | | | mid-flood: 7:30 | | mid- flood: 8:25 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | Water Quality Monitoring | Environmental Site Inspection | Water Quality Monitoring | | Water Quality Monitoring |
| | | mid- ebb: 18:23 | | mid- ebb: 9:05 | | mid- ebb: 10:34 |
| | | mid-flood: 5:59 | | mid-flood: 14:28 | | mid- flood: 16:58 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | | Water Quality Monitoring | Environmental Site Inspection | | | Water Quality Monitoring |
| | | mid- ebb: 12:46 | | mid- ebb: 14:24 | | mid- ebb: 16:05 |
| | | mid-flood: 5:51 | | mid- flood: 7:15 | | mid- flood: 8:52 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | | Water Quality Monitoring | Environmental Site Inspection | Water Quality Monitoring | | Water Quality Monitoring |
| | | mid- ebb: 7:24 | | mid- ebb: 9:28 | | mid- ebb: 10:58 |
| | | mid-flood: 12:26 | | mid-flood: 15:10 | | mid- flood: 17:34 |
| 26 | 27 | 28 | 29 | 30 | | |
| | | Water Quality Monitoring | Environmental Site Inspection | Water Quality Monitoring | | |
| | | mid- ebb: 12:47 | | mid- ebb: 13:58 | | |
| | | mid-flood: 19:59 | | mid-flood: 21:13 | | |
| | | Notes: | | | | |
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ITT-BVB Environmental Monitoring and Site Inspection Schedule for Jul 2022

Jul-22

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | |
|--------|--------|--------------------------|-------------------------------|--------------------------|--------|-------------------|----------|
| | | | | | 1 | 2 | |
| | | | | | | Water Quality Mor | nitoring |
| | | | | | | mid- ebb: | 15:08 |
| | | | | | | mid- flood: | 7:48 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | Water Quality Monitoring | Environmental Site Inspection | | | Water Quality Mor | nitoring |
| | | mid- ebb: 17:01 | | mid- ebb: 6:59 | | mid- ebb: | 9:01 |
| | | mid-flood: 9:59 | | mid- flood: 12:19 | | mid- flood: | 15:33 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| | | Water Quality Monitoring | Environmental Site Inspection | | | Water Quality Mor | nitoring |
| | | mid- ebb: 11:43 | | mid- ebb: 13:25 | | mid- ebb: | 15:03 |
| | | mid-flood: 4:36 | | mid- flood: 6:16 | | mid- flood: | 7:59 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| | | Water Quality Monitoring | Environmental Site Inspection | Water Quality Monitoring | | Water Quality Mor | aitoring |
| | | mid- ebb: 17:19 | | mid- ebb: 7:31 | | mid- ebb: | 9:41 |
| | | mid- flood: 10:47 | | mid-flood: 13:11 | | mid- flood: | 16:38 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 | 10.00 |
| | | Water Quality Monitoring | Environmental Site Inspection | Water Quality Monitoring | | Water Quality Mor | nitoring |
| | | mid- ebb: 11:54 | | mid- ebb: 13:06 | | mid- ebb: | 14:15 |
| | | mid-flood: 4:18 | | mid- flood: 5:47 | | mid- flood: | 7:07 |
| 31 | | Notes: | | | | | |
| | | | | | | | |
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Appendix E. Calibration Certificates



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. Date of Issue Page No.

: R-BB030068 : 21 March 2022 : 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

| Name of Equipment : | YSI ProDSS (Multi-Parameters) |
|----------------------------|-------------------------------|
| Manufacturer : | YSI (a xylem brand) |
| Serial Number : | S/N: 16H104233 |
| Date of Received : | 18 March 2022 |
| Date of Calibration : | 18 March 2022 |
| Date of Next Calibration : | 17 June 2022 |

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| <u>Test Parameter</u> | Reference Method |
|-----------------------|---|
| Turbidity | APHA 21e 2130B |
| Conductivity | APHA 21e 2510B |
| Dissolved oxygen | APHA 21e 4500 O |
| pH value | APHA 21e 4500 H+ |
| Salinity | APHA 21e 2520B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March |
| | 2008: Working Thermometer Calibration Procedure |

PART D - CALIBRATION RESULT

(1) Turbidity

| EXPECTED READING (NTU) | DISPLAY READING (NTU) | TOLERANCE (%) | RESULT |
|--------------------------|-----------------------|---------------|--------------|
| 0 | 0.05 | | Satisfactory |
| 10 | 10.09 | 0.9 | Satisfactory |
| 20 | 19.68 | -1.6 | Satisfactory |
| 100 | 104.79 | 4.79 | Satisfactory |
| 800 | 793.41 | -0.82 | Satisfactory |

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

(2) Conductivity

| EXPECTED READING (MS/CM AT 25°C) | DISPLAY READING | TOLERANCE (%) | RESULT |
|----------------------------------|-----------------|---------------|--------------|
| 146.9 | 149.71 | 1.91 | Satisfactory |
| 1412 | 1471 | 4.18 | Satisfactory |
| 12890 | 12690 | -1.55 | Satisfactory |
| 58670 | 57736 | -1.59 | Satisfactory |
| 111900 | 110653 | -1.11 | Satisfactory |

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

(3) Dissolved oxygen

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

| Test Report No. : R-BB03006 | |
|-----------------------------|-----------------|
| Date of Issue | : 21 March 2022 |
| Page No. | : 2 of 2 |

| EXPECTED READING (MG/L) | DISPLAY READING (MG/L) | TOLERANCE (MG/L) | RESULT |
|---------------------------|------------------------|------------------|--------------|
| 8.08 | 8.23 | 0.15 | Satisfactory |
| 4.8 | 4.92 | 0.12 | Satisfactory |
| 1.8 | 1.81 | 0.01 | Satisfactory |
| 0.08 | 0.33 | 0.25 | Satisfactory |

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

(4) pH value

| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT |
|--------------------|-----------------------------|-----------|--------------|
| 4.00 | 4.09 | 0.09 | Satisfactory |
| 7.42 | 7.49 | 0.07 | Satisfactory |
| 10.01 | 9.87 | -0.14 | Satisfactory |

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

(5) Salinity

| EXPECTED READING (G/L) | DISPLAY READING (G/L) | TOLERANCE (%) | RESULT |
|--------------------------|-----------------------|---------------|--------------|
| 10 | 9.9 | -1.00 | Satisfactory |
| 20 | 19.83 | -0.85 | Satisfactory |
| 30 | 30.33 | 1.10 | Satisfactory |

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

(6) Temperature

| READING OF REF. THERMOMETER (°C) | DISPLAY READING (°C) | TOLERANCE (°C) | RESULT |
|------------------------------------|------------------------|------------------|--------------|
| 10 | 10 | 0 | Satisfactory |
| 20 | 20 | 0 | Satisfactory |
| 48 | 48 | 0 | Satisfactory |

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

Remark(s)

•The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards. •The results relate only to the calibrated equipment as received

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

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

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

--- END OF REPORT ----



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. Date of Issue Page No. : R-BB060021 : 13 June 2022 : 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

| Name of Equipment : | YSI ProDSS (Multi-Parameters) |
|----------------------------|-------------------------------|
| Manufacturer : | YSI (a xylem brand) |
| Serial Number : | 16H104233 |
| Date of Received : | 10 June 2022 |
| Date of Calibration : | 10 June 2022 |
| Date of Next Calibration : | 09 September 2022 |
| | |

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| <u>Test Parameter</u> | Reference Method |
|-----------------------|---|
| Turbidity | APHA 21e 2130B |
| Dissolved oxygen | APHA 21e 4500 O |
| pH value | APHA 21e 4500 H+ |
| Salinity | APHA 21e 2520B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March |
| | 2008: Working Thermometer Calibration Procedure |
| Conductivity | APHA 21e 2510B |

PART D - CALIBRATION RESULT

(1) Turbidity

| EXPECTED READING (NTU) | DISPLAY READING (NTU) | TOLERANCE (%) | RESULT |
|-------------------------------|-------------------------|---------------|--------------|
| 0 | 0.03 | | Satisfactory |
| 10 | 9.98 | -0.2 | Satisfactory |
| 20 | 20.16 | 0.8 | Satisfactory |
| 100 | 107.6 | 7.6 | Satisfactory |
| 800 | 796 | -0.5 | Satisfactory |

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

(2) Dissolved oxygen

| EXPECTED READING (MG/L) | DISPLAY READING (MG/L) | TOLERANCE | RESULT |
|---------------------------|--------------------------|-----------|--------------|
| 7.78 | 7.81 | 0.03 | Satisfactory |
| 4.72 | 4.92 | 0.20 | Satisfactory |
| 2.60 | 2.38 | -0.22 | Satisfactory |
| 0.09 | 0.30 | 0.21 | Satisfactory |

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

(3) pH value

| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT |
|--------------------|-----------------------------|-----------|--------|
| | | | |

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB060021

| | Date of Issue Page No. | : 13 June 20 : 2 of 2 | 022 |
|--------------------|-----------------------------|--------------------------|--------------|
| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT |
| 4.00 | 3.96 | -0.04 | Satisfactory |
| 7.42 | 7.48 | 0.06 | Satisfactory |
| 10.01 | 9.95 | -0.06 | Satisfactory |

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

(4) Salinity

| EXPECTED READING (G/L) | DISPLAY READING (G/L) | TOLERANCE (%) | RESULT |
|--------------------------|-------------------------|---------------|--------------|
| 10 | 9.92 | -0.80 | Satisfactory |
| 20 | 20.20 | 1.00 | Satisfactory |
| 30 | 30.22 | 0.73 | Satisfactory |

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

(5) Temperature

| READING OF REF. THERMOMETER ($^{\circ}C$) | DISPLAY READING (°C) | TOLERANCE | RESULT |
|---|------------------------|-----------|--------------|
| 10 | 10 | 0 | Satisfactory |
| 20 | 20 | 0 | Satisfactory |
| 40 | 40 | 0 | Satisfactory |

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

(6) Conductivity

| EXPECTED READING (MS/CM AT 25°C) | DISPLAY READING | TOLERANCE (%) | RESULT |
|------------------------------------|-----------------|---------------|--------------|
| 146.9 | 137.1 | -6.67 | Satisfactory |
| 1412 | 1328.2 | -5.93 | Satisfactory |
| 12890 | 12567.8 | -2.50 | Satisfactory |
| 58670 | 57574 | -1.87 | Satisfactory |
| 111900 | 109783 | -1.89 | Satisfactory |

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

Remark(s)

•The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards. •The results relate only to the calibrated equipment as received

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

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

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

--- END OF REPORT ---



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. Date of Issue Page No. : R-BB040015 : 08 April 2022 : 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

| Name of Equipment : | YSI ProDSS (Multi-Parameters) | |
|----------------------------|-------------------------------|--|
| Manufacturer : | YSI (a xylem brand) | |
| Serial Number : | S/N: 17E100747 | |
| Date of Received : | 08 April 2022 | |
| Date of Calibration : | 08 April 2022 | |
| Date of Next Calibration : | 07 July 2022 | |
| | | |

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| <u>Test Parameter</u> | Reference Method |
|-----------------------|---|
| Turbidity | APHA 21e 2130B |
| Dissolved oxygen | APHA 21e 4500 O |
| pH value | APHA 21e 4500 H+ |
| Salinity | APHA 21e 2520B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March |
| | 2008: Working Thermometer Calibration Procedure |
| Conductivity | APHA 21e 2510B |

PART D - CALIBRATION RESULT

(1) Turbidity

| EXPECTED READING (NTU) | DISPLAY READING (NTU) | TOLERANCE (%) | RESULT |
|---------------------------------|-------------------------|---------------|--------------|
| 0 | 0.05 | | Satisfactory |
| 10 | 9.94 | -0.6 | Satisfactory |
| 20 | 19.9 | -0.5 | Satisfactory |
| 100 | 97.96 | -2.0 | Satisfactory |
| 800 | 797.37 | -0.3 | Satisfactory |

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

(2) Dissolved oxygen

| EXPECTED READING (MG/L) | DISPLAY READING (MG/L) | TOLERANCE (MG/L) | RESULT |
|---------------------------|------------------------|------------------|--------------|
| 8.23 | 8.39 | 0.16 | Satisfactory |
| 5.61 | 5.79 | 0.18 | Satisfactory |
| 4.20 | 4.36 | 0.16 | Satisfactory |
| 0.15 | 0.40 | 0.25 | Satisfactory |

Tolerance of Dissolved oxygen should be less than $\pm\,0.5$ (mg/L)

(3) pH value

| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT |
|--------------------|-----------------------------|-----------|--------|
| | ON NEXT DAGE | | |

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AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

| Page No. | : 2 of 2 |
|-----------------|-----------------|
| Date of Issue | : 08 April 2022 |
| Test Report No. | :R-BB040015 |

| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT |
|--------------------|-----------------------------|-----------|--------------|
| 4.00 | 4.06 | 0.06 | Satisfactory |
| 7.42 | 7.47 | 0.05 | Satisfactory |
| 10.01 | 10.18 | 0.17 | Satisfactory |

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

(4) Salinity

| EXPECTED READING (G/L) | DISPLAY READING (G/L) | TOLERANCE (%) | RESULT |
|--------------------------|-----------------------|---------------|--------------|
| 10 | 10.24 | 2.40 | Satisfactory |
| 20 | 20.37 | 1.85 | Satisfactory |
| 30 | 30.18 | 0.60 | Satisfactory |

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

(5) Temperature

| READING OF REF. THERMOMETER (°C) | DISPLAY READING (°C) | TOLERANCE (°C) | RESULT |
|------------------------------------|------------------------|----------------|--------------|
| 10 | 10.0 | 0.0 | Satisfactory |
| 20 | 19.9 | -0.1 | Satisfactory |
| 48 | 48.0 | 0.0 | Satisfactory |

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

(6) Conductivity

| EXPECTED READING (MS/CM AT 25°C) | DISPLAY READING | TOLERANCE (%) | RESULT |
|------------------------------------|-----------------|---------------|--------------|
| 146.9 | 151.3 | 3.00 | Satisfactory |
| 1412 | 1380 | -2.27 | Satisfactory |
| 12890 | 12258 | -4.90 | Satisfactory |
| 58670 | 58105 | -0.96 | Satisfactory |
| 111900 | 112267 | 0.33 | Satisfactory |

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

Remark(s)

•The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards. •The results relate only to the calibrated equipment as received

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

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

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

--- END OF REPORT ---

Appendix F. Event and Action Plan

Table F.1: Event and Action Plan for Marine Water Quality

| | | Ac | tion | |
|---|---|---|---|--|
| Event | ET | IEC | AAHK / PM | Contractor |
| Action level being exceeded by one sampling day | Repeat <i>in-situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. | Review proposals on mitigation measures submitted by Contractor and advise AAHK / PM accordingly; Assess the effectiveness of the implemented mitigation measures. | Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. | Inform the AAHK / PM and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures. |
| Action level being exceeded by two or more consecutive sampling days | Repeat <i>in-situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next day of exceedance. | Review proposals on mitigation measures submitted by Contractor and advise the AAHK / PM accordingly; Assess the effectiveness of the implemented mitigation measures. | Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. | Inform the AAHK / PM and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and AAHK / PM within 3 working days; Implement the agreed mitigation measures. |
| Limit level being exceeded by one sampling day | Repeat <i>in-situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC, Contractor and | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the AAHK / | Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement | Inform the AAHK / PM and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and |

| | | Ac | tion | |
|--|---|---|--|---|
| Event | ET | IEC | AAHK / PM | Contractor |
| | EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, AAHK / PM and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of limit level. | | on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures. | equipment; 4. Consider changes of working methods; 5. Discuss with ET, IEC and AAHK / PM and propose mitigation measures to IEC and AAHK / PM within three workin days; 6. Implement the agreed mitigation measures. |
| Limit level being exceeded by two or more consecutive sampling days | Repeat <i>in-situ</i> measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, AAHK / PM and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. | Review proposals on mitigation measures submitted by Contractor and advise the AAHK / PM accordingly; Assess the effectiveness of implemented mitigation measures. | Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. | unacceptable practices; Check all plant and equipment; Consider changes of working method; Discuss with ET, IFC and AAHK / |

Appendix G. Monitoring Data and Graphical Plots

| Water Qua | lity Moni | toring Resu | lts on | | 02 June 22 | during Mid | -Ebb Tic | le | | | | | | | | | | | | |
|------------|-----------|---------------|----------|------|-------------|------------|--------------|-----------------|------------|---------|-------|------------|----------------|-----------|--------------------|-----|-------------|------|-----------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | p | Н | Salir | nity (ppt) | DO Satur | ation (%) | Dissolved (mg/l | | Turbidity(I | NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.9 | 27.0 | 8.0 | 8.0 | 15.6 | 15.6 | 99.4 | 99.5 | 7.3 | | 4.2 | | 3.1 | |
| | | | | | Sunace | 1.0 | 27.0 | 27.0 | 8.0 | 0.0 | 15.6 | 15.0 | 99.6 | 99.0 | 7.2 | 7.1 | 4.1 | | 3.3 | |
| C1 | Misty | Moderate | 13:47 | 10.0 | Middle | 5.0 | 26.6 | 26.8 | 8.0 | 8.0 | 16.6 | 17.2 | 97.2 | 97.3 | 7.1 | 7.1 | 5.1 | 5.1 | 2.6 | 2.8 |
| 01 | Miloty | moderate | 10.11 | 10.0 | Middlo | 5.0 | 26.9 | 20.0 | 8.0 | 0.0 | 17.8 | | 97.4 | 01.0 | 6.9 | | 5.1 | 0.1 | 2.9 | 2.0 |
| | | | | | Bottom | 9.0 | 26.5 | 26.8 | 8.0 | 8.0 | 21.7 | 21.6 | 103.7 | 103.6 | 7.4 | 7.3 | 6.0 | | 2.3 | 1 |
| | | | | | | 9.0 | 27.0 | | 8.0 | | 21.4 | - | 103.5 | | 7.2 | | 6.1 | | 2.5 | <u> </u> |
| | | | | | Surface | 1.0 | 27.0 | 27.1 | 8.0 | 8.0 | 16.7 | 16.7 | 100.2 | 100.0 | 7.3 | - | 2.0 | | 2.1 | 1 |
| | | | | | | 1.0 | 27.1 | | 8.0 | | 16.7 | | 99.8 | | 7.1 | 7.3 | 2.0 | | 2.4 | 4 |
| C2 | Misty | Moderate | 14:04 | 10.2 | Middle | 5.1 5.1 | 27.0 27.1 | 27.1 | 8.0 8.0 | 8.0 | 17.1 | 17.1 | 101.4 101.0 | 101.2 | 7.4 7.2 | - | 3.2 3.2 | 3.4 | 2.5 2.3 | 2.5 |
| | | | | | | 9.2 | 27.1 | | 8.0 | | 17.1 | | 101.0 | | 7.6 | | 4.9 | | 2.3 | 1 |
| | | | | | Bottom | 9.2 | 27.0 | 27.0 | 8.0 | 8.0 | 18.5 | 18.5 | 105.2 | 105.2 | 7.5 | 7.6 | 5.0 | | 3.0 | 1 |
| | | | | | | 1.0 | 27.1 | | 8.0 | | 17.3 | | 102.4 | | 7.4 | | 3.9 | | 3.0 | <u> </u> |
| | | | | | Surface | 1.0 | 27.0 | 27.1 | 8.0 | 8.0 | 17.4 | 17.4 | 101.9 | 102.2 | 7.3 | 1 | 4.0 | | 3.6 | |
| | | | 10 51 | 4.0 | NAC L II | - | - | | - | | - | | - | | - | 7.4 | - | | - | |
| M1 | Misty | Moderate | 13:54 | 4.0 | Middle | - | - | - | - | - | - | - | - | - | - | | - | 4.4 | - | 3.1 |
| | | | | | Bottom | 3.0 | 26.9 | 27.0 | 8.0 | 8.0 | 19.8 | 19.8 | 113.0 | 113.0 | 8.1 | 8.0 | 4.9 | | 2.7 | |
| | | | | | Bollom | 3.0 | 27.1 | 27.0 | 8.0 | 8.0 | 19.8 | 19.8 | 112.9 | 113.0 | 7.9 | 8.0 | 4.9 | | 2.9 | |
| | | | | | Surface | 1.0 | 27.3 | 27.3 | 8.0 | 8.0 | 16.4 | 16.8 | 106.1 | 106.3 | 7.7 | | 2.7 | | 2.4 | |
| | | | | | Odnace | 1.0 | 27.3 | 27.5 | 8.0 | 0.0 | 17.1 | 10.0 | 106.4 | 100.0 | 7.6 | 7.7 | 2.7 | | 2.7 | 1 |
| M2 | Misty | Moderate | 13:57 | 4.2 | Middle | - | - | - | - | - | - | - | - | | - | | - | 3.0 | - | 2.8 |
| | | | | | | - | - | | - | | - | | - | | - | | - | | - | |
| | | | | | Bottom | 3.2 | 27.0 | 27.2 | 8.0 | 8.0 | 18.2 | 17.8 | 114.3 | 114.3 | 8.1 | 8.1 | 3.2 | | 3.2 | ł |
| | | | | | | 3.2 | 27.3 26.6 | | 8.0 | | 17.4 | | 114.2 | | 8.1 | | 3.2 | | 3.0 | <u> </u> |
| | | | | | Surface | 1.0 1.0 | 26.6 | 26.7 | 8.0 8.0 | 8.0 | 17.0 | 17.1 | 99.5 99.5 | 99.5 | 7.3 7.1 | - | 4.8 4.8 | | 2 | 1 |
| | | | | | | 4.1 | 26.3 | | 8.0 | | 20.6 | | 99.5 89.9 | | 6.5 | 6.8 | 4.0 5.4 | | 3 | 1 |
| M3 | Misty | Moderate | 13:51 | 8.2 | Middle | 4.1 | 26.8 | 26.6 | 8.0 | 8.0 | 20.0 | 20.5 | 90.1 | 90.0 | 6.4 | | 5.4 | 5.6 | 3 | 3 |
| | | | | | | 7.2 | 26.1 | | 7.9 | | 26.5 | | 97.5 | | 6.8 | | 6.5 | | 4 | 1 |
| | | | | | Bottom | 7.2 | 26.7 | 26.4 | 8.0 | 8.0 | 26.1 | 26.3 | 97.1 | 97.3 | 6.6 | 6.7 | 6.5 | | 5 | 1 |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| | | Its on | | | | -Flood T | | | | | | | | | | | | | |
|-----------|---|---|---|--|---|--|---|---|--|--|-------------------|--|---|---|--|---|---|--|--|
| Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water Te | emperature (°C) | р | Н | Salin | ity (ppt) | DO Satu | ration (%) | Dissolved ((mg/l | | Turbidity(I | NTU) | Suspende (mg | |
| Condition | | Time | (m) | | -1 · () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | Surface | 1.0 | 26.6 | 26.6 | 8.0 | | 24.5 | 04 E | 90.4 | 00.2 | 6.3 | | 2.2 | | 2.4 | |
| | | | | Surrace | 1.0 | 26.6 | 20.0 | 7.9 | 8.0 | 24.5 | 24.5 | 90.2 | 90.3 | 6.3 | 6.4 | 2.1 | | 2.1 | 1 |
| Mistv | Moderate | 09.05 | 9.8 | Middle | 4.9 | 26.2 | 26.4 | 7.9 | 79 | 25.2 | 25.2 | 91.9 | 91.9 | 6.4 | 0.4 | 3.3 | 33 | 2.4 | 2.6 |
| wildty | Woderate | 00.00 | 5.0 | INIGGIE | 4.9 | 26.6 | 20.4 | | 1.5 | 25.2 | 20.2 | 91.8 | 51.5 | 6.4 | | 3.3 | 0.0 | 2.6 | 2.0 |
| | | | | Bottom | | 26.1 | 26.4 | 7.9 | 79 | 25.8 | 25.8 | 94.2 | 94.4 | 6.6 | 66 | 4.0 | | | 1 |
| | | | | Dottoin | | | 20.1 | | 1.0 | | 20.0 | 00 | 01.1 | | 0.0 | - | | | <u> </u> |
| | | | | Surface | | | 26.4 | | 8.0 | | 24.6 | | 88.3 | | | | | | 1 |
| | | | | | | | | | | | | | | | 6.2 | | | | 4 |
| Misty | Moderate | 08:48 | 11.0 | Middle | | | 26.3 | | 8.0 | | 26.4 | | 89.7 | | - | | 3.2 | | 2.9 |
| | | | | | | | | | | | | | | | | - | | | 1 |
| | | | | Bottom | | | 26.3 | 7.9 | 8.0 | 20.0 | 26.6 | | 92.1 | | 6.4 | | | | 1 |
| | | | | | | - | | | | | | - | | | | | | | |
| | | | | Surface | | | 27.2 | | 7.9 | | 16.5 | | 94.9 | | | | | | 1 |
| | | 00.50 | 5.0 | | - | - | | - | | - | | - | | - | 6.9 | - | ~ 4 | - | |
| Misty | Moderate | 08:58 | 5.0 | Middle | - | - | - | - | - | - | - | - | | - | | - | 3.4 | - | 2.4 |
| | | | | Bottom | 4.0 | 27.4 | 27.3 | 8.0 | 8.0 | 16.4 | 16.5 | 98.5 | 96.6 | 7.1 | 7.0 | 3.9 | | 2.4 | |
| | | | | Bollom | 4.0 | 27.2 | 21.5 | 7.9 | 0.0 | 16.5 | 10.5 | 94.7 | 90.0 | 6.9 | 7.0 | 3.9 | | 2.7 | L |
| | | | | Surface | 1.0 | 27.1 | 27 1 | 8.0 | 8.0 | 15.2 | 15 1 | 95.1 | 94 7 | 6.9 | | 2.9 | | 2.5 | l |
| | | | | Cunado | 1.0 | 27.0 | | 7.9 | 0.0 | 14.9 | | 94.2 | • | 6.9 | 6.9 | 3.0 | | 2.7 | 1 |
| Mistv | Moderate | 08:55 | 4.6 | Middle | - | - | - | - | - | - | - | - | | - | 0.0 | - | 3.2 | - | 2.5 |
| | | | | | - | - | | - | | - | | - | | - | | - | • | - | 1 |
| | | | | Bottom | | | 27.2 | | 8.0 | | 16.6 | | 97.0 | | 7.1 | | | | 1 |
| | | | | | | | | | | | | | | | | | | | <u> </u> |
| | | | | Surface | | | 26.9 | 7.9 | 7.9 | | 15.4 | | 91.1 | | | | | | 4 |
| | | | | | - | | | - | | | | | | | 6.5 | | | | 1 |
| Misty | Moderate | 09:01 | 7.4 | Middle | | - | 27.0 | | 7.9 | | 17.5 | | 87.4 | | - | | 3.1 | | 3 |
| | | | | | - | | | - | | | | | | | | - | | | i – |
| | | | | Bottom | | | 27.0 | | 7.9 | | 23.7 | | 90.2 | | 6.3 | | | | 1 |
| | Condition Misty Misty Misty Misty | ConditionSea ConditionMistyModerateMistyModerateMistyModerateMistyModerateMistyModerate | ConditionSea ConditionTime ofMistyModerate09:05MistyModerate08:48MistyModerate08:58MistyModerate08:55 | ConditionSea ConditionTime(m)MistyModerate09:059.8MistyModerate08:4811.0MistyModerate08:585.0MistyModerate08:554.6MistyImmediate1.11.1 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Condition Time (m) Sampling Depth (m) Misty Moderate (m) (m) Sampling Depth (m) Misty Moderate 09:05 9.8 Surface 1.0 Misty Moderate 09:05 9.8 Middle 4.9 Misty Moderate 09:05 9.8 Middle 4.9 Misty Moderate 08:48 11.0 Surface 1.0 Misty Moderate 08:48 11.0 Surface 1.0 Misty Moderate 08:58 5.0 Middle 5.5 Misty Moderate 08:58 5.0 Middle - Misty Moderate 08:55 4.6 Surface 1.0 Misty Moderate 08:55 4.6 Surface 1.0 Misty Moderate 09:01 7.4 Surface 1.0 Misty Moderate 09:01 7.4 Surface 1.0 | Weather ConditionSampling TimeWater Depti (m)Sampling Depti (m)YalueMide26.01.026.61.026.61.026.61.026.64.926.64.926.64.926.68.826.18.826.1Bottom8.826.18.826.1Middle6.826.13.626.1MistyModerate08:4811.026.31.026.3MistyModerate08:5811.0Middle5.526.1MistyModerate08:585.0Middle1.027.1MistyModerate08:555.01.027.1MistyModerate08:554.6Middle1.027.1MistyModerate08:554.6Surface1.027.1MistyModerate08:554.6Middle1.027.1MistyModerate08:554.6Middle1.027.1MistyModerate08:554.6Middle1.027.1MistyModerate08:554.6Middle1.026.9MistyModerate08:554.6Middle1.026.9MistyModerate09:017.41.026.9MistyModerate09:017.11.026.9MistyModerate09:017.11.026.9MistyMiddle <t< td=""><td>$\begin{array}{ c c c c } \hline \mbox{Condition} & \mbox{Fine} & \mbox{Cm} & \mb$</td><td>Weather Condition ConditionSampling TimeWater Depin (m)Sampling Depth (m)Increase of the second second</td><td>Weathing ConditionSampling TimeWater Deprison (m)Sampling Depth (m)Image of the term ValueAverageValueAverageMistyModerate09:05<t< td=""><td>Sea Condition ConditionSampling bepth (m)Sampling Depth (m)ValueAverageValueValueAverageValueZala<</br></td><td>Sea Condition Sampling Water Depth (m) Sampling Depth (m) Value Average Value Value Average Va</td><td>Near Condition Sampling Deph (m) Sampling Deph (m) Name (m) Sampling Deph (m) Value Average Value Average</td><td>Mean Sampling Price Main Point (m) Sampling Price Main Point (m) Main Point (m)</td></t<><td>Weathing Condition Name of the matrix of the m</td><td>Weath Condition Sampling Time Water Condition Sampling Deptherm S</td><td>Weath Condition Sampling Prime Sampling Prim Sampling Prime Sampli</td><td>Weatring Condim Sampling Time Sampling Point Water Point Sampling Point Sampling</td><td>Wear is applied by the conditional state is applied by the frame is applied by the conditional state is applied by the condit of the conditional state is applied by the conditional state</td></td></t<> | $ \begin{array}{ c c c c } \hline \mbox{Condition} & \mbox{Fine} & \mbox{Cm} & \mb$ | Weather Condition ConditionSampling TimeWater Depin (m)Sampling Depth (m)Increase of the second | Weathing ConditionSampling TimeWater Deprison (m)Sampling Depth (m)Image of the term ValueAverageValueAverageMistyModerate09:05 <t< td=""><td>Sea Condition ConditionSampling bepth (m)Sampling Depth (m)ValueAverageValueValueAverageValueZala<</br></td><td>Sea Condition Sampling Water Depth (m) Sampling Depth (m) Value Average Value Value Average Va</td><td>Near Condition Sampling Deph (m) Sampling Deph (m) Name (m) Sampling Deph (m) Value Average Value Average</td><td>Mean Sampling Price Main Point (m) Sampling Price Main Point (m) Main Point (m)</td></t<> <td>Weathing Condition Name of the matrix of the m</td> <td>Weath Condition Sampling Time Water Condition Sampling Deptherm S</td> <td>Weath Condition Sampling Prime Sampling Prim Sampling Prime Sampli</td> <td>Weatring Condim Sampling Time Sampling Point Water Point Sampling Point Sampling</td> <td>Wear is applied by the conditional state is applied by the frame is applied by the conditional state is applied by the condit of the conditional state is applied by the conditional state</td> | Sea Condition | Sea Condition Sampling Water Depth (m) Sampling Depth (m) Value Average Value Value Average Va | Near Condition Sampling Deph (m) Sampling Deph (m) Name (m) Sampling Deph (m) Value Average Value Average | Mean Sampling Price Main Point (m) Sampling Price Main Point (m) Main Point (m) | Weathing Condition Name of the matrix of the m | Weath Condition Sampling Time Water Condition Sampling Deptherm S | Weath Condition Sampling Prime Sampling Prim Sampling Prime Sampli | Weatring Condim Sampling Time Sampling Point Water Point Sampling | Wear is applied by the conditional state is applied by the frame is applied by the conditional state is applied by the condit of the conditional state is applied by the conditional state |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | ilts on | | 04 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|------|-------------|------------|--------------|-----------------|------------|---------|--------------|------------|----------------|-----------|--------------------|-----|------------|------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | р | Н | Salir | nity (ppt) | DO Satur | ation (%) | Dissolved (mg/l | | Turbidity(| NTU) | Suspende (mg/ | |
| Station | Condition | | Time | (m) | | r () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.8 | 27.0 | 8.0 | 8.0 | 15.1 | 15.1 | 99.1 | 99.3 | 7.3 | | 2.7 | | 2.2 | |
| | | | | | Sunace | 1.0 | 27.1 | 27.0 | 8.0 | 8.0 | 15.0 | 15.1 | 99.4 | 99.3 | 7.2 | 7.0 | 2.7 | | 2.4 | 1 |
| C1 | Misty | Moderate | 14:39 | 10.0 | Middle | 5.0 | 26.6 | 26.8 | 8.0 | 8.0 | 17.6 | 17.8 | 92.5 | 92.6 | 6.7 | 7.0 | 3.1 | 3.0 | 1.7 | 1.8 |
| 01 | whicty | modorato | 11.00 | 10.0 | middio | 5.0 | 27.0 | 20.0 | 8.0 | 0.0 | 17.9 | | 92.6 | 02.0 | 6.6 | | 3.0 | 0.0 | 1.9 | 1.0 |
| | | | | | Bottom | 9.0 | 26.3 | 26.6 | 8.0 | 8.0 | 18.5 | 18.5 | 88.2 | 88.7 | 6.4 | 6.4 | 3.4 | | 1.2 | 1 |
| | | 1 | | | | 9.0 | 26.9 | | 7.9 | | 18.4 | | 89.1 | | 6.3 | | 3.3 | | 1.5 | <u> </u> |
| | | | | | Surface | 1.0 1.0 | 27.1 27.2 | 27.2 | 8.0 8.0 | 8.0 | 14.9 15.0 | 15.0 | 105.0 102.9 | 104.0 | 7.7 7.5 | - | 1.1 1.1 | | 1.3 1.5 | i |
| | | | | | | 5.1 | 27.2 | | 8.0 | | 15.0 | | 102.9 | | 7.3 | 7.5 | 1.1 | | 1.5 | i |
| C2 | Misty | Moderate | 14:56 | 10.2 | Middle | 5.1 | 27.2 | 27.1 | 8.0 | 8.0 | 15.6 | 15.3 | 100.5 | 100.3 | 7.3 | - | 1.2 | 1.5 | 1.6 | 1.8 |
| | | | | | | 9.2 | 27.0 | | 8.0 | | 17.3 | | 100.3 | | 7.3 | | 2.3 | | 2.1 | Í |
| | | | | | Bottom | 9.2 | 27.2 | 27.1 | 8.0 | 8.0 | 17.5 | 17.4 | 103.2 | 101.8 | 7.4 | 7.4 | 2.2 | | 2.3 | i |
| | | | | | Surface | 1.0 | 27.1 | 27.1 | 8.0 | 8.0 | 15.3 | 15.3 | 99.1 | 99.1 | 7.3 | | 3.5 | | 1.5 | |
| | | | | | Sunace | 1.0 | 27.0 | 27.1 | 8.0 | 8.0 | 15.3 | 15.5 | 99.1 | 99.1 | 7.1 | 7.2 | 3.4 | | 1.9 | 1 |
| M1 | Misty | Moderate | 14:47 | 5.0 | Middle | - | - | _ | - | - | - | | - | | - | 1.2 | - | 3.8 | - | 2.0 |
| | whicty | modorato | | 0.0 | middio | - | - | | - | | - | | - | | - | | - | 0.0 | - | 2.0 |
| | | | | | Bottom | 4.0 | 26.9 | 27.0 | 8.0 | 8.0 | 19.1 | 19.1 | 101.1 | 101.7 | 7.3 | 7.3 | 4.1 | | 2.4 | 1 |
| | | 1 | | | | 4.0 | 27.1 | | 7.9 | | 19.1 | | 102.2 | | 7.2 | | 4.1 | | 2.2 | <u> </u> |
| | | | | | Surface | 1.0 1.0 | 27.0 27.0 | 27.0 | 8.0 8.0 | 8.0 | 15.3 15.2 | 15.3 | 98.2 96.3 | 97.3 | 7.2 7.1 | - | 4.0 3.9 | | 2.2 2.2 | Í |
| | | | | | | - | - 27.0 | | - 0.0 | | - | | - 90.3 | | - | 7.2 | - 3.9 | | - | Í |
| M2 | Misty | Moderate | 14:50 | 4.2 | Middle | - | - | - | - | - | - | - | - | - | - | - | - | 4.3 | - | 2.5 |
| | | | | | | 3.2 | 27.1 | | 7.9 | | 22.6 | | 97.9 | | 6.9 | | 4.7 | | 3.0 | Í |
| | | | | | Bottom | 3.2 | 27.1 | 27.1 | 7.9 | 7.9 | 23.3 | 23.0 | 95.0 | 96.5 | 6.7 | 6.8 | 4.6 | | 2.6 | i i |
| | | | | | Curtosa | 1.0 | 26.5 | 26.6 | 8.0 | 8.0 | 20.6 | 20.6 | 94.0 | 94.1 | 6.7 | | 3.2 | | 3 | |
| | | | | | Surface | 1.0 | 26.7 | 26.6 | 8.0 | 0.0 | 20.6 | 20.0 | 94.1 | 94.1 | 6.7 | 6.6 | 3.1 | | 3 | j |
| M3 | Misty | Moderate | 14:43 | 8.2 | Middle | 4.1 | 26.3 | 26.4 | 8.0 | 8.0 | 23.0 | 22.8 | 92.8 | 92.7 | 6.6 | 0.0 | 4.2 | 4.3 | 3 | 3 |
| Wio | wildty | moderate | 17.70 | 0.2 | Middle | 4.1 | 26.5 | 20.7 | 8.0 | 0.0 | 22.6 | 22.0 | 92.6 | 52.1 | 6.5 | | 4.2 | 4.0 | 3 | Ŭ |
| | | | | | Bottom | 7.2 | 26.3 | 26.5 | 8.0 | 8.0 | 25.9 | 25.9 | 94.5 | 94.4 | 6.6 | 6.6 | 5.4 | | 2 | 4 |
| | | | | | | 7.2 | 26.6 | | 8.0 | | 25.9 | | 94.2 | - | 6.5 | | 5.5 | | 2 | <u> </u> |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | Its on | | 04 June 22 | during Mid | -Flood 1 | lide | - | | | | | | | | - | | | |
|------------|-----------|---------------|----------|------|------------|--------------|--------------|-----------------|------------|---------|--------------|------------|--------------|------------|-------------------|-----|------------|------|------------------|-----|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water Te | emperature (°C) | р | Н | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg. | |
| Station | Condition | | Time | (m) | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 27.0 | 26.0 | 7.9 | 7.0 | 14.4 | 14.4 | 98.1 | 98.1 | 7.1 | | 2.1 | | 2.5 | 1 |
| | | | | | Surface | 1.0 | 26.7 | 26.9 | 7.9 | 7.9 | 14.4 | 14.4 | 98.1 | 98.1 | 7.2 | 7.2 | 2.0 | | 2.3 | 1 |
| C1 | Misty | Moderate | 09:09 | 9.6 | Middle | 4.8 | 26.7 | 26.7 | 7.9 | 7.9 | 15.2 | 15.2 | 99.2 | 99.2 | 7.2 | 1.2 | 3.2 | 3.1 | 2.5 | 2.6 |
| 01 | wildty | Woderate | 05.05 | 5.0 | Middle | 4.8 | 26.7 | 20.7 | 7.9 | 1.5 | 15.2 | 10.2 | 99.2 | 33.2 | 7.2 | | 3.1 | 0.1 | 2.6 | 2.0 |
| | | | | | Bottom | 8.6 | 26.3 | 26.6 | 7.9 | 7.9 | 16.2 | 16.2 | 102.1 | 102.1 | 7.4 | 7.4 | 4.0 | | 2.8 | 1 |
| | | | | | Bottom | 8.6 | 26.9 | 20.0 | 7.9 | 7.5 | 16.2 | 10.2 | 102.1 | 102.1 | 7.3 | 7.4 | 4.3 | | 3.0 | |
| | | | | | Surface | 1.0 | 26.3 | 26.5 | 8.0 | 8.0 | 22.4 | 22.4 | 95.9 | 95.9 | 6.8 | | 4.1 | | 1.6 | 1 |
| | | | | | | 1.0 | 26.6 | | 7.9 | | 22.4 | | 95.9 | | 6.7 | 6.7 | 4.0 | | 1.8 | ł |
| C2 | Misty | Moderate | 08:50 | 11.2 | Middle | 5.6 | 26.3 | 26.5 | 7.9 | 7.9 | 26.7 | 26.7 | 97.5 | 97.5 | 6.7 | | 5.1 | 5.1 | 2.9 | 2.7 |
| | | | | | | 5.6 | 26.6 | | 7.9 | | 26.7 | - | 97.5 | | 6.7 | | 5.1 | | 2.6 | ł |
| | | | | | Bottom | 10.2 10.2 | 26.6 26.6 | 26.6 | 8.0 7.9 | 8.0 | 26.7 26.7 | 26.7 | 98.9 98.9 | 98.9 | 6.8 6.8 | 6.8 | 6.2 6.1 | | 3.8 3.4 | ł |
| | | | | | | 1.0 | 20.0 | | 8.0 | | 14.2 | | 108.0 | | 7.8 | | 1.3 | | 1.6 | |
| | | | | | Surface | 1.0 | 27.2 | 27.5 | 8.0 | 8.0 | 13.8 | 14.0 | 108.0 | 108.0 | 7.8 | | 1.3 | | 1.8 | ł |
| • • • | | | | | | - | - | | - | | - | | - | | - | 7.8 | - | | - | |
| M1 | Misty | Moderate | 09:01 | 4.6 | Middle | - | - | - | - | - | - | | - | - | - | | - | 2.1 | - | 1.4 |
| | | | | | Bottom | 3.6 | 27.9 | 27.7 | 8.0 | 8.0 | 15.2 | 15.0 | 109.2 | 109.2 | 7.9 | 7.9 | 2.9 | | 1.2 | ł |
| | | | | | Bottom | 3.6 | 27.4 | 21.1 | 8.0 | 0.0 | 14.7 | 13.0 | 109.2 | 109.2 | 7.9 | 7.9 | 2.9 | | 1.1 | |
| | | | | | Surface | 1.0 | 27.5 | 27.4 | 8.0 | 8.0 | 12.4 | 12.7 | 103.4 | 102.4 | 7.6 | | 5.5 | | 1.5 | 1 |
| | | | | | Guildee | 1.0 | 27.2 | 27.4 | 8.0 | 0.0 | 12.9 | 12.7 | 101.4 | 102.4 | 7.5 | 7.6 | 5.6 | | 1.4 | I |
| M2 | Misty | Moderate | 08:58 | 5.0 | Middle | - | - | _ | - | _ | - | | - | _ | - | 7.0 | - | 6.1 | - | 1.6 |
| 1112 | Wildty | Woderate | 00.00 | 0.0 | Wildale | - | - | | - | | - | | - | | - | | - | 0.1 | - | 1.0 |
| | | | | | Bottom | 4.0 | 27.7 | 27.5 | 8.0 | 8.0 | 15.7 | 15.9 | 104.5 | 104.1 | 7.5 | 7.5 | 6.6 | | 1.7 | I |
| | | | | | Dottoin | 4.0 | 27.3 | 21.0 | 8.0 | 0.0 | 16.0 | 10.0 | 103.6 | 101.1 | 7.5 | 1.0 | 6.5 | | 1.8 | 1 |
| | | | | | Surface | 1.0 | 27.1 | 27.1 | 8.0 | 8.0 | 14.0 | 14.5 | 99.4 | 99.4 | 7.3 | | 3.6 | | 2 | 1 |
| | | | | | Canado | 1.0 | 27.0 | | 7.9 | 0.0 | 14.9 | . 1.0 | 99.4 | 00.1 | 7.2 | 7.3 | 3.6 | | 2 | ł |
| M3 | Misty | Moderate | 09:05 | 7.6 | Middle | 3.8 | 26.9 | 27.0 | 8.0 | 8.0 | 16.0 | 15.8 | 100.3 | 100.3 | 7.3 | | 4.2 | 4.4 | 2 | 2 |
| - | | | | - | | 3.8 | 27.0 | - | 7.9 | | 15.6 | | 100.3 | | 7.2 | | 4.2 | | 2 | ł |
| | | | | | Bottom | 6.6 | 26.3 | 26.7 | 7.9 | 7.9 | 24.7 | 24.1 | 107.0 | 107.0 | 7.5 | 7.5 | 5.4 | | 3 | ł |
| | | | | | | 6.6 | 27.1 | | 7.9 | - | 23.4 | | 107.0 | | 7.4 | | 5.3 | | 3 | 1 |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 07 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|------|-------------|------------|--------------|-----------------|------------|---------|--------------|------------|--------------|------------|-------------------|-----|------------|------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water T | emperature (°C) | р | н | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg/ | |
| Station | Condition | | Time | (m) | g | F () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.5 | 26.6 | 8.0 | 8.0 | 12.0 | 12.2 | 93.0 | 93.2 | 7.0 | | 1.5 | | 2.9 | |
| | | | | | Sunace | 1.0 | 26.7 | 20.0 | 8.0 | 8.0 | 12.4 | 12.2 | 93.4 | 93.2 | 7.0 | 6.5 | 1.4 | | 2.7 | l |
| C1 | Misty | Moderate | 16:44 | 10.2 | Middle | 5.1 | 26.1 | 26.4 | 7.9 | 8.0 | 16.8 | 16.5 | 82.1 | 82.2 | 6.1 | 0.5 | 2.6 | 2.4 | 3.9 | 3.7 |
| 01 | wildty | Woderate | 10.44 | 10.2 | Middle | 5.1 | 26.7 | 20.4 | 8.0 | 0.0 | 16.2 | 10.0 | 82.3 | 02.2 | 6.0 | | 2.7 | 2.7 | 3.5 | 0.7 |
| | | | | | Bottom | 9.2 | 26.2 | 26.5 | 7.9 | 7.9 | 24.7 | 24.4 | 86.8 | 86.6 | 6.1 | 6.1 | 3.0 | | 4.6 | 1 |
| | | | | | | 9.2 | 26.8 | | 7.9 | | 24.0 | 1 | 86.4 | | 6.1 | | 3.1 | | 4.3 | <u> </u> |
| | | | | | Surface | 1.0 | 26.7 26.9 | 26.8 | 8.1 8.0 | 8.1 | 12.3 12.3 | 12.3 | 93.6 91.9 | 92.8 | 7.0 6.9 | - | 1.7 1.7 | | 2.3 2.5 | 1 |
| | | | | | | 5.0 | 26.9 | | 8.0 | | 12.3 | | 91.9 83.7 | | 6.9 | 6.5 | 2.2 | | 2.5 | ł |
| C2 | Misty | Moderate | 17:03 | 10.0 | Middle | 5.0 | 26.2 | 26.5 | 8.0 | 8.0 | 15.6 | 15.7 | 81.2 | 82.5 | 6.0 | - | 2.2 | 2.4 | 2.0 | 2.8 |
| | | | | | _ | 9.0 | 25.7 | | 7.9 | | 25.4 | | 88.7 | | 6.2 | | 3.3 | | 3.1 | ł |
| | | | | | Bottom | 9.0 | 25.6 | 25.7 | 7.9 | 7.9 | 26.5 | 26.0 | 84.1 | 86.4 | 5.9 | 6.1 | 3.4 | | 3.4 | ł |
| | | | | | Surface | 1.0 | 27.2 | 27.2 | 8.0 | 8.0 | 16.6 | 16.6 | 93.6 | 93.6 | 6.8 | | 1.3 | | 3.2 | |
| | | | | | Sunace | 1.0 | 27.2 | 21.2 | 8.0 | 8.0 | 16.6 | 10.0 | 93.6 | 93.0 | 6.7 | 6.8 | 1.3 | | 2.9 | 1 |
| M1 | Misty | Moderate | 16:52 | 5.2 | Middle | - | - | _ | - | _ | - | _ | - | _ | - | 0.0 | - | 1.8 | - | 2.8 |
| IVIT | wildty | woderate | 10.52 | 5.2 | Middle | - | - | _ | - | | - | | - | | - | | - | 1.0 | - | 2.0 |
| | | | | | Bottom | 4.2 | 27.2 | 27.0 | 8.0 | 8.0 | 12.1 | 12.1 | 92.1 | 92.1 | 6.8 | 6.9 | 2.4 | | 2.6 | 1 |
| | | | | | | 4.2 | 26.7 | | 7.9 | | 12.1 | | 92.1 | | 6.9 | | 2.3 | | 2.4 | <u> </u> |
| | | | | | Surface | 1.0 | 27.5 | 27.4 | 8.0 8.0 | 8.0 | 11.5 | 11.5 | 94.9 | 95.8 | 7.0 | | 2.8 | | 2.3 | ł |
| | | | | | | 1.0 | 27.2 | | 8.0 | | 11.5 | | 96.6 | | 7.2 | 7.1 | 2.8 | | 2.1 | 1 |
| M2 | Misty | Moderate | 16:55 | 4.0 | Middle | - | | - | - | - | - | | - | - | - | - | - | 3.0 | | 2.6 |
| | | | | | | 3.0 | 27.9 | | 8.0 | | 14.1 | | 94.0 | | 6.8 | | 3.2 | | 2.8 | ł |
| | | | | | Bottom | 3.0 | 27.3 | 27.6 | 8.0 | 8.0 | 13.4 | 13.8 | 96.9 | 95.5 | 7.1 | 7.0 | 3.2 | | 3.2 | 1 |
| | | | | | 0 (| 1.0 | 27.1 | 07.4 | 8.1 | | 11.4 | 44.0 | 95.3 | 05.4 | 7.1 | | 2.2 | | 2 | |
| | | | | | Surface | 1.0 | 27.1 | 27.1 | 8.1 | 8.1 | 11.1 | 11.3 | 94.9 | 95.1 | 7.1 | 6.5 | 2.2 | | 2 | ł |
| M3 | Misty | Moderate | 16:48 | 8.6 | Middle | 4.3 | 26.6 | 26.7 | 8.0 | 8.0 | 14.1 | 13.8 | 80.6 | 80.1 | 6.0 | 0.5 | 3.3 | 3.5 | 3 | 3 |
| IVIO | IVIISLY | wouerate | 10.40 | 0.0 | INIQUIE | 4.3 | 26.7 | 20.7 | 8.0 | 0.0 | 13.4 | 13.0 | 79.6 | 00.1 | 5.9 | | 3.4 | 5.5 | 3 | 3 |
| | | | | | Bottom | 7.6 | 25.8 | 25.8 | 7.9 | 7.9 | 24.9 | 25.1 | 85.4 | 85.0 | 6.0 | 6.0 | 4.8 | | 3 | 1 |
| | | | | | 20110111 | 7.6 | 25.8 | 20.0 | 7.9 | | 25.3 | | 84.5 | 00.0 | 6.0 | 0.0 | 4.8 | | 3 | i |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Vater Qua | lity Moni | oring Resu | Its on | I | 07 June 22 | during Mid | -Flood I | Ide | 1 | | | | 1 | | 1 | | 1 | | 1 | |
|------------|-----------|---------------|----------|------|------------|------------|--------------|-----------------|------------|---------|--------------|-----------|--------------|------------|-------------------|-----|------------|------|-----------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water Te | emperature (°C) | р | н | Salin | ity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | 1 () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.3 | 26.3 | 8.0 | 8.0 | 10.1 | 10.1 | 87.3 | 87.3 | 6.7 | | 3.2 | | 3.2 | |
| | | | | | Sunace | 1.0 | 26.2 | 20.3 | 8.0 | 8.0 | 10.0 | 10.1 | 87.3 | 87.3 | 6.7 | 6.3 | 3.1 | | 3.1 | l |
| C1 | Misty | Moderate | 07:40 | 9.4 | Middle | 4.7 | 26.2 | 26.2 | 7.9 | 7.9 | 18.6 | 18.6 | 79.4 | 79.4 | 5.8 | 0.5 | 4.2 | 3.8 | 3.6 | 3. |
| 01 | whoty | modorato | 07.10 | 0.1 | Widdle | 4.7 | 26.2 | 20.2 | 7.9 | 7.5 | 18.5 | 10.0 | 79.4 | 75.4 | 5.8 | | 4.2 | 0.0 | 3.4 | |
| | | | | | Bottom | 8.4 | 26.4 | 26.5 | 7.9 | 7.9 | 25.2 | 25.5 | 80.0 | 80.0 | 5.6 | 5.6 | 4.0 | | 4.0 | 1 |
| | | | | | Dottom | 8.4 | 26.5 | 2010 | 7.9 | | 25.7 | 2010 | 80.0 | 00.0 | 5.6 | 0.0 | 4.2 | | 3.7 | <u> </u> |
| | | | | | Surface | 1.0 | 26.5 | 26.6 | 8.0 | 8.0 | 8.9 | 8.9 | 88.6 | 88.5 | 6.8 | | 2.4 | | 2.5 | 1 |
| | | | | | | 1.0 | 26.6 | | 8.0 | | 8.9 | | 88.3 | | 6.8 | 6.1 | 2.4 | | 2.8 | 4 |
| C2 | Misty | Moderate | 07:22 | 11.0 | Middle | 5.5 5.5 | 26.4 26.5 | 26.5 | 7.9 7.9 | 7.9 | 18.6 17.6 | 18.1 | 74.2 73.7 | 74.0 | 5.4 5.4 | - | 2.7 2.7 | 2.9 | 3.0 3.3 | 3. |
| | | | | | | 10.0 | 26.5 | | 7.9 | | 22.4 | | 77.2 | | 5.5 | - | 3.5 | | 4.2 | l |
| | | | | | Bottom | 10.0 | 26.7 | 26.7 | 7.9 | 7.9 | 23.6 | 23.0 | 78.1 | 77.7 | 5.5 | 5.5 | 3.6 | | 3.9 | l |
| | | | | | | 1.0 | 26.9 | | 8.0 | | 10.7 | | 87.9 | | 6.6 | İ. | 3.2 | | 3.4 | <u> </u> |
| | | | | | Surface | 1.0 | 26.9 | 26.9 | 8.0 | 8.0 | 10.5 | 10.6 | 88.9 | 88.4 | 6.7 | | 3.1 | | 3.7 | l |
| M1 | Minh | Madarata | 07.00 | 4.0 | Middle | - | - | | - | | - | | - | | - | 6.7 | - | 3.3 | - | _ |
| IVI I | Misty | Moderate | 07:32 | 4.2 | widdle | - | - | - | - | - | - | - | - | - | - | | - | 3.3 | - | 3. |
| | | | | | Bottom | 3.2 | 27.0 | 27.0 | 8.0 | 8.0 | 15.0 | 15.2 | 89.4 | 89.0 | 6.6 | 6.6 | 3.5 | | 2.4 | |
| | | | | | Bellom | 3.2 | 26.9 | 21.0 | 8.0 | 0.0 | 15.4 | 10.2 | 88.5 | 05.0 | 6.5 | 0.0 | 3.5 | | 2.8 | |
| | | | | | Surface | 1.0 | 27.0 | 27.0 | 8.0 | 8.0 | 10.0 | 10.0 | 92.2 | 92.8 | 7.0 | | 3.3 | | 2.1 | l |
| | | | | | | 1.0 | 26.9 | - | 8.0 | | 10.0 | | 93.4 | | 7.0 | 7.0 | 3.3 | | 2.4 | 1 |
| M2 | Misty | Moderate | 07:29 | 5.0 | Middle | - | - | - | - | - | - | - | - | - | - | | - | 4.0 | - | 2. |
| | , | | | | | - | - | | - | | - | | - | | - | | - | | - | 4 |
| | | | | | Bottom | 4.0 | 27.0 | 27.0 | 8.0 | 8.0 | 12.8 | 12.9 | 93.3 | 93.0 | 6.9 | 6.8 | 4.6 | | 3.5 | 4 |
| | | | | | | 4.0 | 26.9 | | 8.0 | | 12.9 | | 92.6 | | 6.7 | | 4.7 | | 3.1 | <u> </u> |
| | | | | | Surface | 1.0 | 26.6 26.8 | 26.7 | 8.0 8.0 | 8.0 | 9.2 9.3 | 9.3 | 88.4 89.5 | 89.0 | 6.7 6.8 | - | 3.9 4.0 | | 2 | l |
| | | | | | | 3.7 | 26.8 | | 7.9 | | 9.3 | | 89.5 | | 6.0 | 6.4 | 4.0 | | 3 | l |
| M3 | Misty | Moderate | 07:36 | 7.4 | Middle | 3.7 | 26.6 | 26.6 | 7.9 | 7.9 | 14.8 | 14.4 | 82.3 | 81.3 | 6.1 | 1 | 4.7 | 5.1 | 3 | 3 |
| | | | | | | 6.4 | 26.5 | | 7.9 | | 21.0 | | 84.9 | | 6.1 | | 6.6 | | 4 | l |
| | | | | | Bottom | 6.4 | 26.7 | 26.6 | 7.9 | 7.9 | 21.9 | 21.5 | 81.0 | 83.0 | 5.8 | 6.0 | 6.5 | | 4 | i |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 09 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|-------------|-------------|------------|--------------|-----------------|------------|---------|--------------|------------|--------------|------------|-------------------|----------|-------------|------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | Water Depth | Sampling De | pth (m) | Water Te | emperature (°C) | р | ЪН | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(I | NTU) | Suspende (mg/ | |
| Station | Condition | | Time | (m) | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.0 | 26.1 | 7.9 | 7.9 | 19.4 | 19.5 | 76.8 | 76.8 | 5.6 | | 1.1 | | 6.1 | |
| | | | | | Sullace | 1.0 | 26.1 | 20.1 | 7.9 | 7.9 | 19.5 | 19.5 | 76.8 | 70.0 | 5.6 | 5.5 | 1.0 | | 5.8 | 1 |
| C1 | Rainy | Moderate | 09:27 | 9.2 | Middle | 4.6 | 25.9 | 26.0 | 7.8 | 7.9 | 21.7 | 21.7 | 74.3 | 74.8 | 5.3 | 0.0 | 2.4 | 2.3 | 5.5 | 5.3 |
| 01 | rtairry | moderate | 00.27 | 0.2 | middio | 4.6 | 26.0 | 20.0 | 7.9 | 1.0 | 21.7 | 2 | 75.2 | 7 1.0 | 5.3 | | 2.4 | 2.0 | 5.2 | 0.0 |
| | | | | | Bottom | 8.2 | 25.8 | 25.9 | 7.8 | 7.8 | 22.3 | 22.4 | 81.1 | 81.3 | 5.8 | 5.8 | 3.4 | | 4.9 | 1 |
| | | | | | | 8.2 | 26.0 | | 7.8 | | 22.4 | 1 | 81.4 | | 5.8 | | 3.3 | | 4.4 | <u> </u> |
| | | | | | Surface | 1.0 | 26.1 26.1 | 26.1 | 7.9 7.9 | 7.9 | 17.4 17.5 | 17.5 | 78.8 78.8 | 78.8 | 5.8 5.8 | - | 1.2 1.3 | | 7.0 7.4 | Í |
| | | | | | | 5.4 | 26.1 | | 7.9 | | 17.5 | | 76.8 | | 5.5 | 5.6 | 1.3 | | 6.8 | Í |
| C2 | Rainy | Moderate | 09:09 | 10.8 | Middle | 5.4 | 26.1 | 26.2 | 7.9 | 7.9 | 18.6 | 18.6 | 74.2 | 74.5 | 5.3 | - | 1.9 | 2.0 | 6.6 | 6.7 |
| | | | | | | 9.8 | 26.3 | | 7.9 | | 20.5 | | 77.4 | | 5.6 | | 2.9 | | 6.3 | i |
| | | | | | Bottom | 9.8 | 26.1 | 26.2 | 7.9 | 7.9 | 20.4 | 20.5 | 78.4 | 77.9 | 5.7 | 5.7 | 3.0 | | 6.0 | i i |
| | | | | | Surface | 1.0 | 25.9 | 26.0 | 7.9 | 7.9 | 11.7 | 11.7 | 81.9 | 82.0 | 6.2 | | 5.0 | | 5.7 | |
| | | | | | Sullace | 1.0 | 26.0 | 20.0 | 7.9 | 7.9 | 11.6 | 11.7 | 82.1 | 02.0 | 6.2 | 6.2 | 5.1 | | 6.0 | ĺ |
| M1 | Rainy | Moderate | 09:19 | 4.6 | Middle | - | - | _ | - | _ | - | _ | - | _ | - | 0.2 | - | 5.8 | - | 4.6 |
| | rtainy | Moderate | 00.10 | 4.0 | Middle | - | - | | - | | - | | - | | - | | - | 0.0 | - | 4.0 |
| | | | | | Bottom | 3.6 | 25.8 | 25.9 | 7.9 | 7.9 | 15.4 | 15.5 | 87.8 | 87.6 | 6.6 | 6.6 | 6.5 | | 3.2 | 1 |
| | | | | | | 3.6 | 26.0 | | 7.9 | - | 15.5 | | 87.4 | | 6.5 | | 6.4 | | 3.6 | ┝──── |
| | | | | | Surface | 1.0 | 26.1 26.1 | 26.1 | 7.9 7.9 | 7.9 | 10.9 10.9 | 10.9 | 84.4 83.1 | 83.8 | 6.4 6.3 | | 1.8 1.9 | | 6.6 6.6 | 1 |
| I | | | | | | - | - 20.1 | | 7.9 | | 10.9 | | | | 0.3 | 6.4 | - | | - 0.0 | Í |
| M2 | Rainy | Moderate | 09:16 | 5.0 | Middle | | - | - | - | - | - | | | | _ | - | | 2.4 | | 7.2 |
| | | | | | - | 4.0 | 26.1 | | 7.9 | | 12.8 | | 85.2 | | 6.4 | | 2.8 | | 8.0 | i i |
| | | | | | Bottom | 4.0 | 26.1 | 26.1 | 7.9 | 7.9 | 12.9 | 12.9 | 84.0 | 84.6 | 6.3 | 6.4 | 2.9 | | 7.7 | i i |
| | | | | | Quefe as | 1.0 | 25.9 | 00.0 | 8.0 | 0.0 | 10.2 | 40.0 | 80.3 | 70.0 | 6.2 | | 3.5 | | 7 | |
| | | | | | Surface | 1.0 | 26.0 | 26.0 | 7.9 | 8.0 | 10.2 | 10.2 | 78.8 | 79.6 | 6.0 | 5.6 | 3.5 | | 7 | i – |
| M3 | Rainy | Moderate | 09:22 | 7.6 | Middle | 3.8 | 25.8 | 25.9 | 7.9 | 7.9 | 20.6 | 20.6 | 72.7 | 70.9 | 5.3 | 5.0 | 4.4 | 4.5 | 6 | 6 |
| IVIO | rtainy | wouerate | 03.22 | 7.0 | INIQUIE | 3.8 | 25.9 | 20.3 | 7.9 | 1.3 | 20.6 | 20.0 | 69.1 | 10.3 | 5.0 | | 4.4 | 4.5 | 6 | Ū |
| | | | | | Bottom | 6.6 | 25.8 | 25.9 | 7.8 | 7.8 | 25.7 | 25.7 | 78.8 | 77.1 | 5.5 | 5.4 | 5.5 | | 5 | 4 |
| | | | | | 20110111 | 6.6 | 25.9 | 20.0 | 7.8 | | 25.6 | | 75.3 | 1 | 5.2 | <u> </u> | 5.5 | | 6 | <u> </u> |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Monit | toring Resu | Its on | - | 09 June 22 | during Mid | -Flood 1 | lide | | | | | - | | | | | | | <u> </u> |
|------------|------------|---------------|----------|------|------------|------------|--------------|-----------------|------------|---------|--------------|------------|--------------|------------|-------------------|----------|------------|------|-----------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water Te | emperature (°C) | р | Н | Salir | iity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 25.9 | 26.0 | 7.9 | 7.9 | 18.5 | 18.5 | 75.1 | 75.1 | 5.5 | | 3.4 | | 6.3 | |
| | | | | | Surrace | 1.0 | 26.0 | 26.0 | 7.9 | 7.9 | 18.5 | 18.5 | 75.1 | /5.1 | 5.4 | 5.2 | 3.4 | | 6.7 | 1 |
| C1 | Rainy | Moderate | 12:51 | 10.0 | Middle | 5.0 | 25.7 | 25.9 | 7.9 | 7.9 | 20.5 | 20.6 | 70.4 | 70.4 | 5.0 | 5.2 | 4.7 | 4.0 | 6.0 | 5.9 |
| 01 | rtairry | Woderate | 12.01 | 10.0 | Wilddie | 5.0 | 26.0 | 20.9 | 7.9 | 1.5 | 20.6 | 20.0 | 70.4 | 70.4 | 5.0 | | 4.6 | 4.0 | 6.4 | 0.0 |
| | | | | | Bottom | 9.0 | 25.5 | 25.8 | 7.9 | 7.9 | 24.8 | 24.7 | 74.9 | 74.9 | 5.3 | 5.3 | 4.0 | | 5.3 | 1 |
| | | | | | Dottom | 9.0 | 26.0 | 20.0 | 7.9 | 7.5 | 24.6 | 24.1 | 74.9 | 74.5 | 5.2 | 0.0 | 3.8 | | 4.9 | ļ |
| | | | | | Surface | 1.0 | 26.1 | 26.2 | 7.9 | 7.9 | 10.7 | 10.7 | 79.4 | 79.8 | 6.1 | | 1.1 | | 6.0 | 4 |
| | | | | | | 1.0 | 26.2 | - | 7.9 | | 10.7 | - | 80.2 | | 6.1 | 5.7 | 1.1 | | 6.4 | 4 |
| C2 | Rainy | Moderate | 13:10 | 10.0 | Middle | 5.0 | 26.0 | 26.1 | 7.9 | 7.9 | 16.6 | 16.7 | 73.9 | 74.0 | 5.4 | - | 1.3 | 1.4 | 5.9 | 5.4 |
| | , | | | | | 5.0 | 26.1 | | 7.9 | | 16.7 | | 74.1 | | 5.3 | | 1.2 | | 5.6 | 1 |
| | | | | | Bottom | 9.0 9.0 | 25.9 26.1 | 26.0 | 7.9 7.9 | 7.9 | 18.7 18.7 | 18.7 | 82.0 82.2 | 82.1 | 5.9 6.0 | 6.0 | 1.9 2.0 | | 4.0 4.3 | 1 |
| | | | | | | 9.0 | 26.1 | | 7.9 | | 18.7 | | 82.2 | | 6.0 | | 4.2 | | 4.3 7.0 | <u> </u> |
| | | | | | Surface | 1.0 | 25.8 | 26.0 | 7.9 | 7.9 | 12.3 | 12.3 | 84.6 | 84.6 | 6.4 | | 4.2 | | 6.6 | i i |
| | | | | | | - | - | | - | | - | | - | | - | 6.5 | - | | - | 1 |
| M1 | Rainy | Moderate | 13:00 | 5.0 | Middle | - | - | - | - | - | - | - | - | - | - | | - | 4.8 | - | 6.5 |
| | | | | | D. // | 4.0 | 25.5 | 05.0 | 7.9 | 7.0 | 16.8 | 16.8 | 90.8 | 90.5 | 6.8 | | 5.4 | | 6.1 | 1 |
| | | | | | Bottom | 4.0 | 26.0 | 25.8 | 7.9 | 7.9 | 16.7 | 16.8 | 90.2 | 90.5 | 6.7 | 6.8 | 5.4 | | 6.4 | 1 |
| | | | | | Surface | 1.0 | 25.8 | 26.0 | 8.0 | 8.0 | 11.4 | 11.4 | 88.6 | 88.0 | 6.8 | | 1.9 | | 6.0 | í — — — |
| | | | | | Sunace | 1.0 | 26.1 | 20.0 | 7.9 | 0.0 | 11.4 | 11.4 | 87.4 | 00.0 | 6.5 | 6.7 | 2.0 | | 5.6 | 1 |
| M2 | Rainy | Moderate | 13:03 | 4.0 | Middle | - | - | | - | | - | | - | _ | - | 0.7 | - | 2.4 | - | 6.8 |
| IVIZ | Rainy | woderate | 13.03 | 4.0 | Middle | - | - | - | - | - | - | - | - | - | - | | - | 2.4 | - | 0.0 |
| | | | | | Bottom | 3.0 | 25.6 | 25.8 | 7.9 | 7.9 | 12.4 | 13.0 | 92.8 | 92.4 | 7.1 | 7.0 | 2.8 | | 7.6 | 1 |
| | | | | | Bollom | 3.0 | 25.9 | 23.0 | 7.9 | 7.9 | 13.5 | 13.0 | 91.9 | 92.4 | 6.9 | 7.0 | 2.9 | | 8.0 | 1 |
| | | | | | Surface | 1.0 | 25.9 | 26.0 | 7.9 | 7.9 | 11.3 | 11.4 | 76.7 | 76.4 | 5.8 | | 2.6 | | 4 | 1 |
| | | | | | Gunace | 1.0 | 26.1 | 20.0 | 7.9 | 1.3 | 11.4 | 11.4 | 76.0 | 70.4 | 5.8 | 5.5 | 2.7 | | 5 | 1 |
| M3 | Rainy | Moderate | 12:57 | 8.4 | Middle | 4.2 | 25.8 | 25.9 | 7.9 | 7.9 | 15.1 | 15.3 | 70.4 | 69.7 | 5.2 | 0.0 | 3.2 | 3.4 | 5 | 5 |
| 1110 | i tainy | moderate | 12.07 | 0.1 | | 4.2 | 26.0 | 20.0 | 7.9 | 1.0 | 15.5 | 10.0 | 68.9 | 00.7 | 5.1 | | 3.2 | 0.1 | 5 | Ĭ |
| | | | | | Bottom | 7.4 | 25.7 | 25.9 | 7.9 | 7.9 | 23.3 | 23.2 | 75.4 | 74.8 | 5.4 | 5.4 | 4.2 | | 6 | 4 |
| | | | | | 20110111 | 7.4 | 26.0 | 20.0 | 7.9 | | 23.0 | | 74.2 | | 5.3 | . | 4.3 | | 6 | i . |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Monit | toring Resu | lts on | | 11 June 22 | during Mid | Ebb Tio | de | | | | | | | | | | | | |
|------------|------------|---------------|----------|------|-------------|------------|--------------|-----------------|------------|---------|--------------|------------|--------------|-----------|-------------------|-----|------------|------|-----------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | р | н | Salir | nity (ppt) | DO Satu | ation (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.3 | 26.3 | 7.9 | 7.9 | 7.0 | 7.0 | 84.6 | 84.7 | 6.6 | | 5.1 | | 4.8 | |
| | | | | | Surface | 1.0 | 26.3 | 20.3 | 7.9 | 7.9 | 7.0 | 7.0 | 84.7 | 04.7 | 6.6 | 5.8 | 5.1 | | 4.5 | 1 |
| C1 | Cloudy | Rough | 10:21 | 10.9 | Middle | 5.5 | 25.8 | 25.8 | 7.9 | 7.9 | 17.1 | 17.1 | 65.9 | 65.9 | 4.9 | 5.0 | 3.4 | 4.2 | 4.4 | 4.2 |
| 01 | Cloudy | Rough | 10.21 | 10.5 | Wilddie | 5.5 | 25.8 | 23.0 | 7.9 | 7.5 | 17.1 | 17.1 | 65.9 | 00.9 | 4.9 | | 3.3 | 4.2 | 4.1 | 4.2 |
| | | | | | Bottom | 9.9 | 25.7 | 25.7 | 7.9 | 7.9 | 20.0 | 20.0 | 67.4 | 67.3 | 4.9 | 4.9 | 4.1 | | 3.8 | 1 |
| | | | | | | 9.9 | 25.7 | | 7.9 | | 20.0 | | 67.1 | | 4.9 | | 4.1 | | 3.5 | <u> </u> |
| | | | | | Surface | 1.0 | 26.1 | 26.1 | 7.9 | 7.9 | 9.1 | 9.1 | 81.7 | 81.7 | 6.3 | | 4.7 | | 3.6 | 4 |
| | | | | | | 1.0 | 26.1 | | 7.9 | | 9.1 | | 81.7 | | 6.3 | 6.0 | 4.7 | | 3.8 | 4 |
| C2 | Cloudy | Moderate | 09:51 | 11.6 | Middle | 5.8 5.8 | 26.0 26.0 | 26.0 | 7.9 7.9 | 7.9 | 13.3 | 13.4 | 75.9 75.8 | 75.9 | 5.7 5.7 | | 3.2 3.2 | 5.3 | 4.1 4.0 | 4.0 |
| | | | | | | 10.6 | 26.0 | | | | 13.4 17.3 | | 75.8 | | 5.7 | | 3.2 8.0 | | 4.0 | i i |
| | | | | | Bottom | 10.6 | 25.8 | 25.8 | 7.9 7.9 | 7.9 | 17.3 | 17.3 | 71.3 | 71.4 | 5.3 | 5.3 | 8.0 | | 4.3 | i |
| | | | | | | 1.0 | 26.2 | | 7.9 | | 7.1 | | 84.9 | | 6.6 | | 5.2 | | 4.2 | <u> </u> |
| | | | | | Surface | 1.0 | 26.2 | 26.2 | 7.9 | 7.9 | 7.1 | 7.1 | 84.9 | 84.9 | 6.6 | | 5.2 | | 4.6 | i i |
| | - · · | | | | | - | | | - | | - | | - | | - | 6.6 | - | | - | 1 |
| M1 | Cloudy | Moderate | 10:06 | 5.7 | Middle | - | - | - | - | - | - | | - | | - | | - | 4.5 | - | 3.8 |
| | | | | | Dattan | 4.7 | 25.9 | 25.9 | 7.9 | 7.9 | 16.2 | 40.0 | 66.2 | 66.3 | 4.9 | 4.9 | 3.8 | | 3.0 | i i |
| | | | | | Bottom | 4.7 | 25.9 | 25.9 | 7.9 | 7.9 | 16.2 | 16.2 | 66.3 | 66.3 | 4.9 | 4.9 | 3.9 | | 3.4 | |
| | | | | | Surface | 1.0 | 26.1 | 26.1 | 7.9 | 7.9 | 8.6 | 8.7 | 84.1 | 84.1 | 6.5 | | 4.3 | | 3.5 | |
| | | | | | Guilace | 1.0 | 26.1 | 20.1 | 7.9 | 1.5 | 8.7 | 0.7 | 84.1 | 04.1 | 6.5 | 6.5 | 4.3 | | 3.3 | 1 |
| M2 | Cloudy | Moderate | 10:02 | 5.4 | Middle | - | - | - | - | - | - | - | - | | - | 0.0 | - | 4.2 | - | 3.1 |
| | cloudy | modorato | | 0.11 | | - | - | | - | | - | | - | | - | | - | | - | |
| | | | | | Bottom | 4.4 | 26.1 | 26.1 | 7.9 | 7.9 | 8.9 | 8.8 | 83.7 | 83.7 | 6.4 | 6.5 | 4.1 | | 3.0 | 4 |
| | | | | | | 4.4 | 26.1 | | 7.9 | | 8.6 | | 83.7 | | 6.5 | | 4.2 | | 2.7 | |
| | | | | | Surface | 1.0 1.0 | 26.1 26.1 | 26.1 | 7.9 7.9 | 7.9 | 8.5 8.5 | 8.5 | 82.1 82.2 | 82.2 | 6.3 6.3 | | 4.4 | | 4 | i – |
| | | | | | | 4.1 | 26.1 | | 7.9 | | 8.5 9.4 | | 82.2 | | 6.2 | 6.3 | 4.4 | | 4 | i – |
| M3 | Cloudy | Moderate | 10:15 | 8.2 | Middle | 4.1 | 26.1 | 26.1 | 7.9 | 7.9 | 9.4 9.4 | 9.4 | 80.1 | 80.1 | 6.2 | - | 4.2 | 4.4 | 4 | 4 |
| | | | | | | 7.2 | 25.8 | | 7.9 | | 9.4 17.2 | | 71.0 | | 5.3 | | 4.2 | | 4 | i – |
| | | | | | Bottom | 7.2 | 25.8 | 25.8 | 7.9 | 7.9 | 17.1 | 17.2 | 71.0 | 71.0 | 5.3 | 5.3 | 4.6 | | 3 | i |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | ality Moni | toring Resu | lts on | | 11 June 22 | during Mid | -Flood 1 | īde | | | | | | | | | | | | |
|------------|------------|---------------|----------|------|-------------|------------|--------------|-----------------|------------|---------|--------------|------------|--------------|------------|--------------------|---------|------------|------|-----------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | p⊦ | 1 | Salin | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/l | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | | Value | Average | Value A | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.1 | 26.1 | 7.9 | 7.9 | 12.4 | 12.4 | 75.4 | 75.5 | 5.7 | | 5.2 | | 4.5 | |
| | | | | | Sunace | 1.0 | 26.1 | 20.1 | 7.9 | 7.9 | 12.4 | 12.4 | 75.5 | 75.5 | 5.7 | 5.5 | 5.1 | | 4.3 | ĺ |
| C1 | Rainy | Rough | 16:01 | 9.1 | Middle | 4.6 | 26.0 | 26.0 | 7.8 | 7.8 | 14.0 | 14.0 | 70.4 | 70.4 | 5.3 | 0.0 | 5.2 | 4.8 | 4.0 | 4.0 |
| - | | | | | | 4.6 | 26.0 | 2010 | 7.8 | | 14.0 | | 70.4 | | 5.3 | | 5.2 | | 4.2 | |
| | | | | | Bottom | 8.1 | 25.7 | 25.7 | 7.8 | 7.8 | 17.9 | 17.9 | 65.7 | 65.7 | 4.9 | 4.9 | 4.0 | | 3.8 | 1 |
| | | | | | | 8.1 | 25.7 | | 7.8 | | 17.9 | | 65.6 | | 4.9 | | 4.2 | | 3.4 | <u> </u> |
| | | | | | Surface | 1.0 | 26.0 26.0 | 26.0 | 7.9 7.9 | 7.9 | 14.2 14.2 | 14.2 | 81.7 81.7 | 81.7 | 6.1 6.1 | - | 2.0 2.0 | | 3.2 3.5 | i i |
| | | | | | | 5.1 | 26.0 | | 7.9 | | 14.2 | | 81.0 | | 6.1 | 6.1 | 2.0 | | 3.7 | i i |
| C2 | Cloudy | Rough | 16:32 | 10.1 | Middle | 5.1 | 26.0 | 26.0 | 7.9 | 7.9 | 14.3 | 14.3 | 81.0 | 81.0 | 6.1 | | 2.1 | 2.2 | 4.0 | 3.9 |
| | | | | | D. // | 9.1 | 25.8 | 05.0 | 7.9 | 7.0 | 16.5 | 10.5 | 77.3 | 77.4 | 5.7 | <i></i> | 2.5 | | 4.3 | i i |
| | | | | | Bottom | 9.1 | 25.8 | 25.8 | 7.9 | 7.9 | 16.5 | 16.5 | 77.4 | 77.4 | 5.7 | 5.7 | 2.4 | | 4.7 | |
| | | | | | Surface | 1.0 | 26.4 | 26.4 | 7.9 | 7.9 | 8.8 | 8.8 | 85.1 | 85.1 | 6.5 | | 4.7 | | 4.0 | |
| | | | | | Guilace | 1.0 | 26.4 | 20.4 | 7.9 | 1.5 | 8.8 | 0.0 | 85.1 | 00.1 | 6.5 | 6.5 | 4.6 | | 4.4 | 1 |
| M1 | Cloudy | Moderate | 16:12 | 4.2 | Middle | - | - | - | - | - | - | - | - | | - | 0.0 | - | 4.7 | - | 3.7 |
| | , | | - | | | - | - | | - | | - | | - | | - | | - | | - | 4 |
| | | | | | Bottom | 3.2 3.2 | 26.2 26.2 | 26.2 | 7.9 7.9 | 7.9 | 9.9 9.9 | 9.9 | 80.8 80.9 | 80.9 | 6.2 6.2 | 6.2 | 4.8 4.8 | | 3.3 3.0 | 1 |
| | | | | | | 1.0 | 26.2 | | 7.9 | | 9.9 8.6 | | 80.9 | | 6.4 | 1 | 4.8 | | 3.0 | <u> </u> |
| | | | | | Surface | 1.0 | 26.3 | 26.3 | 7.9 | 7.9 | 8.6 | 8.6 | 83.2 | 83.2 | 6.4 | - | 4.8 | | 3.5 | i i |
| | | | | | | - | - | | - | | - | | - | | - | 6.4 | - | | - | i i |
| M2 | Cloudy | Moderate | 16:19 | 4.5 | Middle | - | - | - | - | - | - | - | - | - | - | - | - | 5.5 | - | 3.3 |
| | | | | | D. // | 3.5 | 25.9 | 05.0 | 7.9 | 7.0 | 15.6 | 45.0 | 70.5 | 70 5 | 5.3 | 5.0 | 6.1 | | 2.9 | i i |
| | | | | | Bottom | 3.5 | 25.9 | 25.9 | 7.9 | 7.9 | 15.5 | 15.6 | 70.5 | 70.5 | 5.3 | 5.3 | 6.1 | | 3.2 | i i |
| | | | | | Surface | 1.0 | 26.2 | 26.2 | 7.9 | 7.9 | 11.9 | 12.0 | 79.9 | 79.8 | 6.1 | | 4.4 | | 3 | |
| | | | | | Sunace | 1.0 | 26.2 | 20.2 | 7.9 | 7.9 | 12.1 | 12.0 | 79.7 | 79.0 | 6.0 | 5.7 | 4.4 | | 3 | 1 |
| MЗ | Cloudy | Moderate | 16:06 | 7.1 | Middle | 3.6 | 26.0 | 26.0 | 7.8 | 7.8 | 13.1 | 13.1 | 72.1 | 72.2 | 5.4 | 0.7 | 5.4 | 6.3 | 3 | 3 |
| | 2.500) | | | | | 3.6 | 26.0 | _510 | 7.8 | | 13.1 | | 72.2 | | 5.4 | | 5.4 | 210 | 4 | |
| | | | | | Bottom | 6.1 | 25.6 | 25.6 | 7.8 | 7.8 | 19.6 | 19.6 | 64.2 | 64.2 | 4.7 | 4.7 | 9.1 | | 4 | 4 |
| | | | | | | 6.1 | 25.6 | | 7.8 | | 19.6 | | 64.2 | | 4.7 | | 9.0 | | 4 | <u> </u> |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 14 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|-----|------------|------------|--------------|-----------------|------------|---------|--------------|------------|--------------|------------|-------------------|-----|------------|------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water T | emperature (°C) | þ | ъH | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg, | |
| Station | Condition | | Time | (m) | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 25.9 | 25.9 | 7.8 | 7.8 | 8.7 | 8.7 | 82.8 | 82.5 | 6.4 | | 4.2 | | 4.4 | |
| | | | | | Suilace | 1.0 | 25.9 | 25.9 | 7.8 | 7.0 | 8.6 | 0.7 | 82.1 | 02.5 | 6.2 | 6.4 | 4.1 | | 4.1 | |
| C1 | Rainy | Moderate | 12:24 | 9.8 | Middle | 4.9 | 25.7 | 25.8 | 7.8 | 7.8 | 8.9 | 8.9 | 83.7 | 83.7 | 6.5 | 0.4 | 5.0 | 5.4 | 4.9 | 4.8 |
| 01 | rtairry | modorato | 12.21 | 0.0 | Middlo | 4.9 | 25.9 | 20.0 | 7.8 | 7.0 | 8.9 | 0.0 | 83.7 | 00.1 | 6.4 | | 5.0 | 0.1 | 4.6 | 1.0 |
| | | | | | Bottom | 8.8 | 25.3 | 25.6 | 7.8 | 7.8 | 8.9 | 8.9 | 85.7 | 85.7 | 6.7 | 6.7 | 6.9 | | 5.1 | 1 |
| | | | | | | 8.8 | 25.9 | | 7.8 | | 8.8 | | 85.6 | | 6.6 | | 6.9 | | 5.5 | <u> </u> |
| | | | | | Surface | 1.0 | 25.9 25.9 | 25.9 | 7.8 7.8 | 7.8 | 8.0 8.1 | 8.1 | 81.7 81.6 | 81.7 | 6.3 6.2 | | 5.9 6.0 | | 6.3 6.1 | 1 |
| | | | | | | 4.5 | 25.9 | | 7.8 | | 8.9 | | 83.3 | | 6.5 | 6.3 | 6.6 | | 5.8 | 1 |
| C2 | Misty | Moderate | 12:43 | 9.0 | Middle | 4.5 | 25.9 | 25.9 | 7.8 | 7.8 | 8.8 | 8.9 | 83.2 | 83.3 | 6.3 | | 6.7 | 6.6 | 5.4 | 5.6 |
| | | | | | _ | 8.0 | 25.3 | | 7.8 | | 9.0 | | 85.5 | | 6.7 | | 7.1 | | 4.9 | |
| | | | | | Bottom | 8.0 | 25.9 | 25.6 | 7.8 | 7.8 | 8.9 | 9.0 | 85.6 | 85.6 | 6.6 | 6.7 | 7.1 | | 5.2 | |
| | | | | | Surface | 1.0 | 26.0 | 26.0 | 7.8 | 7.8 | 10.9 | 11.0 | 79.4 | 79.4 | 6.1 | | 4.6 | | 3.7 | |
| | | | | | Sunace | 1.0 | 26.0 | 26.0 | 7.8 | 7.8 | 11.1 | 11.0 | 79.4 | 79.4 | 6.1 | 6.1 | 4.7 | | 4.0 | |
| M1 | Misty | Moderate | 12:35 | 5.0 | Middle | - | - | _ | - | _ | - | _ | - | | - | 0.1 | - | 5.3 | - | 4.4 |
| 1011 | wiioty | Woderate | 12.00 | 0.0 | Widdle | - | - | | - | | - | | - | | - | | - | 0.0 | - | |
| | | | | | Bottom | 4.0 | 26.0 | 26.0 | 7.8 | 7.8 | 12.4 | 12.2 | 79.6 | 79.5 | 6.0 | 6.0 | 6.0 | | 4.7 | 1 |
| | | | | | | 4.0 | 26.0 | | 7.8 | - | 12.0 | | 79.4 | | 6.0 | | 6.0 | | 5.1 | <u> </u> |
| | | | | | Surface | 1.0 | 26.0 26.0 | 26.0 | 7.8 7.8 | 7.8 | 10.3 10.2 | 10.3 | 83.5 81.7 | 82.6 | 6.4 6.3 | - | 6.4 6.3 | | 4.6 4.9 | 4 |
| | | | | | | - | 20.0 | | 7.0 | | 10.2 | | - 01.7 | | 0.3 - | 6.4 | 0.3 | | 4.9 | 1 |
| M2 | Rainy | Moderate | 12:32 | 4.2 | Middle | | | - | - | - | | - | - | | | | - | 6.8 | | 4.5 |
| | | | | | | 3.2 | 26.0 | | 7.8 | | 12.0 | | 85.4 | | 6.5 | | 7.2 | | 4.2 | |
| | | | | | Bottom | 3.2 | 26.0 | 26.0 | 7.8 | 7.8 | 12.1 | 12.1 | 82.7 | 84.1 | 6.3 | 6.4 | 7.2 | | 4.4 | |
| | | | | | Ourfeas | 1.0 | 26.0 | 00.4 | 7.8 | 7.0 | 13.5 | 40.5 | 78.0 | 70.0 | 5.9 | | 2.4 | | 6 | |
| | | | | | Surface | 1.0 | 26.1 | 26.1 | 7.8 | 7.8 | 13.4 | 13.5 | 78.4 | 78.2 | 5.9 | 5.9 | 2.2 | | 6 | 1 |
| M3 | Rainy | Moderate | 12:39 | 8.2 | Middle | 4.1 | 26.0 | 26.1 | 7.8 | 7.8 | 13.4 | 13.4 | 77.8 | 78.1 | 5.9 | 5.9 | 4.2 | 4.2 | 7 | 6 |
| IVIO | rtairiy | moderate | 12.00 | 0.2 | WILCOLE | 4.1 | 26.1 | 20.1 | 7.8 | 7.0 | 13.4 | 10.4 | 78.4 | 70.1 | 5.8 | | 4.2 | 7.4 | 6 | Ŭ |
| | | | | | Bottom | 7.2 | 26.0 | 26.0 | 7.9 | 7.9 | 11.6 | 11.6 | 81.4 | 81.4 | 6.2 | 6.2 | 6.0 | | 7 | 1 |
| | | | | | | 7.2 | 26.0 | | 7.9 | | 11.6 | | 81.3 | 2 | 6.2 | | 6.0 | | 7 | |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | ality Moni | toring Resu | lts on | | 14 June 22 | during Mid | -Flood 1 | īde | | | | | | | | | | | | |
|------------|------------|---------------|----------|------|-------------|------------|--------------|-----------------|------------|---------|--------------|-----------|--------------|------------|--------------------|----------|------------|----------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | pl | Н | Salin | ity (ppt) | DO Satu | ration (%) | Dissolved (mg/l | | Turbidity | (NTU) | Suspende (mg/ | |
| Station | Condition | | Time | (m) | | | Value | Average | Value / | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.1 | 26.1 | 7.9 | 7.9 | 11.8 | 12.0 | 79.2 | 78.9 | 6.0 | | 5.1 | | 11.2 | 1 |
| | | | | | Sunace | 1.0 | 26.1 | 20.1 | 7.9 | 7.9 | 12.1 | 12.0 | 78.5 | 70.9 | 5.9 | 5.9 | 5.1 | | 11.6 | ł |
| C1 | Misty | Moderate | 06:42 | 9.0 | Middle | 4.5 | 26.1 | 26.1 | 7.9 | 7.9 | 13.6 | 13.6 | 78.9 | 78.4 | 5.9 | 0.0 | 6.5 | 5.2 | 13.2 | 13.6 |
| - | | | | | | 4.5 | 26.1 | 2011 | 7.9 | | 13.6 | | 77.9 | | 5.9 | | 6.4 | | 13.6 | 1 |
| | | | | | Bottom | 8.0 | 26.6 | 26.4 | 7.9 | 7.9 | 13.8 | 13.8 | 80.1 | 80.0 | 6.0 | 6.0 | 4.0 | 1 | 16.2 | ł |
| | | | | | | 8.0 | 26.1 | | 7.9 | | 13.8 | | 79.9 | | 6.0 | | 3.8 | <u> </u> | 15.8 | |
| | | | | | Surface | 1.0 | 26.1 26.1 | 26.1 | 7.9 7.9 | 7.9 | 14.6 14.5 | 14.6 | 75.9 76.0 | 76.0 | 5.7 5.7 | | 4.1 4.0 | 1 | 13.5 13.3 | ł |
| | | | | | - | 5.3 | 26.0 | | 7.9 | | 14.5 | | 75.3 | | 5.6 | 5.7 | 5.1 | 1 | 13.3 | ł |
| C2 | Misty | Moderate | 06:26 | 10.6 | Middle | 5.3 | 26.0 | 26.0 | 7.9 | 7.9 | 15.1 | 15.1 | 75.4 | 75.4 | 5.6 | | 5.2 | 5.2 | 12.6 | 12.8 |
| | | | | | D. // | 9.6 | 26.8 | 00.5 | 7.9 | 7.0 | 14.8 | 45.0 | 79.8 | 70.0 | 5.9 | | 6.3 | | 12.2 | ł |
| | | | | | Bottom | 9.6 | 26.1 | 26.5 | 7.9 | 7.9 | 15.7 | 15.3 | 76.5 | 78.2 | 5.7 | 5.8 | 6.3 | | 12.0 | ł |
| | | | | | Surface | 1.0 | 26.7 | 26.4 | 7.9 | 7.9 | 14.6 | 14.7 | 80.5 | 79.6 | 5.9 | | 2.3 | | 10.0 | |
| | | | | | Guilace | 1.0 | 26.1 | 20.4 | 7.9 | 1.5 | 14.7 | 14.7 | 78.6 | 73.0 | 5.9 | 5.9 | 2.2 | 1 | 9.6 | i |
| M1 | Misty | Moderate | 06:33 | 4.2 | Middle | - | - | - | - | - | - | - | - | | - | 0.0 | - | 2.9 | - | 10.7 |
| | | | | | | - | - | | - | | - | | - | | - | | - | | - | 1 |
| | | | | | Bottom | 3.2 3.2 | 27.0 26.3 | 26.7 | 7.9 7.9 | 7.9 | 14.6 14.8 | 14.7 | 82.9 79.1 | 81.0 | 6.1 5.9 | 6.0 | 3.6 3.6 | 4 | 11.8 11.5 | ł |
| | | | | | | 1.0 | 26.3 | | 7.9 | | 14.8 | | 79.1 | | 5.9 | | 2.7 | <u> </u> | 11.5 | |
| | | | | | Surface | 1.0 | 26.1 | 26.2 | 7.9 | 7.9 | 14.0 | 14.6 | 79.5 | 78.6 | 5.8 | | 2.7 | 1 | 9.6 | ł |
| | | | | | | - | - | | - | | - | | - | | - | 5.9 | - | | - | ł |
| M2 | Misty | Moderate | 06:36 | 5.4 | Middle | - | - | - | - | - | - | - | - | - | - | | - | 2.9 | _ | 11.0 |
| | | | | | Detterre | 4.4 | 26.7 | 00.4 | 7.9 | 7.0 | 14.9 | 45.4 | 82.6 | 00.0 | 6.1 | <u> </u> | 3.0 | | 12.0 | ł |
| | | | | | Bottom | 4.4 | 26.1 | 26.4 | 7.9 | 7.9 | 15.8 | 15.4 | 78.6 | 80.6 | 5.8 | 6.0 | 3.1 | | 12.4 | ł |
| | | | | | Surface | 1.0 | 26.1 | 26.1 | 7.9 | 7.9 | 15.4 | 15.2 | 77.3 | 76.5 | 5.8 | | 2.4 | | 11 | |
| | | | | | Sunace | 1.0 | 26.1 | 20.1 | 7.9 | 7.9 | 14.9 | 13.2 | 75.6 | 70.5 | 5.6 | 5.7 | 2.2 | | 10 | ł |
| MЗ | Misty | Moderate | 06:39 | 6.2 | Middle | 3.1 | 26.0 | 26.1 | 7.9 | 7.9 | 15.6 | 15.5 | 77.8 | 76.9 | 5.8 | 0.7 | 4.3 | 3.8 | 13 | 13 |
| | moty | | 11100 | | | 3.1 | 26.1 | | 7.9 | | 15.3 | . 510 | 76.0 | . 510 | 5.7 | | 4.4 | | 13 | 1 |
| | | | | | Bottom | 5.2 | 26.0 | 26.1 | 7.9 | 7.9 | 15.9 | 16.1 | 80.2 | 78.4 | 6.0 | 5.9 | 4.7 | 1 | 14 | i |
| | | | | | | 5.2 | 26.1 | | 7.9 | | 16.2 | | 76.5 | | 5.7 | | 4.7 | <u> </u> | 14 | <u> </u> |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 16 June 22 | during Mid | -Ebb Tic | le | | | | | | | | | | | | |
|------------|-----------|---------------|--------|-------------|------------|------------|--------------|-----------------|------------|---------|--------------|------------|--------------|-----------|-------------------|-----|------------|------|-----------------|----------|
| Monitoring | Weather | Sea Condition | | Water Depth | Sampling D | epth (m) | Water Te | emperature (°C) | р | Н | Salir | nity (ppt) | DO Satu | ation (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | 1 () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.3 | 26.3 | 7.4 | 7.4 | 11.0 | 11.0 | 73.2 | 73.2 | 5.6 | | 6.3 | | 3.6 | |
| | | | | | Suilace | 1.0 | 26.3 | 20.3 | 7.4 | 7.4 | 11.0 | 11.0 | 73.1 | 13.2 | 5.6 | 5.6 | 6.2 | | 4.0 | |
| C1 | Fine | Moderate | 13:12 | 8.4 | Middle | 4.2 | 26.4 | 26.4 | 7.5 | 7.5 | 11.5 | 11.5 | 72.6 | 72.9 | 5.5 | 0.0 | 7.2 | 7.4 | 4.2 | 4.4 |
| 01 | 1 110 | moderate | 10.12 | 0.1 | Middlo | 4.2 | 26.3 | 20.1 | 7.5 | 1.0 | 11.5 | 11.0 | 73.1 | 72.0 | 5.5 | | 7.1 | | 4.5 | |
| | | | | | Bottom | 7.4 | 26.6 | 26.4 | 7.5 | 7.5 | 16.9 | 16.9 | 75.6 | 74.5 | 5.5 | 5.4 | 8.7 | | 4.8 | 1 |
| | 1 | | | | | 7.4 | 26.2 | | 7.5 | | 16.9 | 1 | 73.4 | 1 | 5.3 | | 8.7 | | 5.2 | <u> </u> |
| | | | | | Surface | 1.0 | 26.2 26.3 | 26.3 | 7.4 7.4 | 7.4 | 10.8 | 10.8 | 75.1 75.8 | 75.5 | 5.7 5.7 | - | 6.1 6.0 | | 4.1 4.5 | 1 |
| | | | | | | 4.5 | 26.2 | | 7.4 | | 13.3 | - | 75.8 | - | 5.8 | 5.8 | 7.1 | | 4.5 | 1 |
| C2 | Fine | Moderate | 13:28 | 9.0 | Middle | 4.5 | 26.2 | 26.2 | 7.3 | 7.3 | 13.1 | 13.2 | 77.9 | 77.9 | 5.9 | - | 7.1 | 7.2 | 5.0 | 5.0 |
| | | | | | | 8.0 | 26.2 | | 7.4 | | 13.4 | | 81.4 | | 6.1 | | 8.3 | | 5.9 | |
| | | | | | Bottom | 8.0 | 26.2 | 26.2 | 7.4 | 7.4 | 13.3 | 13.4 | 81.4 | 81.4 | 6.0 | 6.1 | 8.4 | | 5.5 | |
| | | | | | Surface | 1.0 | 26.6 | 26.5 | 7.4 | 7.4 | 11.2 | 11.2 | 70.8 | 70.9 | 5.3 | | 6.8 | | 3.4 | |
| | | | | | Suilace | 1.0 | 26.4 | 20.5 | 7.4 | 7.4 | 11.2 | 11.2 | 70.9 | 70.9 | 5.4 | 5.4 | 6.9 | | 3.7 | |
| M1 | Fine | Moderate | 13:18 | 5.0 | Middle | - | - | _ | - | _ | - | | - | | - | 5.4 | - | 7.1 | - | 4.1 |
| | 1 110 | moderate | 10.10 | 0.0 | Middlo | - | - | | - | | - | | - | | - | | - | | - | |
| | | | | | Bottom | 4.0 | 26.9 | 26.7 | 7.4 | 7.4 | 12.7 | 12.7 | 62.8 | 62.6 | 4.7 | 4.7 | 7.3 | | 4.4 | 1 |
| | | | | | | 4.0 | 26.4 | | 7.4 | | 12.7 | 1 | 62.4 | 1 | 4.7 | | 7.3 | | 4.8 | <u> </u> |
| | | | | | Surface | 1.0 | 26.6 26.4 | 26.5 | 7.4 7.4 | 7.4 | 11.3 11.2 | 11.3 | 70.8 70.5 | 70.7 | 5.3 5.4 | - | 6.4 6.4 | | 3.2 3.6 | 1 |
| | | | | | | | - 20.4 | | - | | | | - | | | 5.4 | - | | | 1 |
| M2 | Fine | Moderate | 13:21 | 4.8 | Middle | - | - | - | - | - | - | | - | | - | | - | 6.9 | - | 3.7 |
| | | | | | D | 3.8 | 26.9 | | 7.5 | | 12.7 | | 63.2 | | 4.7 | | 7.3 | | 3.8 | |
| | | | | | Bottom | 3.8 | 26.4 | 26.7 | 7.5 | 7.5 | 12.7 | 12.7 | 63.8 | 63.5 | 4.8 | 4.8 | 7.3 | | 4.1 | |
| | | | | | Surface | 1.0 | 26.5 | 26.5 | 7.9 | 7.9 | 10.7 | 10.9 | 78.0 | 77.9 | 5.9 | | 6.1 | | 4 | |
| | | | | | Sullace | 1.0 | 26.4 | 20.5 | 7.9 | 1.9 | 11.1 | 10.9 | 77.8 | 11.9 | 5.9 | 5.9 | 6.2 | | 4 | |
| M3 | Fine | Moderate | 13:24 | 8.0 | Middle | 4.0 | 26.8 | 26.6 | 7.9 | 7.9 | 11.8 | 11.6 | 76.5 | 77.2 | 5.7 | 0.0 | 7.6 | 7.3 | 4 | 5 |
| 1110 | 1 110 | modorato | 10.27 | 0.0 | | 4.0 | 26.4 | 20.0 | 7.9 | 1.0 | 11.4 | | 77.9 | | 5.9 | | 7.5 | 7.0 | 5 | Ŭ |
| | | | | | Bottom | 7.0 | 27.1 | 26.8 | 8.0 | 8.0 | 15.0 | 14.8 | 82.4 | 80.6 | 6.0 | 6.0 | 8.1 | | 5 | 1 |
| | | | | | | 7.0 | 26.4 | | 8.0 | - | 14.6 | | 78.7 | | 5.9 | _ | 8.0 | | 5 | 1 |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 16 June 22 | during Mid | -Flood 1 | īde | | | | | | | | | | | | |
|------------|-----------|---------------|----------|------|-------------|------------|--------------|-----------------|------------|--------|--------------|------------|--------------|-----------|--------------------|-----|------------|------|-----------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | p⊦ | 1 | Salin | nity (ppt) | DO Satu | ation (%) | Dissolved (mg/l | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | | Value | Average | Value A | Verage | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 25.9 | 26.0 | 7.6 | 7.7 | 9.6 | 9.3 | 68.4 | 69.8 | 5.3 | | 7.5 | | 5.8 | |
| | | | | | Sullace | 1.0 | 26.0 | 20.0 | 7.7 | 1.1 | 9.0 | 9.5 | 71.2 | 09.0 | 5.5 | 5.0 | 7.6 | | 5.4 | l |
| C1 | Misty | Moderate | 08:51 | 9.2 | Middle | 4.6 | 25.8 | 25.9 | 7.4 | 7.5 | 22.0 | 22.2 | 62.1 | 62.3 | 4.5 | 5.0 | 8.2 | 6.4 | 4.8 | 4.7 |
| 0. | moty | modelate | 00.01 | 0.2 | | 4.6 | 26.0 | 20.0 | 7.5 | 1.0 | 22.3 | | 62.5 | 02.0 | 4.5 | | 7.4 | 0 | 4.4 | |
| | | | | | Bottom | 8.2 | 25.7 | 25.9 | 7.4 | 7.5 | 23.7 | 24.3 | 63.4 | 64.9 | 4.5 | 4.6 | 4.0 | | 3.9 | ł |
| | | 1 | | | | 8.2 | 26.0 | | 7.6 | - | 24.8 | - | 66.4 | | 4.7 | | 3.8 | | 3.9 | |
| | | | | | Surface | 1.0 | 26.1 26.2 | 26.2 | 7.6 7.6 | 7.6 | 11.3 11.4 | 11.4 | 70.8 | 71.8 | 5.4 5.5 | | 7.1 7.1 | | 3.6 3.6 | ł |
| | | | | | | 5.0 | 26.2 | | 7.6 | | 21.6 | | 65.3 | | 5.5 4.7 | 5.1 | 8.0 | | 5.0 | ł |
| C2 | Misty | Moderate | 08:31 | 10.0 | Middle | 5.0 | 25.9 | 25.9 | 7.4 | 7.4 | 21.5 | 21.6 | 65.0 | 65.2 | 4.7 | - | 8.0 | 8.2 | 5.4 | 5.1 |
| | | | | | D | 9.0 | 25.8 | | 7.4 | | 24.5 | | 66.5 | | 4.7 | | 9.5 | | 6.7 | ł |
| | | | | | Bottom | 9.0 | 26.1 | 26.0 | 7.4 | 7.4 | 24.6 | 24.6 | 65.2 | 65.9 | 4.6 | 4.7 | 9.4 | | 6.5 | ł |
| | | | | | Surface | 1.0 | 26.2 | 26.2 | 7.3 | 7.4 | 11.5 | 11.5 | 71.0 | 71.3 | 5.3 | | 7.0 | | 5.5 | |
| | | | | | Suilace | 1.0 | 26.2 | 20.2 | 7.4 | 7.4 | 11.5 | 11.5 | 71.5 | 71.5 | 5.5 | 5.4 | 7.1 | | 5.0 | l |
| M1 | Misty | Moderate | 08:39 | 5.2 | Middle | - | - | - | - | - | - | - | - | - | - | 0.4 | - | 7.8 | - | 4.9 |
| | | | | • | | - | - | | - | | - | | - | | - | | - | | - | |
| | | | | | Bottom | 4.2 | 26.1 | 26.2 | 7.1 | 7.1 | 16.2 | 16.3 | 70.5 | 70.9 | 5.2 | 5.2 | 8.4 | | 4.7 4.4 | ł |
| | | | | | | 4.2 | 26.2 26.3 | | 7.1 7.0 | | 16.3 | | 71.3 67.3 | | 5.2 5.2 | | 8.5 7.3 | | 4.4 5.1 | <u> </u> |
| | | | | | Surface | 1.0 | 26.3 | 26.3 | 7.0 | 7.0 | 8.8 8.8 | 8.8 | 69.7 | 68.5 | 5.2 | | 7.3 | | 5.1 4.8 | ł |
| | | | | | | - | - | | - | | | | | | | 5.3 | - | | - | ł |
| M2 | Misty | Moderate | 08:43 | 4.0 | Middle | - | - | - | - | - | - | - | - | | - | | - | 7.9 | - | 4.7 |
| | | | | | | 3.0 | 25.9 | | 7.0 | | 10.6 | | 63.5 | | 4.9 | | 8.5 | | 4.6 | ł |
| | | | | | Bottom | 3.0 | 26.3 | 26.1 | 7.0 | 7.0 | 11.1 | 10.9 | 68.4 | 66.0 | 5.2 | 5.1 | 8.4 | | 4.3 | 1 |
| | | | | | Surface | 1.0 | 26.2 | 26.2 | 7.6 | 7.6 | 17.4 | 17.5 | 71.5 | 71.9 | 5.2 | | 6.1 | | 4 | |
| | | | | | Surface | 1.0 | 26.1 | 20.2 | 7.6 | 7.0 | 17.6 | 17.5 | 72.3 | 71.9 | 5.2 | 5.0 | 6.1 | | 4 | l |
| M3 | Misty | Moderate | 08:47 | 6.0 | Middle | 3.0 | 26.0 | 26.1 | 7.6 | 7.6 | 18.5 | 18.5 | 64.1 | 65.5 | 4.7 | 5.0 | 7.0 | 7.2 | 5 | 5 |
| | itiloty | moderate | 00.47 | 0.0 | | 3.0 | 26.1 | 25.1 | 7.6 | 7.5 | 18.5 | 10.0 | 66.8 | 00.0 | 4.9 | | 7.1 | | 5 | Ĭ |
| | | | | | Bottom | 5.0 | 25.8 | 26.0 | 7.6 | 7.6 | 20.5 | 20.6 | 63.4 | 64.9 | 4.6 | 4.7 | 8.5 | | 6 | ł |
| | | | | | | 5.0 | 26.2 | | 7.6 | - | 20.6 | | 66.4 | | 4.8 | | 8.4 | | 6 | <u> </u> |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 18 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|------|------------|------------|--------------|-----------------|------------|---------|-------------|------------|--------------|------------|-------------------|-----|------------|------|-----------------|-------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water Te | emperature (°C) | p | эΗ | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | Camping 2 | op () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.4 | 26.3 | 8.1 | 8.1 | 8.3 | 8.5 | 76.2 | 74.7 | 5.9 | | 8.3 | | 8.4 | |
| | | | | | Sunace | 1.0 | 26.2 | 20.3 | 8.1 | 0.1 | 8.6 | 6.5 | 73.2 | /4./ | 5.8 | 5.3 | 8.4 | | 8.2 | ł |
| C1 | Cloudy | Moderate | 14:44 | 10.7 | Middle | 5.4 | 26.0 | 26.0 | 8.1 | 8.2 | 15.8 | 15.9 | 64.5 | 64.2 | 4.8 | 5.5 | 10.3 | 9.9 | 7.4 | 7.5 |
| 01 | Cloudy | Woderate | 17.77 | 10.7 | Middle | 5.4 | 26.0 | 20.0 | 8.2 | 0.2 | 15.9 | 10.0 | 63.9 | 04.2 | 4.7 | | 10.1 | 0.0 | 7.6 | 7.0 |
| | | | | | Bottom | 9.7 | 25.3 | 25.4 | 8.2 | 8.2 | 29.0 | 27.4 | 62.7 | 62.9 | 4.4 | 4.5 | 11.2 | | 6.6 | ł |
| | | | | | 1 | 9.7 | 25.4 | | 8.2 | | 25.8 | | 63.1 | | 4.5 | | 11.3 | | 6.5 | |
| | | | | | Surface | 1.0 | 26.4 26.5 | 26.5 | 8.1 8.1 | 8.1 | 8.3 8.2 | 8.3 | 75.2 76.4 | 75.8 | 5.8 5.9 | | 8.5 7.8 | | 5.4 5.2 | ł |
| | | | | | | 5.3 | 26.5 | | 8.1 | | 0.2 14.1 | | 64.1 | | 5.9 4.8 | 5.4 | 8.3 | | 5.2 4.9 | ł |
| C2 | Cloudy | Moderate | 15:06 | 10.5 | Middle | 5.3 | 26.1 | 26.1 | 8.1 | 8.1 | 13.9 | 14.0 | 65.4 | 64.8 | 4.0 | - | 8.0 | 8.2 | 4.5 | 4.8 |
| | | | | | _ | 9.5 | 25.8 | | 8.0 | | 21.4 | | 63.8 | | 4.6 | | 8.5 | | 4.3 | ł |
| | | | | | Bottom | 9.5 | 26.1 | 26.0 | 8.1 | 8.1 | 22.4 | 21.9 | 64.1 | 64.0 | 4.6 | 4.6 | 8.1 | | 4.4 | ł |
| | | | | | Surface | 1.0 | 26.5 | 26.5 | 8.0 | 8.0 | 9.7 | 9.7 | 77.0 | 76.9 | 5.9 | | 8.1 | | 4.6 | í |
| | | | | | Sunace | 1.0 | 26.5 | 20.5 | 8.0 | 8.0 | 9.7 | 9.7 | 76.7 | 76.9 | 5.8 | 5.9 | 7.9 | | 4.3 | ł |
| M1 | Cloudy | Moderate | 14:53 | 5.9 | Middle | - | - | - | - | | - | | - | _ | - | 5.9 | - | 8.6 | - | 5.1 |
| 1011 | Cloudy | Woderate | 14.00 | 0.0 | Middle | - | - | | - | | - | | - | | - | | - | 0.0 | - | 0.1 |
| | | | | | Bottom | 4.9 | 26.3 | 26.4 | 7.9 | 8.0 | 11.4 | 11.3 | 70.8 | 73.3 | 5.4 | 5.6 | 9.7 | | 5.8 | ł |
| | | | | | | 4.9 | 26.4 | | 8.0 | | 11.1 | | 75.7 | | 5.7 | | 8.5 | | 5.5 | ┝──── |
| | | | | | Surface | 1.0 | 26.4 26.4 | 26.4 | 8.0 8.1 | 8.1 | 9.8 9.6 | 9.7 | 75.9 76.6 | 76.3 | 5.8 5.9 | | 8.5 7.9 | | 4.3 4.6 | ł |
| | | | | | | - 1.0 | - 20.4 | | - | | 9.6 | | 70.0 | | 5.9 | 5.9 | 7.9 | | 4.0 | ł |
| M2 | Cloudy | Moderate | 14:57 | 5.5 | Middle | | | - | - | - | - | - | - | | | - | - | 8.4 | | 5.0 |
| | | | | | _ | 4.5 | 26.2 | | 8.0 | | 13.0 | | 69.2 | | 5.2 | | 8.6 | | 5.5 | ł |
| | | | | | Bottom | 4.5 | 26.3 | 26.3 | 8.0 | 8.0 | 13.6 | 13.3 | 72.5 | 70.9 | 5.4 | 5.3 | 8.4 | | 5.4 | ł |
| | | | | | Quitara | 1.0 | 26.5 | 00.5 | 8.1 | 0.4 | 8.8 | 0.0 | 77.0 | 77.0 | 5.9 | | 7.9 | | 5 | i i |
| | | | | | Surface | 1.0 | 26.5 | 26.5 | 8.1 | 8.1 | 8.7 | 8.8 | 78.2 | 77.6 | 6.0 | 5.9 | 7.6 | | 5 | ł |
| M3 | Cloudy | Moderate | 14:49 | 7.1 | Middle | 3.6 | 26.3 | 26.3 | 8.1 | 8.1 | 9.6 | 9.7 | 74.5 | 74.9 | 5.7 | 5.9 | 7.8 | 8.0 | 5 | 5 |
| IVIO | Cioudy | wouldate | 17.73 | /.1 | INIQUE | 3.6 | 26.3 | 20.0 | 8.1 | 0.1 | 9.7 | 3.1 | 75.2 | 14.3 | 5.8 | | 7.9 | 0.0 | 5 | 5 |
| | | | | | Bottom | 6.1 | 26.2 | 26.3 | 8.1 | 8.1 | 14.1 | 14.0 | 68.2 | 69.7 | 5.1 | 5.2 | 8.5 | | 6 | I |
| | | | | | | 6.1 | 26.3 | | 8.0 | | 13.9 | | 71.2 | | 5.3 | | 8.0 | | 6 | i |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 18 June 22 | during Mid | -Flood 1 | īde | | | | | | | | | | | | |
|------------|--------------|---------------|----------|------|-------------|------------|--------------|-----------------|------------|---------|--------------|------------|---------|------------|--------------------|-----|------------|------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | pł | 1 | Salir | iity (ppt) | DO Satu | ration (%) | Dissolved (mg/l | | Turbidity(| NTU) | Suspende (mg/ | |
| Station | Condition | | Time | (m) | | | Value | Average | Value A | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.2 | 26.3 | 8.1 | 8.1 | 7.0 | 7.1 | 74.7 | 74.6 | 5.8 | | 8.0 | | 5.4 | 1 |
| | | | | | Sunace | 1.0 | 26.3 | 20.3 | 8.1 | 0.1 | 7.1 | 7.1 | 74.5 | 74.0 | 5.8 | 5.6 | 8.6 | | 5.1 | l |
| C1 | Cloudy | Moderate | 09:40 | 10.6 | Middle | 5.3 | 26.0 | 25.9 | 8.1 | 8.2 | 10.9 | 10.1 | 69.6 | 69.4 | 5.3 | 5.0 | 8.7 | 7.2 | 5.8 | 5.8 |
| 01 | cicuaj | moderate | 00.10 | 1010 | | 5.3 | 25.8 | 20.0 | 8.2 | 0.2 | 9.2 | 10.1 | 69.1 | 00.1 | 5.3 | | 9.8 | | 5.6 | 0.0 |
| | | | | | Bottom | 9.6 | 25.7 | 25.8 | 8.1 | 8.1 | 23.5 | 23.1 | 60.4 | 61.6 | 4.3 | 4.4 | 4.0 | | 6.7 | ł |
| | | [| | | | 9.6 | 25.8 | | 8.1 | * | 22.6 | | 62.8 | | 4.5 | | 3.8 | | 6.4 | <u> </u> |
| | | | | | Surface | 1.0 | 26.2 | 26.2 | 8.0 8.1 | 8.1 | 7.1 6.9 | 7.0 | 76.7 | 76.9 | 6.0 | - | 7.8 | | 4.2 | ł |
| | | | | | | 1.0 | 26.2 | | - | | | | 77.0 | | 6.0 | 5.7 | 7.8 | | 4.1 | ł |
| C2 | Cloudy | Moderate | 09:15 | 10.6 | Middle | 5.3 5.3 | 26.1 26.1 | 26.1 | 8.1 8.1 | 8.1 | 11.8 12.7 | 12.3 | 70.4 | 70.3 | 5.3 5.3 | - | 8.3 8.2 | 8.7 | 4.4 4.6 | 4.6 |
| | | | | | | 9.6 | 25.7 | | 8.1 | | 23.7 | | 62.9 | | 4.5 | | 9.9 | | 5.4 | ł |
| | | | | | Bottom | 9.6 | 25.7 | 25.7 | 8.1 | 8.1 | 23.7 | 23.7 | 63.9 | 63.4 | 4.6 | 4.6 | 10.0 | | 5.1 | ł |
| | | | | | Quitara | 1.0 | 26.3 | 00.0 | 7.8 | 7.0 | 6.8 | 6.9 | 75.1 | 75 4 | 5.8 | | 8.8 | | 4.0 | |
| | | | | | Surface | 1.0 | 26.3 | 26.3 | 7.9 | 7.9 | 6.9 | 6.9 | 75.6 | 75.4 | 5.9 | 5.9 | 9.2 | | 4.3 | ł |
| M1 | Cloudy | Moderate | 09:29 | 5.9 | Middle | - | - | _ | - | _ | - | _ | - | _ | - | 5.9 | - | 9.2 | - | 4.6 |
| IVIT | Cloudy | Moderate | 03.23 | 5.5 | Middle | - | - | _ | - | | - | _ | - | | - | | - | 5.2 | - | 4.0 |
| | | | | | Bottom | 4.9 | 26.3 | 26.3 | 7.8 | 7.9 | 7.9 | 7.8 | 74.8 | 74.9 | 5.8 | 5.8 | 9.0 | | 5.2 | ł |
| | | | | | | 4.9 | 26.3 | | 7.9 | - | 7.7 | - | 75.0 | - | 5.8 | | 9.9 | | 4.8 | <u> </u> |
| | | | | | Surface | 1.0 | 26.3 | 26.3 | 7.9 | 7.9 | 7.6 | 7.6 | 76.4 | 76.5 | 5.9 | | 10.2 | | 4.6 | ł |
| | | | | | | 1.0 | 26.3 | | 7.9 | | 7.6 | | 76.6 | | 5.9 | 5.9 | 9.8 | | 4.5 | ł |
| M2 | Cloudy | Moderate | 09:26 | 5.0 | Middle | - | - | - | - | - | - | - | - | | - | | - | 9.9 | - | 4.9 |
| | | | | | | 4.0 | 26.3 | | - 7.8 | | - 7.5 | | - 75.0 | | - 5.8 | | 9.9 | | - 5.2 | ł |
| | | | | | Bottom | 4.0 | 26.3 | 26.4 | 7.0 | 7.9 | 8.4 | 8.0 | 76.5 | 75.8 | 5.8 | 5.9 | 9.9 9.7 | | 5.4 | ł |
| | | | | | | 1.0 | 26.2 | | 7.9 | | 6.6 | | 70.3 | | 5.7 | | 8.2 | | 3 | |
| | | | | | Surface | 1.0 | 26.2 | 26.2 | 8.0 | 8.0 | 6.7 | 6.7 | 71.9 | 72.4 | 5.6 | 1 | 8.5 | | 3 | I |
| | O L 1 | | 00.04 | | NAT L II | 3.3 | 26.3 | 00.0 | 7.9 | 7.0 | 7.6 | | 71.2 | 70.0 | 5.5 | 5.6 | 8.9 | | 5 | 1. |
| M3 | Cloudy | Moderate | 09:34 | 6.6 | Middle | 3.3 | 26.2 | 26.3 | 7.9 | 7.9 | 7.7 | 7.7 | 70.3 | 70.8 | 5.5 | 1 | 9.6 | 8.9 | 4 | 4 |
| | | | | | Bottom | 5.6 | 26.2 | 26.2 | 7.9 | 7.9 | 9.8 | 10.3 | 68.3 | 69.2 | 5.2 | 5.3 | 9.0 | | 5 | i |
| | | | | | DUILUITI | 5.6 | 26.2 | 20.2 | 7.9 | 1.9 | 10.7 | 10.5 | 70.0 | 09.2 | 5.3 | 5.5 | 8.9 | | 5 | I |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 21 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|-----|------------|------------|--------------|-----------------|------------|---------|------------|------------|--------------|------------|-------------------|-----|-------------|------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water T | emperature (°C) | F | ъH | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(I | NTU) | Suspende (mg, | |
| Station | Condition | | Time | (m) | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.0 | 26.0 | 7.7 | 7.7 | 13.1 | 13.1 | 84.2 | 82.9 | 6.3 | | 7.1 | | 5.6 | |
| | | | | | Sunace | 1.0 | 26.0 | 26.0 | 7.7 | 1.1 | 13.1 | 13.1 | 81.5 | 82.9 | 6.1 | 5.9 | 7.2 | | 5.2 | |
| C1 | Misty | Moderate | 08:38 | 9.0 | Middle | 4.5 | 26.3 | 26.2 | 7.6 | 7.7 | 14.5 | 14.5 | 75.4 | 74.3 | 5.6 | 5.5 | 6.8 | 7.1 | 4.9 | 4.8 |
| 01 | wildty | Woderate | 00.00 | 5.0 | Middle | 4.5 | 26.0 | 20.2 | 7.7 | 1.1 | 14.5 | 14.0 | 73.1 | 74.0 | 5.5 | | 6.8 | 7.1 | 4.7 | 4.0 |
| | | | | | Bottom | 8.0 | 26.7 | 26.4 | 7.5 | 7.5 | 16.9 | 16.9 | 83.2 | 81.3 | 6.1 | 6.0 | 7.4 | | 4.2 | 1 |
| | | | | | | 8.0 | 26.0 | | 7.5 | | 16.8 | | 79.3 | | 5.8 | | 7.3 | | 4.4 | Ļ |
| | | | | | Surface | 1.0 | 25.9 26.0 | 26.0 | 7.7 | 7.7 | 7.2 6.8 | 7.0 | 81.5 81.4 | 81.5 | 6.4 6.3 | - | 4.1 | | 3.8 3.6 | 4 |
| | | | | | | 4.9 | 26.0 | | 7.7 | | 13.4 | | 72.3 | | 5.4 | 5.9 | 4.1 5.3 | | 3.0 4.1 | 1 |
| C2 | Misty | Moderate | 08:19 | 9.8 | Middle | 4.9 | 26.0 | 26.1 | 7.7 | 7.7 | 13.4 | 13.1 | 72.3 | 72.2 | 5.4 | | 5.3 | 5.3 | 4.1 | 4.2 |
| | | | | | | 8.8 | 26.5 | | 7.5 | | 19.9 | | 73.4 | | 5.3 | | 6.4 | | 4.7 | |
| | | | | | Bottom | 8.8 | 26.0 | 26.3 | 7.5 | 7.5 | 19.2 | 19.6 | 73.4 | 73.4 | 5.3 | 5.3 | 6.3 | | 4.5 | |
| | | | | | Surface | 1.0 | 26.4 | 26.3 | 7.6 | 7.6 | 8.9 | 9.0 | 88.6 | 88.6 | 6.7 | | 6.1 | | 4.3 | |
| | | | | | Sunace | 1.0 | 26.2 | 20.3 | 7.6 | 7.0 | 9.0 | 9.0 | 88.6 | 88.0 | 6.7 | 6.7 | 6.0 | | 4.0 | |
| M1 | Misty | Moderate | 08:30 | 5.0 | Middle | - | - | _ | - | _ | - | _ | - | | - | 0.7 | - | 6.7 | - | 3.9 |
| 1011 | wildty | Woderate | 00.00 | 0.0 | Middle | - | - | | - | | - | | - | | - | | - | 0.7 | - | 0.0 |
| | | | | | Bottom | 4.0 | 26.7 | 26.5 | 7.6 | 7.6 | 9.0 | 9.0 | 91.5 | 91.6 | 7.0 | 7.0 | 7.4 | | 3.7 | 1 |
| | | | | | | 4.0 | 26.3 | | 7.6 | - | 9.0 | | 91.6 | | 6.9 | | 7.4 | | 3.4 | <u> </u> |
| | | | | | Surface | 1.0 | 26.3 26.2 | 26.3 | 7.6 7.6 | 7.6 | 7.7 | 7.7 | 89.7 87.2 | 88.5 | 6.8 6.8 | - | 6.2 6.2 | | 6.0 5.6 | 4 |
| | | | | | | - 1.0 | - 20.2 | | 7.0 | | - | | - 01.2 | | 0.0 | 6.8 | - 0.2 | | 0.0 - | 1 |
| M2 | Misty | Moderate | 08:27 | 4.2 | Middle | | | | - | - | - | - | - | | - | | - | 7.1 | | 4.9 |
| | | | | | | 3.2 | 26.6 | | 7.6 | | 7.8 | | 91.5 | | 7.0 | | 7.9 | | 3.9 | |
| | | | | | Bottom | 3.2 | 26.2 | 26.4 | 7.6 | 7.6 | 7.7 | 7.8 | 89.7 | 90.6 | 6.9 | 7.0 | 7.9 | | 4.2 | |
| | | | | | Quitara | 1.0 | 26.1 | 00.0 | 7.7 | 7.7 | 9.9 | 40.0 | 85.6 | 05.0 | 6.6 | | 6.2 | | 5 | |
| | | | | | Surface | 1.0 | 26.2 | 26.2 | 7.7 | 1.1 | 10.0 | 10.0 | 85.5 | 85.6 | 6.5 | 6.4 | 6.2 | | 5 | 1 |
| M3 | Misty | Moderate | 08:33 | 6.2 | Middle | 3.1 | 26.4 | 26.3 | 7.7 | 7.7 | 10.7 | 10.7 | 83.8 | 83.7 | 6.3 | 0.4 | 7.1 | 7.1 | 4 | 4 |
| IVIO | willoty | wouldate | 00.00 | 0.2 | | 3.1 | 26.1 | 20.0 | 7.7 | 1.1 | 10.7 | 10.7 | 83.6 | 00.7 | 6.3 | | 7.1 | 1.1 | 4 | - |
| | | | | | Bottom | 5.2 | 26.7 | 26.4 | 7.5 | 7.6 | 11.6 | 11.6 | 83.4 | 83.4 | 6.2 | 6.3 | 8.1 | | 4 | 1 |
| | | | | | | 5.2 | 26.1 | | 7.6 | | 11.6 | | 83.4 | | 6.3 | | 8.0 | | 4 | 1 |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 21 June 22 | during Mid | -Flood 7 | Tide | | | | | | | | | | | | |
|------------|-----------|---------------|----------|-----|------------|------------|--------------|-----------------|------------|---------|-------|------------|--------------|-----------|-------------------|-----|------------|----------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water Te | emperature (°C) | р | Н | Salin | iity (ppt) | DO Satu | ation (%) | Dissolved (mg/ | | Turbidity | (NTU) | Suspende (mg. | |
| Station | Condition | | Time | (m) | | -F () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.1 | 26.1 | 7.8 | 7.8 | 9.2 | 9.2 | 87.6 | 86.1 | 6.7 | | 4.1 | | 4.1 | |
| | | | | | Sunace | 1.0 | 26.1 | 20.1 | 7.7 | 7.8 | 9.1 | 9.2 | 84.5 | 00.1 | 6.4 | 6.3 | 4.2 | 1 | 4.3 | |
| C1 | Misty | Moderate | 11:24 | 8.2 | Middle | 4.1 | 26.0 | 26.1 | 7.7 | 7.7 | 10.3 | 10.3 | 79.7 | 78.4 | 6.1 | 0.5 | 5.3 | 4.5 | 3.6 | 3.8 |
| 01 | willoty | Woderate | 11.24 | 0.2 | Middle | 4.1 | 26.1 | 20.1 | 7.7 | 7.7 | 10.3 | 10.5 | 77.0 | 70.4 | 5.9 | | 5.3 | 4.0 | 4.0 | 0.0 |
| | | | | | Bottom | 7.2 | 26.1 | 26.1 | 7.7 | 7.7 | 15.5 | 15.5 | 83.6 | 82.2 | 6.2 | 6.1 | 4.0 | 1 | 3.2 | |
| | | | | | Bottom | 7.2 | 26.1 | 20.1 | 7.6 | 1.1 | 15.4 | 10.0 | 80.7 | 02.2 | 6.0 | 0.1 | 4.0 | <u> </u> | 3.4 | <u> </u> |
| | | | | | Surface | 1.0 | 26.1 | 26.2 | 7.8 | 7.8 | 10.2 | 10.2 | 90.6 | 89.9 | 6.9 | _ | 4.5 | 1 | 4.1 | 1 |
| | | | | | | 1.0 | 26.2 | | 7.8 | | 10.1 | | 89.1 | | 6.7 | 6.6 | 4.4 | 1 | 4.4 | |
| C2 | Misty | Moderate | 11:42 | 9.2 | Middle | 4.6 | 26.1 | 26.2 | 7.8 | 7.8 | 12.6 | 12.6 | 84.3 | 83.4 | 6.3 | - | 5.4 | 5.6 | 3.5 | 3.8 |
| | , | | | | | 4.6 | 26.2 | | 7.7 | | 12.6 | | 82.5 | | 6.3 | | 5.4 | 1 | 3.9 | 1 |
| | | | | | Bottom | 8.2 | 26.1 | 26.2 | 7.8 7.7 | 7.8 | 13.9 | 13.9 | 88.9 | 87.4 | 6.7 | 6.6 | 7.0 | 1 | 3.3 | 1 |
| | | | | | | 8.2 | 26.2 | | | | 13.9 | | 85.9 | | 6.4 | | 6.9 | | 3.5 | <u> </u> |
| | | | | | Surface | 1.0 | 26.3 26.3 | 26.3 | 7.8 7.8 | 7.8 | 7.4 | 7.6 | 99.8 99.6 | 99.7 | 7.6 7.7 | - | 6.1 6.1 | 1 | 4.3 4.7 | 1 |
| | | | | | | - | - 20.3 | | - | | | | | | - | 7.7 | - | 1 | 4.7 | 1 |
| M1 | Misty | Moderate | 11:35 | 5.2 | Middle | | | - | - | - | - | - | - | | - | - | - | 6.6 | | 4.1 |
| | | | | | | 4.2 | 26.3 | | 7.9 | | 8.3 | | 98.5 | | 7.6 | | 7.1 | 1 | 3.6 | |
| | | | | | Bottom | 4.2 | 26.4 | 26.4 | 7.8 | 7.9 | 8.3 | 8.3 | 98.4 | 98.5 | 7.6 | 7.6 | 7.0 | 1 | 3.8 | |
| | | | | | Surface | 1.0 | 26.4 | 26.4 | 7.8 | 7.8 | 8.4 | 8.5 | 96.1 | 96.3 | 7.4 | | 5.4 | | 4.0 | |
| | | | | | Surrace | 1.0 | 26.4 | 26.4 | 7.8 | 7.8 | 8.5 | 8.5 | 96.5 | 96.3 | 7.3 | 7.4 | 5.3 | 1 | 3.9 | |
| M2 | Misty | Moderate | 11:32 | 4.6 | Middle | - | - | | - | | - | | - | _ | - | 7.4 | - | 6.1 | - | 4.9 |
| IVIZ | wisty | woderate | 11:32 | 4.0 | IVIIdale | - | - | - | - | - | - | - | - | 1 - | - | | - | 0.1 | - | 4.9 |
| | | | | | Bottom | 3.6 | 26.4 | 26.4 | 7.9 | 7.9 | 8.9 | 8.9 | 99.9 | 99.7 | 7.6 | 7.6 | 6.7 | 1 | 5.8 | |
| | | | | | Bottom | 3.6 | 26.4 | 20.4 | 7.8 | 7.9 | 8.9 | 0.9 | 99.4 | 99.7 | 7.5 | 7.0 | 6.8 | I | 5.8 | |
| | | | | | Surface | 1.0 | 26.0 | 26.1 | 7.8 | 7.8 | 8.4 | 8.4 | 84.4 | 84.0 | 6.6 | | 6.6 | | 5 | |
| | | | | | Suilace | 1.0 | 26.1 | 20.1 | 7.8 | 7.0 | 8.4 | 0.4 | 83.6 | 04.0 | 6.5 | 6.2 | 6.6 | 1 | 5 | |
| M3 | Misty | Moderate | 11:29 | 7.6 | Middle | 3.8 | 25.9 | 26.0 | 7.9 | 7.9 | 10.1 | 10.1 | 77.1 | 76.2 | 5.9 | 0.2 | 7.4 | 7.4 | 5 | 5 |
| 1110 | itiloty | moderate | 11.20 | 1.0 | | 3.8 | 26.1 | 20.0 | 7.8 | 1.0 | 10.1 | 10.1 | 75.3 | 10.2 | 5.7 | | 7.4 | | 5 | Ŭ |
| | | | | | Bottom | 6.6 | 25.9 | 26.0 | 7.7 | 7.7 | 14.2 | 14.2 | 82.0 | 80.5 | 6.0 | 5.9 | 8.1 | | 4 | 1 |
| | | | | | _ 0110111 | 6.6 | 26.1 | _5.0 | 7.6 | | 14.2 | | 78.9 | 2510 | 5.8 | 1.0 | 8.1 | ı | 4 | |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 23 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|------|------------|------------|--------------|-----------------|------------|---------|--------------|------------|--------------|------------|--------------------|-----|-------------|------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water Te | emperature (°C) | p | эΗ | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/l | | Turbidity(I | NTU) | Suspende (mg/ | |
| Station | Condition | | Time | (m) | | -F () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.0 | 26.0 | 7.8 | 7.8 | 5.8 | 5.9 | 88.4 | 88.3 | 7.0 | | 3.2 | | 7.5 | |
| | | | | | Sunace | 1.0 | 25.9 | 26.0 | 7.8 | 7.8 | 5.9 | 5.9 | 88.1 | 88.3 | 6.9 | 6.6 | 3.2 | | 7.9 | |
| C1 | Sunny | Calm | 09:19 | 9.2 | Middle | 4.6 | 25.8 | 25.9 | 7.7 | 7.7 | 16.8 | 17.6 | 86.1 | 86.2 | 6.3 | 0.0 | 4.4 | 4.3 | 6.9 | 7.1 |
| 01 | Conny | Call | 00.10 | 5.2 | Middle | 4.6 | 26.0 | 20.5 | 7.7 | 1.1 | 18.3 | 17.0 | 86.2 | 00.2 | 6.3 | | 4.5 | 4.0 | 7.1 | |
| | | | | | Bottom | 8.2 | 25.7 | 25.9 | 7.7 | 7.7 | 21.4 | 22.2 | 82.6 | 82.6 | 6.0 | 6.0 | 5.4 | | 6.4 | 1 |
| | | | | | | 8.2 | 26.0 | | 7.6 | | 23.0 | | 82.5 | | 5.9 | | 5.3 | | 6.7 | <u> </u> |
| | | | | | Surface | 1.0 1.0 | 25.9 26.0 | 26.0 | 7.9 7.8 | 7.9 | 14.2 14.2 | 14.2 | 81.2 81.3 | 81.3 | 6.0 6.1 | | 4.1 4.0 | | 8.9 8.6 | 1 |
| | | | | | | 5.4 | 26.0 | | 7.8 | | 14.2 | | 85.1 | | 6.3 | 6.2 | 4.0 5.1 | | 8.2 | i i |
| C2 | Sunny | Calm | 08:59 | 10.8 | Middle | 5.4 | 25.8 | 25.9 | 7.0 | 7.8 | 16.5 | 16.5 | 85.6 | 85.4 | 6.3 | - | 5.1 | 5.2 | 8.0 | 8.1 |
| | | | | | | 9.8 | 25.8 | | 7.8 | | 19.4 | | 84.3 | | 6.2 | | 6.4 | | 7.6 | i |
| | | | | | Bottom | 9.8 | 26.0 | 25.9 | 7.7 | 7.8 | 19.3 | 19.4 | 84.3 | 84.3 | 6.1 | 6.2 | 6.3 | | 7.4 | i |
| | | | | | Quitan | 1.0 | 26.5 | 26.5 | 7.9 | 7.0 | 7.2 | 7.0 | 89.7 | 89.2 | 6.9 | | 6.3 | | 5.8 | |
| | | | | | Surface | 1.0 | 26.4 | 20.5 | 7.8 | 7.9 | 7.1 | 7.2 | 88.6 | 69.Z | 6.9 | 6.9 | 6.2 | | 5.9 | i i |
| M1 | Sunny | Calm | 09:07 | 5.0 | Middle | - | - | - | - | _ | - | _ | - | | - | 0.9 | - | 7.0 | - | 6.1 |
| IVII | Outifry | Caim | 03.07 | 5.0 | Middle | - | - | _ | - | | - | _ | - | | - | | - | 7.0 | - | 0.1 |
| | | | | | Bottom | 4.0 | 26.7 | 26.6 | 7.9 | 7.9 | 9.7 | 9.6 | 92.9 | 91.2 | 7.1 | 7.0 | 7.6 | | 6.2 | 1 |
| | | | | | | 4.0 | 26.5 | | 7.8 | | 9.4 | | 89.5 | | 6.8 | | 7.7 | | 6.5 | <u> </u> |
| | | | | | Surface | 1.0 | 26.7 | 26.6 | 7.8 7.7 | 7.8 | 6.5 6.9 | 6.7 | 91.1 | 91.1 | 7.0 | _ | 7.5 | | 5.6 | 1 |
| | | | | | | 1.0 | 26.4 | | - | | 6.9 | | 91.0 - | | 7.1 | 7.1 | 7.4 | | 6.0 | i i |
| M2 | Sunny | Calm | 09:10 | 4.6 | Middle | | - | - | - | - | - | - | - | - | | - | - | 7.6 | - | 6.1 |
| | | | | | | 3.6 | 26.9 | | 7.8 | | 9.0 | | 95.7 | | 7.3 | | 8.1 | | 6.6 | i |
| | | | | | Bottom | 3.6 | 26.4 | 26.7 | 7.7 | 7.8 | 9.5 | 9.3 | 95.4 | 95.6 | 7.3 | 7.3 | 7.2 | | 6.3 | Í |
| | | | | | o (| 1.0 | 26.2 | | 7.8 | 7.0 | 9.4 | | 79.8 | 70.0 | 6.1 | | 6.5 | | 7 | |
| | | | | | Surface | 1.0 | 26.3 | 26.3 | 7.8 | 7.8 | 9.8 | 9.6 | 79.8 | 79.8 | 6.0 | 6.0 | 6.5 | | 7 | i |
| M3 | Sunny | Calm | 09:15 | 7.6 | Middle | 3.8 | 26.4 | 26.3 | 7.7 | 7.7 | 10.7 | 10.7 | 77.7 | 77.4 | 5.9 | 0.0 | 7.1 | 7.3 | 7 | 7 |
| IVIO | Gunny | Calli | 03.15 | 7.0 | | 3.8 | 26.2 | 20.0 | 7.7 | 1.1 | 10.6 | 10.7 | 77.1 | //.4 | 5.8 | | 7.2 | 1.5 | 7 | , í |
| | | | | | Bottom | 6.6 | 26.6 | 26.4 | 7.7 | 7.7 | 15.9 | 16.0 | 79.4 | 79.5 | 5.8 | 5.8 | 8.1 | | 8 | 1 |
| | | | | | 20110111 | 6.6 | 26.2 | _0 | 7.6 | | 16.0 | | 79.5 | | 5.8 | 0.0 | 8.1 | | 7 | L |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 23 June 22 | during Mid | -Flood 7 | Tide | | | | | | | | | | | | |
|------------|-----------|---------------|----------|------|-------------|------------|--------------|-----------------|-------|---------|------------|------------|--------------|------------|--------------------|----------|------------|------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | р | Н | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/l | | Turbidity(| NTU) | Suspende (mg. | |
| Station | Condition | | Time | (m) | | , | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.4 | 26.5 | 7.8 | 7.8 | 4.4 | 4.4 | 86.1 | 86.4 | 6.8 | | 6.2 | | 13.3 | |
| | | | | | Sunace | 1.0 | 26.6 | 20.5 | 7.8 | 7.8 | 4.4 | 4.4 | 86.7 | 80.4 | 6.8 | 6.4 | 6.1 | | 13.2 | ł |
| C1 | Sunny | Calm | 14:12 | 10.0 | Middle | 5.0 | 25.9 | 26.1 | 7.7 | 7.8 | 6.2 | 6.2 | 75.2 | 76.3 | 5.8 | 0.4 | 7.9 | 5.9 | 12.5 | 12.4 |
| 0. | Carriy | Call | | | Middlo | 5.0 | 26.2 | 20.1 | 7.8 | 1.0 | 6.2 | 0.2 | 77.4 | 70.0 | 6.0 | | 7.6 | 0.0 | 12.1 | |
| | | | | | Bottom | 9.0 | 25.4 | 25.4 | 7.6 | 7.7 | 7.4 | 7.5 | 75.3 | 74.8 | 6.0 | 5.9 | 4.0 | | 11.5 | ł |
| | | 1 | | | | 9.0 | 25.4 | - | 7.7 | | 7.5 | - | 74.2 | | 5.8 | | 3.8 | | 11.7 | |
| | | | | | Surface | 1.0 | 26.2 26.2 | 26.2 | 7.7 | 7.8 | 4.2 | 4.2 | 89.4 87.5 | 88.5 | 7.0 6.8 | - | 6.8 6.7 | | 10.3 10.0 | ł |
| | | | | | | 5.0 | 26.2 | | 7.8 | | 4.2 | | 87.5 84.7 | | 6.6 | 6.8 | 7.6 | | 10.0 | ł |
| C2 | Sunny | Calm | 14:30 | 10.0 | Middle | 5.0 | 25.7 | 25.7 | 7.8 | 7.9 | 4.7 | 4.8 | 84.5 | 84.6 | 6.7 | | 7.7 | 7.8 | 12.1 | 11.7 |
| | | | | | D | 9.0 | 25.7 | | 7.6 | | 5.4 | | 83.3 | | 6.5 | | 8.9 | | 12.8 | ł |
| | | | | | Bottom | 9.0 | 25.7 | 25.7 | 7.5 | 7.6 | 5.4 | 5.4 | 83.0 | 83.2 | 6.6 | 6.6 | 8.9 | | 12.9 | ł |
| | | | | | Surface | 1.0 | 27.4 | 27.4 | 7.7 | 7.7 | 6.4 | 6.5 | 96.0 | 95.7 | 7.3 | | 7.1 | | 7.9 | |
| | | | | | Gunace | 1.0 | 27.4 | 27.4 | 7.7 | 1.1 | 6.5 | 0.5 | 95.4 | 55.7 | 7.3 | 7.3 | 7.1 | | 8.2 | 1 |
| M1 | Sunny | Calm | 14:19 | 5.0 | Middle | - | - | - | - | - | - | - | - | | - | 1.0 | - | 7.7 | - | 8.4 |
| | | | | | | - | - | | - | | - | | - | | - | | - | | - | 1 |
| | | | | | Bottom | 4.0 | 27.3 27.4 | 27.4 | 7.7 | 7.7 | 7.4 7.6 | 7.5 | 96.3 95.8 | 96.1 | 7.3 7.3 | 7.3 | 8.3 8.2 | | 9.0 8.6 | ł |
| | | | | | | 1.0 | 27.4 | | 7.7 | | 5.3 | | 95.8 94.0 | | 7.3 | | 8.2 7.4 | | 7.7 | <u> </u> |
| | | | | | Surface | 1.0 | 27.2 | 27.2 | 7.7 | 7.7 | 5.3 | 5.3 | 93.0 | 93.5 | 7.2 | | 7.4 | | 7.4 | ł |
| | | | | | | - | - | | - | | - | | - | | - | 7.2 | - | | - | ł |
| M2 | Sunny | Calm | 14:22 | 4.0 | Middle | - | · - | - | - | - | - | - | - | - | - | | - | 7.7 | - | 8.4 |
| | | | | | Detterr | 3.0 | 27.3 | 07.0 | 7.7 | 7.7 | 6.3 | 6.2 | 96.4 | 05.0 | 7.4 | 7.0 | 8.1 | | 9.1 | ł |
| | | | | | Bottom | 3.0 | 27.1 | 27.2 | 7.7 | 1.1 | 6.0 | 6.2 | 93.5 | 95.0 | 7.2 | 7.3 | 8.0 | | 9.5 | ł |
| | | | | | Surface | 1.0 | 26.9 | 26.9 | 7.7 | 7.7 | 4.8 | 4.8 | 88.2 | 88.3 | 6.9 | | 7.7 | | 11 | |
| | | | | | Sunace | 1.0 | 26.8 | 20.9 | 7.7 | 1.1 | 4.8 | 4.0 | 88.4 | 00.5 | 6.9 | 6.9 | 7.8 | | 11 | l |
| MЗ | Sunny | Calm | 14:16 | 6.2 | Middle | 3.1 | 26.9 | 26.9 | 7.7 | 7.7 | 5.4 | 5.5 | 87.3 | 87.4 | 6.8 | 0.0 | 8.6 | 8.4 | 11 | 11 |
| | | | | | | 3.1 | 26.8 | | 7.7 | | 5.5 | | 87.5 | | 6.8 | <u> </u> | 8.5 | | 11 | 1 |
| | | | | | Bottom | 5.2 | 26.9 | 26.9 | 7.7 | 7.6 | 8.1 | 8.1 | 85.1 | 87.0 | 6.5 | 6.7 | 9.0 | | 10 | l |
| | | | | | | 5.2 | 26.9 | | 7.5 | | 8.1 | | 88.9 | | 6.8 | | 9.0 | | 10 | <u> </u> |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | ilts on | | 25 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|--------|------------|------------|--------------|-----------------|-------|---------|------------|------------|--------------|------------|-------------------|----------|------------|------|------------------|-------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling D | epth (m) | Water Te | emperature (°C) | þ | ъH | Salir | nity (ppt) | DO Satu | ration (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg/ | |
| Station | Condition | | Time | (m) | eapig D | op () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.1 | 26.1 | 7.8 | 7.8 | 6.7 | 6.6 | 82.3 | 82.2 | 6.4 | 1 | 8.1 | | 5.3 | |
| | | | | | Sunace | 1.0 | 26.0 | 20.1 | 7.8 | 7.8 | 6.4 | 0.0 | 82.0 | 02.2 | 6.3 | 6.1 | 8.0 | | 5.6 | Í |
| C1 | Sunny | Calm | 10:47 | 9.2 | Middle | 4.6 | 25.7 | 25.9 | 7.7 | 7.7 | 21.7 | 21.6 | 81.6 | 81.4 | 5.8 | 0.1 | 7.2 | 7.1 | 4.7 | 4.8 |
| 01 | Gunny | Caim | 10.47 | 5.2 | Middle | 4.6 | 26.1 | 23.3 | 7.7 | 1.1 | 21.5 | 21.0 | 81.1 | 01.4 | 5.8 | | 7.2 | | 4.5 | 4.0 |
| | | | | | Bottom | 8.2 | 25.7 | 26.0 | 7.6 | 7.6 | 23.2 | 23.0 | 80.6 | 80.5 | 5.8 | 5.7 | 6.2 | | 4.1 | 1 |
| | | | | | 20110111 | 8.2 | 26.3 | 20.0 | 7.6 | | 22.8 | 2010 | 80.4 | 00.0 | 5.6 | | 6.1 | | 4.4 | Ļ |
| | | | | | Surface | 1.0 | 26.0 | 26.2 | 7.8 | 7.8 | 7.0 | 6.9 | 79.7 | 81.7 | 6.2 | _ | 6.0 | | 4.6 | 1 |
| | | | | | | 1.0 | 26.3 | | 7.8 | - | 6.7 | | 83.6 | _ | 6.5 | 5.5 | 6.0 | | 4.9 | 4 |
| C2 Sunny | Calm | 10:27 | 10.0 | Middle | 5.0 | 25.7 | 25.9 | 7.7 | 7.7 | 21.3 | 20.8 | 63.7 | 65.0 | 4.6 | _ | 5.9 | 5.9 | 5.5 | 5.3 | |
| | | | | | 5.0 | 26.1 | | 7.7 | | 20.2 | | 66.2 | | 4.8 | ── | 5.9 | ł | 5.3 | 4 | |
| | | | | | Bottom | 9.0 | 25.8 | 26.0 | 7.7 | 7.7 | 22.1 | 22.3 | 71.5 | 71.5 | 5.1 | 5.1 | 5.7 | | 5.6 | 4 |
| | | | | | | 9.0 | 26.2 26.8 | | 7.7 | | 22.4 | 1 | 71.4 90.4 | | 5.1 6.9 | ┝─── | 5.6 8.7 | | 5.9 6.1 | ┝──── |
| | | | | | Surface | 1.0 | 26.8 | 26.9 | 7.8 | 7.8 | 9.4 9.3 | 9.4 | 90.4 | 90.8 | 6.8 | - | 8.7 | | 6.0 | Í |
| | | | | | | - | | | - | | 9.5 | | | | - | 6.9 | - | | - | i |
| M1 | Sunny | Calm | 10:39 | 5.2 | Middle | | - | | - | 7.7 | - | | - | | - | - | - | 8.6 | - | 5.5 |
| | | | | | | 4.2 | 27.3 | | 7.7 | | 11.0 | | 85.1 | | 6.2 | | 8.6 | | 4.8 | i |
| | | | | | Bottom | 4.2 | 26.9 | 27.1 | 7.7 | | 11.0 | | 85.2 | 85.2 | 6.3 | 6.3 | 8.5 | | 5.2 | Í |
| | | | | | | 1.0 | 27.4 | | 7.8 | | 6.0 | | 94.5 | | 7.2 | 1 | 7.1 | | 5.0 | |
| | | | | | Surface | 1.0 | 26.9 | 27.2 | 7.8 | 7.8 | 5.9 | 6.0 | 94.2 | 94.4 | 7.2 | | 7.1 | | 5.3 | Í |
| Mo | Cummu | Colm | 10.20 | 1.0 | Middle | - | - | | - | | - | | - | | - | 7.2 | - | 7.0 | - | 5.0 |
| M2 | Sunny | Calm | 10:36 | 4.0 | Middle | - | - | - | - | - | - | 1 - | - | - | - | | - | 7.0 | - | 5.6 |
| | | | | | Bottom | 3.0 | 27.7 | 27.4 | 7.8 | 7.8 | 7.5 | 7.5 | 97.7 | 97.6 | 7.4 | 7.4 | 6.8 | | 5.9 | i |
| | | | | | Bollom | 3.0 | 27.1 | 27.4 | 7.8 | 7.0 | 7.5 | 7.5 | 97.4 | 97.0 | 7.4 | 7.4 | 6.8 | | 6.3 | |
| | | | | | Surface | 1.0 | 26.9 | 26.8 | 7.8 | 7.8 | 6.1 | 6.1 | 82.6 | 82.7 | 6.3 | | 8.1 | | 4 | Í |
| | | | | | Guildoo | 1.0 | 26.6 | 20.0 | 7.8 | 7.0 | 6.0 | 0.1 | 82.7 | 02.1 | 6.4 6 | 6.3 | 8.0 | | 4 | 1 |
| M3 | Sunny | Calm | 10:43 | 6.2 | Middle | 3.1 | 26.6 | 26.6 | 7.9 | 7.9 | 7.9 | 7.9 | 80.2 | 80.7 | 6.2 | | 8.4 | 8.3 | 5 | 5 |
| | C | | | 6.2 | Middle | 3.1 | 26.5 | 26.5 26.6 | 7.9 | | 7.8 | .8 7.9 | 81.2 | | 6.2 | \vdash | 8.4 | 0.0 | 5 | Ĭ |
| | | | | | Bottom | 5.2 | 27.0 | 26.9 | 7.6 | 7.7 | 10.5 | 10.5 | 78.0 | 78.2 | 5.9 | 5.9 | 8.6 | | 6 | 1 |
| | | | | | 5.2 | 26.7 | , | 7.7 | | 10.4 | | 78.4 | | 5.9 | | 8.5 | | 7 | L | |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | ality Moni | toring Resu | lts on | | 25 June 22 | during Mid | -Flood 7 | Tide | | | | | | | | | | | | |
|------------|-------------------------------------|---------------|----------|--------|-------------|------------|----------|-----------------|------------|---------|-------|------------|----------------|-----------|--------------------|-----|------------|-------|------------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | pl | Н | Salir | iity (ppt) | DO Satu | ation (%) | Dissolved (mg/l | | Turbidity(| (NTU) | Suspende (mg. | |
| Station | Condition | | Time | (m) | | () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 26.3 | 26.6 | 7.9 | 7.9 | 4.8 | 4.9 | 87.6 | 87.5 | 6.9 | | 7.1 | | 7.0 | |
| | | | | | Sunace | 1.0 | 26.8 | 20.0 | 7.9 | 7.9 | 4.9 | 4.9 | 87.4 | 67.5 | 6.7 | 6.6 | 7.0 | | 7.0 | l |
| C1 | Sunny | Calm | 15:50 | 8.4 | Middle | 4.2 | 26.3 | 26.4 | 7.9 | 7.9 | 7.8 | 7.9 | 82.4 | 82.3 | 6.4 | 0.0 | 8.3 | 6.5 | 5.8 | 5.9 |
| | · · · · · · · · · · · · · · · · · · | | | | | 4.2 | 26.4 | 2011 | 7.9 | | 7.9 | | 82.1 | 02.0 | 6.2 | | 8.3 | | 5.5 | 4 |
| | | | | | Bottom | 7.4 | 26.5 | 26.0 | 7.7 | 7.7 | 11.4 | 11.5 | 83.6 | 83.5 | 6.2 | 6.3 | 4.0 | | 5.2 | 4 |
| | | | | | | 7.4 | 25.5 | | 7.6 | | 11.5 | | 83.4 | 1 | 6.3 | | 4.2 | | 4.8 | <u> </u> |
| | | | | | Surface | 1.0 | 27.0 | 27.1 | 8.0 8.0 | 8.0 | 4.4 | 4.5 | 89.1 89.1 | 89.1 | 6.9 6.9 | - | 7.8 7.7 | | 5.8 6.3 | i i |
| | C2 Sunny | | | | | 4.5 | 27.1 | | 8.1 | | 9.9 | | 80.0 | | 6.0 | 6.5 | 8.2 | | 5.6 | i i |
| C2 Sunny | Calm | 16:09 | 9.0 | Middle | 4.5 | 26.7 | 27.1 | 8.1 | 8.1 | 9.9 | 9.9 | 81.1 | 80.6 | 6.1 | | 8.1 | 8.5 | 5.4 | 5.5 | |
| | | | | | D // | 8.0 | 25.2 | 05.0 | 7.8 | 7.0 | 27.1 | 07.0 | 79.5 | 70.0 | 5.5 | 5.0 | 9.5 | | 5.1 | i i |
| | | | | | Bottom | 8.0 | 25.4 | 25.3 | 7.7 | 7.8 | 28.4 | 27.8 | 79.1 | 79.3 | 5.6 | 5.6 | 9.4 | | 4.8 | i i |
| | | | | | Surface | 1.0 | 27.8 | 27.8 | 8.0 | 8.0 | 6.6 | 6.7 | 107.7 | 104.6 | 8.2 | | 7.6 | | 4.5 | |
| | | | | | Gunace | 1.0 | 27.7 | 27.0 | 8.0 | 0.0 | 6.7 | 0.7 | 101.4 | 104.0 | 8.2 | 8.2 | 8.2 | | 4.8 | 1 |
| M1 | Sunny | Calm | 15:58 | 5.0 | Middle | - | - | - | - | - | - | - | - | | - | 0.2 | - | 8.3 | - | 5.0 |
| | | | | | | - | - | | - | | - | | - | | - | | - | | - | 4 |
| | | | | | Bottom | 4.0 | 27.8 | 27.8 | 8.0 8.0 | 8.0 | 7.7 | 7.8 | 109.8 105.7 | 107.8 | 8.2 8.0 | 8.1 | 8.5 9.0 | | 5.1 5.4 | i i |
| | | | | | | 1.0 | 27.4 | | 7.9 | | 5.7 | | 105.7 | | 7.8 | 1 | 9.0 8.1 | | 5.4 4.6 | <u> </u> |
| | | | | | Surface | 1.0 | 27.4 | 27.4 | 7.9 | 7.9 | 6.2 | 6.0 | 101.9 | 104.4 | 8.1 | - | 7.6 | | 4.0 | i i |
| | | | | | | - | - | | - | | - | | - | | - | 8.0 | - | | - | i i |
| M2 | Sunny | Calm | 16:01 | 4.8 | Middle | - | · - | - | - | - | - | - | - | | - | - | - | 8.3 | - | 4.9 |
| | | | | | Detterr | 3.8 | 27.3 | 07.4 | 7.9 | 7.0 | 7.4 | 74 | 104.4 | 407.0 | 8.2 | 0.0 | 9.1 | | 5.5 | i i |
| | | | | | Bottom | 3.8 | 27.4 | 27.4 | 7.9 | 7.9 | 6.8 | 7.1 | 110.1 | 107.3 | 8.3 | 8.3 | 8.4 | | 5.3 | 1 |
| | | | | | Surface | 1.0 | 27.0 | 27.0 | 7.8 | 7.8 | 5.9 | 5.9 | 93.9 | 93.1 | 7.3 | | 7.6 | | 4 | |
| | | | | | Surface | 1.0 | 26.9 | 27.0 | 7.8 | 7.0 | 5.9 | 5.9 | 92.2 | 93.1 | 7.2 | 7.1 | 7.7 | | 4 | l |
| MЗ | Sunny | Calm | 15:55 | 8.0 | Middle | 4.0 | 26.8 | 26.9 | 7.8 | 7.8 | 6.4 | 6.4 | 91.0 | 90.1 | 7.0 | , | 8.4 | 8.4 | 4 | 4 |
| | | | | | Middle | 4.0 | 26.9 | 26.9 | 7.8 | 7.8 | 6.3 | | 89.2 | | 6.9 | 8.5 | | | 5 | 1 |
| | | | | | Bottom | 7.0 | 26.8 | 26.9 | 7.8 | 7.8 | 8.8 | 8.8 | 81.6 | 82.0 | 6.2 | 6.2 | 9.2 | | 5 | i i |
| | | | | | | 7.0 | 27.0 | | 1.1 | | 8.7 | | 82.4 | | 6.2 | | 9.1 | | 5 | <u> </u> |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 28 June 22 | during Mid | -Ebb Tio | de | | | | | | | | | | | | |
|------------|-----------|---------------|----------|-------------|-------------|------------|------------------------------|-----------------|------------|-----------------|--------------|------------|----------------|-----------|-------------------|--------------|------------|------|-----------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | Water Depth | Sampling De | epth (m) | Water Te | emperature (°C) | р | Н | Salir | iity (ppt) | DO Satur | ation (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | , | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 27.7 | 27.8 | 8.1 | 8.1 | 20.5 | 20.5 | 93.2 | 93.4 | 6.4 | | 6.6 | | 2.2 | |
| | | | | | Suilace | 1.0 | 27.8 | 27.0 | 8.1 | 0.1 | 20.5 | 20.5 | 93.6 | 93.4 | 6.4 | 6.4 | 6.6 | | 2.4 | |
| C1 | Sunnv | Calm | 12:22 | 9.4 | Middle | 4.7 | 26.0 | 26.2 | 7.9 | 7.9 | 22.9 | 22.9 | 90.5 | 90.4 | 6.3 | 0.1 | 7.1 | 7.2 | 3.0 | 2.9 |
| 01 | Carny | Call | | 011 | | 4.7 | 26.3 | 20.2 | 7.9 | | 22.8 | | 90.2 | | 6.3 | | 7.0 | | 2.8 | |
| | | | | | Bottom | 8.4 | 26.0 | 26.3 | 7.9 | 7.9 | 23.1 | 23.1 | 91.6 | 91.7 | 6.5 | 6.5 | 8.0 | | 3.2 | - |
| | 1 | | | | | 8.4 | 26.5 | | 7.9 | | 23.0 | | 91.8 | 1 | 6.5 | | 8.1 | | 3.5 | <u> </u> |
| | | | | | Surface | 1.0 | 27.0 26.8 | 26.9 | 8.2 8.2 | 8.2 | 12.8 12.9 | 12.9 | 105.0 104.5 | 104.8 | 7.8 7.8 | - | 4.1 4.2 | | 3.8 3.9 | |
| | | | | | | 5.5 | 26.8 | | 8.2 7.9 | | 20.1 | | 83.6 | | 6.0 | 6.8 | 4.2 5.0 | | 3.9 | - |
| C2 Sunny | Calm | 12:03 | 11.0 | Middle | 5.5 | 26.9 | 26.6 | 7.9 | 7.9 | 19.8 | 20.0 | 79.3 | 81.5 | 5.7 | - | 5.0 | 5.3 | 3.6 | 3.6 | |
| | | | | | | 10.0 | 26.1 | | 8.0 | | 22.5 | | 88.4 | | 6.3 | | 6.8 | | 3.2 | 1 |
| | | | | | Bottom | 10.0 | 27.1 | 26.6 | 7.9 | 8.0 | 22.2 | 22.4 | 86.9 | 87.7 | 6.1 | 6.2 | 6.9 | | 3.3 | |
| | | | | | Ourfeas | 1.0 | 27.5 | 07.5 | 8.2 | 0.0 | 14.9 | 44.0 | 116.7 | 447.0 | 8.5 | | 4.2 | | 3.9 | |
| | | | | | Surface | 1.0 | 27.5 | 27.5 | 8.2 | 8.2 | 14.7 | 14.8 | 117.3 | 117.0 | 8.5 | 8.5 | 4.1 | | 3.6 | |
| M1 | Sunny | Calm | 12:13 | 4.0 | Middlo | - | - | | - | | - | | - | | - | 6.5 | - | 4.6 | - | 3.5 |
| IVII | Sunny | Calli | 12.15 | 4.0 | Middle | - | - | - | - | - 8.2 8.2 | - | | • | - | • | | - | 4.6 | - | 5.5 |
| | | | | | Bottom | 3.0 | 27.7 | 27.6 | | | 14.9 | | 115.2 | 116.6 | 8.3 | 8.5 | 5.1 | | 3.1 | |
| | | | | | Bettern | 3.0 | 27.5 | 21.0 | 8.2 | 0.2 | 14.9 | 11.0 | 118.0 | 110.0 | 8.6 | 0.0 | 5.1 | | 3.3 | |
| | | | | | Surface | 1.0 | 27.3 | 27.3 | 8.1 | 8.1 | 14.3 | 14.4 | 107.6 | 108.0 | 7.9 | | 6.6 | | 2.9 | - |
| | | | | | | 1.0 | 27.3 | | 8.1 | | 14.4 | | 108.3 | | 7.9 | 7.9 | 6.5 | | 2.5 | - |
| M2 | Sunny | Calm | 12:10 | 4.8 | Middle | - | - | | - | - | - | - | - | - | - | 7.9 - | | 6.7 | - | 3.1 |
| | | | | | | 3.8 | 27.5 | | - 8.1 | | - 15.9 | | 108.9 | | 7.9 | | | | 3.6 | - |
| | | | | | Bottom | 3.8 | 27.3 | 27.4 | 8.1 | 8.1 | 16.3 | 16.1 | 110.4 | 109.7 | 8.0 | 8.0 | 6.7 6.8 | | 3.5 | |
| | | | | | | 1.0 | 27.6 | | 8.2 | | 14.3 | | 98.2 | | 7.2 | | 5.4 | | 4 | <u> </u> |
| | | | | | Surface | 1.0 | 27.6 | 27.6 | 8.1 | 8.2 | 14.3 | 14.3 | 97.9 | 98.1 | 7.1 | 1 <u>.</u> - | 5.3 | | 4 | 1 |
| 142 | 0 | O a las | 40.47 | 7.0 | Middle | 3.5 | 26.1 | 00.4 | 7.9 | 7.0 | 17.7 | 477 | 85.7 | 05.7 | 6.3 | 6.7 | 6.0 | ~ ~ | 3 | |
| M3 | Sunny | Calm | 12:17 | 7.0 | | 3.5 | 26.1 | 26.1 | 7.9 | 7.9 | 17.6 | 17.7 | 85.6 | 85.7 | 6.2 | | 6.0 | 6.2 | 4 | 4 |
| | | | | | | 6.0 | 5.0 25.8 _{25.0} 7.1 | 7.9 | 20.2 | 20.2 | 80.3 | 80.4 | 5.8 | | 7.1 | | 3 | 1 | | |
| | | | | | BOILION | 6.0 | 26.0 | 23.9 | 7.9 | 1.9 | 20.2 | 20.2 | 80.5 | 00.4 | 5.7 | 5.0 | 7.2 | | 3 | 1 |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | ality Moni | toring Resu | lts on | | 28 June 22 | during Mid | -Flood 1 | īde | | | | | | | | | | | | |
|------------|------------|---------------|----------|--------|-------------|------------|--------------|-----------------|------------|---------|------------|------------|----------------|-----------|--------------------|-----|------------|------|-----------------|-----|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | pł | 4 | Salir | nity (ppt) | DO Satu | ation (%) | Dissolved (mg/l | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | | Value | Average | Value A | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 27.8 | 28.0 | 8.0 | 8.0 | 7.8 | 7.9 | 106.0 | 104.6 | 8.0 | | 7.1 | | 6.1 | 1 |
| | | | | | Sunace | 1.0 | 28.1 | 20.0 | 8.0 | 0.0 | 7.9 | 7.9 | 103.1 | 104.0 | 7.7 | 7.7 | 7.0 | | 5.8 | ł |
| C1 | Sunny | Calm | 18:45 | 10.2 | Middle | 5.1 | 27.7 | 27.9 | 8.1 | 8.1 | 8.5 | 8.5 | 99.8 | 99.9 | 7.5 | 1.1 | 8.6 | 6.5 | 5.5 | 5.2 |
| 0. | Carriy | Cant | 10110 | | Middlo | 5.1 | 28.0 | 21.0 | 8.0 | 0.1 | 8.5 | 0.0 | 99.9 | 00.0 | 7.5 | | 8.6 | 0.0 | 5.2 | 0 |
| | | | | | Bottom | 9.2 | 27.7 | 27.9 | 8.0 | 8.0 | 14.5 | 15.2 | 99.4 | 99.8 | 7.2 | 7.1 | 4.0 | | 4.0 | ł |
| | | | | | | 9.2 | 28.0 | | 7.9 | | 15.9 | - | 100.1 | | 7.0 | | 3.7 | | 4.4 | |
| | | | | | Surface | 1.0 | 28.1 28.2 | 28.2 | 8.1 8.0 | 8.1 | 8.2 8.1 | 8.2 | 106.8 106.8 | 106.8 | 7.8 7.9 | | 6.2 6.2 | | 5.5 5.3 | ł |
| | | | | | | 5.0 | 28.2 | | 8.0 | | 9.9 | | 106.8 | | 7.9 | 7.8 | 6.2 7.2 | | 5.3 | ł |
| C2 Sunny | Calm | 19:02 | 10.0 | Middle | 5.0 | 28.1 | 28.1 | 8.0 | 8.1 | 10.0 | 10.0 | 105.2 | 105.2 | 7.6 | - | 7.2 | 7.2 | 5.0 | 5.0 | |
| | | | | | D | 9.0 | 27.1 | 27.6 | 8.0 | | 11.5 | | 102.9 | 100.0 | 7.5 | | 8.3 | | 4.4 | ł |
| | | | | | Bottom | 9.0 | 28.1 | 27.6 | 8.0 | 8.0 | 11.5 | 11.5 | 102.6 | 102.8 | 7.4 | 7.5 | 8.3 | | 4.7 | ł |
| | | | | | Surface | 1.0 | 28.1 | 28.1 | 8.3 | 8.3 | 10.6 | 10.8 | 130.7 | 130.0 | 9.5 | | 7.6 | | 5.4 | |
| | | | | | Sunace | 1.0 | 28.1 | 20.1 | 8.3 | 0.5 | 11.0 | 10.0 | 129.2 | 130.0 | 9.3 | 9.4 | 7.5 | | 5.7 | i |
| M1 | Sunny | Calm | 18:55 | 5.2 | Middle | - | - | - | - | - | - | - | - | - | - | 5.4 | - | 8.3 | - | 5.8 |
| | <i>c</i> , | | | | Middle | - | - | | - | | - | | - | | - | | - | | - | 1 |
| | | | | | Bottom | 4.2 | 28.2 | 28.2 | 8.3 | 8.3 | 12.5 | 13.0 | 128.7 | 127.9 | 9.2 | 9.1 | 8.9 | | 6.0 6.2 | ł |
| | | | | | | 4.2 | 28.1 28.1 | | 8.3 | | 13.5 | | 127.1 127.7 | | 9.0 9.3 | | 9.0 6.2 | | 6.2 5.3 | |
| | | | | | Surface | 1.0 | 28.0 | 28.1 | 8.3 8.2 | 8.3 | 10.4 | 10.6 | 127.7 | 127.6 | 9.3 | | 6.2 | | 5.3 | ł |
| | | | | | | - | - | | 0.2 | | - | | 127.4 | | 5.2 | 9.3 | - 0.2 | | - | ł |
| M2 | Sunny | Calm | 18:52 | 4.0 | Middle | - | - | - | - | - | - | - | - | | - | | - | 6.8 | - | 5.4 |
| | | | | | | 3.0 | 28.0 | | 8.3 | | 12.2 | | 128.8 | | 9.3 | | 7.4 | | 5.8 | ł |
| | | | | | Bottom | 3.0 | 28.1 | 28.1 | 8.2 | 8.3 | 12.2 | 12.2 | 128.6 | 128.7 | 9.2 | 9.3 | 7.3 | | 5.4 | ł |
| | | | | | Surface | 1.0 | 28.2 | 26.2 | 8.2 | 8.2 | 10.2 | 10.2 | 120.0 | 120.1 | 8.7 | | 6.2 | | 5 | · |
| | | | | | Surface | 1.0 | 28.2 | | 8.2 | 0.2 | 10.1 | 10.2 | 120.1 | 120.1 | 8.7 | 8.7 | 6.1 | | 5 | l |
| M3 | Sunny | Calm | 18:49 | 8.6 | Middle | 4.3 | 28.2 | 3.2 <u>28 2</u> | 8.3 | 8.3 | 10.8 | 10.9 | 118.4 | 118.5 | 8.6 | 0.7 | 7.8 | 7.4 | 5 | 5 |
| | Canny | Gain | 10.10 | 8.6 | | 4.3 | | 28.2 | | 8.2 8.3 | 10.9 | 0.9 | 118.6 | 110.0 | 8.6 | | 7.8 | | 6 | Ĭ |
| | | | | | Bottom | 7.6 | 28.2 | 28.2 | 8.2 | 8.2 | 11.8 | 11.9 | 117.0 | 117.0 | 8.5 | 8.5 | 8.4 | | 6 | I |
| | | | | | | 7.6 | 28.2 | | 8.1 | | 11.9 | | 117.0 | | 8.4 | | 8.3 | | 6 | |

DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | lity Moni | toring Resu | lts on | | 30 June 22 | during Mid | -Ebb Tio | le | | | | | | | | | | | | |
|------------|-----------|---------------|----------|-------------|------------------|--------------|----------|------------------------------|-------|--------------|--------|----------------|----------|------------|-------------------|------------|------------|------------|-----------------|----------|
| Monitoring | Weather | Sea Condition | Sampling | Water Depth | Sampling De | epth (m) | Water Te | emperature (°C) | p | н | Salir | nity (ppt) | DO Satur | ation (%) | Dissolved (mg/ | | Turbidity(| NTU) | Suspende (mg | |
| Station | Condition | | Time | (m) | | r () | Value | Average | Value | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 27.0 | 27.1 | 8.3 | 8.3 | 17.4 | 17.4 | 116.4 | 116.4 | 8.3 | | 4.8 | | 4.7 | |
| | | | | | Sunace | 1.0 | 27.1 | 27.1 | 8.3 | 0.3 | 17.4 | 17.4 | 116.3 | 110.4 | 8.2 | 7.7 | 4.8 | | 4.5 | |
| C1 | Rainy | Moderate | 13:23 | 9.0 | Middle | 4.5 | 26.9 | 27.0 | 8.2 | 8.2 | 18.5 | 18.5 | 99.7 | 99.6 | 7.2 | <i>'.'</i> | 5.0 | 5.3 | 4.0 | 4.0 |
| 01 | rearry | Moderate | 10.20 | 5.0 | Middle | 4.5 | 27.1 | 27.0 | 8.1 | 0.2 | 18.4 | 10.0 | 99.5 | 55.0 | 7.0 | | 5.0 | 0.0 | 3.8 | 4.0 |
| | | | | | Bottom | 8.0 | 27.0 | 27.1 | 8.1 | 8.1 | 20.4 | 20.4 | 101.3 | 103.9 | 7.2 | 7.4 | 6.0 | | 3.3 | 1 |
| | - | | | | | 8.0 | 27.1 | | 8.1 | - | 20.3 | - | 106.5 | | 7.5 | | 6.0 | | 3.4 | <u> </u> |
| | | | | | Surface | 1.0 | 27.1 | 27.2 | 8.3 | 8.3 | 17.4 | 17.6 | 109.8 | 109.9 | 7.9 | - | 3.1 | | 3.7 | 4 |
| | | | | | | 1.0 | 27.3 | | 8.2 | | 17.8 | | 110.0 | | 7.8 | 7.7 | 3.1 | | 4.0 | 4 |
| C2 Rainy | Moderate | 13:02 | 9.8 | Middle | 4.9 4.9 | 27.0 27.2 | 27.1 | 8.1 8.2 | 8.2 | 19.0 18.0 | 18.5 | 105.8 105.6 | 105.7 | 7.6 7.5 | - | 4.3 4.2 | 4.3 | 3.5 3.2 | 3.4 | |
| | | | | | 8.8 | 27.2 | | 8.1 | | 19.4 | | 105.8 | | 7.6 | + | 5.5 | | 3.0 | 1 | |
| | | | | | Bottom | 8.8 | 27.2 | 27.1 | 8.2 | 8.2 | 18.3 | 18.9 | 103.0 | 105.4 | 7.4 7. | 7.5 | 5.4 | | 2.7 | 1 |
| | 1 | | | | | 1.0 | 27.3 | | 8.2 | | 20.4 | | 109.7 | | 7.8 | 1 | 4.1 | | 2.6 | <u> </u> |
| | | | | | Surface | 1.0 | 27.1 | 27.2 | 8.2 | 8.2 | 20.3 | 20.4 | 110.2 | 110.0 | 7.7 | | 4.2 | | 2.3 | 1 |
| M1 | Deinu | Moderate | 13:10 | | NA: -I-II- | - | - | | - | | - | | - | | - | 7.8 | - | 4 7 | - | |
| IVI I | Rainy | | 13:10 | 5.0 | Middle Bottom | - | - | - | - | | - | | - | - 1 | - | | - | 4.7 | - | 3.1 |
| | | | | | | 4.0 | 27.5 | 27.3 | 8.2 | | 20.6 | | 113.3 | 112.2 | 8.0 | 8.0 | 5.2 | | 3.8 | |
| | | | | | Dottom | 4.0 | 27.1 | | | | 20.4 | 20.5 | 111.1 | 112.2 | 7.9 8.0 | 0.0 | 5.2 | | 3.5 | <u> </u> |
| | | | | | Surface | 1.0 | 27.1 | 27.2 | 8.2 | 8.2 | 19.1 | 19.4 | 110.0 | 112.0 | 7.9 | _ | 5.7 | | 2.7 | 1 |
| | | | | | | 1.0 | 27.2 | | 8.2 | • | 19.7 | | 114.0 | | 8.1 | 8.0 | 5.8 | | 3.1 | 4 |
| M2 | Rainy | Moderate | 13:13 | 4.2 | Middle | - | - | - | | - | - | - | | - | - | - 8.0 | 5.9 | - | 3.5 | |
| | | | | | | - 3.2 | - 27.2 | | - 8.1 | | - 21.4 | | - 110.0 | 1 | - 7.8 | | - 6.1 | | - 4.2 | 1 |
| | | | | | Bottom | 3.2 | 27.2 | 27.2 | 8.2 | 8.2 | 19.8 | 20.6 | 113.4 | 111.7 | 8.0 | 7.9 | 6.1 | | 4.2 3.8 | 1 |
| | | | | | | 1.0 | 27.2 | | 8.2 | | 20.2 | | 111.0 | | 7.9 | | 2.6 | | 3.0 | ┝──── |
| | | | | | Surface | 1.0 | 27.1 | 27.1 | 8.2 | 8.2 | 19.9 | 20.1 | 110.8 | 110.9 | 7.9 | 1 | 2.8 | | 3 | ĺ |
| | . | | 40.00 | | | 3.1 | | 27.1 27.1 27.1 27.1 | 8.2 | | 20.6 | 00.0 | 107.4 | 407.1 | 7.6 | 7.8 | 3.1 | | 4 | 1. |
| M3 | Rainy | Moderate | 13:06 | 6.2 | | 3.1 | | | 8.2 | 8.2 | 20.0 | 20.3 | 107.4 | 107.4 | 7.6 | 1 | 3.1 | 3.5 | 4 | 4 |
| | | | | | | 5.2 | | 8.2 | 8.2 | 20.7 | 0.0 | 107.0 | 107.1 | 7.6 | 7.6 | 4.7 | | 4 5 | 1 | |
| | | | | | | 5.2 | 27.1 | 21.2 | 8.2 | 0.2 | 20.1 | 20.4 | 107.1 | 107.1 | 7.5 | 0.1 | 4.7 | | 5 | 1 |

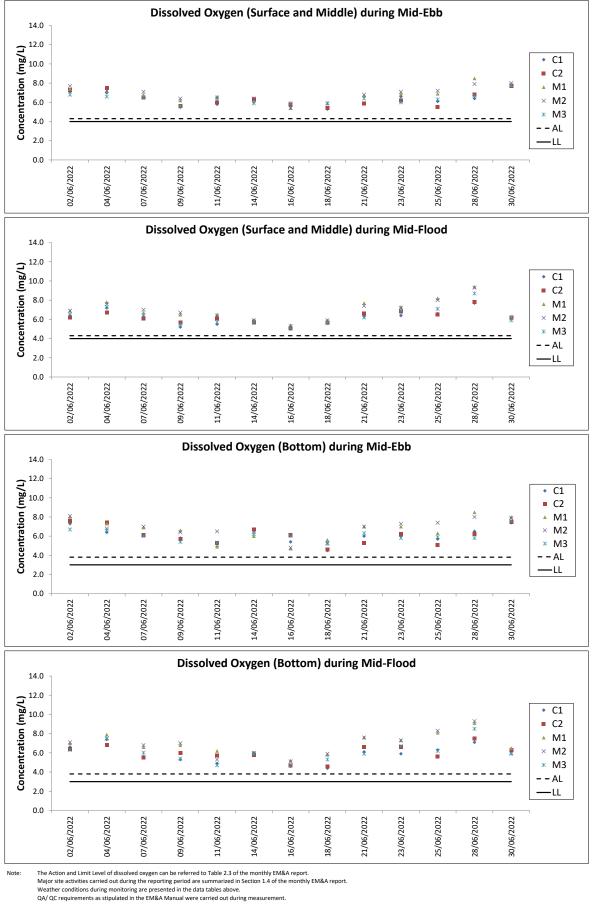
DA: Depth-averaged

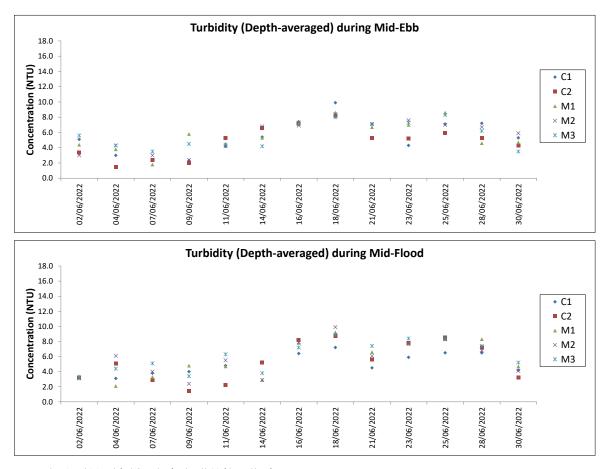
Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

| Water Qua | ality Moni | toring Resu | lts on | | 30 June 22 | during Mid | -Flood 1 | īde | | | | | | | | | | | | |
|------------|------------|---------------|----------|--------|-------------|------------|--------------|-----------------|------------|---------|--------------|-----------|--------------|-----------|--------------------|-----|------------|------|------------------|-----|
| Monitoring | Weather | Sea Condition | Sampling | | Sampling De | epth (m) | Water Te | emperature (°C) | pł | 4 | Salin | ity (ppt) | DO Satu | ation (%) | Dissolved (mg/l | | Turbidity(| NTU) | Suspende (mg/ | |
| Station | Condition | | Time | (m) | 1 0 | , | Value | Average | Value A | Average | Value | Average | Value | Average | Value | DA | Value | DA | Value | DA |
| | | | | | Surface | 1.0 | 25.5 | 25.5 | 8.0 | 8.0 | 18.7 | 18.7 | 85.2 | 84.4 | 6.2 | | 4.0 | | 5.6 | |
| | | | | | Sunace | 1.0 | 25.4 | 25.5 | 8.0 | 8.0 | 18.7 | 10.7 | 83.5 | 04.4 | 6.1 | 6.2 | 4.0 | | 5.3 | 1 |
| C1 | Misty | Moderate | 19:29 | 8.2 | Middle | 4.1 | 25.4 | 25.5 | 8.0 | 8.0 | 17.6 | 17.6 | 85.5 | 83.9 | 6.3 | 0.2 | 4.6 | 4.2 | 4.5 | 4.8 |
| 01 | moty | modelate | .0.20 | 0.2 | | 4.1 | 25.5 | 20.0 | 8.0 | 0.0 | 17.6 | | 82.2 | 00.0 | 6.1 | | 4.6 | | 4.8 | |
| | | | | | Bottom | 7.2 | 25.5 | 25.5 | 8.0 | 8.0 | 20.6 | 20.6 | 87.7 | 86.8 | 6.4 | 6.3 | 4.0 | | 4.4 | 1 |
| | | | | | | 7.2 | 25.5 | | 8.0 | | 20.6 | | 85.8 | | 6.2 | | 4.1 | | 4.2 | |
| | | | | | Surface | 1.0 | 25.4 25.4 | 25.4 | 8.0 8.0 | 8.0 | 17.9 17.9 | 17.9 | 84.7 83.2 | 84.0 | 6.2 6.1 | - | 2.1 2.0 | | 3.5 3.3 | 1 |
| | C2 Misty | | | | | 4.6 | 25.4 | | 8.0 | | 17.9 | | 85.4 | | 6.3 | 6.2 | 3.3 | | 3.3 | 1 |
| C2 Misty | Moderate | 19:43 | 9.2 | Middle | 4.6 | 25.4 | 25.4 | 8.0 | 8.0 | 18.7 | 18.7 | 83.4 | 84.4 | 6.1 | | 3.3 | 3.2 | 4.3 | 4.1 | |
| | | | | D. 11 | 8.2 | 25.4 | | 8.0 | | 20.2 | | 87.6 | | 6.4 | | 4.3 | | 4.9 | 1 | |
| | | | | | Bottom | 8.2 | 25.4 | 25.4 | 8.0 | 8.0 | 20.1 | 20.2 | 84.4 | 86.0 | 6.2 | 6.3 | 4.4 | | 4.6 | 1 |
| | | | | | Surface | 1.0 | 25.4 | 25.4 | 8.0 | 8.0 | 18.8 | 18.9 | 85.9 | 85.9 | 6.3 | | 4.2 | | 4.8 | |
| | | | | | Suilace | 1.0 | 25.3 | 23.4 | 8.0 | 0.0 | 18.9 | 10.9 | 85.9 | 05.9 | 6.3 | 6.3 | 4.1 | | 4.4 | 1 |
| M1 | Misty | Moderate | 19:39 | 5.2 | Middle | - | - | - | - | - | - | - | - | - | - | 0.0 | - | 4.7 | - | 4.1 |
| | | | | | | - | - | | - | | - | | - | | - | | - | | - | 1 |
| | | | | | Bottom | 4.2 | 25.4 | 25.4 | 8.0 | 8.0 | 19.8 | 19.9 | 89.3 | 89.3 | 6.6 | 6.5 | 5.2 | | 3.7 | 1 |
| | | | | | | 4.2 | 25.4 25.3 | | 8.0 | | 20.0 | | 89.3 82.0 | | 6.4 6.1 | | 5.2 3.6 | | 3.5 3.8 | |
| | | | | | Surface | 1.0 | 25.3 | 25.3 | 8.0 8.0 | 8.0 | 18.8 18.4 | 18.6 | 82.0 | 81.4 | 6.0 | - | 3.6 | | 3.8 4.2 | 1 |
| | | | | | | 1.0 | - | | | | | | | | 0.0 | 6.1 | | | - | 1 |
| M2 | Misty | Moderate | 19:36 | 4.6 | Middle | - | - | - | - | - | - | - | - | | - | | - | 4.1 | - | 4.3 |
| | | | | | - | 3.6 | 25.4 | | 8.0 | | 23.0 | | 83.3 | | 6.0 | | 4.6 | | 4.4 | 1 |
| | | | | | Bottom | 3.6 | 25.4 | | 8.0 | 8.0 | 24.0 | 23.5 | 81.7 | 82.5 | 5.9 | 6.0 | 4.7 | | 4.7 | 1 |
| | | | | | Curtoso | 1.0 | 25.2 | 25.2 | 8.0 | 8.0 | 19.0 | 19.0 | 80.8 | 79.7 | 6.0 | | 4.1 | | 5 | |
| | | | | | Surface | 1.0 | 25.2 | 20.2 | 8.0 | 8.0 | 19.0 | 19.0 | 78.6 | /9./ | 5.8 | 5.9 | 4.1 | | 5 | 1 |
| M3 | Misty | Moderate | 19:33 | 7.6 | Middle | 3.8 | 25.1 | 5.1 25.2 | 8.0 | 8.0 | 22.0 | 21.7 | 81.0 | 79.4 | 5.9 | 0.0 | 5.3 | 5.2 | 4 | 4 |
| | itiloty | moderate | 10.00 | 7.6 | | 3.8 | 25.2 | 25.2 25.2 | 8.0 | 8.0 | 21.4 | 1.4 | 77.7 | / 0.1 | 5.7 | | 5.3 | 0.2 | 5 | |
| | | | | | Bottom | 6.6 | 25.0 | 25.1 | 8.0 | 8.0 | 25.3 | 25.0 | 83.7 | 82.1 | 6.0 | 5.9 | 6.1 | | | 1 |
| | | | | | | 6.6 | 25.2 | | 7.9 | | 24.7 | | 80.5 | | 5.8 | | 6.1 | | 4 | |

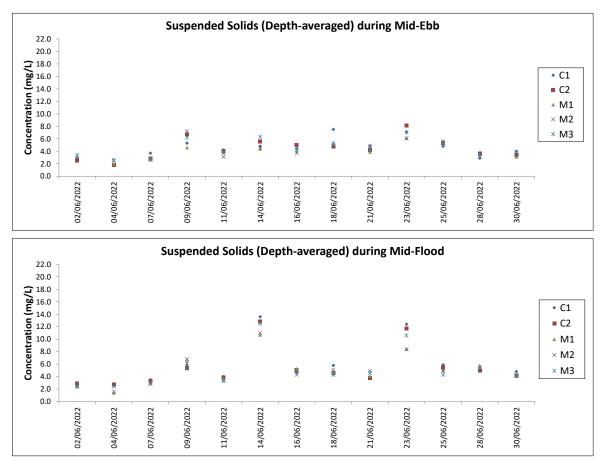
DA: Depth-averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher





The Action and Limit Level of turbidity can be referred to Table 2.3 of the monthly EM&A report. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report. Weather conditions during monitoring are presented in the data tables above. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement. Note:



The Action and Limit Level of suspended solids can be referred to Table 2.3 of the monthly EM&A report. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report. Weather conditions during monitoring are presented in the data tables above. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement. Note

Appendix H. Waste Flow Table

AAHK Contract No. 19W10 Intermodal Transfer Terminal - Bonded Vehicular Bridge and Associated Roads <u>Monthly Waste Flow Table</u>

| | | Actual Quantitie | s of Inert C&D M | aterials (excluding broken concrete | g excavated wast | e) (tonnes) <i>e.g.</i> | | Actual Quantities | of Non-inert C&D |) Waste (tonnes) |) | | |
|--------|-----------------------------|---|------------------------------|--|--|-----------------------------------|--------------------------------|------------------------------------|-----------------------|---|---|--|--|
| Month | Excavated Waste (tonnes) | (a) Total inert C&D material generated (a) = (b) + (c) + (d) + (e) | (b) Reused in contract | (c) Reused in other projects | (d) Sent to recycling company | (e) Disposed to public fill | (f) Recycled scrap metal | (g) Reused / recycled timber | (h) Chemical waste | (i) Other waste disposed to landfill | (j) Total non-inert C&D material generated (j) = (f) + (g) + (h) + (i) | (k) Total recyclable waste (k) = (b) + (c) + (d) + (f) + (g) | (I) Total construction waste generated (I) = (a) + (j) |
| Jul-20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Aug-20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sep-20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.04 | 4.04 | 0.00 | 4.04 |
| Oct-20 | 740.49 | 740.49 | 0.00 | 0.00 | 0.00 | 740.49 | 0.00 | 0.00 | 0.00 | 3.55 | 3.55 | 0.00 | 744.04 |
| Nov-20 | 574.90 | 574.90 | 0.00 | 0.00 | 0.00 | 574.90 | 0.00 | 0.00 | 0.00 | 6.76 | 6.76 | 0.00 | 581.66 |
| Dec-20 | 536.08 | 536.08 | 0.00 | 0.00 | 0.00 | 536.08 | 0.00 | 0.00 | 0.00 | 2.33 | 2.33 | 0.00 | 538.41 |
| Jan-21 | 1778.61 | 1778.61 | 0.00 | 0.00 | 0.00 | 1778.61 | 0.00 | 0.00 | 0.00 | 5.33 | 5.53 | 0.00 | 1784.14 |
| Feb-21 | 4031.66 | 4031.66 | 0.00 | 2832.32 | 0.00 | 1199.34 | 0.00 | 0.00 | 0.00 | 4.40 | 4.40 | 2832.32 | 4036.06 |
| Mar-21 | 1921.26 | 1921.26 | 0.00 | 419.77 | 0.00 | 1501.49 | 0.00 | 0.00 | 0.00 | 12.28 | 12.28 | 419.77 | 1933.54 |
| Apr-21 | 3929.82 | 3929.82 | 0.00 | 1702.03 | 0.00 | 2227.79 | 0.00 | 0.00 | 0.00 | 26.48 | 26.48 | 1702.03 | 3956.30 |
| May-21 | 2062.98 | 2062.98 | 0.00 | 1694.52 | 0.00 | 368.46 | 0.00 | 0.00 | 0.00 | 12.63 | 12.63 | 1694.52 | 2075.61 |
| Jun-21 | 5098.30 | 5098.30 | 0.00 | 4446.42 | 0.00 | 651.88 | 0.00 | 0.00 | 0.54 | 23.41 | 23.95 | 4446.42 | 5122.25 |
| Jul-21 | 6868.66 | 6868.66 | 0.00 | 6440.45 | 0.00 | 428.21 | 0.00 | 0.00 | 0.00 | 12.92 | 12.92 | 6440.45 | 6881.58 |
| Aug-21 | 6884.63 | 6884.63 | 0.00 | 5662.00 | 0.00 | 1222.63 | 8.56 | 0.00 | 1.08 | 38.91 | 48.55 | 5670.56 | 6933.18 |
| Sep-21 | 3949.49 | 3949.49 | 0.00 | 2798.89 | 0.00 | 1150.60 | 0.00 | 0.00 | 0.00 | 15.66 | 15.66 | 2798.89 | 3965.15 |
| Oct-21 | 389.98 | 389.98 | 0.00 | 235.10 | 0.00 | 154.88 | 6.20 | 0.00 | 0.00 | 15.48 | 21.68 | 241.30 | 411.66 |
| Nov-21 | 1926.96 | 1926.96 | 285.00 | 650.00 | 0.00 | 991.96 | 13.78 | 0.00 | 0.00 | 16.18 | 29.96 | 948.78 | 1956.92 |
| Dec-21 | 672.20 | 672.20 | 240.00 | 0.00 | 0.00 | 432.20 | 0.00 | 0.00 | 0.00 | 17.40 | 17.40 | 240.00 | 689.60 |
| Jan-22 | 584.00 | 584.00 | 584.00 | 0.00 | 0.00 | 0.00 | 6.03 | 0.00 | 0.00 | 22.17 | 28.20 | 590.03 | 612.20 |
| Feb-22 | 1056.52 | 1056.52 | 378.00 | 240.26 | 0.00 | 438.26 | 0.00 | 0.00 | 0.00 | 33.95 | 33.95 | 618.26 | 1090.47 |
| Mar-22 | 1426.34 | 1426.34 | 0.00 | 1199.88 | 0.00 | 226.46 | 0.00 | 0.00 | 0.00 | 38.49 | 38.49 | 1199.88 | 1464.83 |
| Apr-22 | 68.10 | 68.10 | 0.00 | 0.00 | 0.00 | 68.10 | 0.00 | 0.00 | 0.00 | 50.11 | 50.11 | 0.00 | 118.21 |
| May-22 | 366.14 | 366.14 | 0.00 | 0.00 | 0.00 | 366.14 | 0.00 | 0.00 | 0.00 | 55.50 | 55.50 | 0.00 | 421.64 |
| Jun-22 | 5834.50 | 5834.50 | 0.00 | 3943.50 | 0.00 | 1891.00 | 0.00 | 0.00 | 0.72 | 71.57 | 72.29 | 3943.50 | 5906.79 |
| Total | 50701.62 | 50701.62 | 1487.00 | 32265.14 | 0.00 | 16949.48 | 34.57 | 0.00 | 2.34 | 489.55 | 526.66 | 33786.71 | 51228.28 |

Appendix I. Status of Environmental Permits and Licences

| Type of Licence / Permit | Reference No. | Valid From | Valid Until | Remark |
|---|-----------------------|--------------------|--------------------|---|
| Environmental Permit | EP-560/2018 | 24 August 2017 | End of Project | N/A |
| Billing Account for Disposal of Construction Waste | 7037763 | 6 July 2020 | End of Project | N/A |
| Billing Account for Vessel Disposal of Inert Construction Waste | 7038221 | 19 April 2022 | 18 July 2022 | Application No: CEDD01148 |
| Construction Dust Notification under APCO | 458075 | 13 July 2020 | N/A | N/A |
| Construction Noise Permit | GW-RS0235-22 | 9 Apr 2022 | 6 Oct 2022 | N/A |
| Construction Noise Permit | GW-RS0504-22 | 24 Jun 2022 | 09 Aug 2022 | Special case |
| Chemical Waste Producer | 5213-951- G2857-02 | 24 August 2020 | End of Project | N/A |
| Water Discharge License – Landside | WT00037071- 2020 | 12 January 2021 | 31 January 2026 | N/A |
| Water Discharge License – Marine | WT00037556- 2021 | 9 Jun 2021 | 31 May 2026 | Variation of discharge license WT00037556-2021 granted on 14 May 2021 |

Table I.1: Summary of Environmental Licenses and Permits

Appendix J. Environmental Mitigation Measures Implementation Status

Recommended Mitigation Measures for Air Quality Impact

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
|----------|-----------|---|------------------------------------|
| | | Relevant control measures as required in the Air Pollution Control (Construction Dust) Regulation shall be implemented to minimise dust impact. | Rem |
| | | Skip hoist for material transport should be totally enclosed by impervious sheeting. | Yes |
| | | • All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation to maintain the dusty materials wet. | Yes |
| | | • All stockpiles of aggregate or spoil should be covered and/or water applied. | Yes |
| S3.7.1 | S2.2.1 | The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading. | N/A |
| | | • Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. | Yes |
| | | The load of dusty materials carried by a vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle. | Yes |
| | | • All NRMMs operated on-site are approved or exempted (as the case may be) and affixed with the requisite approval/exemption labels under the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation, or are in the process of application for such approval/exemption during the relevant grace period. | Rem |

Recommended Mitigation Measures for Noise Impact

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
|----------|-----------|--|------------------------------------|
| | | Only well-maintained plant should be operated on-site and plant should be serviced regularly. | Yes |
| | | Silencers or mufflers on construction plant should be utilised. | Yes |
| | | Mobile plant should be sited as far away from sensitive uses as possible. | Yes |
| | | • Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. | Yes |
| S4.5.2 | \$3.2.1 | • Plant known to emit noise strongly in one direction should, where possible, be orientated so that noise is directed away from the nearby sensitive uses. | Yes |
| | | • Material stockpiles and other structures such as site hoarding should be effectively utilised to screen noise from on-site construction activities. | N/A |
| | | Noisy construction activities such as road breaking, should be scheduled to less sensitive hours during the day, e.g. midday. | Yes |

Recommended Mitigation Measures for Water Quality Impact

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
|----------|-----------|---|------------------------------------|
| S5.9.1 | S4.3.1 | Steel pile casing and watertight cofferdam should be installed at the pier site and seawater trapped inside the casing and cofferdam should be pumped out to generate a dry working environment prior to carrying out sediment excavation. | Yes |
| S5.9.2 | S4.3.1 | During dewatering of the cofferdam, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meeting the WPCO / TM-DSS requirements before discharge. | Yes |
| S5.9.3 | S4.3.1 | • To minimise any adverse water quality impact during the excavation of sediment, a funnel should be placed at the top of pile casing during excavation and silt curtains should be deployed to completely enclose the cofferdam and steel pile casing. Silt curtains should be deployed prior to installation of temporary platform on barge, cofferdam and steel pile casing. Silt curtains should only be removed after completion of pile caps and piers. The Contractor should be responsible for the design, installation and maintenance of the silt curtain to minimise the impacts on water quality. The design and specification of the silt curtains should be submitted by the Contractor to the Project Manager or Project Manager's Representative of AAHK for approval. The marine bridge piers should not be constructed at the same time to avoid adverse hydrodynamic impact due to flow blockage increase during the interim construction stages. All vessels should be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. | Yes |
| S5.9.5 | S4.3.1 | • Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. | Obs/ Rem |
| S5.9.6 | S4.3.1 | • Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Before disposal at the public fill reception facilities, the deposited silt and grit should be solicited in such a way that it can be contained and delivered by dump truck instead of tanker truck. Any practical options for the diversion and re-alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains. | Yes |
| S5.9.7 | S4.3.1 | Construction works should be programmed to minimise soil excavation works in rainy seasons (April to September). If excavation in soil cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm. | Yes |
| S5.9.8 | S4.3.1 | • Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary. | Yes |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
|----------|-----------|--|------------------------------------|
| S5.9.9 | S4.3.1 | Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. | Yes |
| S5.9.10 | S4.3.1 | Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. | Obs |
| S5.9.11 | S4.3.1 | • If bentonite slurries are required for any construction works, they should be reconditioned and reused wherever practicable to minimise the disposal volume of used bentonite slurries. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after the related construction activities are completed. Requirements as stipulated in ProPECC Note PN 1/94 should be closely followed when handling and disposing bentonite slurries. | N/A |
| | | Loading of the excavated marine-based sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. | Yes |
| S5.9.12 | S4.3.1 | • The barge transporting the excavated marine-based sediment to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. | Yes |
| | | Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the Director of Environmental Protection (DEP). | Yes |
| S5.9.13 | S4.3.1 | Water used in ground boring and drilling for site investigation or rock/soil anchoring should as far as practicable be re- circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities. | N/A |
| S5.9.14 | S4.3.1 | • All vehicles and plant should be cleaned before they leave a construction site to minimise the deposition of earth, mud, debris on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. | Yes |
| S5.9.15 | S4.3.1 | • There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO license. | Yes |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ | |
|----------------------|-----------|---|---|-----|
| S5.9.16 | S4.3.1 | • No discharge of sewage to the storm water system and marine water will be allowed. Sufficient chemical toilets should be provided in the works areas to handle the sewage generated from the construction workforce. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis. | Yes | |
| S5.9.17 | S4.3.1 | Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment. Regular environmental audit of the construction site will provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water pollution problem after undertaking all required measures. | Yes | |
| S5.9.18 | S4.3.1 | The Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied with for control of chemical wastes. | Yes | |
| S5.9.19 | S4.3.1 | Any service shop and maintenance facilities should be located on hard standings within a bonded area, and sumps should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. | N/A | |
| | S4.3.1 | | • Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. | Obs |
| S5.9.20 | | • Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. | Yes | |
| | | • Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. | Yes | |
| S5.9.22 | S4.3.1 | • For the operation of road works, a surface water drainage system should be provided to collect the road runoff. The road drainage should be provided with adequately designed silt trap as necessary. The design of the operational phase mitigation measures for the road works shall take into account the guidelines published in ProPECC PN 5/93 <i>"Drainage Plans subject to Comment by the EPD"</i> | Yes | |
| S5.9.23 to 5.9.29 | | <u>Design Measures:</u> Exposed surface shall be avoided within the roads to minimise soil erosion. The roads shall be hard paved. The drainage system should be designed to avoid flooding. | Yes | |
| | S4.3.1 | <u>Devices and Facilities:</u> Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening large substances such as rubbish should be provided at the inlet of drainage system. Road gullies with standard design and silt traps should be provided to remove particles present in stormwater runoff, where appropriate. | N/A | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ | | | | |
|----------|--------------|--|---------------------------------------|--|-----|---|-----|
| | | <u>Administrative Measures:</u> Good management measures such as regular cleaning and sweeping of road surface/ open areas are suggested. The road surface/ open area cleaning should also be carried out prior to occurrence rainstorm. Manholes, as well as stormwater gullies, ditches provided at the Project site should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall. | Obs | | | | |
| S5.9.30 | S4.3.1 | All the sewage flow generated from the proposed toilets should be properly collected and conveyed to the existing sewerage system on HKBCF Island. No direct discharge of sewage effluent into the marine water will be allowed. | Yes | | | | |
| Recomme | ended Mitiga | tion Measures for Waste Management | | | | | |
| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ | | | | |
| | | <u>Good Site Practices:</u> Nomination of approved personnel, such as a site manager, to be responsible for implementation of good site practices, arrangements for waste collection and effective disposal to an appropriate facility. | Yes | | | | |
| | S5.2.1 | Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures. | Yes | | | | |
| S6.5.3 | | Provision of sufficient waste reception/ disposal points, and regular collection of waste. | Yes | | | | |
| 00.0.0 | | • Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. | Yes | | | | |
| | | | | | | Provision of regular cleaning and maintenance programme for drainage systems and sumps. | Yes |
| | | | | • Adoption of a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites). | Yes | | |
| | | • Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP). | Yes | | | | |
| | | Waste Reduction Measures: Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. | Yes | | | | |
| | | Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors. | Yes | | | | |
| S6.5.4 | S5.2.1 | Recycle any unused chemicals or those with remaining functional capacity. | N/A | | | | |
| | | Maximise the use of reusable steel formwork to reduce the amount of C&D materials. | Yes | | | | |
| | | Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials. | Yes | | | | |
| | | Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated. | N/A | | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
|----------------------|-----------|---|------------------------------------|
| | | Minimise over ordering and wastage through careful planning during purchasing of construction materials. | N/A |
| | | <u>C&D materials:</u> Proper handling and storage of waste such as soil by means of covers and/or water spraying system to minimise the potential environmental impact and to prevent materials from wind-blown or being washed away. | Yes |
| | | Covering materials during heavy rainfall. | N/A |
| S6.5.6 | S5.2.1 | Locating stockpiles to minimise potential visual impacts. | N/A |
| 50.5.0 | 33.2.1 | Minimising land intake of stockpile areas as far as possible. | N/A |
| | | Adopting GPS or equivalent system for tracking and monitoring of all dump trucks engaged for the Project in recording their travel routings and parking locations to prohibit illegal dumping and landfilling of C&D materials. | N/A |
| | | Keeping record and analysis of data collected by GPS or equivalent system related to travel routings and parking locations of dump trucks engaged on site. | N/A |
| | | <u>General Refuse:</u> General refuse should be stored in covered bins or compaction units separately from C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site regularly, separately from C&D materials. An enclosed and covered area is preferred to reduce the occurrence of "wind blown" light materials. | Yes |
| S6.5.7 to 5.5.9 | S5.2.1 | • The recyclable component of general refuse, such as aluminium cans, paper and cleansed plastic containers shall be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste shall be set up by the Contractor. The Contractor shall also be responsible for arranging recycling companies to collect these materials. | Yes |
| | | • The Contractor should carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins should also be provided in the site as reminders. | N/A |
| | | <u>Chemical Waste:</u> • If chemical wastes were to be produced, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the <i>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</i> . | Yes |
| S6.5.10 to 6.5.12 | S5.2.1 | • Appropriate containers with proper labels should be used for storage of chemical wastes. Chemical wastes should be collected and delivered to designated outlet by a licensed collector. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the CWTC, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | Yes |
| | | • Any unused chemicals or those with remaining functional capacity should be collected for reuse as far as practicable. | N/A |
| S6.5.13 to 6.5.16 | S5.2.1 | Sediment: The sediment should be excavated, handled, treated, transported and/or disposed of in a manner that would minimise adverse environmental impacts. | Yes |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
|----------------------|-----------|---|------------------------------------|
| | | • Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, treatment, transportation and disposal of the sediment. | Yes |
| | | • The land-based sediment will be treated using S/S technique and will be reused on site (e.g. as backfilling materials). | Yes |
| | | • Any treatment area for the land-based sediment should be confined for carrying out the cement S/S process and any temporary stockpiling. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the exposure to contaminated materials, workers shall, if necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site. | Yes |
| S6.5.17 | S5.2.1 | For off-site disposal, the basic requirements and procedures specified under PNAP No. 252 (ADV-21) shall be followed. Marine Fill Committee (MFC) of CEDD is managing the disposal facilities in Hong Kong for the excavated sediment, while EPD is the authority of issuing marine dumping permit under the Dumping at Sea Ordinance (DASO). | N/A |
| S6.5.18 to 6.5.19 | S5.2.1 | For the purpose of site allocation and application of marine dumping permit and if considered necessary by Dumping at Sea Ordinance (DASO) Team/EPD, separate submissions (e.g. SSTP/SQR) shall be submitted to DASO team/EPD for agreement under DASO. Additional SI works, based on the SSTP, shall then be carried out in order to confirm the disposal arrangements of the excavated sediment. A Sediment Quality Report (SQR), reporting the chemical and biological screening results and the estimated quantities of sediment under different disposal options, shall then be submitted to DASO team/EPD for agreement under DASO. To ensure disposal space is allocated for the Project, the Project Proponent should be responsible for obtaining | N/A |
| | | agreement from MFC on the allocation of the disposal site. The contractor(s), on the other hand, should be responsible for the application of the marine dumping permit under DASO from EPD for the sediment disposal. | |
| | | The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by MFC. The excavated sediment would be disposed of according to its determined disposal options and PNAP No. 252 (ADV-21). | N/A |
| S6.5.20 to 6.5.23 | S5.2.1 | • Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiles area should be completely paved in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). | Yes |
| | | • In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. | Yes |
| | | • The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take | N/A |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
|----------|--------------|--|------------------------------------|
| | | place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. | |
| S6.5.24 | S5.2.1 | Potential Floating Refuse: Proper management and education should be given to construction site workers such that accidental release or intentional disposal would be avoided. The refuse should be stored in enclosed bin to avoid adverse impacts to the surroundings including marine environment. Regular checking should also be carried out to ensure that the refuse is stored properly. | N/A |
| Recomme | ended Mitiga | tion Measures for Marine Ecological Impact | |
| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
| S7.8.3 | S6.3.3 | Based upon a precautionary approach, a speed limit of 10 knots should be strictly enforced on all construction-related vessels. | Yes |
| S7.8.6 | S6.3.1 | Good site practices, guidelines and mitigation measures detailed in Water Quality Sections 5.9.1 to 5.9.20 should be adopted to further alleviate water quality impacts. | Yes |
| S7.8.9 | S6.3.2 | • Coral colonies at REA2 under the direct impacts of habitat loss should be translocated as a precautionary measure. A detailed Coral Translocation Proposal, including description of methodology and precautionary post-translocation monitoring programme, should be prepared and subject to agreement with the authority before commencement of the coral translocation. | N/A |
| Recomme | ended Mitiga | tion Measures for Landscape and Visual Impact | |
| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
| | | Preservation of New Tree Planting: | |
| S8.9.2 | S7.3.1 | All the planned new trees to be retained and not to be affected by the Project shall be carefully protected during construction in accordance with DevB TCW No. 7/2015 – Tree Preservation during Development issued by GLTM Section of DevB. | N/A |
| | | Any existing vegetation in landscaped area and natural terrain not to be affected by the Project shall be carefully preserved. | N/A |
| | | Transplanting of Affected Trees: | |
| S8.9.2 | S7.3.1 | Planned trees to be planted under HKBCF unavoidably affected by the works shall be transplanted within the Project boundary or off-site within the Airport Island (i.e. within area of approx. 6.2km) as far as possible in accordance with DevB TCW No. 7/2015 – Tree Preservation and the latest Guidelines on Tree Transplanting issued by GLTM Section of DevB. | N/A |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Mitigation Measures Implemented? ^ |
|----------|-----------|--|---------------------------------------|
| S8.9.2 | S7.3.1 | <u>Compensatory Tree Planting:</u> Any planned trees to be planted under HKBCF to be felled under the Project shall be compensated within the Project boundary or off-site within the Airport Island (i.e. within area of approx. 6.2km), in accordance with DevB TCW No. 7/2015 – Tree Preservation. The compensatory planting shall be of a ratio not less than 1:1 in terms of number, i.e. the number of compensatory trees shall not be lower than that of the number of trees to be felled. Justification shall be provided if tree compensation requirement could not be met. For trees to be compensated on slopes, the guidelines for tree planting stipulated in GEO Publication No. 1/2011 will be followed. | N/A |
| S8.9.2 | S7.3.1 | Control of night-time lighting glare: Any lighting provision of the construction works at night shall be carefully control to prevent light overspill to the nearby VSRs and into the sky. | N/A |
| S8.9.2 | S7.3.1 | <u>Erection of Decorative Screen Hoarding:</u> Decorative Hoarding, which is compatible with the surrounding settings, shall be erected during construction to minimise the potential landscape and visual impacts due to the construction works and activities. | N/A |
| \$8.9.2 | S7.3.1 | <u>Management of Construction Activities and Facilities:</u> The facilities and activities at works sites and areas, which include site office, temporary storage areas, temporary works etc., shall be carefully managed and controlled on the height, deposition and arrangement to minimise any potential adverse landscape and visual impacts. | N/A |
| S8.9.2 | S7.3.1 | <u>Reinstatement of Temporarily Disturbed Landscape Areas:</u> All hard and soft landscape areas disturbed temporarily during construction shall be reinstated on like-to-like basis, to the satisfaction of the relevant Government Departments. | N/A |
| S8.9.2 | S7.3.1 | Aesthetically Pleasing Design of Aboveground / Above-sea Structures: • The proposed structures in regard of layouts, forms, materials and finishes shall be sensitively designed so as to blend in the structures to the adjacent landscape and visual context. | N/A |
| S8.9.2 | S7.3.1 | Provision of Amenity Planting: Amenity planting, including groundcover and trees shall be provided to soften the proposed above-ground structures on HKBCF as far as appropriate. | N/A |

Notes:

Yes = Implemented where applicable

No = Not implemented

Obs/Rem = Observations or reminders were issued, and items were rectified

N/A = Not applicable to the construction works implemented during the reporting period

^ Checked by ET through site inspection and record provided by the Contractor.