

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Monthly EM&A Report No.22






吉寶西格斯 - 振華聯營公司
KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE

Monthly EM&A Report No.22 (Period from 1 April to 30 April 2020)

(Clause 3.3, Further Environmental Permit FEP-01/429/2012/A)

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EXECUTIVE SUMMARY

Introduction

- A1. The Project, Integrated Waste Management Facility (IWMF), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (FEP No. FEP-01/429/2012/A) for the construction and operation of the Project.
- A2. In accordance with the Updated Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 22nd Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Shek Kwu Chau (SKC) during the reporting period from 1 April 2020 to 30 April 2020.

Summary of Main Works Undertaken & Key Mitigation Measures Implemented

- A4. Key activities carried out in this reporting period for the Project included the following:
- Sand Blanket Laying
 - Cone Penetration Test
 - DCM Installation Works
 - Coring of DCM cluster
 - Installation of Caisson
 - Dredging and Sediment Disposal
 - Installation of Prefabricated Vertical Drain
- A5. The major environmental impacts brought by the above construction activities include:
- Water quality impact from DCM installation
 - Disturbance and possible trapping of Finless Porpoise by silt curtains
- A6. The key environmental mitigation measures implemented for the Project in this reporting period associated with the construction activities include:
- Reduction of noise from equipment and machinery on-site;
 - Installation of silt curtains for DCM installation;
 - Installation process of silt curtain according to approved Silt Curtain Deployment Plan;
 - Sorting, recycling, storage and disposal of general refuse and construction waste;
 - Management of chemicals and avoidance of oil spillage on-site;

- Implementation of cluster MMEZ (Marine Mammal Exclusion Zone) and inspection of enclosed environment within silt curtains as per DMPFP (Detailed Monitoring Programme of Finless Porpoise);
- Daily site audit and monitoring by ET during dredging work as stipulated in FEP Clause 2.21A;
- Regulation on rate and means for dredging works as stipulated in FEP Clause 2.17 – 2.21 or the approved Supporting Document for Reviewing Dredging Rate and Filling Rate, whichever is applicable;
- Storage, handling and disposal of dredged materials according to Dumping At Sea Ordinance (DASO);
- Confirmation of the absence of silt content in the rock filling material and the filling work is properly conducted.

Summary of Exceedance & Investigation & Follow-up

- A7. The EM&A works for water quality, construction waste, marine mammal and White-Bellied Sea Eagle (WBSE) were conducted during the reporting period in accordance with the Updated EM&A Manual.
- A8. No exceedance of the Action or Limit Levels in relation to the water quality, construction waste and WBSE monitoring was recorded in the reporting month.
- A9. No project-related Action Level & Limit Level exceedance was recorded from 1 April 2020 to 30 April 2020.
- A10. Weekly site inspections of the construction work by ET were carried out on 7, 14, 21, 28 April 2020 to audit the mitigation measures implementation status. Monthly joint site inspection was carried out on 21 April 2020 by ET and IEC. Observations were recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

Complaint Handling and Prosecution

- A11. No project-related environmental complaint was received during the reporting period.
- A12. Neither notifications of summons nor prosecution was received for the Project.

Reporting Change

- A13. There was no change to be reported that may affect the on-going EM&A programme.

Summary of Upcoming Key Issues and Key Mitigation Measures

- A14. Key activities anticipated in the next reporting period for the Project will include the following:
- DCM Installation Works;

- Coring of DCM samples;
- Cone Penetration Test;
- Dredging Works and Sediment Disposal;
- Rock Filling of Foundation;
- Leveling Works for the Foundation of Seawall and Berth Area;
- Caisson Laying;
- Rubble Mound Laying;
- Installation of Prefabricated Vertical Drain;
- Sand Blanket and Geotextile Laying.

A15. The major environmental impacts brought by the above construction activities will include:

- Water quality impact from the DCM installation, laying of sand blanket and dredging operation;
- Disturbance and possible trapping of Finless Porpoise by silt curtains.

A16. The key environmental mitigation measures for the Project in the coming reporting period associated with the construction activities will include:

- Reduction of noise from equipment and machinery on-site;
- Installation of silt curtains for DCM installation, sand blanket laying works and dredging works;
- Installation process of floating silt curtain according to approved Silt Curtain Deployment Plan;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Management of chemicals and avoidance of oil spillage on-site, especially under heavy rains and adverse weather;
- Implementation of cluster MMEZ and inspection of enclosed environment within silt curtains as per DMPFP;
- Regulation on rate and means for dredging works as stipulated in FEP Clause 2.17 – 2.21 or the approved Supporting Document for Reviewing Dredging Rate and Filling Rate, whichever is applicable;
- Daily site audit and monitoring by ET during dredging work as stipulated in FEP Clause 2.21A;
- Storage, handling and disposal of dredged materials according to Dumping At Sea Ordinance (DASO);
- Confirmation of the absence of silt content in the rock filling material and the filling work is properly conducted.

1. BASIC PROJECT INFORMATION

1.1 Background

1.1.1 The Government of Hong Kong SAR will develop the Integrated Waste Management Facilities (IWMF) Phase 1 (hereafter “the Project”) with incineration to achieve substantial bulk reduction of unavoidable municipal solid waste (MSW) and to recover energy from the incineration process. The IWMF will be on an artificial island to be formed by reclamation at the south-western coast of Shek Kwu Chau. Keppel Seghers – Zhen Hua Joint Venture (KSZHJV) was awarded the contract under Contract No. EP/SP/66/12 Integrated Waste Management Facilities Phase 1 to construct and operate the Project.

1.1.2 An environmental impact assessment (EIA) study for the Project has been conducted and the EIA Report was approved under the Environmental Impact Assessment Ordinance on 17 January 2012. An Environmental Permit (EP) (EP No.: EP-429/2012) was granted to EPD on 19 January 2012 for the construction and operation of the Project. Subsequently, the EP was amended (EP No.: EP-429/2012/A) and a further EP (FEP) (EP No.: FEP-01/429/2012/A) was granted to the Keppel Seghers – Zhen Hua Joint Venture (KSZHJV) on 27 December 2017.

1.1.3 A further EP (FEP) (EP No.: FEP-02/429/2012/A) on Submarine Cable for the Development of the Project was granted to CLP Power Hong Kong Limited (CLP) on 17 Jan 2020.

1.1.4 The key design and construction elements of the Project include the Design and the Works including but not limited to the design, engineering procurement, construction, testing and commissioning of the Facility including:

- Ground Treatment works;
- Seawall and Breakwater construction;
- Non-dredged Reclamation;
- Other Marine works and Harbour and Port Facilities;
- Site formation;
- Municipal Solid Waste (MSW) Treatment Processes;
- Energy Recovery for Power Generation and Surplus Electricity export;
- Wastewater treatment process;
- Desalination and water treatment process;
- Civil works;
- Building and Structural works;
- Electrical and Mechanical works;
- Building Services;
- Architectural and Landscaping works; and
- All other design and works required for the operation and maintenance of the Facility according to the Contract requirements.

1.1.5 The location of the IWMF near Shek Kwu Chau (SKC) and general layout of IWMF are shown in **Figure 1.1** and **Figure 1.2** respectively.

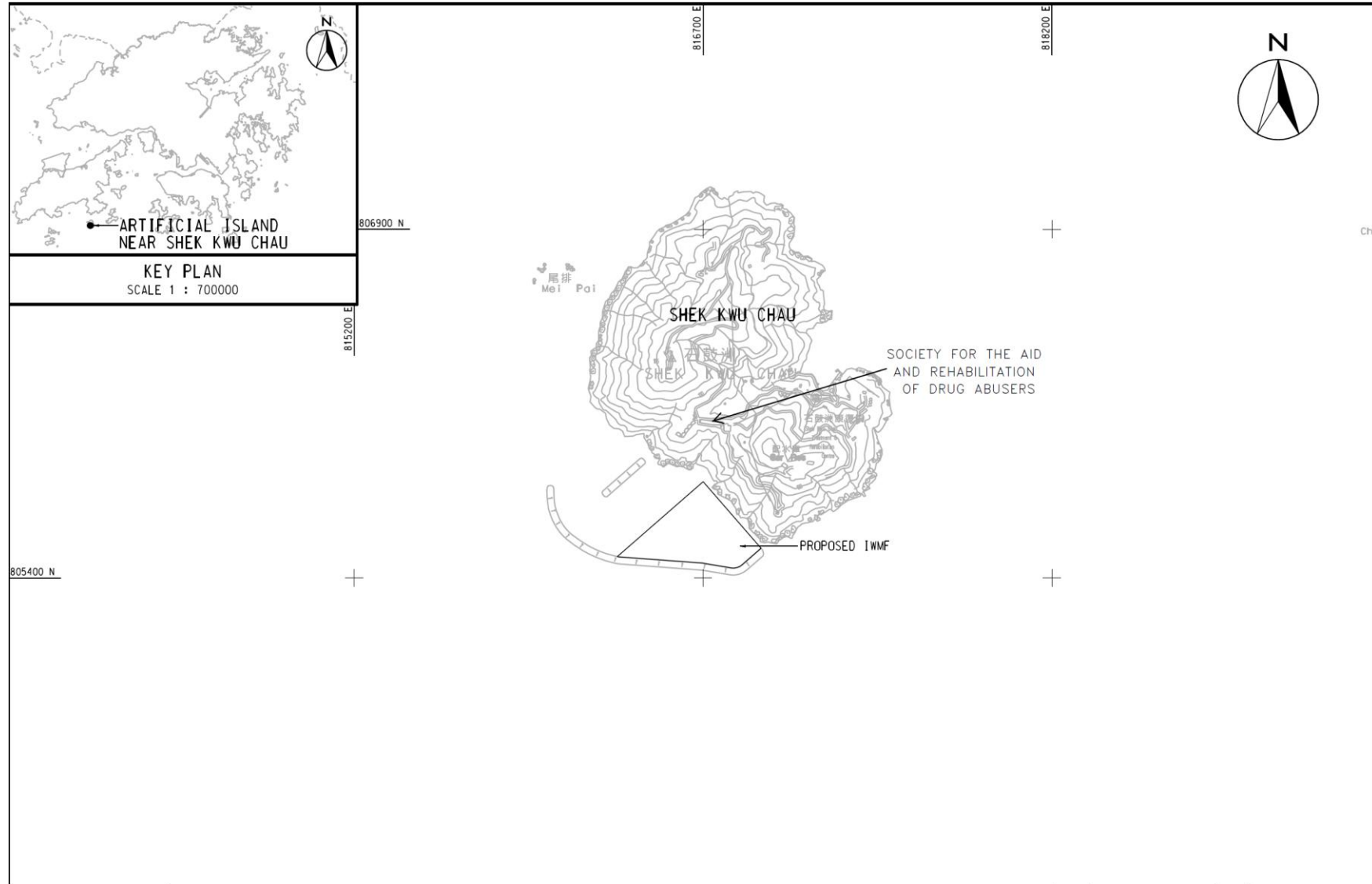


Figure 1.1 Location of the IWMF at the Artificial Island near SKC

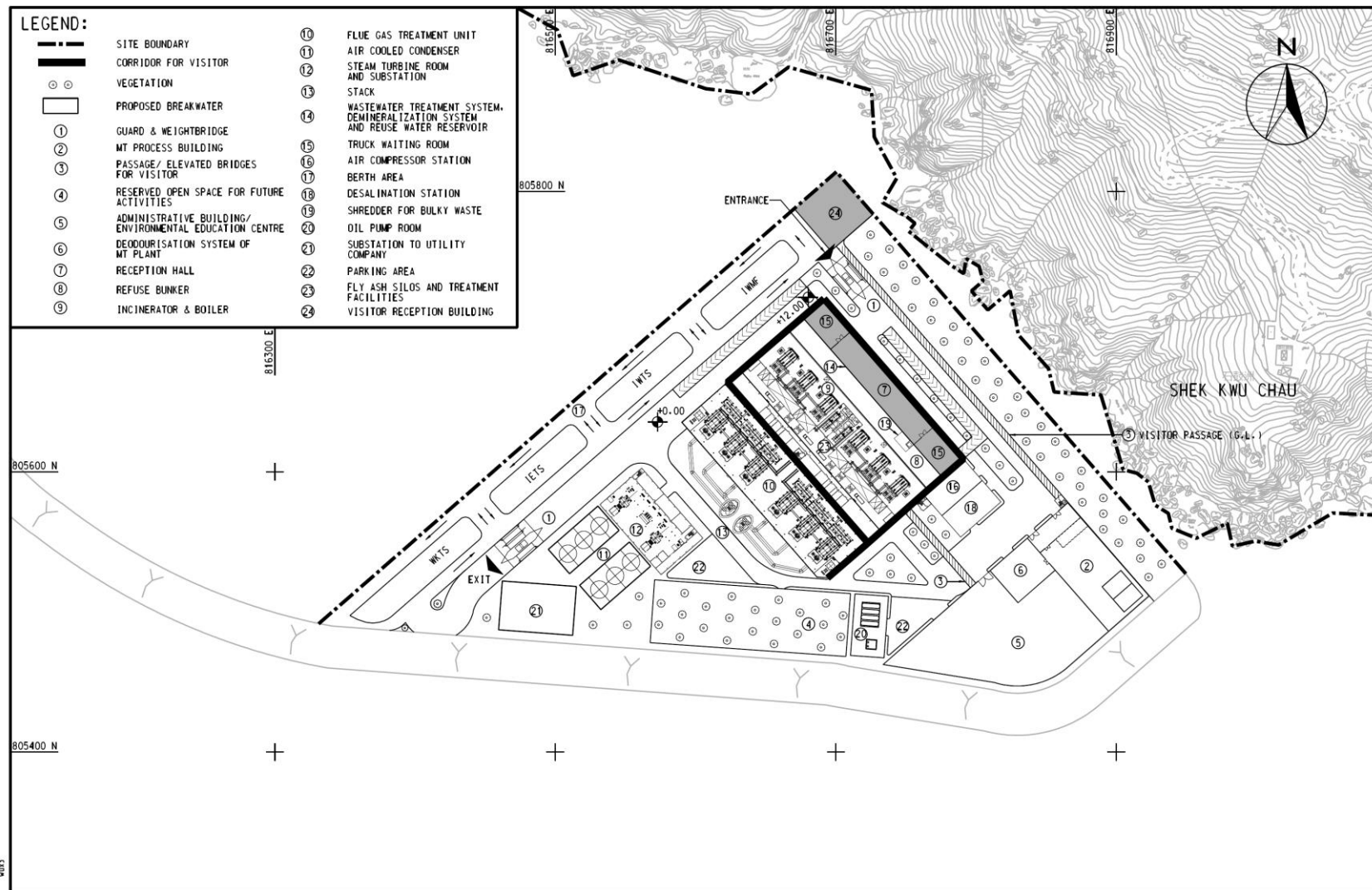


Figure 1.2 General Layout of the IWMF at the Artificial Island near SKC

1.2 The Reporting Scope

1.2.1 This is the 22nd Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 April 2020 to 30 April 2020.

1.3 Project Organization

1.3.1 The Project Organization structure for Construction Phase is presented in **Figure 1.3**.

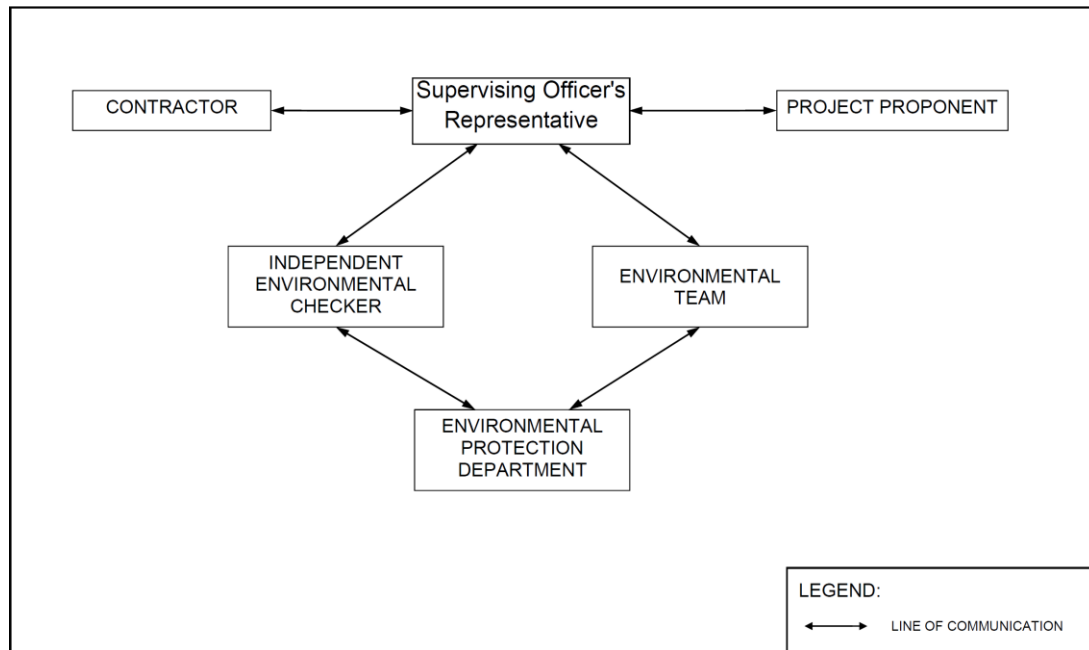


Figure 1.3 Project Organization Chart

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

Table 1.1 Contact Details of Key Personnel

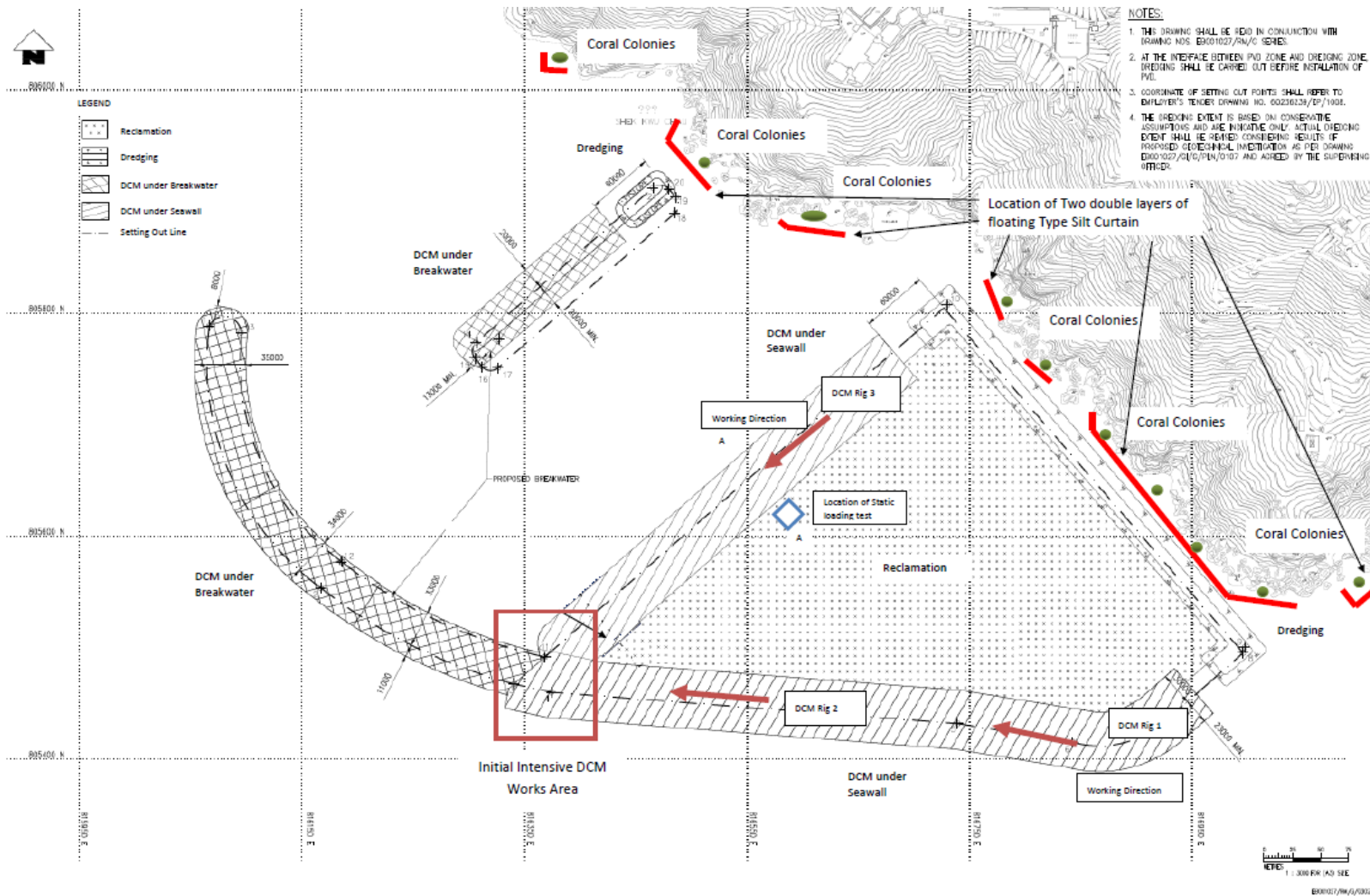
| Party | Position | Name | Telephone no. |
|--|-----------------------------------|-------------|---------------|
| Keppel Seghers – Zhen Hua Joint Venture | Project Manager | Kenny Yu | 2192-0606 |
| Acuity Sustainability Consulting Limited | Environmental Team Leader | Jacky Leung | 2698-6833 |
| ERM-Hong Kong, Limited | Independent Environmental Checker | Mandy To | 2271-3000 |

1.4 Summary of Construction Works

1.4.1 Details of the major construction activities undertaken in this reporting period are shown in **Table 1.2** and **Figure 1.4** below. The construction programme is presented in **Appendix A**.

Table 1.2 Summary of the Construction Activities Undertaken during the Reporting Month

| Location of works | Construction activities undertaken | Remarks on progress |
|--------------------------|---|---|
| Breakwater | <ul style="list-style-type: none"> • Sand blanket laying • DCM installation works | <ul style="list-style-type: none"> • On-going • On-going |
| Reclamation area | <ul style="list-style-type: none"> • Sand blanket laying | <ul style="list-style-type: none"> • On-going |
| Seawall portion | <ul style="list-style-type: none"> • DCM installation works • Coring of DCM cluster • Dredging and Sediment Disposal • Cone Penetration Test • Installation of caisson • Installation of Prefabricated Vertical Drain | <ul style="list-style-type: none"> • Completed • On-going • 72,156.7042 m³ of dredged sediment in bulk quantity was dumped at relevant dumping site in total up to 30 April 2020. • On-going • On-going • On-going |



1.5 Summary of Environmental Status

1.5.1 A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in **Table 1.3**

Table 1.3 Summary of the Status of Valid Environmental Licence, Notification, Permit and Documentations

| Permit/ Licences/ Notification | Reference | Validity Period | Remarks |
|---|----------------------|-------------------------|---------|
| Variation of Environmental Permit | EP-429/2012/A | Throughout the Contract | |
| Further Environmental Permit | FEP-01/429/2012/A | Throughout the Contract | |
| Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA) | Ref No.: 428778 | 15/12/2017 – 22/09/2024 | |
| Wastewater Discharge Licence | WT00033787-2019 | 22/08/2019 – 31/08/2024 | |
| Chemical Waste Producer Registration | WPN0017-933-K3301-01 | Throughout the Contract | |
| | WPN5213-961-K3301-02 | Throughout the Contract | |
| Construction Noise Permit (24 hours) | GW-RS0088-20 | 26/02/2020 – 25/08/2020 | |
| Billing Account for Disposal of Construction Waste | A/C No.:7029768 | Throughout the Contract | |
| Marine Dumping Permit | EP/MD/20-125 | 20/02/2020 – 19/08/2020 | |

1.5.2 The status for all environmental aspects is presented in **Table 1.4**.

Table 1.4 Summary of Status for Key Environmental Aspects under the Updated EM&A Manual

| Parameters | Status |
|--|---|
| Water Quality | |
| Baseline Monitoring under Updated EM&A Manual and Detailed Plan on DCM | The baseline water quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4 |
| Impact Monitoring | On-going |
| Regular DCM Monitoring | On-going |
| Initial Intensive DCM Monitoring | Conducted from 11 February 2019 to 10 March 2019, to be resumed whenever DCM related parameter exceeded the AL/LL |

| Parameters | Status |
|---|---|
| Baseline Water Quality of wet season | Completed over 13 August 2018 to 7 September 2018 |
| Noise | |
| Baseline Monitoring | The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4 |
| Impact Monitoring | On-going |
| Waste Management | |
| Mitigation Measures in Waste Monitoring Plan | On-going |
| Coral | |
| Pre-translocation Survey and Coral Mapping | The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12 |
| Coral Translocation | Completed on 28 March 2018 |
| Post-Translocation Coral Monitoring | Survey affected by missing of translocated and tagged coral colonies after typhoons in September 2018, completed on 28 March 2019. |
| Pre-construction Coral Survey and Tagging | Completed on 26 June 2018 |
| Tagged Coral Monitoring | Survey obstructed due to missing of tagged coral colonies after typhoons in September 2018 |
| Coral Survey and Re-tagging | Re-tagging at Indirect Impact Site was conducted on 23 November and Re-tagging at Control Site was conducted on 3 December 2018. |
| Post Re-tagging Coral Monitoring | On-going |
| Marine Mammal | |
| Vessel-based Line-transect Survey Baseline Monitoring | The baseline marine mammal monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4 |
| Vessel-based Line-transect Survey Impact Monitoring | On-going |
| Land-based Theodolite Tracking | 30 days of theodolite surveys were started on 21 Feb 2019 and completed in May 2019. |
| Passive Acoustic Monitoring | 30 days of PAM surveys were started on 1 May 2019 and completed until the end of May 2019. |
| White-bellied Sea Eagle | |
| Baseline Monitoring | The baseline WBSE monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4 |
| Impact Monitoring | On-going |
| Environmental Audit | |
| Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual | On-going |

| Parameters | Status |
|--|---------------|
| Mitigation Measures in Marine Mammal Watching Plan (MMWP) | On-going |
| Mitigation Measures in Detailed Monitoring Programme on Finless Porpoise (DMPFP) | On-going |
| Mitigation Measures in Vessel Travel Details | On-going |
| Daily Site Audit and Monitoring for Dredging Work | On-going |

- 1.5.3 Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.
- 1.5.4 The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the Updated EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix B**.

2. MARINE WATER QUALITY MONITORING

2.1 Water Quality Requirements

- 2.1.1 To ensure no adverse water quality impact, water quality monitoring is recommended to be carried out at the nearby water sensitive receivers (WSRs) during construction phase including proposed reclamation, breakwater construction, etc.
- 2.1.2 In accordance with the Updated EM&A Manual, impact water quality monitoring were conducted 3 days per week at mid-flood and mid-ebb tide to obtain impact water quality levels at the eleven monitoring stations during general water quality monitoring and fourteen monitoring stations during regular DCM monitoring for the construction period.

2.2 Water Quality Parameters, Time, Frequency

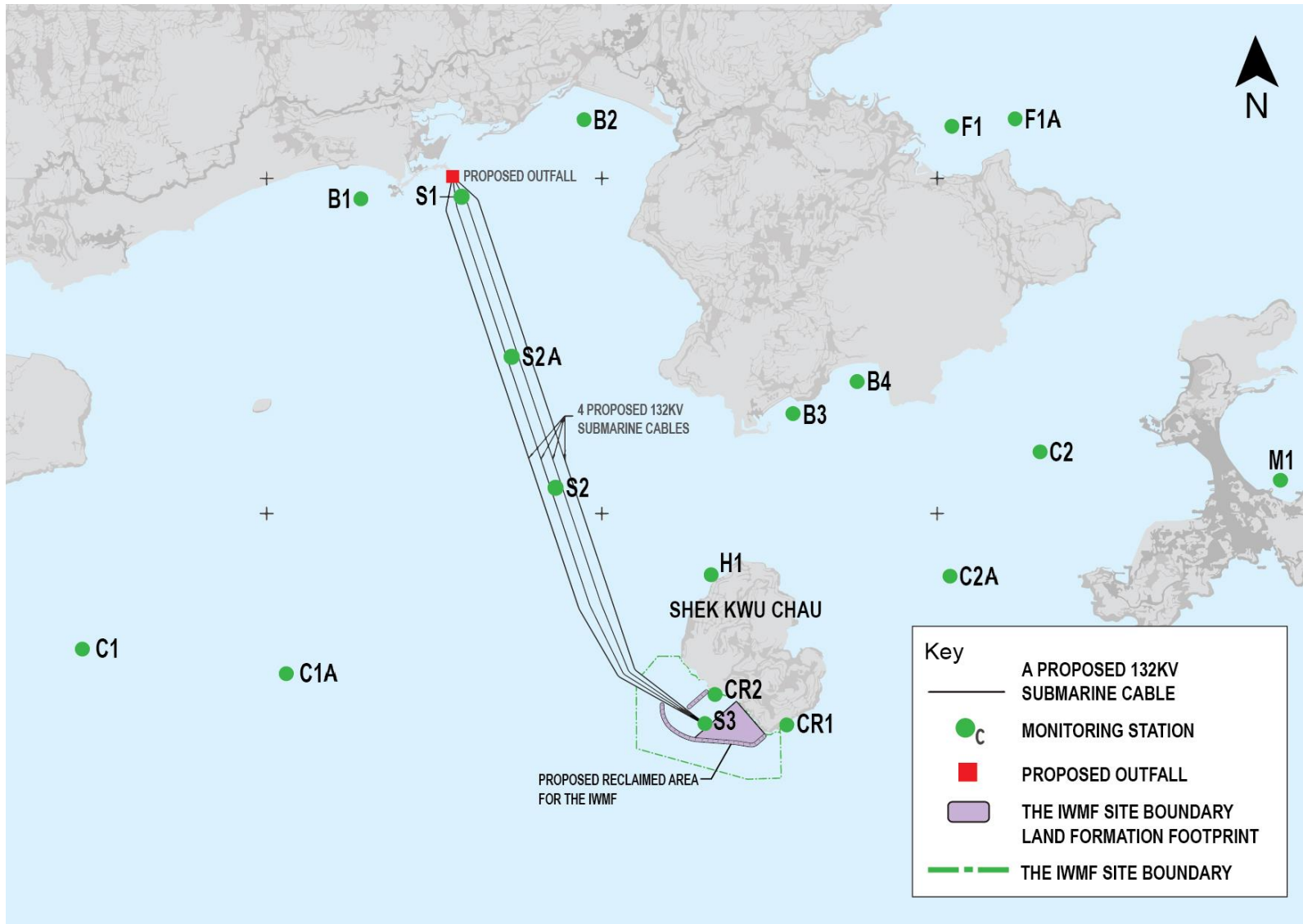
- 2.2.1 Dissolved Oxygen (DO), Turbidity, Suspended Solids (SS), Salinity and pH have been undertaken at the eleven monitoring stations during general water quality monitoring. Besides the above parameters, monitoring for Total Alkalinity, Current Velocity and Current Direction have been undertaken at all fourteen monitoring stations (including S1, S2A and S3) during regular DCM monitoring. While the same parameters monitored during regular DCM monitoring would be undertaken at twelve immediate upstream and downstream area to the DCM works location during intensive DCM monitoring. Intensive DCM monitoring was not undertaken during the reporting period.
- 2.2.2 Current velocity and direction, DO, temperature, salinity, turbidity and pH have been measured in-situ and the SS, Total Alkalinity have been assayed in a HOKLAS laboratory.
- 2.2.3 In associate with the water quality parameters, other relevant data were also measured, such as monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or work underway nearby were also recorded. The monitoring schedule is provided in **Appendix C**.
- 2.2.4 Impact water quality monitoring was conducted 3 days per week in the reporting period. All parameters were monitored during mid-flood and mid-ebb tides at three water depths for general water quality monitoring. The interval between two sets of monitoring has not been less than 36 hours.
- 2.2.5 **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact water quality monitoring during construction phase.

Table 2.1 Water Quality Monitoring Parameters, Frequency and Duration

| Parameter, unit | Frequency | No. of Depths |
|---|--|--|
| <ul style="list-style-type: none"> • Water Depth (m) • Temperature (°C) • Salinity (ppt) • pH (pH unit) • Dissolved Oxygen (DO) (mg/L and % of saturation) • Turbidity (NTU) • Suspended Solids (SS), mg/L • Total alkalinity (mg/L) • Current velocity (m/s) • Direction | <p>General water quality monitoring and Regular DCM monitoring: 3 days per week, at mid-flood and mid-ebb tides</p> | <p>3 water depths: 1m below sea surface, mid-depth and 1m above sea bed.</p> <p>If the water depth is less than 3m, mid-depth sampling only.</p> <p>If water depth less than 6m, mid-depth may be omitted.</p> |

2.3 Water Quality Monitoring Locations

2.3.1 Impact water quality monitoring was conducted at eleven monitoring locations (B1-B4, H1, C1, C2, F1, CR1, CR2 & M1) during general water quality monitoring and was conducted at fourteen water monitoring locations (B1-B4, H1, C1, C2, F1, S1-S3, CR1, CR2 & M1) during regular DCM monitoring, as shown in **Figure 2.1**. As per the relocation proposal verified by IEC and approved by EPD, the monitoring location C1, C2, S2, F1 are relocated at C1A, C2A, S2A, F1A as equivalent points respectively to clear up the concerns from stakeholders.



2.3.2 B1 to B4 are located at 4 beaches respectively at the southern shore of Lantau Island. Monitoring station H1 is located at the horseshoe crab habitat at northern SKC, while CR1 and CR2 are located at the coral communities at southwestern shore of SKC. Monitoring station F1 is located at the Cheung Sha Wan Fish Culture Zone while monitoring station M1 is located at Tung Wan at Cheung Chau. Monitoring station F1A is relocated for F1 at the Cheung Sha Wan Fish Culture Zone. S1, S2 and S3 are located at the northern landing site, midway and southern landing site of the proposed submarine cable, respectively. S2A is the relocated monitoring station of S2 which represents the midway landing site of the proposed submarine cable. S1, S2/S2A and S3 are required for monitoring due to the laying of submarine cable. Control stations C1 and C2 at far field locations are for comparison. Control stations C1A and C2A are relocated for C1 and C2 respectively as equivalent far field locations for comparison.

2.3.3 Fourteen monitoring stations are listed in **Table 2.2**:

Table 2.2 – Locations of Marine Water Quality Stations

| Monitoring station | Description | Easting | Northing |
|--------------------|--|---------|----------|
| B1 | Beach – Cheung Sha Lower | 813342 | 810316 |
| B2 | Beach – Pui O | 815340 | 811025 |
| B3 | Beach – Yi Long Wan | 817210 | 808395 |
| B4 | Beach – Tai Long Wan | 817784 | 808682 |
| H1 | Horseshoe Crab – Shek Kwu Chau | 816477 | 806953 |
| C1 | Control Station <small>(note i)</small> | 810850 | 806288 |
| C1A | Relocated Control Station | 812823 | 806300 |
| C2 | Control Station <small>(note ii)</small> | 819421 | 808053 |
| C2A | Relocated Control Station | 818869 | 806808 |
| F1 | Cheung Sha Wan Fish Culture Zone <small>(note iii)</small> | 818631 | 810966 |
| F1A | Cheung Sha Wan Fish Culture Zone | 819109 | 810924 |
| S1 | Submarine Cable Landing Site | 814245 | 810335 |
| S2 | Submarine Cable <small>(note iv)</small> | 815076 | 807747 |
| S2A | Submarine Cable | 814808 | 808515 |
| S3 | Submarine Cable Landing Site | 816420 | 805621 |
| CR1 | Coral | 817144 | 805597 |
| CR2 | Coral | 816512 | 805882 |
| M1 | Tung Wan | 821572 | 807799 |

Note:

- i. Relocated to C1A in Mar 2019
- ii. Relocated to C2A in Mar 2019
- iii. Relocated to S2A in Mar 2019
- iv. Relocated to F1A in Mar 2019

2.4 Impact Monitoring Methodology

- 2.4.1 General and regular DCM water quality monitoring was conducted three days per week, at mid-flood and mid-ebb tides, at the designated water quality monitoring stations during the reporting period.
- 2.4.2 The interval between 2 sets of monitoring was not less than 36 hours. Sampling was collected at three water depths, namely, 1m below water surface, mid-depth and 1m above seabed, except where the water depth is less than 6m, the mid-depth was omitted. If the water depth was less than 3m, only the mid-depth station was monitored.
- 2.4.3 All observations and results were recorded in the data record sheets in **Appendix D**. Duplicate in-situ measurements and water sampling were carried out in each sampling event. The monitoring probes were retrieved out of water after the first measurement and then redeployed for the second measurement. When the difference in value between the first and second readings of DO or turbidity is more than 25% of the value of the first reading, the reading would be discarded and further readings would be taken.

In-situ Measurement

- 2.4.4 Levels of DO, pH, temperature, turbidity and salinity would be measured in-situ by portable and weatherproof measuring instrument, e.g. YSI ProDSS and Horiba U-53 Multiparameter complete with cable and sensor. (Refer to <http://www.ysi.com/ProDSS> for YSI ProDSS technical specification and <http://www.horiba.com/process-environmental/products/water-treatment-environment/details/u-50-multiparameter-water-quality-checker-368/> for Horiba U-53 technical specification). Water current velocity and Water Current direction would be measured by portable and weatherproof current meter, e.g. SonTek Hydrosurveyor (Refer to <https://www.sontek.com/media/pdfs/riversurveyor-s5-m9-brochure.pdf> for SonTek Hydrosurveyor M9 technical specification). Parameters measured by in-situ measurement is tabulated in **Table 2.3**

Table 2.3 – Parameters Measured by In-situ Measurement

| Parameter | Resolution | Range |
|-------------------------|------------|-------------|
| Temperature | 0.1 °C | -5-70 °C |
| Dissolved Oxygen (DO) | 0.01 mg/L | 0-50.0 mg/L |
| Turbidity | 0.1 NTU | 0-1000 NTU |
| pH | pH 0.01 | pH 0-14 |
| Salinity | 0.01 ppt | 0-40 ppt |
| Water Current Velocity | 0.001m/s | ±20m/s |
| Water Current Direction | ±1° | ±2° |

Laboratory Analysis

- 2.4.5 Analysis of Total Alkalinity and SS shall be carried out in a HOKLAS accredited laboratory, as shown in **Appendix E**. Sufficient water samples shall be collected at the monitoring stations for carrying out the laboratory determinations. The determination work shall be started within 24 hours after collection of the water samples. Analytical methods and detection limits for SS and total alkalinity are presented in **Table 2.4**.

Table 2.4 – Analytical Methods Applied to Water Quality Samples

| Parameter | Analytical method | Detection Level |
|----------------------|--------------------------|-----------------|
| Suspended Solids, SS | APHA 2540 D _i | 1 mg/L |
| Total Alkalinity | APHA 2320 | 0.01 mg/L |

Footnote:

- i. “APHA 2540 D” stands for American Public Health Association Standard Methods for the Examination of Water and Wastewater, 23rd Edition.

Field Log

2.4.6 Other relevant data was recorded, such as: monitoring location / position, time, water depth, weather conditions and any special phenomena underway near the monitoring station.

2.5 Monitoring Equipment

2.5.1 Equipment used in the impact water quality monitoring programme is summarized in **Table 2.5** below. Calibration certificates for the water quality monitoring equipment are attached in **Appendix F**.

Table 2.5 Impact Water Quality Monitoring Equipment

| Monitored Parameter | Equipment | Brand and Model |
|---|------------------------|--|
| DO, Temperature, Salinity, pH and Turbidity | Multi-functional Meter | YSI ProDSS Horiba U-53 |
| Coordinates | Positioning Equipment | Garmin GPSMAP 78s |
| Water depth | Water Depth Detector | Hummingbird 160 Portable |
| SS | Water Sampler | Wildco 2 L Water Sampler with messenger |

2.5.2 Dissolved Oxygen and Temperature Measuring Equipment

The instrument is a portable and weatherproof DO probe mounted on the multi-functional meter complete with cable and sensor and is powered by a DC supply source. The equipment was capable of measuring:

- A DO level in the range of 0 - 50 mg/L; and
- Temperature of -5 - 70 degree Celsius.

2.5.3 Turbidity Measurement Instrument

The instrument is a portable and weatherproof turbidity-measuring probe mounted on the multi-functional meter and is powered by a DC supply source. The instrument is equipped with a photoelectric sensor which is capable of measuring turbidity between 0 – 1000 NTU.

2.5.4 pH Measurement Instrument

The probe consists of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device mounted on the multi-functional meter. It is

readable to 0.1 pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 were used for calibration of the instrument before and after use.

2.5.5 Salinity Measurement Instrument

A portable salinometer mounted on the multi-functional meter capable of measuring salinity in the range of 0-40 parts per thousand (ppt) was provided for measuring salinity of the water at each monitoring location.

2.5.6 Sampler

The water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, which can be effectively sealed with latex cups at both ends. The sampler has a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

2.5.7 Sample Containers and Storage

Water samples for SS were stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4°C without being frozen) and delivered to the laboratory and analysed as soon as possible after collection. Sufficient volume of samples was collected to achieve the detection limit stated in **Table 2.4**.

2.5.8 Water Depth Detector

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station. This unit could either be hand-held or affixed to the bottom of the work boat, if the same vessel is to be used throughout the monitoring programme.

2.5.9 Monitoring Position Equipment

Hand-held digital Differential Global Positioning System (DGPS) with way point bearing indication and Radio Technical Commission for maritime (RTCM) Type 16 error message 'screen pop-up' facilities (for real-time auto-display of error messages and DGPS corrections from the Hong Kong Hydrographic Office) was provided and used to ensure that the water sampling locations were correct during the water quality monitoring work.

2.6 Maintenance and Calibration

2.6.1 The multi-functional meters were checked and calibrated before use. Multi-functional meters were certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at three monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before commencement of monitoring and after completion of all measurements each day. Calibration was not conducted at each monitoring location as daily calibration is adequate for the type of DO meter employed.

2.6.2 Sufficient stocks of spare parts were provided and maintained for replacements when necessary. Backup monitoring equipment was prepared for uninterrupted monitoring during equipment maintenance or calibration during monitoring.

2.7 Action and Limit Levels

2.7.1 The Action and Limit Levels have been set based on the derivation criteria specified in the Updated EM&A Manual and Detailed DCM Plan, as shown in **Table 2.6** below.

Table 2.6 Criteria of Action and Limit Levels for Water Quality

| Parameters | Action | Limit |
|---|---|---|
| Construction Phase Impact Monitoring | | |
| DO in mg/L | ≤ 5 %-ile of baseline data | ≤ 4 |
| SS in mg/L | ≥ 95 %-ile of baseline data or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher | ≥ 99 %-ile of baseline data or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher |
| Turbidity in NTU | ≥ 95 %-ile of baseline data or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher | ≥ 99 %-ile of baseline data or 130% of control station's turbidity at the same tide of the same day of measurement, whichever is higher |
| Temperature in °C | 1.8°C above the temperature recorded at representative control station at the same tide of the same day | 2°C above the temperature recorded at representative control station at the same tide of the same day |
| Total Alkalinity in mg/L | ≥ 95 %-ile of baseline data or 120% of representative control station at the same tide of the same day, whichever is higher | ≥ 99 %-ile of baseline data or 130% of representative control station at the same tide of the same day, whichever is higher |

2.7.2 Based on the baseline monitoring data and the derivation criteria specified above, the Action/Limit Levels have been derived and are presented in **Table 2.7** and **Table 2.8** for both dry seasons (October – March) and wet seasons (April – September).

Table 2.7 Derived Action and Limit Levels for Water Quality Monitoring (Dry Season)

| Parameters | Action | Limit |
|---|--|---|
| Construction Phase Impact Monitoring | | |
| DO in mg/L | ≤ 7.13 | ≤ 4 |
| SS in mg/L | ≥ 8 or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher | ≥ 10 or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher |

| Parameters | Action | Limit |
|--------------------------|---|--|
| Turbidity in NTU | ≥ 5.6 or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher | ≥ 12.8 or 130% of control station's turbidity at the same tide of the same day of measurement, whichever is higher |
| Temperature in °C | 1.8°C above the temperature recorded at representative control station at the same tide of the same day | 2°C above the temperature recorded at representative control station at the same tide of the same day |
| Total Alkalinity in mg/L | ≥116 or 120% of control station's Total Alkalinity at the same tide of the same day of measurement, whichever is higher | ≥ 118 or 130% of control station's Total Alkalinity at the same tide of the same day of measurement, whichever is higher |

Notes:

- i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- iii. For turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table 2.8 Derived Action and Limit Levels for Water Quality (Wet Season)

| Parameters | Action | Limit |
|---|---|---|
| Construction Phase Impact Monitoring | | |
| DO in mg/L | ≤ 5.28 | ≤ 4 |
| SS in mg/L | ≥ 12 or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher | ≥ 14 or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher |
| Turbidity in NTU | ≥ 4.0 or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher | ≥ 4.3 or 130% of control station's turbidity at the same tide of the same day of measurement, whichever is higher |
| Temperature in °C | 1.8°C above the temperature recorded at representative control station at the same tide of the same day | 2°C above the temperature recorded at representative control station at the same tide of the same day |
| Total Alkalinity in mg/L | ≥ 116 mg/L or 120% of representative control station at the same tide of the same day, whichever is higher | ≥ 118 mg/L or 130% of representative control station at the same tide of the same day, whichever is higher |

Notes:

- i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- iii. For turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

2.7.3 If exceedances were found during water quality monitoring, the actions in accordance with the Event and Action Plan shall be carried out according to **Appendix G**.

2.8 Monitoring Results and Observations

2.8.1 During the reporting period, general water quality monitoring at all the eleven monitoring stations and regular DCM monitoring including monitoring stations S1, S2A and S3 were conducted on 1, 3, 6, 8, 10, 14, 16, 18, 20, 22, 24, 27 & 29 April 2020. Monitoring results of 7 key parameters: Salinity, DO, turbidity, SS, pH, temperature and total alkalinity in this reporting month, are summarized in **Table 2.9**, and details results are presented in **Appendix D**.

Table 2.9 Summary of Impact Water Quality Monitoring Results

| Locations | | Parameters | | | | | | | |
|-----------|------|----------------|-------------------------|--------|------|-----------------|-------------------------|------------|------------------------------------|
| | | Salinity (ppt) | Dissolved Oxygen (mg/L) | | pH | Turbidity (NTU) | Suspended Solids (mg/L) | Temp. (°C) | Total Alkalinity (mg/L) note ii |
| | | | Surface & Middle | Bottom | | | | | |
| B1 | Avg. | 31.14 | 8.26 | 8.23 | 8.45 | 3.1 | 4.03 | 21.7 | 116.6 |
| | Min. | 30.15 | 7.37 | 7.28 | 8.05 | 2.4 | 2.00 | 20.1 | 110.0 |
| | Max. | 32.16 | 9.47 | 9.06 | 8.93 | 4.0 | 10.00 | 24.1 | 123.0 |
| B2 | Avg. | 31.22 | 8.24 | 8.27 | 8.46 | 3.1 | 3.98 | 21.7 | 116.5 |
| | Min. | 30.21 | 7.39 | 7.25 | 8.06 | 2.3 | 2.00 | 20.1 | 110.0 |
| | Max. | 32.31 | 8.87 | 9.26 | 8.93 | 4.1 | 10.00 | 24.0 | 123.0 |
| B3 | Avg. | 31.18 | 8.28 | 8.21 | 8.44 | 3.2 | 4.20 | 21.7 | 116.5 |
| | Min. | 30.21 | 7.56 | 7.42 | 8.05 | 2.4 | 2.00 | 20.1 | 109.0 |
| | Max. | 32.27 | 9.38 | 9.27 | 8.93 | 4.2 | 11.00 | 24.1 | 123.0 |
| B4 | Avg. | 31.22 | 8.32 | 8.31 | 8.45 | 3.2 | 4.43 | 21.7 | 116.3 |
| | Min. | 30.10 | 7.30 | 7.60 | 8.08 | 2.4 | 2.00 | 20.2 | 110.0 |
| | Max. | 32.30 | 9.54 | 9.24 | 8.91 | 4.2 | 11.00 | 23.9 | 123.0 |
| C1A | Avg. | 31.22 | 8.22 | 8.25 | 8.43 | 3.1 | 4.41 | 21.6 | 116.5 |
| | Min. | 30.11 | 7.25 | 7.54 | 8.09 | 2.3 | 2.00 | 20.1 | 110.0 |
| | Max. | 32.31 | 9.56 | 9.52 | 8.94 | 4.1 | 9.00 | 23.9 | 123.0 |
| C2A | Avg. | 31.22 | 8.25 | 8.28 | 8.45 | 3.1 | 4.49 | 21.7 | 116.6 |
| | Min. | 30.14 | 7.28 | 7.22 | 8.06 | 2.4 | 2.00 | 20.1 | 110.0 |
| | Max. | 32.30 | 9.41 | 9.07 | 8.92 | 4.1 | 9.00 | 23.9 | 123.0 |
| CR1 | Avg. | 31.19 | 8.31 | 8.27 | 8.46 | 3.1 | 4.40 | 21.6 | 116.6 |
| | Min. | 30.15 | 7.46 | 7.31 | 8.05 | 2.4 | 2.00 | 20.1 | 109.0 |
| | Max. | 32.23 | 9.57 | 9.46 | 8.94 | 4.1 | 10.00 | 23.9 | 124.0 |
| CR2 | Avg. | 31.21 | 8.27 | 8.31 | 8.43 | 3.1 | 4.48 | 21.6 | 116.6 |
| | Min. | 30.10 | 7.25 | 7.34 | 8.11 | 2.3 | 2.00 | 20.1 | 109.0 |
| | Max. | 32.32 | 9.52 | 9.51 | 8.94 | 4.0 | 10.00 | 24.0 | 124.0 |
| F1A | Avg. | 31.19 | 8.25 | 8.24 | 8.45 | 3.1 | 4.68 | 21.6 | 116.7 |
| | Min. | 30.10 | 7.22 | 7.30 | 8.06 | 2.4 | 2.00 | 20.1 | 109.0 |
| | Max. | 32.32 | 9.45 | 9.12 | 8.86 | 4.0 | 10.00 | 23.9 | 124.0 |
| H1 | Avg. | 31.19 | 8.23 | 8.29 | 8.44 | 3.1 | 4.72 | 21.6 | 116.4 |
| | Min. | 30.10 | 7.27 | 7.54 | 8.06 | 2.3 | 2.00 | 20.1 | 109.0 |
| | Max. | 32.28 | 9.55 | 9.53 | 8.94 | 4.1 | 11.00 | 24.1 | 124.0 |
| M1 | Avg. | 31.21 | 8.26 | 8.25 | 8.45 | 3.1 | 4.42 | 21.6 | 116.7 |
| | Min. | 30.16 | 7.31 | 7.38 | 8.11 | 2.3 | 2.00 | 20.1 | 109.0 |
| | Max. | 32.27 | 9.54 | 9.21 | 8.91 | 4.1 | 11.00 | 23.9 | 124.0 |
| S1 | Avg. | 31.21 | 8.30 | 8.26 | 8.46 | 3.1 | 4.69 | 21.7 | 116.4 |
| | Min. | 30.11 | 7.37 | 7.34 | 8.05 | 2.3 | 2.00 | 20.1 | 110.0 |
| | Max. | 32.19 | 9.22 | 9.61 | 8.91 | 4.2 | 11.00 | 24.1 | 124.0 |
| S2A | Avg. | 31.20 | 8.25 | 8.30 | 8.44 | 3.1 | 4.56 | 21.7 | 116.5 |
| | Min. | 30.13 | 7.30 | 7.30 | 8.08 | 2.3 | 2.00 | 20.1 | 109.0 |
| | Max. | 32.35 | 9.35 | 9.12 | 8.94 | 3.9 | 9.00 | 24.1 | 124.0 |
| S3 | Avg. | 31.23 | 8.23 | 8.29 | 8.45 | 3.2 | 4.60 | 21.6 | 116.7 |
| | Min. | 30.13 | 7.27 | 7.18 | 8.10 | 2.4 | 2.00 | 20.1 | 110.0 |
| | Max. | 32.23 | 9.31 | 9.38 | 8.93 | 4.1 | 10.00 | 24.0 | 124.0 |

Notes:

- i. "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood and mid-ebb tides at three water depths, except that of DO where the data for "Surface & Middle" and "Bottom" are calculated separately.
- ii. Total alkalinity test is only conducted on DCM working day with reference to master programme in **Appendix A**.
- iii. Monitoring at S1, S2A and S3 shall only be conducted during DCM work period referring to master programme in **Appendix A**.

- 2.8.2 The weather conditions during the monitoring period were mainly sunny and cloudy. Sea conditions for the majority of monitoring days were mainly moderate. No major pollution source and extreme weather which might affect the results were observed during the impact monitoring.
- 2.8.3 During the impact monitoring period for April 2020, none of the General & Regular DCM water quality monitoring results obtained had exceeded Action Level and Limit Level.
- 2.8.4 Details of the exceedance are presented in **Section 8**.
- 2.8.5 Mitigation measures minimizing the adverse impacts on water implemented are listed in the implementation schedule given in **Appendix B**.

3. NOISE MONITORING

3.1 Monitoring Requirements

- 3.1.1 To ensure no adverse noise impact, noise monitoring is recommended to be carried out at the nearby noise sensitive receivers (NSRs) during construction phase.
- 3.1.2 In accordance with the Updated EM&A Manual, baseline noise level at the noise monitoring stations was established as presented in the Baseline Monitoring Report. Impact noise monitoring was conducted once per week in the form of 30-minutes measurements Leq, L10 and L90 levels recorded at each monitoring station between 0700 and 1900 hours on normal weekdays.
- 3.1.3 In accordance with the Updated EM&A Manual, additional weekly impact monitoring should be carried out during respective restricted hours period (1900 – 0700 hours) if the construction works were conducted at evening and night time. Additional weekly noise monitoring was conducted once per week in the form of 5-minutes measurements Leq, L10 and L90 levels recorded at each monitoring station between 1900 and 0700 hours as well as public holidays and Sundays.

3.2 Noise Monitoring Parameters, Time, Frequency

- 3.2.1 Impact noise monitoring was conducted weekly in the reporting period between 0700-1900 hours on normal weekdays. Additional impact noise monitoring was conducted weekly in the reporting period between 1900-0700 hours on all days as well as public holidays and Sundays.
- 3.2.2 Construction noise level measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq_{30min} was used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. Leq_{5mins} was used as the monitoring parameter for the time period between 1900 and 0700 hours as well as public holidays and Sundays. **Table 3.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring and additional impact noise monitoring. The monitoring schedule is provided in **Appendix C**.

Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

| Monitoring Station | Time | Duration | Parameters |
|------------------------------------|---|--|--------------------------------|
| M1/ N_S1, M2/ N_S2, M3/ N_S3 | Day time: 0700-1900 hrs (during normal weekdays) | Once per week $L_{eq\ 5min}/L_{eq\ 30min}$ (average of 6 consecutive $L_{eq\ 5min}$) | L_{eq} , L_{10} & L_{90} |
| | Evening time: 1900-2300 hrs (including normal weekdays, also public holidays and Sundays) | Once per week $L_{eq\ 5min}$ (3 sets of $L_{eq\ 5min}$) | L_{eq} , L_{10} & L_{90} |
| | Night time: 2300-0700 hrs (including normal weekdays, also public holidays and Sundays) | Once per week $L_{eq\ 5min}$ (3 sets of $L_{eq\ 5min}$) | L_{eq} , L_{10} & L_{90} |
| Alternative location (MA) | Day time: 0700-1900 hrs (during normal weekdays) | Once per week until further notification $L_{eq\ 5min}/L_{eq\ 30min}$ (average of 6 consecutive $L_{eq\ 5min}$) | L_{eq} , L_{10} & L_{90} |
| | Evening time: 1900-2300 hrs (including normal weekdays, also public holidays and Sundays) | Once per week until further notification $L_{eq\ 5min}$ (3 sets of $L_{eq\ 5min}$) | L_{eq} , L_{10} & L_{90} |
| | Night time: 2300-0700 hrs (including normal weekdays, also public holidays and Sundays) | Once per week until further notification $L_{eq\ 5min}$ (3 sets of $L_{eq\ 5min}$) | L_{eq} , L_{10} & L_{90} |

3.3 Noise Monitoring Locations

3.3.1 Three noise monitoring locations for impact monitoring and additional impact monitoring at the nearby sensitive receivers are shown in **Figure 3.1**.

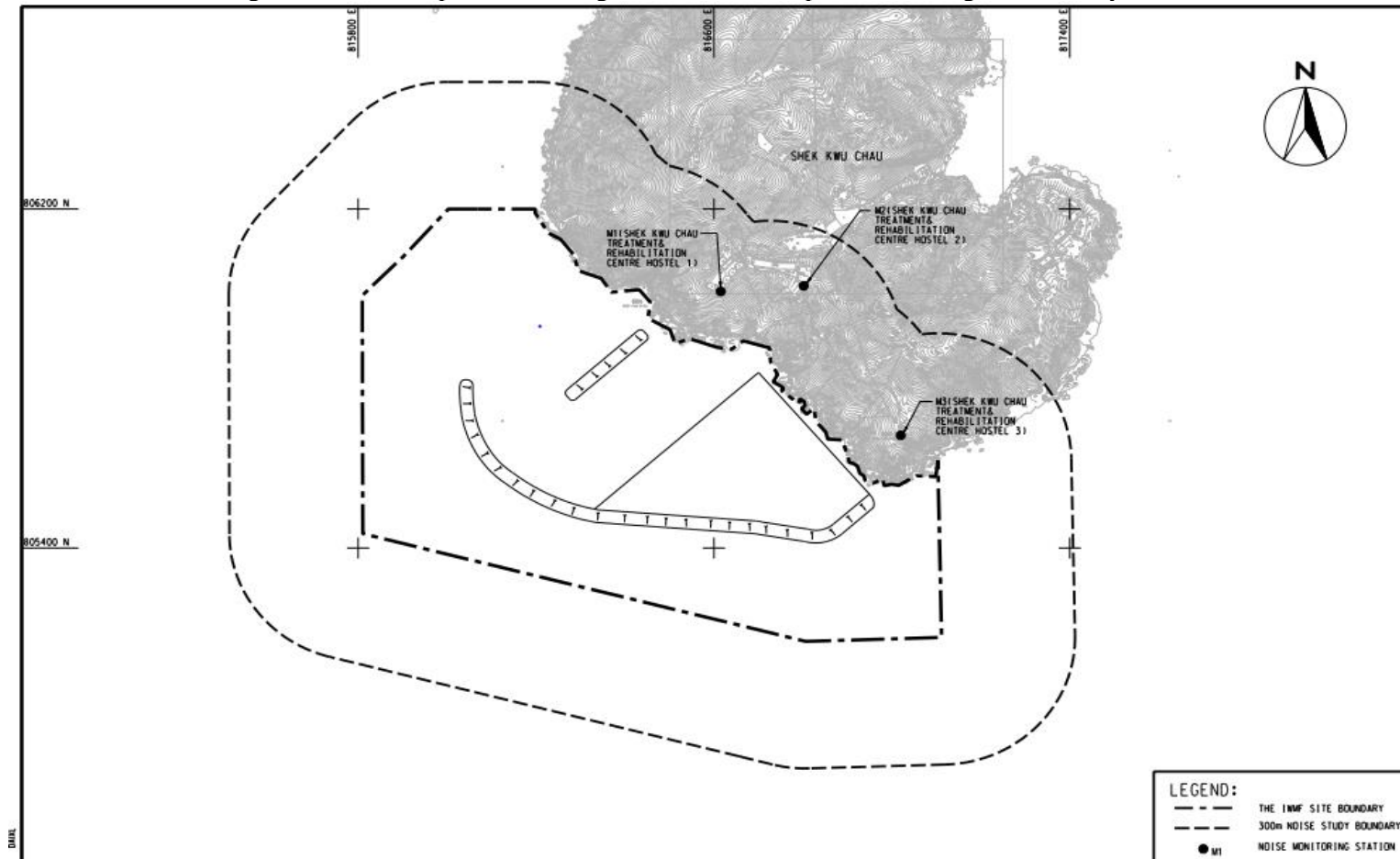


Figure 3.1 Noise monitoring locations at SKC

- 3.3.2 M1, M2 and M3 are Shek Kwu Chau Treatment and Rehabilitation Centre Hostel 1, 2 and 3 respectively of The Society for the Aid and Rehabilitation of Drug Abusers (SARDA) located at southern part of Shek Kwu Chau.
- 3.3.3 Based on the concern of novel coronavirus since Feb 2020, the Society for the Aid and Rehabilitation of Drug Abusers (SARDA) issued a notice on rejection of access for noise monitoring practice effective from 31 Jan 2020. Hence, the weekly noise monitoring at the selected noise sensitive receivers (M1, M2 & M3) as per the monitoring schedule were suspended starting from February 2020.
- 3.3.4 Considering the absence of noise sensitive receivers except SARDA in close proximity of the Project site. ET proposed and IEC agreed to perform the alternative noise monitoring at the farthest barge (MA) available “i.e. FTB-17 or equivalent barge subject to site condition” outside the site boundary with no construction works as shown in **Figure 3.2** below.

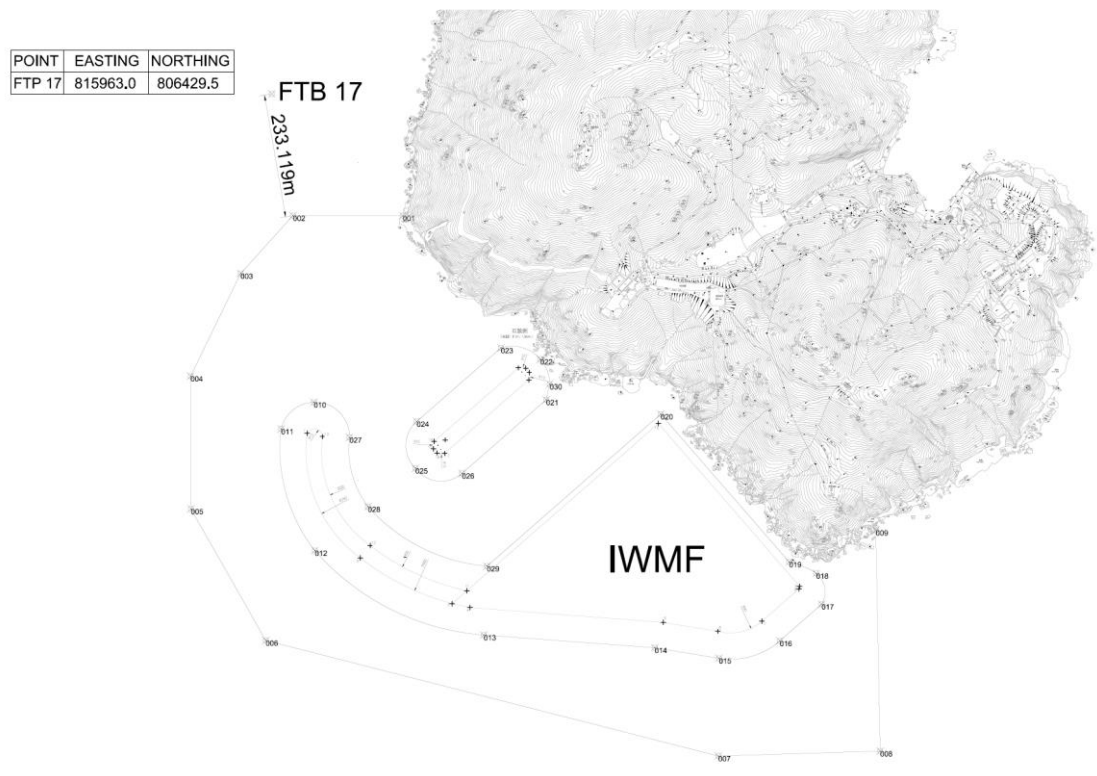


Figure 3.2 Proposed alternative noise monitoring location at barge FTB-17 at Shek Kwu Chau

Table 3.2 Noise Monitoring Location

| Station | NSR ID in EIA Report | Noise Monitoring Location | Type of sensitive receiver(s) | Measurement Type |
|---------|----------------------|---|-------------------------------|------------------|
| M1* | N_S1 | Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 | Residential | Façade |
| M2* | N_S2 | Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 | Residential | Façade |
| M3* | N_S3 | Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 | Residential | Façade |
| MA | - | The farthest barge outside the site boundary with no construction works subject to site condition | - | Free field |

Note (*): Temporary suspended due to denied access from SARDA

3.4 Impact Monitoring Methodology

3.4.1 At each designated monitoring location, measurements of six 5-minutes A-weighted equivalent sound pressure level [$L_{eq\ 5min}$] was carried out between 0700 and 1900 hours for daytime measurements on a normal weekdays (exclude Sunday or general holiday). The measured six impact noise levels at each monitoring location shall then be averaged in logarithmic scale and expressed in terms of the 30 minutes A-weighted equivalent continuous sound pressure level ($L_{eq\ 30min}$) for the time period between 0700 and 1900 hours on normal weekdays.

3.4.2 At each designated monitoring location, measurements of three 5-minutes A-weighted equivalent sound pressure level [$L_{eq\ 5min}$] was carried out between 1900 and 0700 hours for evening time and night time measurements.

3.4.3 The monitoring procedures are as follows:

- The microphone head of the lead level meter was normally positioned 1m exterior of the noise sensitive façade and lowered sufficiently so that the building’s external wall acts as a reflecting surface.
- If there is a problem with the access to the normal monitoring position, an alternative may be chosen and appropriate correction would be applied according to acoustic principle when necessary. For reference, +3 dB(A) correction would be made for free-filed measurements.
- The battery condition was checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weight: A
 - Time weighting: Fast
 - Measurement time: 5 minutes
- Prior to and after noise measurement, the meter was calibrated using the calibrator for 94.0 dB at 1000Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- For Noise monitoring was carried out for 30 mins by sound level meter. At the end of the monitoring period, noise levels in terms of L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded when the equipment were checked and inspected.
- All the monitoring data within the sound level meter system was downloaded through the computer software.

3.5 Monitoring Equipment

3.5.1 Integrated sound level meter was used for the noise monitoring. The meter shall comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications.

3.5.2 Equipment used in the impact noise monitoring programme is summarized in **Table 3.3** below. Calibration certificates for the noise monitoring equipment are attached in **Appendix H**.

Table 3.3 Impact Noise Monitoring Equipment

| Equipment | Brand and Model |
|------------------------------|------------------------|
| Sound Level Meter | SVANTEK 971 |
| Sound Level Meter Calibrator | Rion NC-74 |

3.6 Maintenance and Calibration

3.6.1 The maintenance and calibration procedures were as follows:

- The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator were checked and calibrated at yearly intervals
- Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0dB.

3.7 Action and Limit Levels

3.7.1 The Action/Limit Levels in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) “Noise from Construction Activities – Non-statutory Controls” and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department [“EPD”] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 is presented in **Table 3.4**.

Table 3.4 Action and Limit Levels for Noise per Updated EM&A Manual

| Time Period | Action | Limit (dB(A)) |
|----------------------------------|---|----------------------|
| 0700-1900 hrs on normal weekdays | When one documented complaint is received | 75 dB(A) |

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

3.7.2 If exceedances were found during noise monitoring. The actions in accordance with the Event and Action Plan shall be carried out according to **Appendix I**.

3.8 Monitoring Results and Observations

3.8.1 Impact monitoring for noise impact for daytime was carried out on 7, 15, 25 & 29 April 2020. Impact monitoring for noise impact for evening time and night time was carried out on 7&8, 15&16, 24&25, 28&29 April 2020. For reference, the noise levels at alternative monitoring location (i.e. MA) are summarized in **Table 3.6**, **Table 3.7** and **Table 3.8** respectively. Details of noise monitoring results are presented in **Appendix J**.

3.8.2 A correction of +3 dB(A) would be made to the free-field measurements.

3.8.3 Major construction activity, major noise source and extreme weather which might affect the results were recorded during the impact monitoring.

3.8.4 According to our field observations, the major noise source identified at the alternative noise monitoring station in the reporting month are summarised in **Table 3.5**. No noticeable noise source was found near the monitoring stations MA.

Table 3.5 Summary of Field Observation

| Monitoring Station | Major Noise Source |
|---------------------------|---------------------------|
| MA | Sound of sea waves |

Applicable mitigation measures for construction works are fully implemented as shown in **Appendix B**, where double-glazed windows and air conditioning system were also installed and confirmed operable for the NSRs (N_S1, N_S2 & N_S3).

Data from impact monitoring during evening time and night time were compared with the NCO criteria. Where site inspection and auditing on Contractor's record have shown that the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority for construction works during restricted hours were followed. No inappropriate practice was spotted during evening time and night time construction works, thus the stipulated requirement on noise impact control during night time and evening time was achieved.

Table 3.6 Summary of Impact Noise Monitoring Results during Day Time (0700 – 1900 hours)

| Location | Measured Noise Level in dB(A)* | | |
|----------|--------------------------------|-------------------------------|-------------------------------|
| | Range of L _{eq} 5min | Range of L ₁₀ 5min | Range of L ₉₀ 5min |
| MA | 64.9 – 70.8 | 67.2 – 73.6 | 61.4 – 64.6 |

Note(*): A façade correction of +3 dB(A) was applied.

Table 3.7 Summary of Additional Impact Noise Monitoring Results during Evening Time (1900 – 2300 hours)

| Location | Measured Noise Level in dB(A)* | | |
|----------|--------------------------------|-------------------------------|-------------------------------|
| | Range of L _{eq} 5min | Range of L ₁₀ 5min | Range of L ₉₀ 5min |
| MA | 59.0 – 64.8 | 60.0 – 67.7 | 52.3 – 61.6 |

Note(*): A façade correction of +3 dB(A) was applied.

Table 3.8 Summary of Additional Impact Noise Monitoring Results during Night Time (2300 – 0700 hours)

| Location | Measured Noise Level in dB(A)* | | |
|----------|--------------------------------|-------------------------------|-------------------------------|
| | Range of L _{eq} 5min | Range of L ₁₀ 5min | Range of L ₉₀ 5min |
| MA | 57.7 – 59.9 | 59.0 – 60.9 | 56.2 – 58.7 |

Note(*): A façade correction of +3 dB(A) was applied.

4. WASTE

- 4.1 The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials.
- 4.2 As advised by the Contractor, 0 m³ of C&D material was generated on site in the reporting month. For C&D waste, no metals were generated and collected by registered recycling collector. 0 kg of paper was generated on site and collected by the registered recycling collector. No plastic waste was collected by registered recycling collector. 0 L of chemical waste was collected by the licensed chemical waste collector. 19.5 m³ of other types of wastes (e.g. general refuse) were generated on site and disposed of at designated landfill. 10,182.5 m³ of fill rock and 12,780.0 m³ of fill sand were imported during the reporting period.
- 4.3 5,277.82 m³ of dredged sediment in bulk quantity was dumped according to its dumping permit (EP/MD/20-125) during the reporting period.
- 4.4 Chemical waste generated from the cleaning of oil stain and leakage on deck of barges was stored in the chemical waste storage area on the barges.
- 4.5 With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix K**.

Table 4.1 Quantities of Waste Generated from the Project during April 2020

| Reporting Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | | |
|--------------------------|--|--|--------------------------|--------------------------|--------------------------|---------------|-------------|-------------|---|-----------------------------|-----------------------|----------------|--------------------------|--|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | | | Metals | Paper / cardboard packaging | Plastics (see Note 2) | Chemical Waste | | Others, e.g. general refuse (see Note 3) |
| | | | | | | Sand | Public Fill | Rock | | | | (in ,000kg) | (in ,000L) | |
| (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | | | (in ,000kg) | (in ,000kg) | (in ,000kg) | (in ,000kg) | (in ,000L) | (in ,000m ³) | |
| April 2020 | 0 | 0 | 0 | 0 | 0 | 12.78 | 0 | 10.1825 | 0 | 0 | 0 | 0 | 0 | 0.0195 |

- Notes: (1) Broken concrete for recycling into aggregates.
 (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 (3) Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5m³ by volume.

4.6 Although there is not much waste generation anticipated in the coming month from the Project, the Contractor is advised to sort and store any solid and liquid waste on-site properly prior to disposal.

5. CORAL

5.1 Coral Monitoring Requirements

5.1.1 To monitor the health condition of corals during different phases, corals located within areas likely to be affected by the Project, corals located at control sites (areas unlikely to be affected by the Project), the trans-located coral colonies as well as the tagged natural coral colonies at the recipient site were chosen, in order to identify any adverse indirect impact from the marine works. The size, percentage cover and health condition of corals (i.e. any sign of abnormal appearance, such as layer of mucus, bleaching, partial mortality etc.) at representative transects should be recorded during each monitoring.

5.2 Coral Monitoring Parameters, Time, Frequency

5.2.1 Rapid Ecological Assessment (REA) survey was conducted on 26 June 2018 at the suggested control site and indirect impact site within two weeks before commencement of the construction work which was 29 June 2018. 10 selected hard coral colonies with the similar species were tagged at both control and indirect impact sites. Following coral translocation in the recipient site R3, 16 coral colonies attached to rocks less than 50 cm in diameter were translocated and tagged, as well as 10 selected natural coral colonies, at the recipient site. One additional REA survey was conducted in December 2018 to further assess the seabed condition at Indirect Impact Site after Typhoon Mangkhut.

5.2.2 Tagged coral colonies at the suggested control site and indirect impact site are being monitored weekly for the first month and followed by monthly monitoring for two months. Quarterly monitoring will be carried out after the first three-months monthly monitoring for until the end of the construction phase. The selected Control Site is located at Yuen Kong Chau of Soko Islands about 7 km away from the project area. Tagged coral colonies at the proposed recipient site are being monitored quarterly for one year. The selected recipient site R3 is located at the opposite side of the Project area at about 2 km away. The detailed survey of the Control Site and Impact Site were conducted before the commencement of the Construction Phase.

5.2.3 Monitoring recorded the following parameters (using the same methodology adopted during the pre-translocation survey); the size, presence, health conditions (percentage of mortality/bleaching) and percentage of sediment of each tagged coral colony. The general environmental conditions including weather, sea, and tidal conditions of impact site, control site and recipient site were monitored.

5.2.4 **Table 5.1** summarizes the monitoring locations, time and frequency of the tagged coral colonies monitoring. The monitoring schedule is provided in **Appendix C**.

Table 5.1 Tagged Coral Monitoring Locations, Time and Frequency

| Monitoring Location | Monitoring Month/Year | Frequency | No. of Monitoring Survey |
|--|---|---|--------------------------|
| 10 selected hard coral colonies at control site / indirect impact site | 1 st Month | Weekly Survey | 4 |
| | 2 nd to 3 th Months | Monthly Survey | 2 |
| | 4 th Month (postponed to 5 th month due to diver accident in Shek | Re-tagging of Coral Colonies in Indirect Impact Site after Typhoon Mangkhut | |

| Monitoring Location | Monitoring Month/Year | Frequency | No. of Monitoring Survey |
|--|--|---|--------------------------|
| | Kwu Chau in October 2018) | | |
| | 4 th Month (postponed to 5 th month due to diver accident in Shek Kwu Chau in October 2018 and further postpone to 6 th month due to adverse weather) | Re-tagging of Coral Colonies in Control Site after Typhoon Mangkhut | |
| | 5 th Month (postponed to 6 th month due to diver accident in Shek Kwu Chau and further postponed to 7 th month due to delay of re-tagging activities at both Indirect Impact Site and Control Site) | Post Re-tagging Monthly Survey | 1 |
| | 7 th to 76 th Months (postponed to 8 th to 76 th month due to diver accident in Shek Kwu Chau in October 2018) | Quarterly Survey | 23 |
| 16 translocated hard coral colonies and 10 selected natural hard coral colonies at recipient site R3 | 1 st Year | Quarterly Survey | 4 |

5.3 Coral Monitoring Locations

5.3.1 Location of the ten tagged coral colonies at each of the proposed indirect impact site (re-tagging after typhoon Mangkhut), control site (baseline) and recipient site R3 (translocation) are shown in **Figure 5.1**, **Figure 5.2** and **Figure 5.3** respectively:

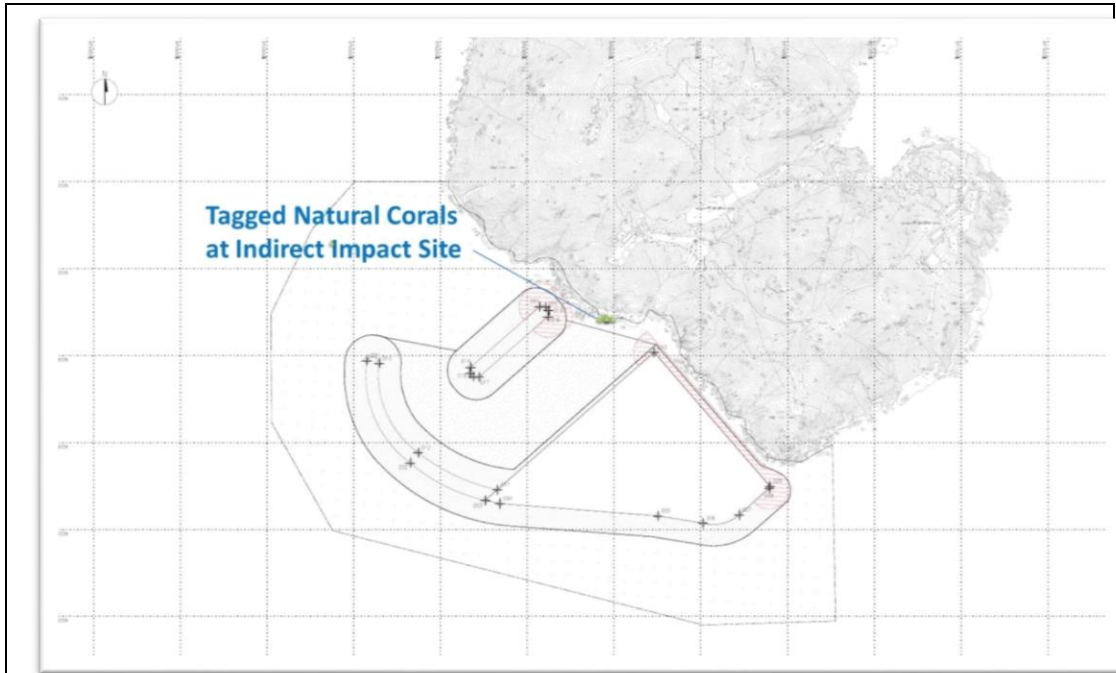


Figure 5.1 Tagged Natural Corals at Indirect Impact Site Near SKC for re-tagging after typhoon Mangkhut



Figure 5.2 Tagged Natural Corals at Control Site Near Yuen Kong Chau for re-tagging after typhoon Mangkhut



Figure 5.3 Tagged Translocation Corals at Recipient Site R3 near SKC

5.3.2 The GPS coordinates of the tagged coral colonies, retagged coral colonies and recipient site were shown in **Table 5.2**, **Table 5.3** and **Table 5.4** respectively.

Table 5.2 Tagged Natural Corals during Baseline and Re-tagged Natural Corals after Typhoon Manghkut at Control Site near Yuen Long Chau

| Coral # | GPS Coordinates | |
|---------|-----------------|----------------|
| 1 | N22°09'45.96" | E113°54'57.81" |
| 2R | N22°11'29.12" | E113°59'09.01" |
| 3 | N22°09'45.81" | E113°54'57.78" |
| 4 | N22°09'45.70" | E113°54'57.95" |
| 5R | N22°11'29.10" | E113°59'09.18" |
| 6 | N22°09'45.75" | E113°54'58.02" |
| 7R | N22°11'29.17" | E113°59'08.86" |
| 7 | N22°09'45.65" | E113°54'57.94" |
| 8 | N22°09'45.53" | E113°54'57.90" |
| 9 | N22°09'46.23" | E113°54'54.70" |
| 10R | N22°11'29.18" | E113°59'08.91" |

Notes:

- i. The re-tagged corals were marked as ##R.

Table 5.3 Re-tagged Natural Corals after Typhoon Manghkut at Indirect Impact Site near SKC

| Coral # ^{note i} | GPS Coordinates | |
|---------------------------|-----------------|----------------|
| 11R | N22°11'29.14" | E113°59'08.92" |
| 12R | N22°11'29.12" | E113°59'09.01" |
| 13R | N22°11'29.11" | E113°59'09.07" |
| 14R | N22°11'29.13" | E113°59'09.12" |
| 15R | N22°11'29.10" | E113°59'09.18" |

| Coral # ^{note i} | GPS Coordinates | |
|---------------------------|-----------------|----------------|
| 16R | N22°11'29.07" | E113°59'09.23" |
| 17R | N22°11'29.17" | E113°59'08.86" |
| 18R | N22°11'29.14" | E113°59'08.94" |
| 19R | N22°11'29.20" | E113°59'08.81" |
| 20R | N22°11'29.18" | E113°59'08.91" |

Notes:

- i. The re-tagged corals were marked as ##R.

Table 5.4 GPS Coordinates of Recipient Site R3

| Site | GPS Coordinates | |
|------|-----------------|-------------|
| R3 | N22°11'43.69" | E113°28.99" |

5.4 Impact Monitoring Methodology

5.4.1 Health status of coral was assessed by the following criteria:

- Hard coral: Percentage of surface area exhibiting partial mortality and blanched/bleached area of each coral colony and degree of sedimentation.

5.5 Action and Limit Levels

5.5.1 Monitoring result was reviewed and compared against the below Action Level and Limit Level (AL/LL) as set with the below **Table 5.5** and **Table 5.6**.

Table 5.5 Action and Limit Levels for Construction Phase Coral Monitoring

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

Table 5.6 Action and Limit Levels for Post-Translocation Coral Monitoring

| Parameter | Action Level | Limit Level |
|------------------|--|---|
| Mortality | If during Post-Translocation Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals in the recipient site, then the Action Level is exceeded. | If during Post-Translocation Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals in the recipient site, then the Limit Level is exceeded. |

5.5.2 If exceedance was found during coral monitoring. The actions in accordance with the Event and Action Plan should be carried out according to **Appendix L**.

5.6 Monitoring Results and Observations

5.6.1 No coral monitoring survey had been done during the reporting period and the 6th quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site would be schedule in June 2020.

6. MARINE MAMMAL

6.1 Monitoring Requirements

6.1.1 The marine mammal monitoring programme would focus on Finless Porpoise, as the study area near Shek Kwu Chau has been identified as a hotspot for this species, while the Chinese White Dolphins rarely occurred there in the past.

6.1.2 The monitoring will verify the predicted impacts on marine mammals, and examine whether the mitigation measures recommended in the EIA report have been effectively implemented to protect marine mammals from negative impacts from construction activities.

6.1.3 The Vessel-based Line-transect Survey, the Passive Acoustic Monitoring and the Land-based Theodolite Tracking will be conducted to provide systematic, quantitative measurements of occurrence, encounter rate, habitat use, movement and behavioural patterns of marine mammals within or near the Project Area during construction and operational phases.

6.1.4 The mammal monitoring works during construction consist of the following three survey methods:

- Vessel-based Line-transect Survey – to monitor the occurrence of Finless Porpoises (and Chinese White Dolphins) in the study area during construction works, by comparing with the findings of the pre-construction marine mammal monitoring;
- Passive Acoustic Monitoring – to study the usage of the Project Area and two control sites in South Lantau Waters by Finless Porpoise during construction works, in reference with the baseline findings of the pre-construction marine mammal monitoring; and
- Land-based Theodolite Tracking – to study the movement and behavioral pattern of Finless Porpoise within and around the Project Area during construction works.

6.1.5 The marine mammal observation works of Marine Mammal Exclusion Zone (MMEZ) and Marine Mammal Watching as two of the specific mitigation measures recommended in the approved EIA report shall be fully and properly implemented for the Project to minimize disturbance on Finless Porpoise during construction and operational phases.

6.2 Survey Methods

6.2.1 Vessel-based Line-transect Survey

6.2.1.1 For the vessel-based marine mammal surveys, the monitoring team adopted the standard line-transect method (Buckland et al. 2001) as same as that adopted during the EIA study and pre-construction phase monitoring to allow fair comparison of marine mammal monitoring results.

6.2.1.2 Eight transect lines are set at Southeast Lantau survey area, including Shek Kwu Chau, waters between Shek Kwu Chau and the Soko Islands, inshore waters of Lantau Island (e.g. Pui O Wan) as well as southwest corner of Cheung Chau as shown in **Figure 6.1** below:

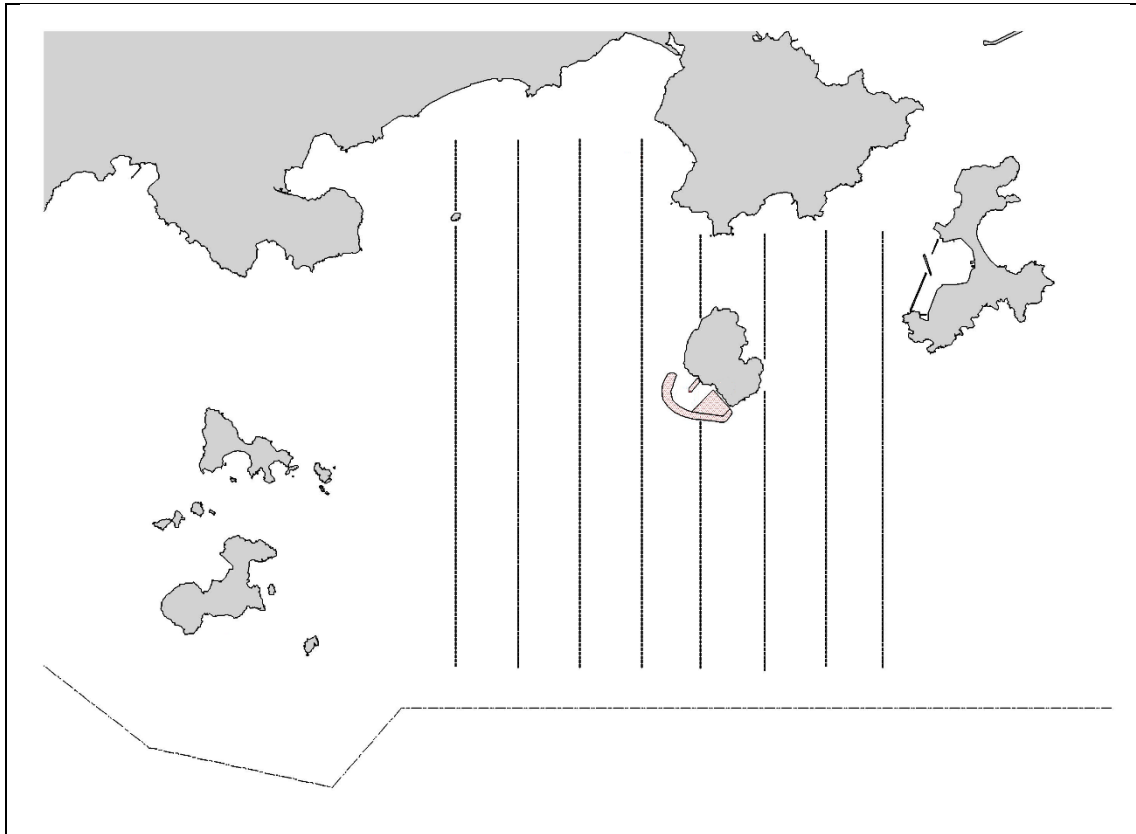


Figure 6.1 Line Transects for Marine Mammal Surveys

6.2.1.3 The surveys should cover all 4 seasons in order to take natural fluctuation and seasonal variations into account for data analysis of distribution, encounter rate, density and habitat use of both porpoises and dolphins (if any). In comparison to the baseline monitoring results, results from the analysed construction phase monitoring data would allow the detection of any changes of their usage of habitat, in response to the scheduled construction works. The monitoring surveys shall be conducted throughout the construction phase involving marine construction work with the frequency shown in **Table 6.1** below:

Table 6.1 Vessel-based Line-transect Survey Frequency

| Season | Months | Frequency |
|-----------------|---|-----------------|
| Peak Season | December, January, February, March, April & May | Twice per month |
| Non-peak Season | June, July, August, September, October & November | Once per month |

6.2.1.4 For each vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) would be used to make observations from the flying bridge area. Two experienced marine mammal observers (a data recorder and a primary observer) would make up the on-effort survey team, and the survey vessel would transit different transect lines at a constant speed of 13-15 km per hour. The data recorder shall search with unaided eyes and fill out the datasheets, while the primary observer shall search for dolphins and porpoises continuously through 7 x 50 marine binoculars. Both observers shall search the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). Two additional experienced observers shall be available on the boat to work in shift (i.e. rotate every 30 minutes) in order

to minimize fatigue of the survey team members. All observers shall be experienced in small cetacean survey techniques and identifying local cetacean species with extensive training by marine mammal specialist of the ET.

- 6.2.1.5 During on-effort survey periods, the survey team shall record effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance travelled in each series (a continuous period of search effort) with the assistance of a handheld GPS (Garmin eTrex Legend). Data including time, position and vessel speed would also be automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 6.2.1.6 When porpoises or dolphins are sighted, the survey team shall end the survey effort, and immediately record the initial sighting distance and angle of the porpoise or dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel shall be diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, behavioural observations, and collection of identification photos (feasible only for Chinese White Dolphin). The perpendicular distance (PSD) of the porpoise or dolphin group to the transect line would then be calculated from the initial sighting distance and angle, which shall be used in the line-transect analysis for density and abundance estimation.
- 6.2.1.7 The line-transect survey data shall be integrated with a Geographic Information System (GIS) to visualize and interpret different spatial and temporal patterns of porpoise and dolphin distribution using their sighting positions collected from vessel surveys. Location data of porpoise and dolphin groups would be plotted on map layers of Hong Kong using a desktop GIS (e.g. ArcView© 3.1) to examine their distribution patterns in details. The encounter rate could be used as an indicator to determine areas or time periods of importance to porpoises within the study area. For encounter rate analysis of finless porpoises, only survey data collected under Beaufort 2 or below condition would be used for encounter rate analysis.
- 6.2.1.8 To take into account of the variations of survey effort across different sections within survey area, the quantitative grid analysis of habitat use would be conducted to examine finless porpoise usage among 1-km² grids within the Southeast Lantau survey area. For the grid analysis, SPSE (sighting density) and DPSE (porpoise density) values would be deduced for evaluation on level of porpoise usage. First, positions of on-effort porpoise sightings from the study period are plotted onto 68 grids (1 km x 1 km each) within the survey area. Sighting density grids and porpoise density grids shall then be normalized with the amount of survey effort conducted within each grid. The total amount of survey effort spent on each grid shall be calculated by examining the survey coverage on each line-transect survey to determine how many times the grid had been surveyed during study period. With the amount of survey effort calculated for each grid, the sighting density and porpoise density of each grid shall be further normalized (i.e. divided by the unit of survey effort).
- 6.2.1.9 The newly-derived unit for sighting density was termed SPSE, representing the number of on-effort sightings per 100 units of survey effort. In addition, the derived unit for actual porpoise density was termed DPSE, representing the number of dolphins/porpoise per 100 units of survey effort. Among the 1-km² grids that were partially covered by land, the percentage of sea area was calculated using GIS tools, and their SPSE and DPSE values were adjusted accordingly. The following formulae shall be used to estimate SPSE and DPSE in each 1-km² grid within the study area:

$$SPSE = ((S / E) \times 100) / SA\%$$

$$DPSE = ((D / E) \times 100) / SA\%$$

where S = total number of on-effort sightings
 D = total number of dolphins/porpoises from on-effort sightings
 E = total number of units of survey effort
 SA% = percentage of sea area

6.2.2 Passive Acoustic Monitoring (PAM)

The PAM aims to study the usage of an area by Finless Porpoise by using an array of automated static porpoise detectors (e.g. C-POD) which would be deployed at different locations to detect the unique ultra-high frequency sounds produced by Finless Porpoise. During the construction period, the PAM survey will be conducted including placement of two passive porpoise detectors outside the Project Area as control site (i.e. within Pui O Wan and to the south of Tai A Chau) and one porpoise detector within the Project Area (i.e. near Shek Kwu Chau) as shown in **Figure 6.2** below.

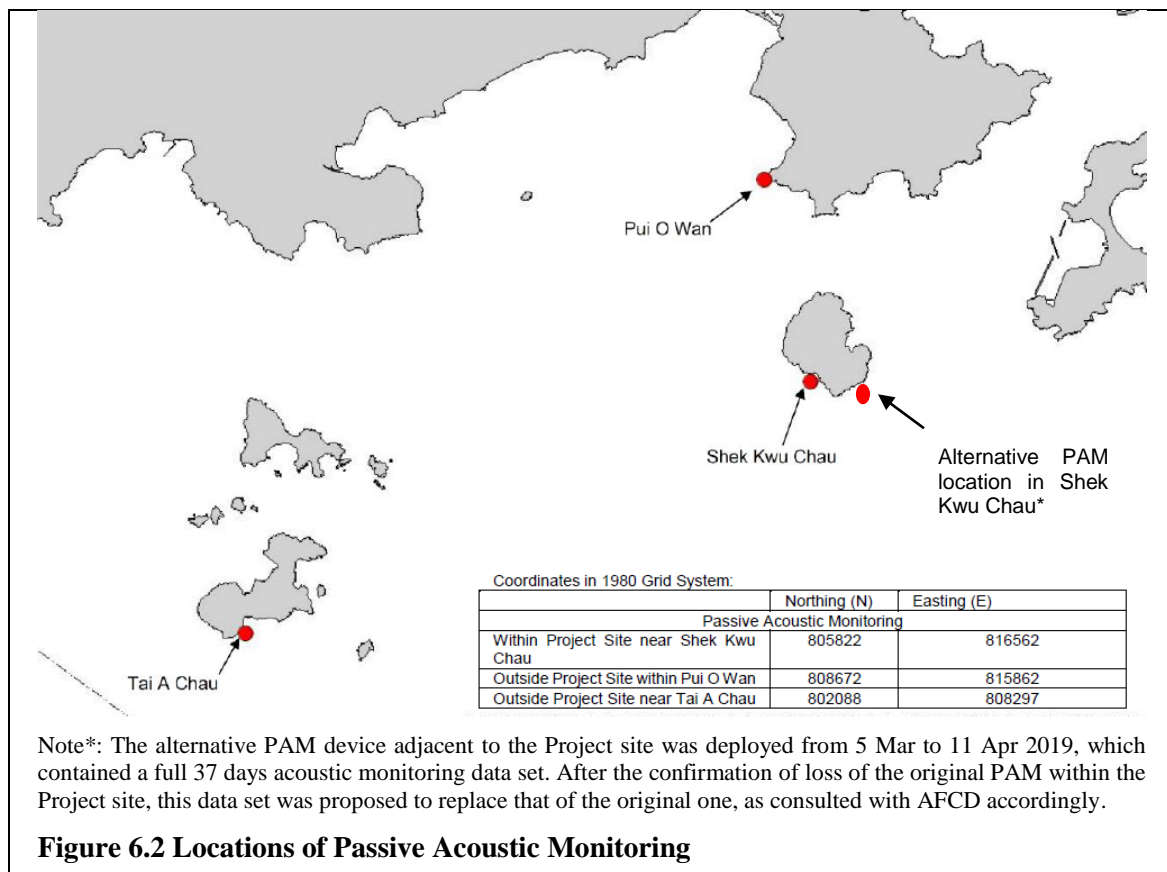


Figure 6.2 Locations of Passive Acoustic Monitoring

6.2.3 These three detectors will be deployed on-site to carry out 24-hours monitoring for a period listed as **Table 6.2** below during the construction phase.

Table 6.2 PAM Deployment Period

| Season | Months | Deployment Period |
|-------------|--|---|
| Peak Season | December, January, February, March, April or May | At least 30 days during the peak months of porpoise occurrence in South Lantau waters |

6.2.3.1 The automated static porpoise detectors shall detect the presence and number of finless porpoise and Chinese White Dolphins respectively over the deployment period, with the false signal such as boat sonar and sediment transport noise distinguished and filtered out. The detectors shall be deployed and retrieved by professional dive team on the seabed of the three selected location shown in **Figure 6.2**. During each deployment, the C-POD unit serial numbers as well as the time and date of deployments shall be recorded. Information including the GPS positions and water depth at each of the deployment locations shall also be obtained.

6.2.3.2 The diel patterns (i.e. 24-hour activity pattern) of finless porpoise occurrence among the three sites at Shek Kwu Chau, Tai A Chau and Pui O Wan shall be analyzed. Peaks and troughs of finless porpoise occurrence per hour of day would be identified and compared with the results obtained from pre-construction monitoring.

6.2.4 Land-based Theodolite Tracking

6.2.4.1 The Land-based Theodolite Tracking study would use the same station as in the AFCD monitoring study (same as the baseline monitoring location), which is situated at the southwest side of Shek Kwu Chau (GPS position: 22°11.47' N and 113°59.33' E) as shown in below **Figure 6.3**. The station was selected based on its height above sea level (at least 20 metres), close proximity to shore, and relatively unobstructed views of the entire Project Area to the southwest of Shek Kwu Chau. The height of the Shek Kwu Chau Station established by the HKCRP team is 74.6 m high at mean low water, and only a few hundred metres to the IWMF reclamation site, which is ideal for the purpose for the present behavioural and movement monitoring of finless porpoises as well during construction phase considering there as an un-obstructed vantage point at a height above the Project Site.

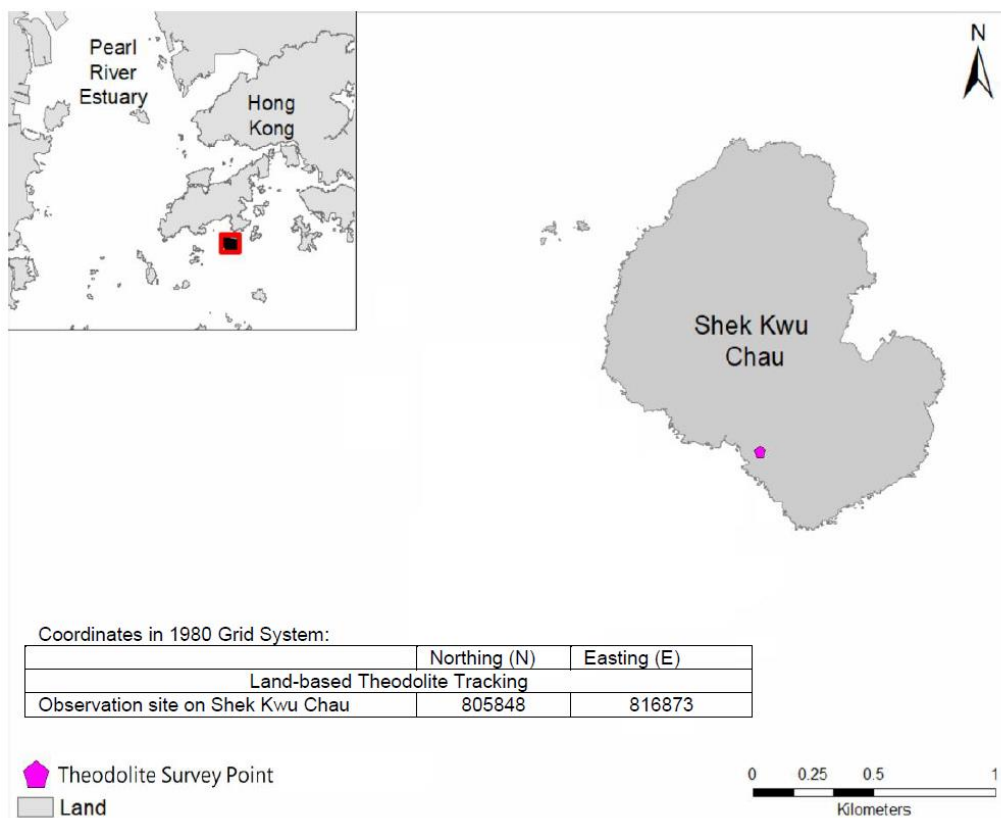


Figure 6.3 Locations of Land-based Theodolite Tracking

During the construction phase, Land-based Theodolite Tracking will be carried out for approximately six hours of tracking for each day of field work for a period listed as **Table 6.3** below, preferably at the initial stage of the construction period (i.e. December 2018 to May 2019).

Table 6.3 Land-based Theodolite Tracking Survey Period

| Season | Months | Survey Period |
|-------------|--|--|
| Peak Season | December, January, February, March, April or May | 30 days during the peak months of porpoise occurrence in South Lantau waters |

6.2.4.2 The monitoring period for land-based theodolite tracking will be proposed to be overlapped with the PAM. The monitoring team consists of one experienced theodolite operator and at least two field observers for assistance. To conduct theodolite tracking, the observers will search systematically for Finless Porpoise using the unaided eye and 7 x 50 handheld binoculars on each survey day throughout the study area. When an individual or group of porpoises is located, a theodolite tracking session will be initiated and focal follow methods will be used to track the porpoise(s). Behavioural state data (i.e. resting, milling, travelling, feeding and socializing) shall also be recorded every 5 minutes for the focal individual or group. Positions of porpoises and boats shall be measured using a digital theodolite connected to a laptop computer. This tracking survey was conducted during the peak season between December 2018 and May 2019 for 30 surveys spanning across 15-16 weeks during the peak season to provide good temporal coverage during the initial stage of the construction period.

6.3 Specific Mitigation Measures

6.3.1 Monitored exclusion zones

6.3.1.1 A MMEZ with 250 m distance from silt curtain shall be established during the above situation. If 3 or more construction vessels are required with MMO's duty and operating in close proximity, for the purpose of avoiding accidental entrance to the works area by Marine Mammal, a cluster MMEZ plan will be implemented to form a MMEZ with 250 m distance from the boundary of a work area as indicated in Figure 1 for reference. A team of MMO (i.e. at least two MMOs per day/night shift teams) would be arranged at the out-lying construction vessels to form the cluster MMEZ. The MMEZ serves as a monitoring approach to provide appropriate and immediate actions once finless porpoise or Chinese White Dolphin is sighted within the MMEZ. All MMEZ will be monitored by competent Marine Mammal Observers (MMOs) to be provided by the Environmental Team for the IWMF and trained by the Marine Mammal Monitoring Specialist of the ET who is independent from KSZHJV. The marine mammal observer(s) shall be independent of the construction contractor and shall form part of the Environmental Team and have the power to call-off construction activities.

6.3.1.2 According to the Condition 2.25 of the FEP, MMEZ should be implemented during the installation/re-installation/relocation process of floating type silt curtains in order to avoid the accidental entrance and entrapment of marine mammals within the silt curtains. Also, marine construction works expected to produce underwater acoustic disturbance as per Condition 2.27 of the FEP, especially within December and May,

would require the implementation of MMEZ, which currently all those specific construction activities have been replaced by less acoustically disturbing construction methods such as Deep Cement Mixing (DCM) and Precast Concrete Blocks Installation as discussed in Section 5.3 of the Detailed Monitoring Programme on Finless Porpoise, however, MMEZ would also be implemented for precautionary purpose for DCM works.

- 6.3.1.3 A MMEZ with 250 m distance from the boundary of a work area shall be established during the above situation. A typical MMEZ is indicated in **Figure 6.4** for reference. The MMEZ serves as a monitoring approach to provide appropriate and immediate actions once finless porpoise or Chinese White Dolphin is sighted within the MMEZ. All MMEZ will be monitored by competent Marine Mammal Observers (MMOs) to be provided by the Environmental Team (ET) for the IWMF and trained by the Marine Mammal Monitoring Specialist of the ET who is independent from KSZHJV.

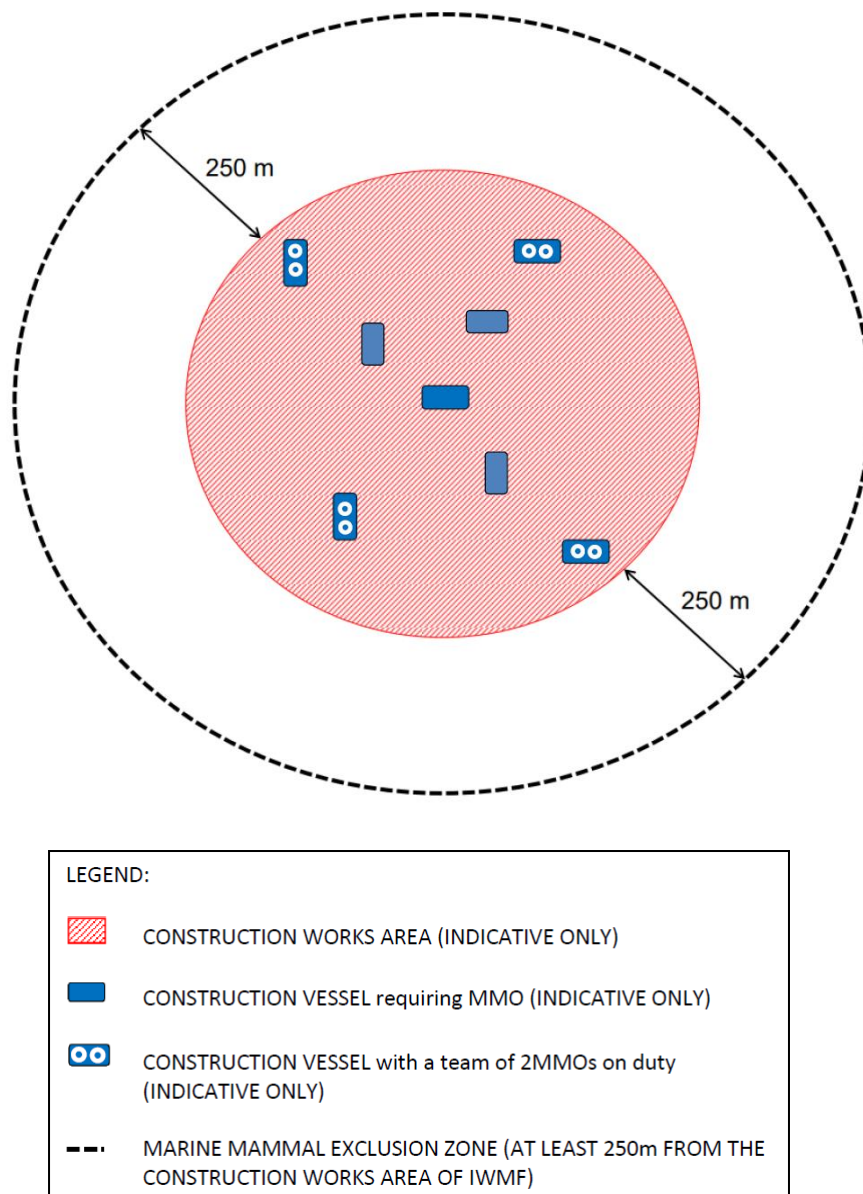


Figure 6.4 Illustration of Typical MMEZ

- 6.3.1.4 Prior to the commencement of construction activity, our MMOs shall ensure the boundary of a marine work area and setting up of the MMEZ for the work area and get access to the monitoring location on a barge or a lookout point where there is no obstructed views for monitoring the MMEZ during the construction activity. The MMEZ shall be scanned thoroughly by a MMO for any presence of marine mammal e.g. finless porpoise for an initial period of 30 minutes. Construction activity shall only be commenced after the MMO has confirmed that the MMEZ is clear of the marine mammal for the initial period of 30 minutes. The MMO shall then inform the construction superintendent through mobile phone or handheld transceivers to certify the commencement of construction activity. The MMEZ monitoring shall be carried on throughout the period for all active construction activities requiring implementation of MMEZ.
- 6.3.1.5 When any mammal marine, e.g. Finless Porpoise, is detected by the MMO within the MMEZ during construction, the MMO shall inform the construction superintendent immediately through mobile phone or handheld transceivers to cease construction activity within the MMEZ. Construction activity shall not be re-commenced until the MMO confirms that the MMEZ is continuously clear of marine mammal for a period of 30 minutes. The MMO shall then inform the construction superintendent through mobile phone or handheld transceivers to certify the re-commencement of construction activity.
- 6.3.1.6 As there could be a number of Contractors working at the same time within a work area for the IWMF project, a full contact list of MMEZ monitoring team members of the ET and the relevant responsible construction superintendents of the Contractor at the site shall be prepared, updated regularly and circulated to all parties involved in the MMEZ monitoring. With a full contact list, our MMOs shall be able to find out the contacts of corresponding persons in case of marine mammal sighting within and near the MMEZ or emergent occurrence of any unpredictable impact on marine mammal.
- 6.3.1.7 If a marine mammal is still observed in close vicinity but outside the MMEZ, the MMO shall inform the construction superintendent about the presence of marine mammal. The MMO shall remain in position and closely observe the movement of the marine mammal as well as searching for the appearance of any other marine mammal within the MMEZ. No matter the marine mammal is observed within or in close vicinity but outside the MMEZ, the construction superintendent or relevant persons shall inform all vessel captains involved in construction activities around the MMEZ to pay special attention of the presence of the marine mammal in order to reduce chance of collision with them. In case of injury or live-stranded marine mammal being found within the MMEZ, the marine mammal observer shall immediately inform the construction superintendent to suspend construction activities within the works area and contact AFCD through “1823” marine mammal stranding hotline.
- 6.3.2 Marine mammal watching plan
- 6.3.2.1 Upon the completion of silt curtain installation/re-installation/relocation, the marine works would be conducted within an enclosed environment within the silt curtain. Subsequently, Visual Inspection of the Waters Surrounded by Silt Curtains (Section 2.1, MMWP) and Regular Inspection of Deployed Silt Curtain (Section 2.2, MMWP) inspection under Marine Mammal Watching Plan would be implemented (where applicable, Marine Mammal Exclusion Zone shall be conducted at the meantime).

- 6.3.2.2 Before commencement of dredging/sand blanket laying work at each designated area, a trained MMO shall check whether position frame silt curtains are ready, well prepared and operated without any obvious damage. Also, the MMO shall confirm the presence of the relevant frontline staff of the main contractor or its sub-contractors and engineers on board to ensure the effective communication, coordination and implementation of the response plan in relation to any incidents involving marine mammals within the waters surrounded by the position frame type silt curtains and the work areas. Also, there are lookout points at an elevated level on each barge, clear and safe access at the edges of the derrick lighter/ flag-top barge for inspection during dredging/sand blanket laying works, provision of sufficient lighting is required if working at night.
- 6.3.2.3 During the operation, the inspection will be conducted daily. The MMO will walk along the edge of derrick lighter (DL) and flag-top barge (FB) along the position frame silt curtain or proper location without obstacles where appropriate to inspect the position frame silt curtain with naked eyes, the MMO will check that the position frame silt curtains are maintained in the correct positions with no obvious defects / entanglement and there is no observable muddy water passing through the position frame silt curtain system. Any floating refuse trapped by the silt curtain shall be removed as part of the regular inspection. For night inspection, spotlight will be used to provide sufficient brightness to assist the inspection in dark condition.
- 6.3.2.4 For the re-deployment of the localized silt curtains (frame-type, cage-type or enclosed floating-type silt curtains), MMO will conduct visual inspection to confirm that there is no presence of marine mammal within the localized silt curtains (frame-type, cage-type or enclosed floating-type silt curtains). Visual inspection will be conducted every an hour by MMO for confirming that there is no any marine mammal observed in the surrounding area of the deployed silt curtain during re-deployment of localized silt curtains (frame-type, cage-type or enclosed floating-type silt curtains). The duration will be subject to various conditions, e.g. weather or angle of observation. The works can only commence after confirming that the surrounding waters of the localized silt curtains has not contain any marine mammal. Thereafter, frontline staff, i.e. foremen, site agent, superintendents and engineers will assist our MMO in implementing the plan from the active work fronts within the waters surrounded by the silt curtains throughout the work period. The MMO will conduct regular check every 60 minutes to observe the presence of any marine mammal around the localized silt curtain or being trapped by the localized silt curtain. The MMOs will also check if the localized silt curtains are in correct positions.
- 6.3.2.5 The MMO shall fill up our Marine Mammal Sighting Record Sheet. After inspection, those records should be kept properly and submitted to the project team. In case there is any marine mammal being found, the MMO should carry out the response actions and communicate with relevant parties to stop and then resume work after the discovered marine mammal leaves. After lifting up and mobilization of silt curtain, the MMO will repeat the procedures of regular and visual inspection until the end of the construction works.
- 6.3.2.6 Each lookout point will have an unobstructed view to waters around the DL and FB. The MMO will move around the DL and FB to establish a clear and unobstructed view as much as they can without compromising the safety concern. When appropriate, the lookout point can be replaced by a proper location if unobstructed view can be assured.

6.4 Results and Observations

6.4.1 Vessel-based Line-transect Survey

6.4.1.1 The monthly survey was conducted on 16 & 28 April 2020. As this is the designated peak season (December – May), two surveys were completed. A total of 81.1 km on effort (transects only) survey length was completed, 45.6 km was conducted at Beaufort Sea State 2 or better (**Table 6.4**). Fifteen finless porpoise sightings were recorded, thirteen were on effort and two were opportunistic. (**Table 6.5, Figure 6.5 & 6.6**).

Table 6.4 Summary of Vessel-based Line-transect Survey Effort

| Date | Area* | Beaufort | Effort (km) | Season | Vessel | Effort Type** |
|-------------|-------|----------|-------------|--------|--------|---------------|
| 16 Apr 2020 | SEL | 1 | 30.0 | SPRING | SMRUHK | P |
| | | 2 | 10.8 | SPRING | SMRUHK | P |
| 28 Apr 2020 | SEL | 1 | 1.8 | SPRING | SMRUHK | P |
| | | 2 | 3.0 | SPRING | SMRUHK | P |
| | | 3 | 13.5 | SPRING | SMRUHK | P |
| | | 4 | 22.0 | SPRING | SMRUHK | P |

* As shown in **Figure. 6.1**

** P (from AFCD) denotes the ON EFFORT survey on the transect line, not the adjoining passages

Table 6.5 Sightings recorded during April 2020 Vessel-based Line-transect Survey

| Date | Species | Sighting No. | Time | Group Size | PSD | Behaviour | Lat. | Long. | Area | Effort | Season |
|-------------|------------------|--------------|-------|------------|-----|----------------|---------|-----------|------|--------|--------|
| 16 Apr 2020 | Finless Porpoise | 51 | 10:31 | 2 | 50 | Travelling | 22.1737 | 1144.0027 | SEL | ON | SPRING |
| | Finless Porpoise | 52 | 10:40 | 5 | 77 | Travelling | 22.1806 | 114.0033 | SEL | ON | SPRING |
| | Finless Porpoise | 53 | 11:12 | 1 | N/A | Unknown | 22.1937 | 113.9962 | SEL | OPP | SPRING |
| | Finless Porpoise | 54 | 11:15 | 1 | 72 | Unknown | 22.1851 | 113.9935 | SEL | ON | SPRING |
| | Finless Porpoise | 55 | 11:22 | 5 | 15 | Surface Active | 22.1817 | 113.9937 | SEL | ON | SPRING |
| | Finless Porpoise | 56 | 11:46 | 6 | 0 | Multiple | 22.1753 | 113.9835 | SEL | ON | SPRING |
| | Finless Porpoise | 57 | 12:31 | 4 | 10 | Unknown | 22.1860 | 113.9733 | SEL | ON | SPRING |
| | Finless Porpoise | 58 | 12:34 | 1 | 79 | Unknown | 22.1788 | 113.9735 | SEL | ON | SPRING |
| | Finless Porpoise | 59 | 12:47 | 9 | 132 | Surface Active | 22.1751 | 113.9635 | SEL | ON | SPRING |
| | Finless Porpoise | 60 | 12:57 | 5 | 72 | Surface Active | 22.1841 | 113.9637 | SEL | ON | SPRING |
| | Finless Porpoise | 61 | 13:41 | 3 | N/A | Travelling | 22.1863 | 113.9536 | SEL | OPP | SPRING |
| | Finless Porpoise | 62 | 13:50 | 1 | 79 | Travelling | 22.1830 | 113.9536 | SEL | ON | SPRING |
| | Finless Porpoise | 63 | 14:04 | 11 | 79 | Surface Active | 22.1744 | 113.9446 | SEL | ON | SPRING |
| | Finless Porpoise | 64 | 14:20 | 5 | 48 | Others | 22.1837 | 113.9443 | SEL | ON | SPRING |
| 28 Apr 2020 | Finless Porpoise | 65 | 10:14 | 5 | 0 | Travelling | 22.1768 | 114.0123 | SEL | ON | SPRING |

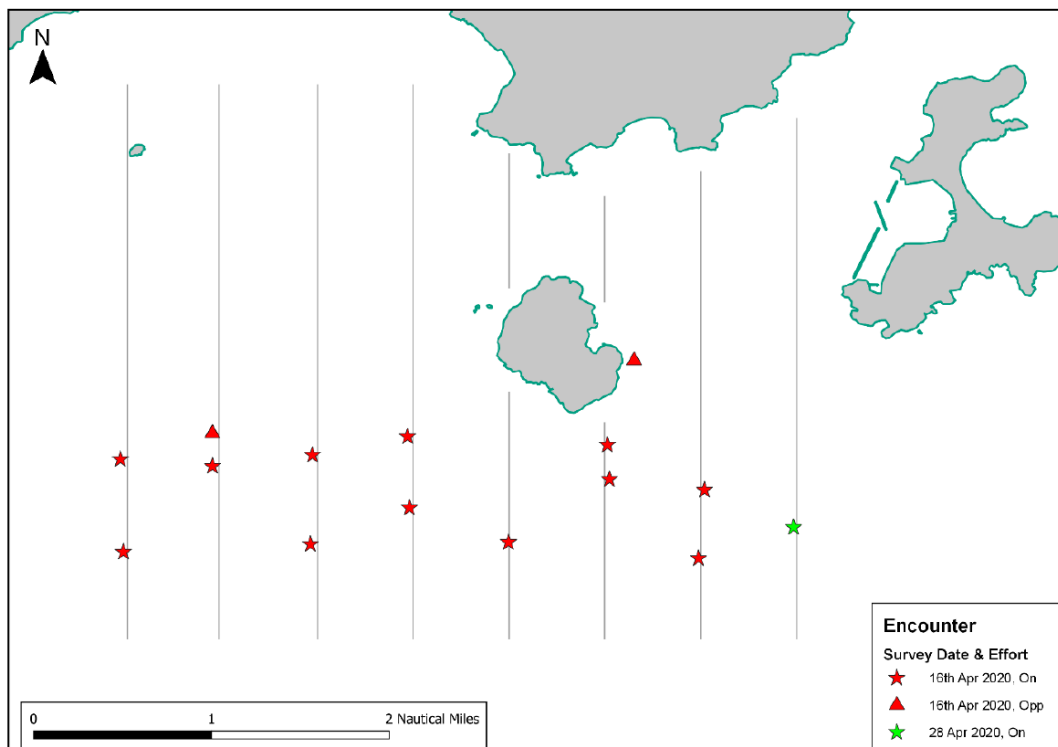


Figure 6.5 Location of sightings recorded during April 2020 Vessel-based Line-transect Survey

6.4.1.2 A review of the long term AFCD marine mammal monitoring programme, the EIA and the pre-construction baseline monitoring report for this project was conducted. Pre-construction baseline monitoring was conducted in Feb - Apr 2018 and the EIA was conducted during the peak porpoise months (Dec 2008 to May 2009). The AFCD long term monitoring data, the EIA information, April 2018 baseline survey and April 2019 impact survey result could be compared directly to April 2020 Impact Survey results. It was noted that the 10th month of impact monitoring is April 2019 and these data were included.

A review of the Beaufort Sea State in April survey conditions between 2009 and 2019 (only data available from AFCD at time of writing; (AFCD 2018¹; 2017²; 2016³; 2015⁴; 2014⁵; 2013⁶; 2012⁷; 2011⁸; 2010⁹), EIA 2009 and Baseline 2018 & Impact 2019) show that between 31.4 % and 100 % of survey effort had been conducted at Beaufort Sea State 2 or better in the past. During the EIA, 77.8 % of the survey effort was conducted at Beaufort 2 or better. During April 2019 Impact monitoring, 73.6% of the survey effort was conducted at Beaufort 2 or better. For this project in April 2020, 56.2 % of the survey was conducted at Beaufort Sea State 2 or better and, as such, survey conditions in April 2020 were within the % limits of previous AFCD surveys.

6.4.1.3 A review of the porpoise sightings in the survey area for April between 2009-2019 indicated that there were fluctuations between the number of sightings usually recorded. For all weather conditions, and for the nine years data available, 2 years recorded two (2) sightings (2009 conducted by AFCD & Impact 2019 conducted by ET), 1 year recorded three (3) sightings (2015 conducted by AFCD), 1 year recorded four (4) sightings (2010 conducted by AFCD), 3 years recorded seven (7) sightings (2009 conducted by EIA; 2011 & 2012 conducted by AFCD), 2 years recorded nine

(9) sightings (2013 & 2014 conducted by AFCD), 1 year recorded ten (10) sightings (2016 conducted by AFCD), 1 year recorded thirteen (13) sightings (Baseline 2018 conducted by AFCD) and 1 year recorded fourteen (14) sightings (2017 conducted by AFCD). For impact monitoring in 2020 conducted by ET, fifteen (15) finless porpoise sightings were made, two (2) were opportunistic and thirteen (13) were on effort. Effort varied considerably between years and the average number of sightings (per km) varied between 0.02 and 0.28 km⁻¹. For April 2019, the calculated encounter rate was 0.02 sightings km⁻¹. there is no trend in encounter rates recorded by the AFCD long term monitoring programme, i.e., the highest encounter rate was recorded in 2013 (9 sightings in only 31.66 km of effort) and the lowest in 2009 & 2015 (0.6 per km). For the baseline survey, the encounter rate for April 2018 was 0.10 sightings km⁻¹ and the EIA (2009) survey encounter rate was 0.12 km⁻¹. For April 2020, an encounter rate of 0.16 sightings km⁻¹ was calculated, which was higher than the average when compared to other years (pre impact survey period) and other survey types. The inherent variability for surveys focused on relatively small populations of highly mobile individuals was highlighted.

6.4.1.4 The impacts of the Project on marine mammals as predicted in the EIA were that construction activities would cause individuals to move away from the area. With only a small area being surveyed by vessels, with no control area, and as porpoise density was obviously low in such a small area, it was difficult to discern significant changes in sightings occurrence from vessel surveys alone. The sightings data presented in AFCD long term monitoring reports indicated that a sighting rate of 6.4 (per 40 km) for the month of April was higher than the average recorded, 5.4 sightings per 40km, since 2009 (all survey types), pre-construction phase, finless porpoise sightings ranged between 2.4 and 11.4 sightings per 40km, however, there was no significant trend within these years. Since construction commenced, there was a marked decrease (1.0 sighting per 40km in 2019) and then a considerable increase (6.4 sightings per 40 km in 2020) when compared to the baseline survey in 2018 (4.1 sightings per 40km). As porpoise were easier to detect acoustically rather than visually, this larger data set provided more details of porpoise occurrence during vessel-based surveys. Impact monitoring theodolite tracking data supported baseline monitoring data conclusions that indicated a correlation between construction site activities and porpoise occurrence. The high number of sightings in April 2020 also indicated that porpoise had remained in the area adjacent to the Project site in numbers comparable to previous AFCD monitoring.

6.4.1.5 This observation was only for daylight hours, and visual detection. The analyses of the static PAM dataset provided detailed information on diurnal occurrence patterns. Each static PAM station recorded porpoise at each site every day of the PAM study and therefore, showed that the area immediately adjacent to the Project site has not been abandoned during parts of the designated peak season for porpoise. It was noted that the encounter rate for April 2020 was higher than the impact monitoring result of April 2019, prior to early construction stage at SKC.

6.4.2 PAM and Land-based Theodolite Tracking

6.4.2.1 30 days of PAM surveys were started at 1 May 2019 and completed until the end of May 2019. Multiple PAM systems were deployed at three sites. The PAM system located at the IWMF was lost, however, an alternative data set had been identified. The PAM systems at the two control sites Tai A Chau and Pui O were recovered on 3 August 2019. A summary of marine mammal detections showed that porpoise were recorded every day of deployment at each site, but at varying frequencies. The detailed theodolite result was presented in 17th Monthly EM&A report (November

2019) while detailed PAM result was presented in 18th Monthly EM&A report (December 2019).

6.4.2.2 For the baseline study, the DPM for each site was 11,160 (Shek Kwu Chau), 16,089 (Tai A Chau) and 3645 (Pui O Wan), totalling 30,894 DPM across all three sites, compared to DPMs of 4740 (Shek Kwu Chau), 7725 (Tai A Chau) and 23,986 (Pui O Wan), totalling 36,451 DPM, for the impact phase study. As the impact phase study was longer than the baseline study, it is not appropriate to directly compare total counts of DPM, however, the DPM rate (the average number of detections per day) for each site can be more directly compared. During the baseline study, Shek Kwu Chau averaged 338.2 DPM per day compared to 124.8 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Shek Kwu Chau. During the baseline study, Tai A Chau averaged 487.6 DPM per day compared to 179.7 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Tai A Chau. During the baseline study, Pui O Wan averaged 98.5 DPM per day compared to 557.8 DPM per day, during the impact phase study. This showed a significant increase in the daily average of porpoise detections at Pui O Wan.

6.4.2.3 Overall, the PAM study showed that porpoise continue to consistently utilise the Shek Kwu Chau habitat immediately adjacent to the IWWMF construction activities, although to a lesser degree than that prior to construction activities. In addition, the Pui O Wan site, which is 2.5 km away from the IWWMF construction area, was also consistently utilised during the impact phase PAM study. A continued assessment of fine scale habitat use, particularly through PAM which yielded large quantities of data, would allow a more comprehensive assessment of the EIA predictions.

6.4.2.4 Theodolite surveys were completed in May 2019. In total, thirty four days of theodolite tracking were completed between February - May 2019, comprising 167 hours and 49 minutes of observation. No Chinese white dolphin was observed and only one finless was recorded. The finless porpoise encounter rate was calculated as 0.006 finless porpoise per hour, in all weather conditions.

6.4.2.5 A total of 2620 vessels of ten different types were observed and tracked within or in the proximity of the IWWMF construction site. These comprised fishing boats (236), speed boats (29), container boats (155), government boats (22), high speed ferries (53), others (13) and IWWMF-Related construction platforms (974), tug boats(240), transportation boats (363), construction boats (531 and approximately 8 buoys were present marking the site boundary.

6.4.2.6 The baseline theodolite tracking was conducted immediately prior to and during the site preparation activities of the site. The baseline data records a decrease in porpoise sightings as site preparation activities commenced and notes that the decrease was most likely due to the onset of site preparation activities. The impact theodolite tracking conducted for this study records a marked increase in the number of Project related vessels and platforms and, in agreement with baseline conclusions, shows a concomitant decrease in finless porpoise sightings.

6.4.3 Specific Mitigation Measures

Silt curtains were deployed for DCM during the reporting period. Teams of two MMO were on duty for continuous monitoring of the Marine Mammal Exclusion Zone (MMEZ) for DCM works, cluster MMEZ installation/re-installation/relocation process of silt curtains, and the marine mammal trapping checking and silt curtains inspection

in accordance with the Detailed Monitoring Programme of Finless Porpoise and Marine Mammal Watching Plan respectively. Trainings for the MMO were provided by the ET prior to the aforementioned works, with a cumulative total of 98 individuals being trained and the training records kept by the ET. From the Marine Mammal Watching observation records and MMEZ monitoring log records, no Finless Porpoise or other marine mammals were observed within or around the MMEZ and silt curtains in the reporting month.

6.4.4 References

1. Agriculture, Fisheries and Conservation Department (AFCD) 2018. *Annual Marine Mammal Monitoring Programme April 2017-March 2018*) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR.
http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_chi_chi/con_mar_chi_chi.html
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8. Agriculture, Fisheries and Conservation Department (AFCD) 2011. *Annual Marine Mammal Monitoring Programme April 2010-March 2011*) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR.
http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_chi_chi/con_mar_chi_chi.html

9. Agriculture, Fisheries and Conservation Department (AFCD) 2010. *Annual Marine Mammal Monitoring Programme April 2009-March 2010*) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR.
http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_chi_chi/con_mar_chi_chi.html

7. WHITE-BELLIED SEA EAGLE

7.1 Monitoring Requirement

7.1.1 On Shek Kwu Chau Island, a nest of WBSE is located about 60 m above ground within a hillside shrubland habitat, 130 m in-land from shore, about 550 m away from the proposed reclaimed land, with no human access. 3 phases monitoring programme will be comprised of pre-construction phase, construction phase and operation phase.

7.1.2 The Pre-Construction WBSE monitoring was started on 30 January 2018 and the location of WBSE nest was confirmed on 21 February 2018 and it is located at the western part of SKC Island (Figure 7.1). Two adults and two chicks were also recorded on 5th March 2018 survey till the end of the Pre-construction monitoring on 15th May 2018. Construction Phase monitoring were carried out followed by the commencement of the Construction Phase on 28th June 2018.

7.2 WBSE Monitoring Parameters, Time, Frequency

7.2.1 The objective of the construction phase monitoring should be to verify the utilisation of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Throughout the construction phase, field surveys should be conducted twice per month during their core breeding season (from December to May), and once per month outside their core breeding season (from June to November). The monitoring frequency should be increased to weekly during the incubation period of each year. In order to confirm their foraging ground near the construction site, it is necessary to conduct daily monitoring during the first week of nestling period in each year.

7.2.2 Since the location of the WBSE nest was located at the southwest of SKC within the hillside shrubland, it is impossible to observe the eggs during incubation period. Therefore, monitoring with increased frequency during incubation period could not be carried out. Daily monitoring will be carried out once any chick is recorded during the monitoring day. The monitoring schedule during the reporting period is provided in **Appendix C**.

7.3 Monitoring Location

7.3.1 Since there are no suitable land footings along the coast of SKC, only boat surveys were conducted. On Shek Kwu Chau Island, a nest of WBSE is located about 60 m above ground within a hillside shrubland habitat, 130 m in-land from shore, about 550 m away from the proposed reclaimed land, with no human access.

7.4 Monitoring Methodology

7.4.1 Information to be collected included feeding, perching/roosting, preening, soaring, flying, nesting and territorial guarding and the time spent on each activity. The responses and reactions to any disturbance to the WBSEs were also recorded and examined in conjunction with the construction noise and/or other events in the vicinity. Other disturbances such as weather condition, or invasion by other fauna species were also recorded.

7.4.2 Binocular, scope, camera, lens and GPS device used are summarized as **Table 7.1** below:

Table 7.1 List of Equipment Used during Construction Phase Monitoring

| Equipment | Quantity |
|---|----------|
| Swarovski EL 8.5 x 42 Binocular | 1 |
| Swarovski EL Range 8 x 42 Binocular | 1 |
| Swarovski ATX 25-60 x 85 Spotting Scope | 1 |
| Canon 1Dx Mark II Camera | 1 |
| Canon EF300mm F2.8 Lens with Canon 2x Teleconverter | 1 |
| Canon PowerShot G7X Camera | 1 |
| Garmin GPSMAP 64S | 1 |

7.4.3 If event such as absence of White-bellied Sea Eagle during a whole day of monitoring was found during WBSE monitoring, the actions in accordance with the Event and Action Plan should be carried out according to **Appendix M**.

7.5 Results and Observations

7.5.1 To verify the utilization of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Since there is no landing point along the western part of SKC, boat survey was used for the monitoring survey. In order to increase the chance of finding the WBSEs, monitoring survey was carried out early in the morning. The weather condition of monitoring survey was shown in **Table 7.2**.

Table 7.2 Weather Conditions during the WBSE Monitoring

| Date | Condition | Temperature (°C) |
|-------------|--|------------------|
| 17 Apr 2020 | - East wind force 4 - Sunny | 28 |
| 30 Apr 2020 | - Southwest wind force 4 to 5 - Sunny | 29 |

7.5.2 No abnormal behavior of the recorded adults during the Apr 2020 construction phase monitoring. Only two adults of WBSE (**Figure 7.2**) were only recorded during the morning surveys. All marine works during the monitoring period did not show any affects to the WBSE.

7.5.3 Since the incubation period was finished in March 2020, the monthly construction phase monitoring (twice per month) will be resumed during the breeding season (between December to May) in order to monitor the incubation period, utilization of the area by WBSE and their responses to construction disturbance. The nest will be inspected daily during the first week of nesting period when the chick was recorded according to the updated EM&A Manual.

7.5.4 No disturbances from anthropogenic activities on the island were recorded during the monitoring survey. However, fishing boats moving close to the shore were recorded. Since the nesting tree is about 160m away from the shore and it is not accessible, fishing boat activities didn't show any direct disturbance to the WBSE nest. No invasion of other fauna species was recorded as well.

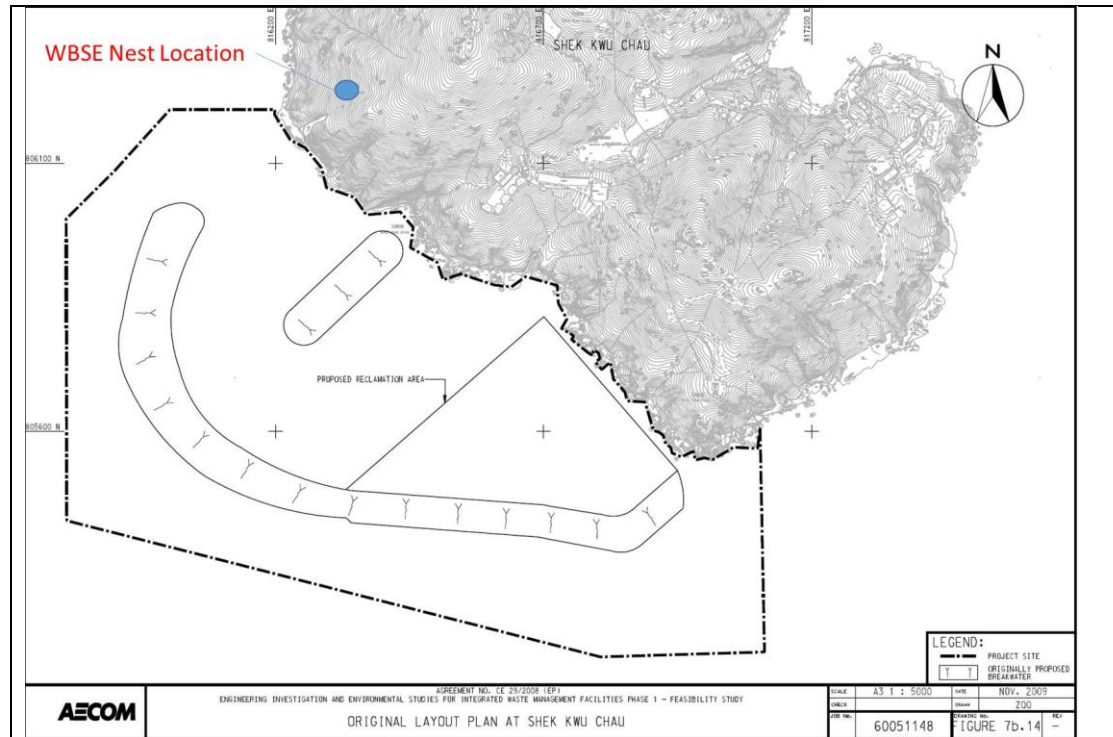


Figure 7.1 Location of WBSE Nest on SKC

7.5.5 Photo record of WBSE from the survey this month is shown below:



Adult WBSE Recorded in Shek Kwu Chau

Figure 7.2 Photo Records of WBSE on SKC During the Reporting Period

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

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

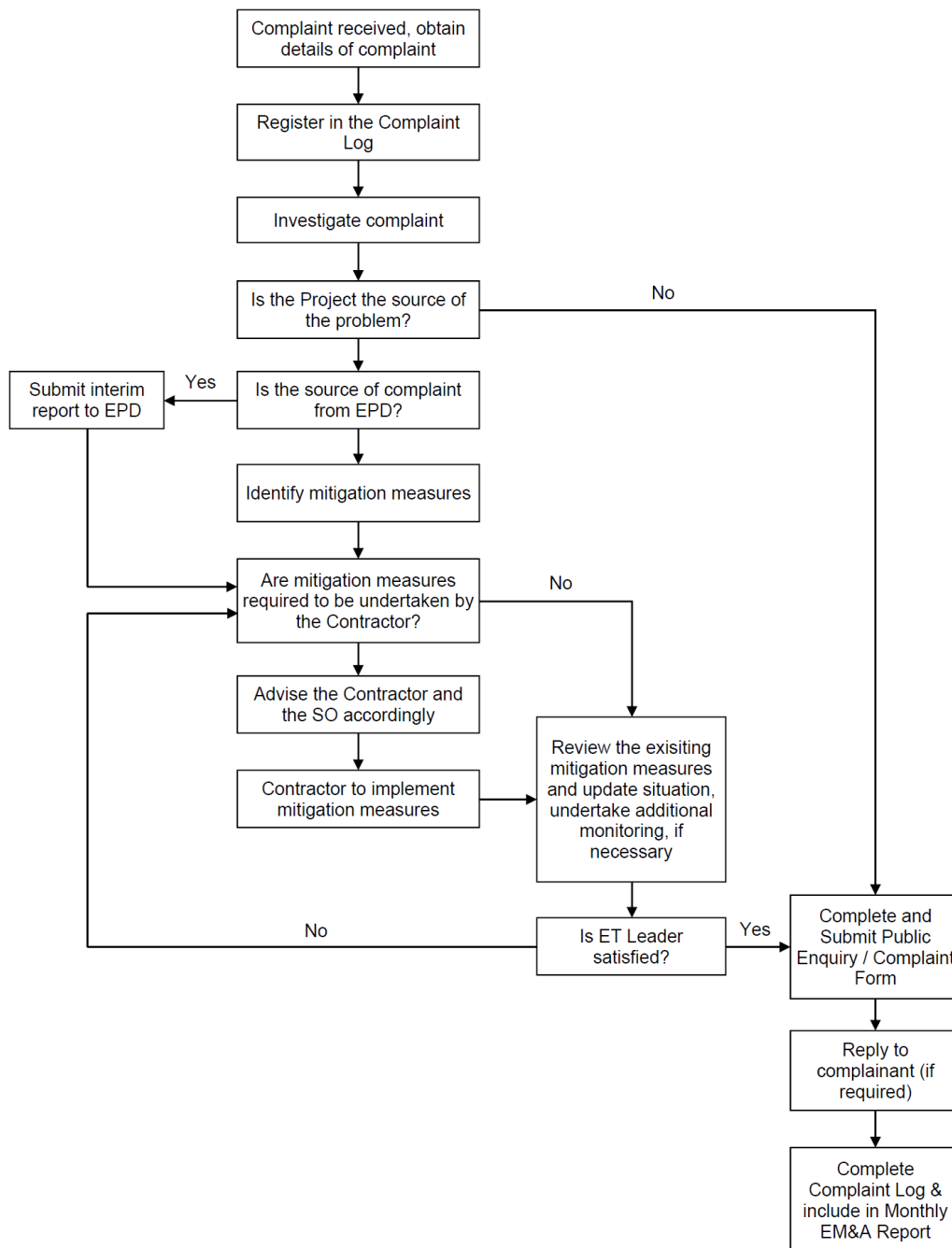


Figure 8.1 Environmental Complaint Handling Procedures

8.2 No exceedance of the Action and Limit Levels of the regular coral and WBSE monitoring was recorded during the reporting period.

- 8.3 None of the General & Regular DCM water quality monitoring results during the reporting period had exceeded Action and Limit Level.
- 8.4 No project-related Action Level & Limit Level exceedance was recorded from the reporting period as shown in **Appendix N**.
- 8.5 The Contractor has been reminded that all measures recommended in the deposited Silt Curtain Deployment Plan shall be fully and properly implemented for the Project as per Clause 2.6A of the FEP.
- 8.6 No notification of summons and prosecution was received in the reporting period.
- 8.7 Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix O**.

9. EM&A SITE INSPECTION

9.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 7, 14, 21 & 28 April 2020 at the site portions list in **Table 9.1** below.

Table 9.1 Site Inspection Record

| Date | Inspected Site Portion | Time |
|---------------|-------------------------------|------------------|
| 7 April 2020 | Portion 1, 1A & 1B (near SKC) | 10:30 – 11:40 AM |
| 14 April 2020 | Portion 1, 1A & 1B (near SKC) | 10:40 – 11:25 AM |
| 21 April 2020 | Portion 1, 1A & 1B (near SKC) | 10:30 – 11:40 AM |
| 28 April 2020 | Portion 1, 1A & 1B (near SKC) | 10:40 – 11:35 AM |

9.2 One joint site inspection with IEC was carried out on 21 April 2020.

9.3 Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 9.2**.

Table 9.2 Site Observations

| Date | Environmental Observations | Follow-up Status |
|------------------------------------|--|---|
| 7 April 2020 (Site inspection) | <u>Observation(s) and Recommendation(s)</u> 1. On GD851, paints in use should be placed on drip tray. | 1. Paints had been stored inside the cabin. |
| 14 April 2020 (Site inspection) | <u>Observation(s) and Recommendation(s)</u> 1. On ESC750, the chemical waste cabinet was not locked up. 2. On ESC61, the broken chemical waste cabinet should be replaced. | 1. The chemical waste cabinet had been locked. 2. The chemical waste cabinet had been repaired. |
| 21 April 2020 (Site inspection) | <u>Observation(s) and Recommendation(s)</u> 1. On 三航 210, stagnant water was found on the drip tray. 2. On 三航 210, oil stain was observed on the sand bags and package of waste. | 1. Stagnant water and debris had been cleaned. 2. The plastic sacking and the garb age bag had been cleared. |
| 28 April 2020 (Site inspection) | <u>Observation(s) and Recommendation(s)</u> No major observation was found. | Nil |

9.4 The Contractor had rectified all the observations identified during environmental site inspections in the reporting period.

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

10. FUTURE KEY ISSUES

10.1 Works to be undertaken in the next reporting month are:

- DCM Installation Works;
- Coring of DCM samples;
- Cone Penetration Test;
- Dredging Works and Sediment Disposal;
- Rock Filling of Foundation;
- Leveling Works for the Foundation of Seawall and Berth Area;
- Caisson Laying;
- Rubble Mound Laying;
- Installation of Prefabricated Vertical Drain;
- Sand Blanket and Geotextile Laying.

10.2 Potential environmental impacts arising from the above construction activities are mainly associated with water quality, construction noise, waste management and ecology.

10.3 The key environmental mitigation measures for the Project in the coming reporting period expected to be associated with the construction activities include:

- Reduction of noise from equipment and machinery on-site;
- Installation of silt curtains for DCM installation, sand blanket laying works and dredging works;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Management of chemicals and avoidance of oil spillage on-site, especially under heavy rains and adverse weather; and
- Implementation of cluster MMEZ and inspection of enclosed environment within silt curtains as per DMPFP;
- Regulation on rate and means for dredging works as stipulated in FEP Clause 2.17 – 2.21 or the approved Supporting Document for Reviewing Dredging Rate and Filling Rate, whichever is applicable;
- Daily site audit and monitoring by ET during dredging work as stipulated in FEP Clause 2.21A;
- Storage, handling and disposal of dredged materials according to Dumping At Sea Ordinance (DASO);
- Confirmation of the absence of silt content in the rock filling material and the filling work is properly conducted;
- Installation process of floating silt curtain according to approved Silt Curtain Deployment Plan

- 10.4 The tentative schedule of regular construction noise, water quality and ecology monitoring in the next reporting period is presented in **Appendix P**. The regular construction noise, water quality and ecology monitoring will be conducted at the same monitoring locations in the next reporting period.

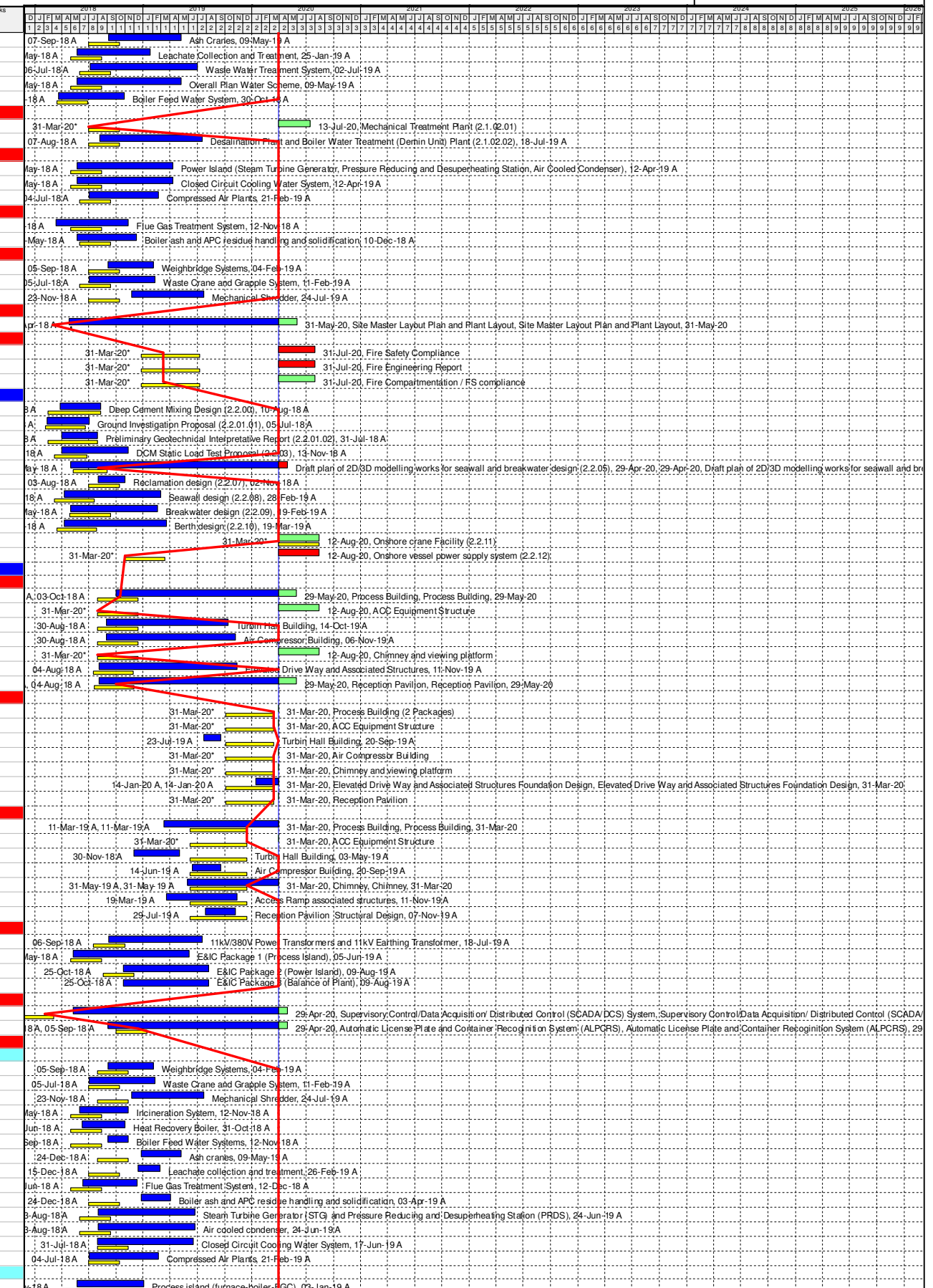
11. CONCLUSION AND RECOMMENDATIONS

- 11.1 This 22nd monthly Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 April to 30 April 2020, in accordance with the Updated EM&A Manual and the requirement under EP-429/2012/A and FEP-01/429/2012/A.
- 11.2 Construction noise, water quality, construction waste, marine mammal and WBSE monitoring were carried out in the reporting period. No project-related exceedance of the Action and Limit Level was recorded during the reporting period.
- 11.3 Weekly environmental site inspections were conducted during the reporting period. Environmental deficiencies were observed during site inspection and were rectified.
- 11.4 According to the environmental site inspections performed in the reporting month, the Contractor was reminded to pay attention on on-site housekeeping and the proper storage of the chemicals and construction waste.
- 11.5 Regarding to the deployment of silt curtains as a principal water quality impact mitigation measures on various marine works, the Contractor has been reminded to follow strictly to the design and checking procedure as specified in the Silt Curtain Deployment Plan. Although the scale of DCM works will be minimised in the coming months, the Contractor is still reminded to pay attention on the status of deployed silt curtain. The Contractor is reminded that all measures recommended in the deposited silt curtain deployment plan shall be fully and properly implemented for the Project as per EP condition 2.6 of the FEP.
- 11.6 As dredging works was conducted in the reporting month, the Contractor had been reminded to follow strictly to the design and checking procedure as specified in the Silt Curtain Deployment Plan for the dredging works. The Contractor had been reminded to follow the regulation on rate and means for dredging works as stipulated in FEP Clause 2.17 – 2.21 or the approved Supporting Document for Reviewing Dredging Rate and Filling Rate, whichever is applicable. The Contractor is reminded to follow Dumping At Sea Ordinance (DASO) for the storage, handling and disposal of dredged materials.
- 11.7 No environmental complaint was received in the reporting period.
- 11.8 No notification of summon or prosecution was received since commencement of the Contract.
- 11.9 The ET will keep track of the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A Master Programme

| Activity ID | Activity Name | Primary Constraint | At Completion Duration | Current Start | Current Finish | Actual Start | Actual Finish | Late Start | Late Finish | Total Float | Activity % Complete | M28 Remarks | 2017 | | | | | | | | | | | | 2018 | | | | | | | | | | | | 2019 | | | | | | | | | | | | 2020 | | | | | | | | | | | | 2021 | | | | | | | | | | | | 2022 | | | | | | | | | | | | 2023 | | | | | | | | | | | | 2024 | | | | | | | | | | | | 2025 | | | | | | | | | | | |
|---|--|---------------------|------------------------|---------------|----------------|--------------|---------------|------------|-------------|-------------|---------------------|--|---|---|---|---|---|---|---|---|---|----|----|----|------|---|---|---|---|---|---|---|---|----|----|----|------|---|---|---|---|---|---|---|---|----|----|----|------|---|---|---|---|---|---|---|---|----|----|----|------|---|---|---|---|---|---|---|---|----|----|----|------|---|---|---|---|---|---|---|---|----|----|----|------|---|---|---|---|---|---|---|---|----|----|----|------|---|---|---|---|---|---|---|---|----|----|----|------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28 Programme for Design and Construction Works WP3-M28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.01 Key Dates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.01.1 Contractual Key Dates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.01.1.1 Design and Construction Phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1000 | Contract Award/Date of Acceptance of Tender | Mandatory Start | 0 | | | 22-Nov-17 A | | | | | 100% | Contract Award/Date of Acceptance of Tender, 22-Nov-17 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1010 | Date of Commencement of the Design and the Works | Mandatory Start | 0 | | | 15-Dec-17 A | | | | | 100% | Date of Commencement of the Design and the Works, 15-Dec-17 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1015(3)(M12) | Original Substantial Completion of the Works | Mandatory Finish | 0 | | 27-Jul-24 | | 27-Jul-24* | | 27-Jul-24 | 0 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1015-1(3)(M12) | Extension of time granted (Claim No.1 to No.8 & No.10 to No.11) | | 41 | 27-Jul-24 | 13-Sep-24 | 27-Jul-24 | 13-Sep-24 | 27-Jul-24 | 13-Sep-24 | 0 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1016(3)(M18) | Extension of time granted without holidays (Claim No.12 to No.26) | Mandatory Finish | 138 | 13-Sep-24 | 29-Jan-25 | 13-Sep-24 | 29-Jan-25* | | 29-Jan-25 | 0 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1020 | Extended Substantial Completion of The Works | Mandatory Finish | 0 | | 29-Jan-25 | | 29-Jan-25* | | 29-Jan-25 | 0 | 0% | 29-Jan-2025 (noon) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.01.2 Operation Phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1030 | Commencement of Operation | Mandatory Start | 0 | 30-Jan-25 | | 30-Jan-25* | | 30-Jan-25 | | 0 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1230 | Issue Certificate of Completion of the Works (56 days after Substantial Completion) | Mandatory Finish | 0 | 26-Mar-25 | | 26-Mar-25* | | 26-Mar-25 | | 0 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.01.2 Planned Completion Dates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1040 | Incoming Power Energization to IWMF Substation | | 0 | 10-Sep-24 | | 10-Sep-24 | | 02-Jun-24 | | -101 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1050 | Export Power to Grid | | 0 | 24-Sep-24 | | 24-Sep-24 | | 06-Sep-24 | | -19 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1060 | Issuance of FS Certificate | | 0 | 08-Jan-25 | | 08-Jan-25 | | 23-Aug-24 | | -139 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1070 | Completion of Civil Provision for Transmission | | 0 | 04-Jan-23 | | 04-Jan-23 | | 02-Jan-23 | | -3 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1080 | Commencement of C1.3.4.11 System Commissioning Test | | 0 | 06-Oct-24 | | 06-Oct-24 | | 15-Jun-24 | | -113 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1090 | Completion of C1.3.4.11 System Commission Test | | 0 | 17-Jan-25 | | 17-Jan-25 | | 23-Aug-24 | | -148 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1100 | Completion of 90 Days Plant Commissioning Test | | 0 | 01-May-25 | | 01-May-25 | | 05-Dec-24 | | -148 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1110(3)(M15) | Issue of Certificate of Substantial Completion for the Works | Finish On or Before | 0 | 25-Jun-25 | | 25-Jun-25* | | 29-Jan-25 | | -148 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.01.2 Dates of Site Possessions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1120 | Possession of Portion 1 | | 0 | | | 15-Dec-17 A | | | | 100% | | Possession of Portion 1. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1130 | Possession of Portion 1A | | 0 | | | 15-Dec-17 A | | | | 100% | | Possession of Portion 1A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1140 | Possession of Portion 1B | | 0 | | | 15-Dec-17 A | | | | 100% | | Possession of Portion 1B. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1150 | Possession of Portion 2 | | 0 | | | 30-Jan-25* | | 30-Jan-25 | | 0 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1160 | Possession of Portion 3 | Mandatory Finish | 0 | 13-Dec-20 | | 12-Jan-22 | | 12-Jan-22 | | 394 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1170 | Possession of Portion 4 | | 0 | 13-Dec-20 | | 13-Dec-20 | | 12-Jan-22 | | 394 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1180 | Possession of Portion 5 | | 0 | 13-Dec-20 | | 12-Jan-22 | | 12-Jan-22 | | 394 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1190 | Possession of Portion 6 | | 0 | 17-Jul-24 | | 17-Jul-24 | | 27-Mar-24 | | -113 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1200 | Possession of Portion 7 | Finish On or Before | 0 | | | 05-Jan-18 A | | | | 100% | | Possession of Portion 7. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1210 | Possession of Portion 7A | Finish On or Before | 0 | | | 07-Dec-18 A | | | | 100% | | Possession of Portion 7A. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.02 Contract Preliminaries | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.02.0 General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1220 | Provision of Contractor All Risk Insurance (COC 24.1) | Finish On or Before | 0 | | | 11-Dec-17 A | | | | 100% | | Provision of Contractor All Risk Insurance (COC 24.1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1240 | Provision of Employee Compensation Insurance (COC 25) | Finish On or Before | 0 | | | 12-Dec-17 A | | | | 100% | | Provision of Employee Compensation Insurance (COC 25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01-1250 | Provision of Contractor's Professional Indemnity Insurance (COC 24.2(a)) | Finish On or Before | 0 | | | 11-Dec-17 A | | | | 100% | | Provision of Contractor's Professional Indemnity Insurance (COC 24.2(a)) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.02.1 Employer's Accommodations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1000 | Establishment of Employer's Off Island Temporary Accommodation | Finish On or Before | 87 | 03-Jan-18 A | | 31-Mar-18 A | | 27-Dec-21 | | 21-Feb-22 | -96 | 100% | Establishment of Employer's Off Island Temporary Accommodation, 31-Mar-18 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1020 | Establishment of Employer's On Island Temporary Accommodation | | 56 | 02-Apr-22 | | 27-May-22 | | 27-Dec-21 | | 21-Feb-22 | -96 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.02.2 Establishment of Environmental Monitoring Stations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1030 | Establishment of Air Quality Monitoring Station at Portion 3 (12m Prior to T&C) | | 180 | 07-Oct-21 | | 04-Apr-22 | | 12-Jan-22 | | 11-Jul-22 | 97 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1040 | Establishment of Air Quality Monitoring Station at Portion 4 (12m Prior to T&C) | | 180 | 07-Oct-21 | | 04-Apr-22 | | 12-Jan-22 | | 11-Jul-22 | 97 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1050 | Establishment of Air Quality Monitoring Station at Portion 5 (12m Prior to T&C) | | 180 | 07-Oct-21 | | 04-Apr-22 | | 12-Jan-22 | | 11-Jul-22 | 97 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.02.3 Erection of Concrete Batching Plant on Artificial Island | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1080 | Erection of Concrete Batching Plant | | 60 | 28-May-22 | | 26-Jul-22 | | 03-Jan-22 | | 04-Mar-22 | -145 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1090 | Commissioning of Concrete Batching Plant | | 30 | 27-Jul-22 | | 25-Aug-22 | | 04-Mar-22 | | 03-Apr-22 | -145 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1100 | Operation of Concrete Batching Plant | | 500 | 26-Aug-22 | | 07-Jan-24 | | 22-Jun-22 | | 04-Nov-23 | -65 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1110 | Demobilization of Concrete Batching Plant | | 60 | 08-Jan-24 | | 07-Mar-24 | | 04-Nov-23 | | 03-Jan-24 | -65 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.02.4 Establishment of Public Relation Office | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1060 | SO issue instruction for provision of IWMF Information Office(s) (IWMFIO) (Tentative) | | 0 | 31-Mar-20 | | 31-Mar-20 | | 19-Apr-21 | | 19-Apr-21 | 384 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1070(2) | Submission and approval for location, layout and details of IWMF Information Office(s) | | 0 | 21-Apr-20 | | 19-Jun-20 | | 10-May-21 | | 09-Jul-21 | 384 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1120(2) | Establishment of IWMF Information Office(s) | | 90 | 20-Jun-20 | | 17-Sep-20 | | 09-Jul-21 | | 07-Oct-21 | 384 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1140(2) | Decommissioning of IWMF Information Office(s) | | 30 | 29-Jan-26 | | 28-Feb-26 | | 29-Jan-26 | | 28-Feb-26 | 0 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.02.5 Replacement of Onshore Crane at Portion 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1150(2) | Replace Crane No. 1 (Incl. T&C) | | 90 | 30-Apr-25 | | 28-Jul-25 | | 02-Aug-25 | | 31-Oct-25 | 94 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1160(2) | Replace Crane No. 2 (Incl. T&C) | | 90 | 28-Aug-25 | | 25-Nov-25 | | 30-Nov-25 | | 28-Feb-26 | 94 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1170(2) | Install, Testing and Commissioning of CCTV System | | 120 | 30-Apr-25 | | 27-Aug-25 | | 31-Oct-25 | | 28-Feb-26 | 184 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02-1180(2) | Install, Testing and Commissioning of Onshore Power Supply System | | 120 | 30-Apr-25 | | 27-Aug-25 | | 31-Oct-25 | | 28-Feb-26 | 184 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.03 Licence/Permit Applications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.03.1 License/Permit for Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03-0900 | Marine Department Notification for Ground Investigation Works | | 75 | 15-Dec-17 A | | 27-Feb-18 A | | | | 100% | | Marine Department Notification for Ground Investigation Works, 27-Feb-18 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03-1000 | Marine Department Notification for Construction Works | | 76 | 20-Apr-18 A | | 05-Jul-18 A | | | | 100% | | Marine Department Notification for Construction Works, 05-Jul-18 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Primary Constraint | At Completion Duration | Current Start | Current Finish | Actual Start | Actual Finish | Latest Start | Latest Finish | Total Float | Activity % Complete | M28 Remarks |
|-----------------------------------|---|--------------------|------------------------|---------------|----------------|--------------|---------------|--------------|---------------|-------------|---------------------|-------------|
| 05-1020 | Ash Cranes | Start On or After | 244 | | | 07-Sep-18 A | 09-May-19 A | | | | 100% | |
| 05-1030 | Leachate Collection and Treatment | Start On or After | 245 | | | 25-May-18 A | 25-Jan-19 A | | | | 100% | |
| 05-1040 | Waste Water Treatment System | Start On or After | 361 | | | 06-Jul-18 A | 02-Jul-19 A | | | | 100% | |
| 05-1050 | Overall Plan Water Scheme | Start On or After | 350 | | | 24-May-18 A | 09-May-19 A | | | | 100% | |
| 05-1060 | Boiler Feed Water System | Start On or After | 223 | | | 21-Mar-18 A | 30-Oct-18 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.01.2 | MSW treatment process design for mechanical treatment (2.1.02) | | 707 | 31-Mar-20 | 13-Jul-20 | 07-Aug-18 A | 13-Jul-20 | 02-May-20 | 15-Aug-20 | 32 | | |
| 05-1090 | Mechanical Treatment Plant (2.1.02.01) | Start On or After | 105 | 31-Mar-20 | 13-Jul-20 | 31-Mar-20* | 13-Jul-20 | 02-May-20 | 15-Aug-20 | 32 | 0% | |
| 05-1100 | Desalination Plant and Boiler Water Treatment (Demin Unit) Plant (2.1.02.02) | Start On or After | 345 | | | 07-Aug-18 A | 18-Jul-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.01.3 | Waste heat recovery and Power generation system (2.1.03) | | 323 | | | 24-May-18 A | 12-Apr-19 A | | | | | |
| 05-1110 | Power Island (Steam Turbine Generator, Pressure Reducing and Desuperheating Station, Air Cooled Cond) | Start On or After | 323 | | | 24-May-18 A | 12-Apr-19 A | | | | 100% | |
| 05-1120 | Closed Circuit Cooling Water System | Start On or After | 323 | | | 24-May-18 A | 12-Apr-19 A | | | | 100% | |
| 05-1130 | Compressed Air Plants | Start On or After | 232 | | | 04-Jul-18 A | 21-Feb-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.01.4 | Flue gas treatment process design for incineration (2.1.04) | | 270 | | | 15-Mar-18 A | 10-Dec-18 A | | | | | |
| 05-1070 | Flue Gas Treatment System | Start On or After | 242 | | | 15-Mar-18 A | 12-Nov-18 A | | | | 100% | |
| 05-1080 | Boiler ash and APC residue handling and solidification | Start On or After | 199 | | | 25-May-18 A | 10-Dec-18 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.01.5 | Logistic arrangement design for MSW and Ash and Residues (2.1.05) | | 384 | | | 05-Jul-18 A | 24-Jul-19 A | | | | | |
| 05-1140 | Weighbridge Systems | Start On or After | 152 | | | 05-Sep-18 A | 04-Feb-19 A | | | | 100% | |
| 05-1150 | Waste Crane and Grapple System | Start On or After | 221 | | | 05-Jul-18 A | 11-Feb-19 A | | | | 100% | |
| 05-1160 | Mechanical Shredder | Start On or After | 243 | | | 23-Nov-18 A | 24-Jul-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.01.6 | Site Master Layout Plan and Plant Layout (2.1.06) | | 766 | 31-Mar-20 | 31-May-20 | 27-Apr-18 A | 31-May-20 | 31-Dec-20 | 03-Mar-21 | 275 | | |
| 05-3020 | Site Master Layout Plan and Plant Layout | | 766 | 31-Mar-20 | 31-May-20 | 27-Apr-18 A | 31-May-20 | 31-Dec-20 | 03-Mar-21 | 275 | 65% | |
| EP_SP_66_12-WP-3-M28.05.01.01.7 | Statutory Fire Compliance (2.1.25) | | 123 | 31-Mar-20 | 31-Jul-20 | 31-Mar-20* | 31-Jul-20 | 10-Apr-19 | 26-Feb-21 | 209 | | |
| 05-2990 | Fire Safety Compliance | Start On or After | 123 | 31-Mar-20 | 31-Jul-20 | 31-Mar-20* | 31-Jul-20 | 10-Apr-19 | 10-Aug-19 | -356 | 0% | |
| 05-3000 | Fire Engineering Report | Start On or After | 123 | 31-Mar-20 | 31-Jul-20 | 31-Mar-20* | 31-Jul-20 | 10-Apr-19 | 10-Aug-19 | -356 | 0% | |
| 05-3010 | Fire Compartmentation / FS compliance | Start On or After | 123 | 31-Mar-20 | 31-Jul-20 | 31-Mar-20* | 31-Jul-20 | 26-Oct-20 | 26-Feb-21 | 209 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.02 | AIP Ground Treatment, Reclamation, Seawall, Breakwater, Berth (2.2) | | 913 | 31-Mar-20 | 12-Aug-20 | 12-Feb-18 A | 12-Aug-20 | 26-Nov-19 | 20-Jul-21 | 341 | | |
| 05-1170 | Deep Cement Mixing Design (2.2.00) | Start On or After | 136 | | | 27-Mar-18 A | 10-Aug-18 A | | | | 100% | |
| 05-1180 | Ground Investigation Proposal (2.2.01.01) | Start On or After | 143 | | | 12-Feb-18 A | 05-Jul-18 A | | | | 100% | |
| 05-1190 | Preliminary Geotechnical Interpretative Report (2.2.01.02) | Start On or After | 120 | | | 03-Apr-18 A | 31-Jul-18 A | | | | 100% | |
| 05-1200 | DCM Static Load Test Proposal (2.2.03) | Start On or After | 224 | | | 03-Apr-18 A | 13-Nov-18 A | | | | 100% | |
| 05-1280 | Draft plan of 2D/3D modelling works for seawall and breakwater design (2.2.05) | Start On or After | 728 | 31-Mar-20 | 29-Apr-20 | 03-May-18 A | 29-Apr-20 | 26-Nov-19 | 26-Dec-19 | -126 | 80% | |
| 05-2930 | Reclamation design (2.2.07) | Start On or After | 91 | | | 03-Aug-18 A | 02-Nov-18 A | | | | 100% | |
| 05-2940 | Seawall design (2.2.08) | Start On or After | 323 | | | 11-Apr-18 A | 28-Feb-19 A | | | | 100% | |
| 05-2950 | Breakwater design (2.2.09) | Start On or After | 293 | | | 02-May-18 A | 19-Feb-19 A | | | | 100% | |
| 05-2960 | Berth design (2.2.10) | Start On or After | 342 | | | 11-Apr-18 A | 19-Mar-19 A | | | | 70% | |
| 05-2970 | Onshore crane Facility (2.2.11) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 07-Mar-21 | 20-Jul-21 | 341 | 0% | |
| 05-2980 | Onshore vessel power supply system (2.2.12) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 15-Dec-19 | 28-Apr-20 | -107 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.03 | AIP Incineration Plant Buildings (2.3) | | 961 | 31-Mar-20 | 25-Dec-20 | 10-May-18 A | 25-Dec-20 | 30-Aug-18 | 26-Jul-22 | 577 | | |
| EP_SP_66_12-WP-3-M28.05.01.03.1 | Architectural Design (2.3.00) | | 740 | 31-Mar-20 | 12-Aug-20 | 04-Aug-18 A | 12-Aug-20 | 15-Dec-20 | 12-Aug-21 | 364 | | |
| 05-1210 | Process Building | Start On or After | 605 | 31-Mar-20 | 29-May-20 | 03-Oct-18 A | 29-May-20 | 15-Dec-20 | 13-Feb-21 | 259 | 65% | |
| 05-1220 | ACC Equipment Structure | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 16-Feb-21 | 01-Jul-21 | 322 | 0% | |
| 05-1230 | Turbin Hall Building | Start On or After | 410 | | | 30-Aug-18 A | 14-Oct-19 A | | | | 100% | |
| 05-1240 | Air Compressor Building | Start On or After | 433 | | | 30-Aug-18 A | 06-Nov-19 A | | | | 100% | |
| 05-1250 | Chimney and viewing platform | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 28-Jan-21 | 12-Jun-21 | 303 | 0% | |
| 05-1260 | Elevated Drive Way and Associated Structures | Start On or After | 464 | | | 04-Aug-18 A | 11-Nov-19 A | | | | 100% | |
| 05-1270 | Reception Pavilion | Start On or After | 665 | 31-Mar-20 | 29-May-20 | 04-Aug-18 A | 29-May-20 | 13-Jun-21 | 12-Aug-21 | 439 | 65% | |
| EP_SP_66_12-WP-3-M28.05.01.03.2 | Foundation design (2.3.01) | | 252 | 31-Mar-20 | 31-Mar-20 | 23-Jul-19 A | 31-Mar-20 | 02-Jul-21 | 19-Jun-22 | 810 | | |
| 05-3030 | Process Building (2 Packages) | Start On or After | 0 | 31-Mar-20 | 31-Mar-20 | 31-Mar-20* | 31-Mar-20 | 02-Jul-21 | 02-Jul-21 | 458 | 0% | |
| 05-3040 | ACC Equipment Structure | Start On or After | 0 | 31-Mar-20 | 31-Mar-20 | 31-Mar-20* | 31-Mar-20 | 18-Oct-21 | 18-Oct-21 | 566 | 0% | |
| 05-3050 | Turbin Hall Building | Start On or After | 59 | | | 23-Jul-19 A | 20-Sep-19 A | | | | 100% | |
| 05-3060 | Air Compressor Building | Start On or After | 0 | 31-Mar-20 | 31-Mar-20 | 31-Mar-20* | 31-Mar-20 | 27-Jan-22 | 27-Jan-22 | 667 | 0% | |
| 05-3070 | Chimney and viewing platform | Start On or After | 0 | 31-Mar-20 | 31-Mar-20 | 31-Mar-20* | 31-Mar-20 | 29-Sep-21 | 29-Sep-21 | 547 | 0% | |
| 05-3080 | Elevated Drive Way and Associated Structures Foundation Design | Start On or After | 77 | 31-Mar-20 | 31-Mar-20 | 14-Jan-20 A | 31-Mar-20 | 06-Feb-22 | 06-Feb-22 | 677 | 45% | |
| 05-3090 | Reception Pavilion | Start On or After | 0 | 31-Mar-20 | 31-Mar-20 | 31-Mar-20* | 31-Mar-20 | 19-Jun-22 | 19-Jun-22 | 810 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.03.3 | Structural design (2.3.02) | | 487 | 31-Mar-20 | 31-Mar-20 | 30-Nov-18 A | 31-Mar-20 | 14-Nov-20 | 26-Jul-22 | 847 | | |
| 05-1290 | Process Building | Start On or After | 386 | 31-Mar-20 | 31-Mar-20 | 11-Mar-19 A | 31-Mar-20 | 20-Sep-21 | 20-Sep-21 | 538 | 5% | |
| 05-1300 | ACC Equipment Structure | Start On or After | 0 | 31-Mar-20 | 31-Mar-20 | 31-Mar-20* | 31-Mar-20 | 14-Nov-20 | 14-Nov-20 | 228 | 0% | |
| 05-1310 | Turbin Hall Building | Start On or After | 154 | | | 30-Nov-18 A | 03-May-19 A | | | | 100% | |
| 05-1320 | Air Compressor Building | Start On or After | 98 | | | 14-Jun-19 A | 20-Sep-19 A | | | | 100% | |
| 05-1330 | Chimney | Start On or After | 305 | 31-Mar-20 | 31-Mar-20 | 31-May-19 A | 31-Mar-20 | 26-Jul-22 | 26-Jul-22 | 847 | 5% | |
| 05-1340 | Access Ramp associated structures | Start On or After | 237 | | | 19-Mar-19 A | 11-Nov-19 A | | | | 100% | |
| 05-1350 | Reception Pavilion Structural Design | Start On or After | 101 | | | 29-Jul-19 A | 07-Nov-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.03.4 | Electrical and Instrumentation works design (2.3.03) | | 456 | | | 10-May-18 A | 09-Aug-19 A | | | | | |
| 05-3150 | 11kV/380V Power Transformers and 11kV Earthing Transformer | Start On or After | 315 | | | 06-Sep-18 A | 18-Jul-19 A | | | | 100% | |
| 05-3160 | E&IC Package 1 (Process Island) | Start On or After | 391 | | | 10-May-18 A | 05-Jun-19 A | | | | 100% | |
| 05-3170 | E&IC Package 2 (Power Island) | Start On or After | 288 | | | 25-Oct-18 A | 09-Aug-19 A | | | | 100% | |
| 05-3175(3)(M12) | E&IC Package 3 (Balance of Plant) | Start On or After | 288 | | | 25-Oct-18 A | 09-Aug-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.03.8 | Operation Management System (2.3.03.04) | | 721 | 31-Mar-20 | 29-Apr-20 | 10-May-18 A | 29-Apr-20 | 28-Apr-20 | 10-Sep-20 | 133 | | |
| 05-3180 | Supervisory Control/Data Acquisition/Distributed Control (SCADA/DCS) System | Start On or After | 721 | 31-Mar-20 | 29-Apr-20 | 10-May-18 A | 29-Apr-20 | 28-Apr-20 | 28-May-20 | 28 | 65% | |
| 05-3210 | Automatic License Plate and Container Recognition System (ALPCRS) | Start On or After | 603 | 31-Mar-20 | 29-Apr-20 | 05-Sep-18 A | 29-Apr-20 | 11-Aug-20 | 10-Sep-20 | 133 | 65% | |
| EP_SP_66_12-WP-3-M28.05.01.03.5 | Mechanical works design (2.3.04) | | 433 | | | 17-May-18 A | 24-Jul-19 A | | | | | |
| EP_SP_66_12-WP-3-M28.05.01.03.5.1 | Plant and Equipment | | 419 | | | 31-May-18 A | 24-Jul-19 A | | | | | |
| 05-2800 | Weighbridge Systems | Start On or After | 152 | | | 05-Sep-18 A | 04-Feb-19 A | | | | 100% | |
| 05-2810 | Waste Crane and Grapple System | Start On or After | 221 | | | 05-Jul-18 A | 11-Feb-19 A | | | | 100% | |
| 05-2820 | Mechanical Shredder | Start On or After | 243 | | | 23-Nov-18 A | 24-Jul-19 A | | | | 100% | |
| 05-2830 | Incineration System | Start On or After | 165 | | | 31-May-18 A | 12-Nov-18 A | | | | 100% | |
| 05-2840 | Heat Recovery Boiler | Start On or After | 145 | | | 08-Jun-18 A | 31-Oct-18 A | | | | 100% | |
| 05-2850 | Boiler Feed Water Systems | Start On or After | 68 | | | 05-Sep-18 A | 12-Nov-18 A | | | | 100% | |
| 05-2860 | Ash cranes | Start On or After | 136 | | | 24-Dec-18 A | 09-May-19 A | | | | 100% | |
| 05-2870 | Leachate collection and treatment | Start On or After | 73 | | | 15-Dec-18 A | 26-Feb-19 A | | | | 100% | |
| 05-2880 | Flue Gas Treatment System | Start On or After | 184 | | | 11-Jun-18 A | 12-Dec-18 A | | | | 100% | |
| 05-2890 | Boiler ash and APC residue handling and solidification | Start On or After | 100 | | | 24-Dec-18 A | 03-Apr-19 A | | | | 100% | |
| 05-2900 | Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS) | Start On or After | 325 | | | 03-Aug-18 A | 24-Jun-19 A | | | | 100% | |
| 05-2910 | Air cooled condenser | Start On or After | 325 | | | 03-Aug-18 A | 24-Jun-19 A | | | | 100% | |
| 05-2915(3) | Closed Circuit Cooling Water System | Start On or After | 321 | | | 31-Jul-18 A | 17-Jun-19 A | | | | 100% | |
| 05-2920 | Compressed Air Plants | Start On or After | 232 | | | 04-Jul-18 A | 21-Feb-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.03.5.2 | Process Pipeworks (Incl. Ductworks) and Valves | | 404 | | | 24-May-18 A | 02-Jul-19 A | | | | | |
| 05-1360 | Process Island (furnace-boiler-FGC) | Start On or After | 224 | | | 24-May-18 A | 03-Jan-19 A | | | | 100% | |



Programme for Design and Construction Works
 March 2020 Update (Rev WP-3-M28)

| | | | | | | | | | |
|------------------|-----------------------|----------------|-------------|-------------------------|--------------------|---------------------------|-----------|------------------|--------------------|
| Primary Baseline | WP3 BL Critical Works | Remaining Work | Actual Work | Critical Remaining Work | Baseline Milestone | WP3 BL Critical Milestone | Milestone | Actual Milestone | Critical Milestone |
|------------------|-----------------------|----------------|-------------|-------------------------|--------------------|---------------------------|-----------|------------------|--------------------|

| Date | Revision | Checked | Approved |
|------|----------|---------|----------|
|------|----------|---------|----------|

| Activity ID | Activity Name | Primary Constraint | At Completion Duration | Current Start | Current Finish | Actual Start | Actual Finish | Latest Start | Latest Finish | Total Float | Activity % Complete | M28 Remarks |
|-----------------------------------|---|---------------------|------------------------|---------------|----------------|--------------|---------------|--------------|---------------|-------------|---------------------|-------------|
| 05-1370 | Pipebridge (Between Process Island & Turbine Hall) | Start On or After | 404 | | | 24-May-18 A | 02-Jul-19 A | | | | 100% | |
| 05-1380 | Compressed Air Plant area | Start On or After | 273 | | | 02-Oct-18 A | 02-Jul-19 A | | | | 100% | |
| 05-1390 | Pipebridge (Between CCGW Area & Turbine Hall) | Start On or After | 119 | | | 02-Oct-18 A | 29-Jan-19 A | | | | 100% | |
| 05-1400 | Pipebridge (Between Turbine Hall & ACC Yard) | Start On or After | 119 | | | 02-Oct-18 A | 29-Jan-19 A | | | | 100% | |
| 05-1410 | Turbine Hall | Start On or After | 273 | | | 02-Oct-18 A | 02-Jul-19 A | | | | 100% | |
| 05-1420 | ACC Yard | Start On or After | 273 | | | 02-Oct-18 A | 02-Jul-19 A | | | | 100% | |
| 05-1540 | CCGW Area | Start On or After | 273 | | | 02-Oct-18 A | 02-Jul-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.03.5.3 | Process steel structure support (For equipment, piping & duct, cable tray etc) | | 257 | | | 17-May-18 A | 29-Jan-19 A | | | | | |
| 05-3100 | Process island (furnace-boiler-FGC) | Start On or After | 246 | | | 17-May-18 A | 18-Jan-19 A | | | | 100% | |
| 05-3110 | Pipebridge (Between Process Island & Turbine Hall) | Start On or After | 112 | | | 09-Oct-18 A | 29-Jan-19 A | | | | 100% | |
| 05-3120 | Turbine Hall | Start On or After | 112 | | | 09-Oct-18 A | 29-Jan-19 A | | | | 100% | |
| 05-3130 | Pipebridge (Between CCGW Area & Turbine Hall) | Start On or After | 112 | | | 09-Oct-18 A | 29-Jan-19 A | | | | 100% | |
| 05-3140 | Pipebridge (Between Turbine Hall & ACC Yard) | Start On or After | 112 | | | 09-Oct-18 A | 29-Jan-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.03.5.4 | Equipment and piping insulation | | 391 | | | 15-Jun-18 A | 11-Jul-19 A | | | | | |
| 05-1430 | Incineration System | Start On or After | 150 | | | 15-Jun-18 A | 12-Nov-18 A | | | | 100% | |
| 05-1440 | Heat Recovery Boiler | Start On or After | 138 | | | 15-Jun-18 A | 31-Oct-18 A | | | | 100% | |
| 05-1450 | Boiler Feed Water Systems | Start On or After | 150 | | | 15-Jun-18 A | 12-Nov-18 A | | | | 100% | |
| 05-1460 | Flue Gas Treatment System | Start On or After | 180 | | | 15-Jun-18 A | 12-Dec-18 A | | | | 100% | |
| 05-1470 | Boiler ash and APC residue handling and solidification | Start On or After | 292 | | | 15-Jun-18 A | 03-Apr-19 A | | | | 100% | |
| 05-1480 | Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS) | Start On or After | 181 | | | 11-Jan-19 A | 11-Jul-19 A | | | | 100% | |
| 05-1490 | Air cooled condenser | Start On or After | 251 | | | 02-Nov-18 A | 11-Jul-19 A | | | | 100% | |
| 05-1500 | Closed Circuit Cooling Water System | Start On or After | 321 | | | 31-Jul-18 A | 17-Jun-19 A | | | | 100% | |
| EP_SP_66_12-WP-3-M28.05.01.03.6 | Fire services installation design (2.3.05) | | 729 | 31-Mar-20 | 25-Dec-20 | 28-Dec-18 A | 25-Dec-20 | 30-Aug-18 | 10-Jun-20 | -198 | | |
| EP_SP_66_12-WP-3-M28.05.01.03.6.1 | Process Building (2.3.05.01) | | 626 | 31-Mar-20 | 26-Sep-20 | 10-Jan-19 A | 26-Sep-20 | 10-Apr-19 | 07-Oct-19 | -355 | | |
| 05-1510 | Fire Systems | Finish On or Before | 569 | 01-Aug-20 | 01-Aug-20 | 10-Jan-19 A | 01-Aug-20* | 07-Oct-19 | 07-Oct-19 | -298 | 5% | |
| 05-1520 | Fire engineering | Finish On or Before | 180 | 31-Mar-20 | 26-Sep-20 | 31-Mar-20 | 26-Sep-20* | 10-Apr-19 | 06-Oct-19 | -356 | 0% | |
| 05-1530 | FS schematics | Finish On or Before | 453 | 31-Mar-20 | 06-Apr-20 | 10-Jan-19 A | 06-Apr-20* | 01-Oct-19 | 07-Oct-19 | -182 | 5% | |
| EP_SP_66_12-WP-3-M28.05.01.03.6.3 | Turbin Hall Building (2.3.05.03) | | 729 | 31-Mar-20 | 25-Dec-20 | 28-Dec-18 A | 25-Dec-20 | 17-Apr-19 | 11-Jan-20 | -349 | | |
| 05-5400 | Fire Systems (2.3.05.03.01) | Finish On or Before | 564 | 31-Mar-20 | 13-Jul-20 | 28-Dec-18 A | 13-Jul-20* | 22-Jun-19 | 04-Oct-19 | -283 | 25% | |
| 05-5410 (M22) | Fire engineering | Finish On or Before | 270 | 31-Mar-20 | 25-Dec-20 | 31-Mar-20 | 25-Dec-20* | 17-Apr-19 | 11-Jan-20 | -349 | 0% | |
| 05-5420 (M22) | FS schematics (2.3.05.03.03) | Finish On or Before | 564 | 31-Mar-20 | 13-Jul-20 | 28-Dec-18 A | 13-Jul-20* | 22-Jun-19 | 04-Oct-19 | -283 | 25% | |
| EP_SP_66_12-WP-3-M28.05.01.03.6.4 | Air Compressor Building (2.3.05.04) | | 270 | 31-Mar-20 | 25-Dec-20 | 31-Mar-20 | 25-Dec-20 | 30-Aug-18 | 26-May-19 | -579 | | |
| 05-5430 (M22) | Fire Systems | Finish On or Before | 270 | 31-Mar-20 | 25-Dec-20 | 31-Mar-20 | 25-Dec-20* | 30-Aug-18 | 26-May-19 | -579 | 0% | |
| 05-5440 (M22) | FS schematics | Finish On or Before | 270 | 31-Mar-20 | 25-Dec-20 | 31-Mar-20 | 25-Dec-20* | 30-Aug-18 | 26-May-19 | -579 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.03.6.5 | Elevated Drive Way and Associated Structures (2.3.05.05) | | 255 | 31-Mar-20 | 26-Aug-20 | 16-Dec-19 A | 26-Aug-20 | 29-Oct-19 | 25-Mar-20 | -154 | | |
| 05-5445 (M22) | Fire Systems | Finish On or Before | 255 | 31-Mar-20 | 26-Aug-20 | 16-Dec-19 A | 26-Aug-20* | 29-Oct-19 | 25-Mar-20 | -154 | 5% | |
| 05-5450 (M22) | FS schematics | Finish On or Before | 255 | 31-Mar-20 | 26-Aug-20 | 16-Dec-19 A | 26-Aug-20* | 29-Oct-19 | 25-Mar-20 | -154 | 5% | |
| EP_SP_66_12-WP-3-M28.05.01.03.6.6 | Reception Pavilion (2.3.05.06) | | 357 | 31-Mar-20 | 24-Sep-20 | 04-Oct-19 A | 24-Sep-20 | 16-Dec-19 | 10-Jun-20 | -106 | | |
| 05-5460 (M22) | Fire Systems (2.3.05.06.01) | Finish On or Before | 356 | 31-Mar-20 | 23-Sep-20 | 04-Oct-19 A | 23-Sep-20* | 17-Dec-19 | 10-Jun-20 | -105 | 5% | |
| 05-5470 (M22) | FS schematics (2.3.05.06.03) | Finish On or Before | 357 | 31-Mar-20 | 24-Sep-20 | 04-Oct-19 A | 24-Sep-20* | 16-Dec-19 | 10-Jun-20 | -106 | 5% | |
| EP_SP_66_12-WP-3-M28.05.01.03.6.7 | Compressor & Closed Circuit (2.3.05.07) | | 307 | 31-Mar-20 | 13-Jul-20 | 11-Sep-19 A | 13-Jul-20 | 13-Oct-19 | 25-Jan-20 | -170 | | |
| 05-5480 (M22) | Fire Systems (2.3.05.07.01) | Finish On or Before | 307 | 31-Mar-20 | 13-Jul-20 | 11-Sep-19 A | 13-Jul-20* | 13-Oct-19 | 25-Jan-20 | -170 | 45% | |
| 05-5490 (M22) | FS schematics (2.3.05.07.03) | Finish On or Before | 307 | 31-Mar-20 | 13-Jul-20 | 11-Sep-19 A | 13-Jul-20* | 13-Oct-19 | 25-Jan-20 | -170 | 45% | |
| EP_SP_66_12-WP-3-M28.05.01.03.7 | Building services design (excluding fire services installation design) (2.3.05) | | 764 | 31-Mar-20 | 12-Aug-20 | 11-Jul-18 A | 12-Aug-20 | 19-May-20 | 29-Apr-21 | 259 | | |
| 05-1550 | Electrical Services and Lighting (7 Packages) | Start On or After | 574 | 31-Mar-20 | 09-Aug-20 | 10-Jan-19 A | 09-Aug-20 | 23-Jul-20 | 02-Dec-20 | 115 | 12.5% | |
| 05-1560 | MVAC (6 Packages) | Start On or After | 476 | 31-Mar-20 | 29-Apr-20 | 10-Jan-19 A | 29-Apr-20 | 12-Oct-20 | 11-Nov-20 | 195 | 5% | |
| 05-1570 | Odour Control | Start On or After | 719 | 31-Mar-20 | 28-Jun-20 | 11-Jul-18 A | 28-Jun-20 | 13-Aug-20 | 11-Nov-20 | 135 | 5% | |
| 05-1580 | Plumbing (7 Packages) | Start On or After | 441 | 31-Mar-20 | 31-Mar-20 | 15-Jan-19 A | 31-Mar-20 | 16-Nov-20 | 16-Nov-20 | 230 | 5% | |
| 05-1590 | Drainage (7 Packages) | Start On or After | 531 | 31-Mar-20 | 28-Jun-20 | 15-Jan-19 A | 28-Jun-20 | 18-Aug-20 | 16-Nov-20 | 140 | 5% | |
| 05-1600 | ELV (7 Packages) | Start On or After | 536 | 31-Mar-20 | 28-Jun-20 | 10-Jan-19 A | 28-Jun-20 | 17-Nov-20 | 15-Feb-21 | 231 | 5% | |
| 05-1610 | Lifts and Escalators (2 Packages) | Start On or After | 227 | 31-Mar-20 | 12-Aug-20 | 30-Dec-19 A | 12-Aug-20 | 04-Jun-20 | 17-Oct-20 | 65 | 5% | |
| 05-1630 | Building Management System (BMS) (7 Packages) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 19-May-20 | 30-Sep-20 | 49 | 0% | |
| 05-1770 | Vehicle & Container Wash System | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 01-Oct-20 | 13-Feb-21 | 184 | 0% | |
| 05-1770-1(M20) | Water Cannon System | Start On or After | 294 | 31-Mar-20 | 31-Mar-20 | 11-Jun-19 A | 31-Mar-20 | 29-Apr-21 | 29-Apr-21 | 394 | 5% | |
| EP_SP_66_12-WP-3-M28.05.01.04 | AIP Mechanical Treatment Plant Building (2.4) | | 706 | 31-Mar-20 | 12-Aug-20 | 07-Sep-18 A | 12-Aug-20 | 19-Nov-19 | 25-Oct-21 | 438 | | |
| 05-1640 | Architectural Design (2.4.00) | | 631 | 31-Mar-20 | 29-May-20 | 07-Sep-18 A | 29-May-20 | 22-Nov-20 | 21-Jan-21 | 236 | 65% | |
| 05-1650 | Foundation design (2.4.01) | Start On or After | 268 | 31-Mar-20 | 31-Mar-20 | 07-Jul-19 A | 31-Mar-20 | 25-Oct-21 | 25-Oct-21 | 573 | 65% | |
| 05-1660 | Structural design (2.4.02) | Start On or After | 206 | | | 21-May-19 A | 13-Dec-19 A | | | | 100% | |
| 05-1670 | Electrical and instrumentation works design (2.4.03) | Start On or After | 105 | 31-Mar-20 | 13-Jul-20 | 31-Mar-20* | 13-Jul-20 | 14-Jul-20 | 27-Oct-20 | 105 | 0% | |
| 05-1680 | Mechanical works design (2.4.04) | Start On or After | 105 | 31-Mar-20 | 13-Jul-20 | 31-Mar-20* | 13-Jul-20 | 19-Nov-19 | 03-Mar-20 | -133 | 0% | |
| 05-1690 | Fire services installation design (2.4.05) (3 Packages) | Start On or After | 472 | 31-Mar-20 | 04-Jul-20 | 20-Mar-19 A | 04-Jul-20 | 31-Jan-21 | 06-May-21 | 306 | 9.5% | |
| EP_SP_66_12-WP-3-M28.05.01.04.7 | Building services design (excluding fire services installation design) (2.4.06) | | 512 | 31-Mar-20 | 12-Aug-20 | 20-Mar-19 A | 12-Aug-20 | 15-Apr-20 | 15-May-21 | 275 | | |
| 05-1700 | Electrical Services and Lighting (2.4.06.01) | Start On or After | 377 | 31-Mar-20 | 31-Mar-20 | 20-Mar-19 A | 31-Mar-20 | 02-Dec-20 | 02-Dec-20 | 246 | 5% | |
| 05-1710 | MVAC | Start On or After | 507 | 31-Mar-20 | 12-Aug-20 | 25-Mar-19 A | 12-Aug-20 | 15-Apr-20 | 28-Aug-20 | 15 | 5% | |
| 05-1720 | Odour Control | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 15-Apr-20 | 28-Aug-20 | 15 | 0% | |
| 05-1730 | Plumbing | Start On or After | 512 | 31-Mar-20 | 12-Aug-20 | 20-Mar-19 A | 12-Aug-20 | 04-Jul-20 | 16-Nov-20 | 95 | 5% | |
| 05-1740 | Drainage | Start On or After | 512 | 31-Mar-20 | 12-Aug-20 | 20-Mar-19 A | 12-Aug-20 | 04-Jul-20 | 16-Nov-20 | 95 | 5% | |
| 05-1750 | ELV | Start On or After | 512 | 31-Mar-20 | 12-Aug-20 | 20-Mar-19 A | 12-Aug-20 | 20-Jul-20 | 02-Dec-20 | 111 | 5% | |
| 05-1760 | Lifts and Escalators | Start On or After | 227 | 31-Mar-20 | 12-Aug-20 | 30-Dec-19 A | 12-Aug-20 | 31-Dec-20 | 15-May-21 | 275 | 5% | |
| 05-1760-1(M20) | Building Management System (BMS) | Start On or After | 89 | 31-Mar-20 | 27-Jun-20 | 31-Mar-20* | 27-Jun-20 | 04-Jul-20 | 30-Sep-20 | 95 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.05 | AIP Wastewater Treatment Plant (2.5) | | 715 | 31-Mar-20 | 16-Sep-20 | 03-Oct-18 A | 16-Sep-20 | 15-Apr-20 | 04-Jul-21 | 230 | | |
| 05-1780 | Architectural Design (2.5.00) | Start On or After | 605 | 31-Mar-20 | 29-May-20 | 03-Oct-18 A | 29-May-20 | 26-Dec-20 | 24-Feb-21 | 270 | 65% | |
| 05-1790 | Foundation design (2.5.01) | Start On or After | 0 | 31-Mar-20 | 31-Mar-20 | 31-Mar-20* | 31-Mar-20 | 04-Jul-21 | 04-Jul-21 | 460 | 0% | |
| 05-1800 | Structural design (2.5.02) | Start On or After | 556 | 31-Mar-20 | 16-Sep-20 | 11-Mar-19 A | 16-Sep-20 | 30-May-20 | 16-Nov-20 | 60 | 45% | |
| 05-1810 | Electrical and instrumentation works design (2.5.03) | Start On or After | 289 | | | 24-Oct-18 A | 09-Aug-19 A | | | | 100% | |
| 05-1820 | Mechanical works design (2.5.04) | Start On or After | 282 | | | 03-Oct-18 A | 12-Jul-19 A | | | | 100% | |
| 05-2790 | Fire services installation design (2.5.05) | Start On or After | 530 | 31-Mar-20 | 28-Jun-20 | 16-Jan-19 A | 28-Jun-20 | 05-Feb-21 | 06-May-21 | 311 | 5% | |
| EP_SP_66_12-WP-3-M28.05.01.05.7 | Building services design (excluding fire services installation design) (2.5.06) | | 575 | 31-Mar-20 | 12-Aug-20 | 16-Jan-19 A | 12-Aug-20 | 15-Apr-20 | 02-Dec-20 | 111 | | |
| 05-1830 | Electrical Services and Lighting for Wastewater Treatment Plant Building (2.5.06.01) | Start On or After | 470 | 31-Mar-20 | 29-Apr-20 | 16-Jan-19 A | 29-Apr-20 | 02-Nov-20 | 02-Dec-20 | 216 | 25% | |
| 05-1840 | MVAC (2.5.06.02) | Start On or After | 560 | 31-Mar-20 | 28-Jul-20 | 16-Jan-19 A | 28-Jul-20 | 30-Apr-20 | 28-Aug-20 | 30 | 25% | |
| 05-1850 | Odour Control (2.5.06.03) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 15-Apr-20 | 28-Aug-20 | 15 | 0% | |
| 05-1860 | Plumbing (2.5.06.04) | Start On or After | 560 | 31-Mar-20 | 28-Jul-20 | 16-Jan-19 A | 28-Jul-20 | 19-Jul-20 | 16-Nov-20 | 110 | 25% | |
| 05-1870 | Drainage (2.5.06.05) | Start On or After | 560 | 31-Mar-20 | 28-Jul-20 | 16-Jan-19 A | 28-Jul-20 | 19-Jul-20 | 16-Nov-20 | 110 | 25% | |
| 05-1880 | ELV (2.5.06.06) | Start On or After | 560 | 31-Mar-20 | 28-Jul-20 | 16-Jan-19 A | 28-Jul-20 | 04-Aug-20 | 02-Dec-20 | 126 | 25% | |
| EP_SP_66_12-WP-3-M28.05.01.06 | AIP Desalination Plant Building (2.6) | | 706 | 31-Mar-20 | 12-Aug-20 | 07-Sep-18 A | | | | | | |

| Activity ID | Activity Name | Primary Constraint | At Completion Duration | Current Start | Current Finish | Actual Start | Actual Finish | Latest Start | Latest Finish | Total Float | Activity % Complete | M28 Remarks |
|---|--|---------------------|------------------------|---------------|----------------|--------------|---------------|--------------|---------------|-------------|---------------------|-------------|
| 05-1920 | Structural design (2.6.02) | Start On or After | 206 | | | 21-May-19 A | 13-Dec-19 A | | | | 100% | |
| 05-1930 | Electrical and instrumentation works design (2.6.03) | Start On or After | 289 | | | 24-Oct-18 A | 09-Aug-19 A | | | | 100% | |
| 05-1940 | Mechanical works design (2.6.04) | Start On or After | 195 | | | 30-Nov-18 A | 13-Jun-19 A | | | | 100% | |
| 05-1950 | Fire services installation design (2.6.05) (3 Packages) | Start On or After | 462 | 31-Mar-20 | 24-Jun-20 | 20-Mar-19 A | 24-Jun-20 | 09-Feb-21 | 06-May-21 | 316 | 19% | |
| EP_SP_66_12-WP-3-M28.05.01.06.7 Building services design (excluding fire services installation design) (2.6.06) | | | | | | | | | | | | |
| 05-1960 | Electrical Services and Lighting (2.6.06.01) | Start On or After | 512 | 31-Mar-20 | 12-Aug-20 | 20-Mar-19 A | 12-Aug-20 | 15-Apr-20 | 02-Dec-20 | 111 | 5% | |
| 05-1970 | MVAC | Start On or After | 507 | 31-Mar-20 | 12-Aug-20 | 25-Mar-19 A | 12-Aug-20 | 15-Apr-20 | 28-Aug-20 | 15 | 5% | |
| 05-1980 | Odour Control | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 15-Apr-20 | 28-Aug-20 | 15 | 0% | |
| 05-1990 | Plumbing | Start On or After | 512 | 31-Mar-20 | 12-Aug-20 | 20-Mar-19 A | 12-Aug-20 | 04-Jul-20 | 16-Nov-20 | 95 | 5% | |
| 05-2000 | Drainage | Start On or After | 512 | 31-Mar-20 | 12-Aug-20 | 20-Mar-19 A | 12-Aug-20 | 04-Jul-20 | 16-Nov-20 | 95 | 5% | |
| 05-2010 | ELV | Start On or After | 512 | 31-Mar-20 | 12-Aug-20 | 20-Mar-19 A | 12-Aug-20 | 20-Jul-20 | 02-Dec-20 | 111 | 5% | |
| EP_SP_66_12-WP-3-M28.05.01.07 AIP Administration Building (2.7) | | | | | | | | | | | | |
| 05-2020 | Architectural Design (2.7.00) | Start On or After | 666 | 31-Mar-20 | 29-May-20 | 03-Aug-18 A | 29-May-20 | 23-Oct-20 | 22-Dec-20 | 206 | 65% | |
| 05-2030 | Foundation design (2.7.01) | Start On or After | 142 | | | 30-Sep-19 A | 19-Feb-20 A | | | | 100% | |
| 05-2040 | Structural design (2.7.02) | Start On or After | 446 | 31-Mar-20 | 16-Oct-20 | 29-Jul-19 A | 16-Oct-20 | 09-Oct-21 | 27-Apr-22 | 557 | 65% | |
| 05-2050 | Electrical and instrumentation works design (2.7.03) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 04-Oct-20 | 16-Feb-21 | 187 | 0% | |
| 05-2060 | Fire services installation design (3 Packages) (2.7.04) | Start On or After | 332 | 31-Mar-20 | 31-Jul-20 | 03-Sep-19 A | 31-Jul-20 | 04-Dec-20 | 06-Apr-21 | 249 | 9.5% | |
| EP_SP_66_12-WP-3-M28.05.01.07.6 Building services design (excluding fire services installation design) (2.7.05) | | | | | | | | | | | | |
| 05-2070 | Electrical Services and Lighting (2.7.05.01) | Start On or After | 345 | 31-Mar-20 | 12-Aug-20 | 03-Sep-19 A | 12-Aug-20 | 15-Apr-20 | 02-Dec-20 | 111 | 5% | |
| 05-2080 | MVAC | Start On or After | 345 | 31-Mar-20 | 12-Aug-20 | 03-Sep-19 A | 12-Aug-20 | 15-Apr-20 | 28-Aug-20 | 15 | 5% | |
| 05-2090 | Odour Control | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 15-Apr-20 | 28-Aug-20 | 15 | 0% | |
| 05-2100 | Plumbing | Start On or After | 345 | 31-Mar-20 | 12-Aug-20 | 03-Sep-19 A | 12-Aug-20 | 04-Jul-20 | 16-Nov-20 | 95 | 5% | |
| 05-2110 | Drainage | Start On or After | 345 | 31-Mar-20 | 12-Aug-20 | 03-Sep-19 A | 12-Aug-20 | 04-Jul-20 | 16-Nov-20 | 95 | 5% | |
| 05-2120 | ELV | Start On or After | 345 | 31-Mar-20 | 12-Aug-20 | 03-Sep-19 A | 12-Aug-20 | 20-Jul-20 | 02-Dec-20 | 111 | 5% | |
| 05-2130 | Lifts and Escalators | Start On or After | 227 | 31-Mar-20 | 12-Aug-20 | 30-Dec-19 A | 12-Aug-20 | 04-Jun-20 | 17-Oct-20 | 65 | 5% | |
| 05-2130-1(M20) | Building Management System (BMS) | Start On or After | 89 | 31-Mar-20 | 27-Jun-20 | 31-Mar-20* | 27-Jun-20 | 04-Jul-20 | 30-Sep-20 | 95 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.08 AIP IWMF Substation (2.8) | | | | | | | | | | | | |
| 05-2140 | Architectural Design (2.8.00) | Start On or After | 437 | | | 03-Aug-18 A | 14-Oct-19 A | | | | 100% | |
| 05-2150 | Foundation design (2.8.01) | Start On or After | 124 | | | 17-May-19 A | 18-Sep-19 A | | | | 100% | |
| 05-2160 | Structural design (2.8.02) | Start On or After | 168 | | | 31-Oct-18 A | 17-Apr-19 A | | | | 100% | |
| 05-2170 | Electrical and instrumentation works design (2.8.03) (14 Packages) | Start On or After | 245 | 31-Mar-20 | 25-Jun-20 | 25-Oct-19 A | 25-Jun-20 | 02-Jul-20 | 27-Sep-20 | 93 | 51.67% | |
| 05-2180 | Mechanical works design (2.8.04) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 01-Mar-20 | 14-Jul-20 | -30 | 0% | |
| 05-2190 | Fire services installation design (2.8.05) (2 Packages) | Start On or After | 612 | 31-Mar-20 | 30-Jul-20 | 27-Nov-18 A | 30-Jul-20 | 21-Sep-20 | 21-Jan-21 | 174 | 28.5% | |
| EP_SP_66_12-WP-3-M28.05.01.08.7 Building services design (excluding fire services installation design) (2.8.06) | | | | | | | | | | | | |
| 05-2200 | Electrical Services and Lighting (2.8.06.01) | Start On or After | 591 | 31-Mar-20 | 09-Jul-20 | 27-Nov-18 A | 09-Jul-20 | 19-May-20 | 02-Dec-20 | 145 | 36% | |
| 05-2210 | MVAC | Start On or After | 576 | 31-Mar-20 | 25-Jun-20 | 27-Nov-18 A | 25-Jun-20 | 06-Sep-20 | 02-Dec-20 | 160 | 36% | |
| 05-2220 | Plumbing | Start On or After | 591 | 31-Mar-20 | 09-Jul-20 | 27-Nov-18 A | 09-Jul-20 | 07-Aug-20 | 16-Nov-20 | 129 | 65% | |
| 05-2230 | Drainage | Start On or After | 387 | 31-Mar-20 | 28-Jun-20 | 27-Nov-18 A | 28-Jun-20 | 03-Sep-20 | 02-Dec-20 | 156 | 65% | |
| 05-2240 | ELV | Start On or After | 580 | 31-Mar-20 | 28-Jun-20 | 27-Nov-18 A | 28-Jun-20 | 03-Sep-20 | 02-Dec-20 | 156 | 65% | |
| 05-2240-1(M20) | Building Management System (BMS) | Start On or After | 89 | 31-Mar-20 | 27-Jun-20 | 31-Mar-20* | 27-Jun-20 | 03-Jul-20 | 29-Sep-20 | 94 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.09 AIP Air Quality Monitoring Stations (2.9) | | | | | | | | | | | | |
| 05-2250 | Design of the Air Quality Monitoring Stations (2.9.01) | Start On or After | 120 | 31-Mar-20 | 28-Jul-20 | 31-Mar-20* | 28-Jul-20 | 06-Jul-20 | 03-Nov-20 | 97 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.10 AIP Roads and Utilities (2.10) | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.05.01.10.1 Permanent road works layout on the Artificial Island (2.10.01) | | | | | | | | | | | | |
| 05-2260 | Roads and hardstandings layout | Start On or After | 135 | 17-Dec-20 | 30-Apr-21 | 17-Dec-20* | 30-Apr-21 | 26-Aug-22 | 07-Jun-23 | 767 | 0% | |
| 05-2270 | Road signage and markings | Start On or After | 135 | 17-Dec-20 | 30-Apr-21 | 17-Dec-20* | 30-Apr-21 | 23-Jan-23 | 07-Jun-23 | 767 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.10.2 Sewerage design on the Artificial Island (2.10.02) | | | | | | | | | | | | |
| 05-2280 | Foul Sewerage concept sizing | Start On or After | 330 | 31-Mar-20 | 12-Aug-20 | 18-Sep-19 A | 12-Aug-20 | 03-Aug-20 | 30-Jan-22 | 535 | 65% | |
| 05-2290 | Contaminated Sewerage concept / sizing | Start On or After | 330 | 31-Mar-20 | 12-Aug-20 | 18-Sep-19 A | 12-Aug-20 | 17-Sep-21 | 30-Jan-22 | 535 | 65% | |
| EP_SP_66_12-WP-3-M28.05.01.10.3 Drainage system design on the Artificial Island (2.10.03) | | | | | | | | | | | | |
| 05-2300 | Surface Water Drainage System concept / sizing | Start On or After | 449 | 31-Mar-20 | 12-Aug-20 | 22-May-19 A | 12-Aug-20 | 03-Aug-20 | 16-Dec-20 | 125 | 65% | |
| 05-2310 | First Flush Drainage System concept / sizing | Start On or After | 449 | 31-Mar-20 | 12-Aug-20 | 22-May-19 A | 12-Aug-20 | 21-Nov-20 | 05-Apr-21 | 235 | 65% | |
| EP_SP_66_12-WP-3-M28.05.01.10.4 Water supply system design on the Artificial Island (2.10.04) | | | | | | | | | | | | |
| 05-2320 | Potable Water Distribution System (2.10.04.01) | Start On or After | 349 | 31-Mar-20 | 12-Aug-20 | 30-Aug-19 A | 12-Aug-20 | 30-Nov-19 | 01-Mar-22 | 565 | 5% | |
| 05-2330 | Recycled Water System (2.10.04.02) | Start On or After | 272 | 31-Mar-20 | 12-Aug-20 | 14-Nov-19 A | 12-Aug-20 | 28-Aug-21 | 10-Jan-22 | 515 | 5% | |
| 05-2340 | Irrigation System (2 Packages) (2.10.04.03) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 03-Aug-20 | 16-Dec-20 | 125 | 0% | |
| 05-2350 | Rainwater harvesting System (2.10.04.04) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 03-Aug-20 | 16-Dec-20 | 125 | 0% | |
| 05-2360 | Water Tanks (2.10.04.05) | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 17-Oct-21 | 01-Mar-22 | 565 | 0% | |
| 05-2370 | External FS Systems (2.10.04.06) | Start On or After | 283 | 31-Mar-20 | 12-Aug-20 | 04-Nov-19 A | 12-Aug-20 | 17-Oct-21 | 01-Mar-22 | 565 | 5% | |
| 05-2370-1(M24) | E&M system for seawater intake and brine discharge (2.10.04.07) | Finish On or Before | 307 | 31-Mar-20 | 01-Jul-20 | 30-Aug-19 A | 01-Jul-20* | 30-Nov-19 | 01-Mar-20 | -122 | 5% | |
| 05-2370-2(M24) | Building Services system for seawater intake and brine discharge (2.10.04.09) | Finish On or Before | 88 | 31-Mar-20 | 26-Jun-20 | 31-Mar-20 | 26-Jun-20* | 30-Nov-19 | 25-Feb-20 | -122 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.10.6 Design of telecommunication and other utilities (2.10.06) | | | | | | | | | | | | |
| 05-2380 | Power Distribution System concept / schematics | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 31-Dec-20 | 15-May-21 | 275 | 0% | |
| 05-2390 | Site Lighting Concept / Schematics | Start On or After | 239 | 31-Mar-20 | 12-Aug-20 | 18-Dec-19 A | 12-Aug-20 | 26-Jan-20 | 09-Jun-20 | -65 | 5% | |
| 05-2400 | Lightning Protection System concept / schematics | Start On or After | 239 | 31-Mar-20 | 12-Aug-20 | 18-Dec-19 A | 12-Aug-20 | 13-Aug-20 | 26-Dec-20 | 135 | 5% | |
| 05-2410 | Site ELV Network System - Communications System concept / schematics | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 31-Dec-20 | 15-May-21 | 275 | 0% | |
| 05-2420 | Site ELV Network System - Security Systems concept / schematics | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 31-Dec-20 | 15-May-21 | 275 | 0% | |
| 05-2430 | Site ELV Network System - Navigation aids concept / schematics | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 31-Dec-20 | 15-May-21 | 275 | 0% | |
| 05-2440 | Microwave transmission of FS direct link (2.10.06.07) | Start On or After | 580 | 31-Mar-20 | 28-Jun-20 | 27-Nov-18 A | 28-Jun-20 | 14-Feb-21 | 15-May-21 | 320 | 45% | |
| 05-2450 | Fuel Handling System concept / schematics (2.10.06.08) | Start On or After | 202 | 31-Mar-20 | 12-Aug-20 | 24-Jan-20 A | 12-Aug-20 | 10-Sep-22 | 23-Jan-23 | 893 | 0% | |
| 05-3190 | Computerised Maintenance Management System (CMMS) | Start On or After | 380 | 31-Mar-20 | 13-Jul-20 | 30-Jun-19 A | 13-Jul-20 | 28-May-20 | 10-Sep-20 | 58 | 0% | |
| 05-3200 | Information and Document Management System (IDMS) | Start On or After | 448 | 31-Mar-20 | 13-Jul-20 | 23-Apr-19 A | 13-Jul-20 | 28-May-20 | 10-Sep-20 | 58 | 0% | |
| 05-3840 (M22) | Automatic Traffic Control System (ATCS) | Start On | 300 | 31-Mar-20 | 24-Jan-21 | 31-Mar-20* | 24-Jan-21 | 18-Dec-19 | 12-Oct-20 | -104 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.10.7 Utility ducts/Pipebridges design (2.10.25) | | | | | | | | | | | | |
| 05-2460 | Design of Pipe / Utilities Trenches concept | Start On or After | 135 | 30-May-21 | 11-Oct-21 | 30-May-21* | 11-Oct-21 | 19-Dec-22 | 03-May-23 | 568 | 0% | |
| 05-2470 | Utility ducts network | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 19-Apr-20 | 01-Sep-20 | 19 | 0% | |
| 05-2480 | Pipebridge network - Layout | Start On or After | 120 | 31-Mar-20 | 28-Jul-20 | 31-Mar-20* | 28-Jul-20 | 04-May-20 | 01-Sep-20 | 34 | 0% | |
| 05-2490 | Pipebridge network - Foundation Plan | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 19-Apr-20 | 01-Sep-20 | 19 | 0% | |
| 05-2500 | Pipebridge network - Structure Plan | Start On or After | 135 | 31-Mar-20 | 12-Aug-20 | 31-Mar-20* | 12-Aug-20 | 19-Apr-20 | 01-Sep-20 | 19 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11) | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.05.01.11.1 External and internal finishes design for Incineration Plant Buildings (2.11.01) | | | | | | | | | | | | |
| 05-2510 | External and internal finishes design for Incineration Plant Building (6 Packages) | Start On or After | 137 | 31-Mar-20 | 14-Aug-20 | 31-Mar-20* | 14-Aug-20 | 28-Jun-21 | 12-Nov-21 | 454 | 0% | |
| 05-2520 | External and internal finishes design for ACC Equipment Structure | Start On or After | 137 | 31-Mar-20 | 14-Aug-20 | 31-Mar-20* | 14-Aug-20 | 28-Jun-21 | 12-Nov-21 | 454 | 0% | |
| 05-2530 | External and internal finishes design for Turbine Hall Building (3 Packages) | Start On or After | 137 | 31-Mar-20 | 14-Aug-20 | 31-Mar-20* | 14-Aug-20 | 26-Sep-21 | 10-Feb-22 | 544 | 0% | |
| 05-2540 | External and internal finishes design for Air Compressor Building (3 Packages) | Start On or After | 137 | 31-Mar-20 | 14-Aug-20 | 31-Mar-20* | 14-Aug-20 | 24-Aug-21 | 08-Jan-22 | 511 | 0% | |
| 05-2550 | External and internal finishes design for Chimney (6 Packages) | Start On or After | 137 | 31-Mar-20 | 14-Aug-20 | 31-Mar-20* | 14-Aug-20 | 27-Aug-21 | 11-Jan-22 | 514 | 0% | |
| 05-2560 | External and internal finishes design for Reception Pavilion (5 Packages) | Start On or After | 137 | 31-Mar-20 | 14-Aug-20 | 31-Mar-20* | 14-Aug-20 | 27-Aug-21 | 11-Jan-22 | 514 | 0% | |
| EP_SP_66_12-WP-3-M28.05.01.11.2 External and internal finishes design for MT Plant Building (2.11.02) | | | | | | | | | | | | |
| 05-2570 | External and internal finishes design for MT Plant Building (2.11.02) | Start On or After | 136 | 31-Mar-20 | 13-Aug-20 | 31-Mar-20 | 13-Aug-20 | 13-Jun-21 | 27-Oct-21 | 439 | 0% | |

Legend for Gantt chart symbols:

- Primary Baseline (Yellow bar)
- WP3 BL Critical Works (Red bar)
- Remaining Work (Green bar)
- Actual Work (Blue bar)
- Critical Remaining Work (Red diamond)
- Baseline Milestone (Yellow diamond)
- WP3 BL Critical Milestone (Red diamond)
- Milestone (Green diamond)
- Actual Milestone (Blue diamond)
- Critical Milestone (Red diamond)

| Date | Revision | Checked | Approved |
|-----------|-------------------------|---------|----------|
| 04/12/17 | Rev. 0 - 1st Issue | | |
| 31-Jan-20 | Rev 3 - Jan 2020 Update | | |
| 29-Feb-20 | Rev 3 - Feb 2020 Update | | |
| 30-Mar-20 | Rev 3 - Mar 20 | | |

| Activity ID | Activity Name | Primary Constraint | At Completion Duration | Current Start | Current Finish | Actual Start | Actual Finish | Latest Start | Latest Finish | Total Float | Activity % Complete | M28 Remarks | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
|---------------------------------|--|--------------------|------------------------|---------------|----------------|--------------|---------------|--------------|---------------|-------------|---------------------|-------------|------|------|------|------|------|------|------|------|------|------|
| 08-1040-46(3) | Pre-construction Site Trial Report Submission | | 247 | | | 06-Dec-18 A | 10-Aug-19 A | | | | 100% | | | | | | | | | | | |
| 08-1040-47(3) | Plant Trial Report Submission | | 136 | | | 27-Mar-19 A | 10-Aug-19 A | | | | 100% | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.08.1.1.1.3 | DCM Static Load Test | | 373 | | | 02-Aug-18 A | 10-Aug-19 A | | | | | | | | | | | | | | | |
| 08-1050-01(1)(A) | Lay Geotextile and Sand Blanket | | 7 | | | 02-Aug-18 A | 09-Aug-18 A | | | | 100% | | | | | | | | | | | |
| 08-1050-02(1)(A) | DCM installation for load test | | 26 | | | 11-Sep-18 A | 06-Oct-18 A | | | | 100% | | | | | | | | | | | |
| 08-1050-03(1)(A) | Coring for proof test | | 33 | | | 07-Oct-18 A | 08-Nov-18 A | | | | 100% | | | | | | | | | | | |
| 08-1050-04(1)(A) | Carry UCS test and issue preliminary report | | 32 | | | 09-Oct-18 A | 09-Nov-18 A | | | | 100% | | | | | | | | | | | |
| 08-1050-04-1(3) | Post CPT for installed DCM (13nr) | | 24 | | | 27-Dec-18 A | 28-Feb-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-04-2(3) | Additional DCM Installation for failed clusters (3 nr) | | 0 | | | 13-Feb-19 A | 13-Feb-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-05(1)(A) | Construction of Rockfill Rubble Mound (include heaving treatment) | | 12 | | | 28-Feb-19 A | 12-Mar-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-06(1)(A) | Instrumentation installation | | 72 | | | 20-Mar-19 A | 31-May-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-08(1)(A) | Loading PC Blocks to +9.8mPD | | 8 | | | 01-Jun-19 A | 09-Jun-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-09(1)(A) | 7 days Monitoring | | 7 | | | 10-Jun-19 A | 17-Jun-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-10(1)(A) | Loading PC Blocks to +11.15mPD | | 6 | | | 18-Jun-19 A | 24-Jun-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-11(1)(A) | 3 days Monitoring | | 3 | | | 25-Jun-19 A | 28-Jun-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-12(1)(A) | Unloading PC Blocks | | 31 | | | 30-Jun-19 A | 31-Jul-19 A | | | | 100% | | | | | | | | | | | |
| 08-1050-13(1)(A) | Coring for Instrumentation (9 Holes) | | 64 | | | 14-Mar-19 A | 31-May-19 A | | | | 100% | | | | | | | | | | | |
| 08-1065(2) | Static load test report submission | | 42 | | | 29-Jun-19 A | 10-Aug-19 A | | | | 100% | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.08.1.1.4 | DCM Injection Works | | 512 | | | 29-Sep-18 A | 23-Feb-20 A | | | | | | | | | | | | | | | |
| 08-1070 | Geotextile Laying | | 152 | | | 29-Sep-18 A | 28-Feb-19 A | | | | 100% | | | | | | | | | | | |
| 08-1075(2) | Sand Blanket Laying | | 216 | | | 29-Sep-18 A | 03-May-19 A | | | | 100% | | | | | | | | | | | |
| 08-1080 | DCM Injection Works (575,000m3, approx 6491 nr.) | | 374 | | | 10-Dec-18 A | 19-Dec-19 A | | | | 100% | | | | | | | | | | | |
| 08-1090 | DCM Final Completion Tests | | 380 | | | 08-Feb-19 A | 23-Feb-20 A | | | | 100% | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.08.1.1.5 | Seawall Structural Works | | 1094 | 31-Mar-20 | 27-Jan-22 | 30-Jan-19 A | 27-Jan-22 | 04-Nov-19 | 03-Jan-22 | -25 | | | | | | | | | | | | |
| 08-1100 | Rubble Mound Laying (100,000m3 approx, @550m3/d) | | 323 | 31-Mar-20 | 14-May-20 | 27-Jun-19 A | 14-May-20 | 26-Nov-19 | 10-Jan-20 | -126 | 75.27% | | | | | | | | | | | |
| 08-1105(1) | Prefabrication for Caisson (Inc. preparation works) | | 508 | 31-Mar-20 | 20-Jun-20 | 30-Jan-19 A | 20-Jun-20 | 04-Nov-19 | 25-Jan-20 | -148 | 70.92% | | | | | | | | | | | |
| 08-1105(2) (M22) | Prefabrication for Caisson (No.1 to No.3) | | 121 | | | 29-May-19 A | 27-Sep-19 A | | | | 100% | | | | | | | | | | | |
| 08-1105(3) (M22) | Prefabrication for Caisson (No.4 to No.13) | | 121 | | | 31-Jul-19 A | 29-Nov-19 A | | | | 100% | | | | | | | | | | | |
| 08-1105(4) (M22) | Prefabrication for Caisson (No.14 to No.23) | | 149 | 31-Mar-20 | 05-Apr-20 | 09-Nov-19 A | 05-Apr-20 | 05-Dec-19 | 11-Dec-19 | -117 | 80% | | | | | | | | | | | |
| 08-1105(5) (M22) | Prefabrication for Caisson (No.24 to No.33) | | 159 | 31-Mar-20 | 06-May-20 | 30-Nov-19 A | 06-May-20 | 04-Nov-19 | 11-Dec-19 | -148 | 0% | | | | | | | | | | | |
| 08-1105(6) (M22) | Prefabrication for Caisson (No.34 to No.43) | | 30 | 07-May-20 | 05-Jun-20 | 07-May-20 | 05-Jun-20 | 11-Dec-19 | 10-Jan-20 | -148 | 0% | | | | | | | | | | | |
| 08-1105(7) (M22) | Prefabrication for Caisson (No.44 to No.50) | | 29 | 23-May-20 | 20-Jun-20 | 23-May-20 | 20-Jun-20 | 27-Dec-19 | 25-Jan-20 | -148 | 0% | | | | | | | | | | | |
| 08-1110 | Caisson Laying (Total 43nrs for Seawall Structure and 7nrs for Marine Access, @2 nrs/week) | Start On or After | 278 | 21-Jun-20 | 20-Jul-20 | 17-Oct-19 A | 20-Jul-20 | 25-Jan-20 | 24-Feb-20 | -148 | 18% | | | | | | | | | | | |
| 08-1115(3) | Caisson infill, Solid ballast, toe protection, precast concrete blocks ...etc Laying | | 333 | 31-Mar-20 | 04-Oct-20 | 07-Nov-19 A | 04-Oct-20 | 25-Feb-20 | 31-Aug-20 | -35 | 24.8% | | | | | | | | | | | |
| 08-1120 | Wave Wall Construction | | 120 | 30-Sep-21 | 27-Jan-22 | 30-Sep-21 | 27-Jan-22 | 05-Sep-21 | 03-Jan-22 | -25 | 0% | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.08.1.1.2 | Seawall at Dredging Area | | 605 | 31-Mar-20 | 18-Oct-20 | 22-Feb-19 A | 18-Oct-20 | 11-Dec-19 | 03-Jan-22 | 441 | | | | | | | | | | | | |
| 08-1130 | Dredging Works (26,000m3 @ 285m3/d avg, to comply EP Conditions 2.18) | | 301 | | | 22-Feb-19 A | 20-Dec-19 A | | | | 100% | | | | | | | | | | | |
| 08-1140 | Lay Rock & Sand Fill | | 308 | 31-Mar-20 | 29-Apr-20 | 27-Jun-19 A | 29-Apr-20 | 26-Dec-19 | 25-Jan-20 | -96 | 80% | | | | | | | | | | | |
| 08-1150 | Place Rubble Mound (35,000m3 approx, @550m3/d) | Start On or After | 196 | 31-Mar-20 | 14-May-20 | 01-Nov-19 A | 14-May-20 | 11-Dec-19 | 25-Jan-20 | -111 | 70% | | | | | | | | | | | |
| 08-1155(2) | Fabrication and delivery of Precast Seawall Blocks (323nr. approx) | Start On or After | 227 | 31-Mar-20 | 10-Jun-20 | 28-Oct-19 A | 10-Jun-20 | 14-Dec-19 | 24-Feb-20 | -108 | 85% | | | | | | | | | | | |
| 08-1160 | Lay Concrete Block Walls (300m length approx, @4m/d) | | 182 | 28-May-20 | 20-Jul-20 | 21-Jan-20 A | 20-Jul-20 | 01-Jan-20 | 24-Feb-20 | -148 | 10% | | | | | | | | | | | |
| 08-1170 | Insitu Concrete Wall Construction | | 90 | 21-Jul-20 | 18-Oct-20 | 21-Jul-20 | 18-Oct-20 | 05-Oct-21 | 03-Jan-22 | 441 | 0% | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.08.1.2 | Phase II - Reclamation, Breakwater and Berth Construction | | 1247 | 31-Mar-20 | 11-Jun-22 | 12-Jan-19 A | 11-Jun-22 | 21-Dec-19 | 02-Jan-23 | 204 | | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.08.1.2.1 | Reclamation | | 1247 | 31-Mar-20 | 11-Jun-22 | 12-Jan-19 A | 11-Jun-22 | 21-Dec-19 | 06-Jun-22 | -6 | | | | | | | | | | | | |
| 08-1180 | Geotextile Laying (Approx. 60,000m2, @ 450m2/d) | | 323 | | | 12-Jan-19 A | 01-Dec-19 A | | | | 100% | | | | | | | | | | | |
| 08-1185(2) | Sand Blanket Laying (Approx. 120,000m3, @ 1200m3/d) | | 198 | 31-Mar-20 | 14-Apr-20 | 30-Sep-19 A | 14-Apr-20 | 10-Feb-20 | 25-Feb-20 | -50 | 85% | | | | | | | | | | | |
| 08-1190 | Install Vertical Band Drain by Barge (approx. 80,000 nr. @ 500/d) | Start On or After | 111 | 31-Mar-20 | 04-Jun-20 | 15-Feb-20 A | 04-Jun-20 | 21-Dec-19 | 25-Feb-20 | -101 | 12.5% | | | | | | | | | | | |
| 08-1200 | Reclamation fill up to +2.5mPD (1,500,025m3 @ 4000m3/d) | | 375 | 22-Jul-20 | 31-Jul-21 | 22-Jul-20 | 31-Jul-21 | 25-Feb-20 | 06-Mar-21 | -148 | 0% | | | | | | | | | | | |
| 08-1210 | Reclamation fill from +2.5 to Formation Level (510,000m3 @ 4250m3/d) | | 120 | 02-Jun-21 | 29-Sep-21 | 02-Jun-21 | 29-Sep-21 | 05-Jan-21 | 05-May-21 | -148 | 0% | | | | | | | | | | | |
| 08-1220 | Lay Surcharge (605,000m3 @ 7600m3/d) | | 80 | 11-Aug-21 | 29-Oct-21 | 11-Aug-21 | 29-Oct-21 | 16-Mar-21 | 04-Jun-21 | -148 | 0% | | | | | | | | | | | |
| 08-1230 | Surcharge Period | | 180 | 30-Oct-21 | 27-Apr-22 | 30-Oct-21 | 27-Apr-22 | 04-Jun-21 | 01-Dec-21 | -148 | 0% | | | | | | | | | | | |
| 08-1240 | Remove Surcharge | | 85 | 04-Mar-22 | 27-May-22 | 04-Mar-22 | 27-May-22 | 07-Oct-21 | 31-Dec-21 | -148 | 0% | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.08.1.2.1.1 | Instrumentation | | 752 | 20-May-20 | 11-Jun-22 | 20-May-20 | 11-Jun-22 | 06-Nov-20 | 06-Jun-22 | -6 | | | | | | | | | | | | |
| 08-1330 (M23) | Placing Settlement Plates for Settlement Markers on Top of Sand Blanket (~18nrs) | | 30 | 20-May-20 | 19-Jun-20 | 20-May-20 | 19-Jun-20 | 06-Nov-20 | 06-Dec-20 | 169 | 0% | | | | | | | | | | | |
| 08-1340 (M23) | Placing Settlement Plates for Settlement Markers on +2.5mPD (~42nrs) | | 120 | 03-May-21 | 30-Aug-21 | 03-May-21 | 30-Aug-21 | 06-Dec-20 | 05-Apr-21 | -148 | 0% | | | | | | | | | | | |
| 08-1350 (M23) | Extension of instruments above +2.5mPD | | 65 | 07-Jul-21 | 09-Sep-21 | 07-Jul-21 | 09-Sep-21 | 21-Mar-21 | 25-May-21 | -108 | 0% | | | | | | | | | | | |
| 08-1360 (M23) | Extension of instruments to intermediate levels | | 42 | 04-Aug-21 | 14-Sep-21 | 04-Aug-21 | 14-Sep-21 | 18-Apr-21 | 30-May-21 | -108 | 0% | | | | | | | | | | | |
| 08-1370 (M23) | Extension of instruments to finished levels | | 42 | 09-Aug-21 | 19-Sep-21 | 09-Aug-21 | 19-Sep-21 | 23-Apr-21 | 04-Jun-21 | -108 | 0% | | | | | | | | | | | |
| 08-1375 (M23) | Extension of instruments to surcharge top levels | | 65 | 20-Sep-21 | 23-Nov-21 | 20-Sep-21 | 23-Nov-21 | 03-Aug-21 | 07-Oct-21 | -48 | 0% | | | | | | | | | | | |
| 08-1380 (M23) | Lower down the instruments to finished ground levels | | 60 | 13-Apr-22 | 11-Jun-22 | 13-Apr-22 | 11-Jun-22 | 07-Apr-22 | 06-Jun-22 | -6 | 0% | | | | | | | | | | | |
| EP_SP_66_12-WP-3-M28.08.1.2.2 | Breakwater | | 829 | 19-Apr-20 | 23-Jun-21 | 18-Mar-19 A | 23-Jun-21 | 30-Nov-21 | 02-Jan-23 | 557 | | | | | | | | | | | | |
| 08-1250 | Geotextile and Sand Blanket Laying | | 319 | | | 18-Mar-19 A | 31-Jan-20 A | | | | 100% | | | | | | | | | | | |
| 08-1260 | DCM Injection Works (290,000m3, approx 3200 nr.) | | 240 | 02-May-20 | 29-May-20 | 03-Oct-19 A | 29-May-20 | 30-Nov-21 | 27-Dec-21 | 577 | 57% | | | | | | | | | | | |
| 08-1270 | DCM Final Completion Test | | 71 | 19-Apr-20 | 28-Jun-20 | 19-Apr-20 | 28-Jun-20 | 30-Nov-21 | 09-Feb- | | | | | | | | | | | | | |

Appendix B Summary of Implementation Status of Environmental Mitigation

Appendix B

Table B.1 Implementation Schedule for Air Quality Measures for the IWMF at the artificial island near SKC

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|--|--|----------------------|------------------------|---|---|-----|--|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| S3b.8.1 | <p><u>Air Pollution Control (Construction Dust) Regulation & Good Site Practices</u></p> <ul style="list-style-type: none"> • Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. • Use of frequent watering for particularly dusty construction areas and areas close to ASRs. • Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. • Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. • Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. | Work site / During the construction period | Contractor | | ✓ | | | Air Pollution Control (Construction Dust) Regulation | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|--|--|----------------------|------------------------|---|---|-----|--|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <ul style="list-style-type: none"> Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. | | | | | | | | |
| S3b.6.3 | <p><u>Odour Removal by Deodorizers</u></p> <ul style="list-style-type: none"> Deodorizers with 95% odour removal efficiency would be installed for the air ventilated from the mechanical treatment plant before discharge to the atmosphere | Waste reception halls, the waste storage area, | IWMF Operator | ✓ | | ✓ | | EIAO-TM | N/A |
| S3b.8.2 | <p><u>Air Pollution Control and Stack Monitoring</u></p> <ul style="list-style-type: none"> Air pollution control and stack monitoring system will be installed for the IWMF to ensure that the | IWMF stack emissions / During design & | IWMF Operator | ✓ | | ✓ | | EIAO-TM, Supporting Document for Application for | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|--|------------------------|----------------------|------------------------|---|---|-----|---|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <p>emissions from the IWMF stack will meet the proposed target emission limits.</p> <ul style="list-style-type: none"> Voluntary Enhancement Measures in Flue Gas Cleaning and Emission Monitoring: <ol style="list-style-type: none"> Two-stage bag filter system with reagent recirculation; In addition to SCR, provide SNCR for removal of NO_x; tighten emission limit for half-hourly and daily NO_x to 160 mg/m³ and 80 mg/m₃ respectively; Well-mixed feed waste: to minimize the fluctuation of pollutant loading on the flue gas treatment system; Two more AQMSs would be set up at South Lantau and Shek Kwu Chau respectively; Limit levels will be set under the IWMF DBO contract to require that waste feed shall cease if any of the air pollutant has exceeded 95% of the emission concentration limit as stipulated in the Special Process license; and Each incineration chamber shall be fitted with auxiliary burners to ensure complete burn out of the combustion gases. | operation phase | | | | | | Variation of Environmental Permit (EP-429/2012) | |
| - | <u>Treated Fly Ash and Air Pollution Control Residues:</u> | IWMF stack emissions / | IWMF Operator | ✓ | | ✓ | | Supporting Document for | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|---|---------------------------------|----------------------|------------------------|---|---|-----|---|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <ul style="list-style-type: none"> During testing and commissioning, the Contractor shall sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. During the first six months of operation, if the requirements in (a) could be fully conformed with, the Contractor shall sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit. The Contractor shall take two samples from each shipload for testing and the Contractor shall not dispose of any of that shipload of treated fly ash and air pollution control residues until the test | During design & operation phase | | | | | | Application for Variation of Environmental Permit (EP-429/2012) | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|---|-------------------|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <p>results confirm that the two samples conform to the limits and the criteria. If a test result confirms that any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal.</p> <ul style="list-style-type: none"> • Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from one shipload of treated fly ash and air pollution control residues shall be collected and tested for conformance to the Incineration Residue Pollution Control Limits and leachability criteria. The Contractor shall not dispose of any of the treated fly ash and air pollution control residues in the | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|---|---|----------------------|------------------------|---|---|-----|---|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <p>shipload which the samples are taken until the test results confirm that the samples conform to the limits and the criteria. If the test result confirm that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit for the next six months.</p> | | | | | | | | |
| - | <p><u>Bottom Ash:</u></p> <ul style="list-style-type: none"> • During testing and commissioning, the Contractor shall sample and test every container of bottom ash for conformance to the leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test every container of bottom ash for conformance to the leachability criteria for the next six months. • During the first six months of operation, if the requirements in (d) could be fully conformed with, the Contractor shall sample and test one shipload of bottom ash each month | <p>IWMF stack emissions / During design & operation phase</p> | IWMF Operator | ✓ | | ✓ | | Supporting Document for Application for Variation of Environmental Permit (EP-429/2012) | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|---|-------------------|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <p>for conformance to the leachability criteria shown in Table 2 of the Environmental Permit. The Contractor shall take two samples from the shipload for testing and the Contractor shall not dispose of any of that shipload of bottom ash until the test results confirm that the two samples conform to the criteria. If a test result confirms that any one of the two samples does not conform to the criteria, the Contractor shall be required to sample and test each shipload of bottom ash for conformance to the leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test bottom ash before disposal.</p> <ul style="list-style-type: none"> • Provided that there is no non-conformance to the leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous six month period in the Operation Period, the Contractor shall be allowed to take two samples from any one shipload of bottom ash once every six months for conformance to the leachability criteria. The Contractor shall not dispose of any of the bottom ash in the shipload which the samples are | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|--|-------------------|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | taken until the test results confirm that the samples conform to the criteria. If the test result confirm that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test one shipload of bottom ash each month for conformance to the leachability criteria shown in Table 2 of the Environmental Permit for the next six months as stipulated above. | | | | | | | | |

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.2 Implementation Schedule for Noise Impact Measures for the IWMF at the artificial island near SKC

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------------|--|--|-------------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| S4b.8 | Good site practices to limit noise emissions at source and use of quiet plant and working methods, whenever practicable. | Work Sites / Construction Period | EPD and its contractors | | ✓ | | | EIAO-TM | Implemented |
| S4b.6 & S4b.8 | <p>All the ventilation fans installed in the below will be provided with silencers or acoustics treatment.</p> <p>(i) Stack of the incinerator (ii) Ventilation systems within the IWMF Enclosure and discharge silencer or other acoustic treatment equipment should be installed in the air-cooled chillers</p> <p>Other than provision of silencer or other acoustic treatment equipment for the stack of the incinerator and ventilation system, the detailed design should incorporate the following good practice in order to minimize the nuisance on the neighboring NSRs.</p> <p>(i) The exhaust of the ventilation system and any opening of the building should be located facing away from any NSRs; and (ii) Louver or other acoustic treatment equipment could also be applied to the exhaust of the ventilation system.</p> | Within IWMF area / Construction Period | EPD and its contractors | ✓ | | ✓ | | EIAO-TM | N/A |

| | | | | | | | | | |
|---|--|-----------|--|---|---|--|--|---|-------------|
| - | <u>Voluntary Enhancement Measure</u> <ul style="list-style-type: none"> Provision of air-conditioner and double glazed windows to nearby NSR at Shek Kwu Chau (i.e. SARDA) as precautionary measures. | IWMF site | Design team, contractor, IWMF operator | ✓ | ✓ | | | Supporting Document for Application for Variation of Environmental Permit (EP-429/2012) | Implemented |
|---|--|-----------|--|---|---|--|--|---|-------------|

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.3 Implementation Schedule for Water Quality Measures for the Artificial Island near SKC

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-----------|--|--|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| S5b.8.1.1 | <p><u>Drainage and Construction Site Runoff</u></p> <p>The site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. These practices include the following items:</p> <ul style="list-style-type: none"> • At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented to the commencement of construction. • Boundaries of earthworks should be surrounded by dykes or embankments for flood protection, as necessary. • Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The detailed design of the sand/silt traps shall be undertaken by the contractor • Water pumped out from foundation | Work site / During the construction period | Contractor | | ✓ | | | EIAO-TM; ProPECC PN 1/94; WPCO | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-----------|--|--|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <p>piles must be discharged into silt removal facilities.</p> <ul style="list-style-type: none"> Measures should be taken to minimize the ingress of site runoff and drainage into excavations. Drainage water pumped out from excavations should be discharged into storm drains via silt removal facilities. During rainstorms, exposed slope/soil surfaces should be covered by a tarpaulin or other means, as far as practicable. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC PN 1/94. Exposed soil areas should be minimized to reduce potential for increased siltation and contamination of runoff. Earthwork final surfaces should be well compacted and subsequent permanent work or surface protection should be immediately performed. Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. | | | | | | | | |
| S5b.8.1.2 | <p><u>General Construction Activities</u></p> <p>Construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby watercourses and public drainage</p> | Work site / During the construction period | Contractor | | ✓ | | | EIAO-TM; ProPECC PN 1/94; WPCO | Implemented |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-----------|---|--|----------------------|------------------------|---|---|-----|-------------------------------------|---|
| | | | | Des | C | O | Dec | | |
| | system. Rubbish and litter from construction sites should also be collected to prevent spreading of rubbish and litter from the site area. | | | | | | | | |
| S5b.8.1.3 | There is a need to apply to EPD for a discharge license for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge license. All the run-off 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 and general cleaning etc., can minimize 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 which is under the ambit of regional office of EPD. | Work site / During the construction period | Contractor | | ✓ | | | EIAO-TM; ProPECC PN 1/94; WPCO | Discharge License was issued on 22/08/2019. |
| S5b.8.1.4 | <u>Accidental Spillage</u> Contractor must register as a chemical waste producer if chemical wastes would be produced from 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. | Work site / During the construction period | Contractor | | ✓ | | | EIAO-TM; ProPECC PN 1/94; WPCO; WDO | Implemented |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-----------|--|--|----------------------|------------------------|---|---|-----|-------------------------------------|--|
| | | | | Des | C | O | Dec | | |
| S5b.8.1.5 | Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas which appropriately equipped to control these discharges. | Work site / During the construction period | Contractor | | ✓ | | | EIAO-TM; ProPECC PN 1/94; WPCO; WDO | Deficiency of Mitigation Measures but rectified by the Contractor. |
| S5b.8.1.6 | Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal. | Work site / During the construction period | Contractor | | ✓ | | | EIAO-TM; ProPECC PN 1/94; WPCO; WDO | Deficiency of Mitigation Measures but rectified by the Contractor. |
| S5b.8.1.7 | <p>Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:</p> <ul style="list-style-type: none"> • Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. • Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. • Storage area should be selected at a safe location on site and adequate space should be allocated to the | Work site / During the construction period | Contractor | | ✓ | | | EIAO-TM; ProPECC PN 1/94; WPCO; WDO | Deficiency of Mitigation Measures but rectified by the Contractor. |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-----------|---|---|----------------------|------------------------|---|---|-----|---|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | storage area. | | | | | | | | |
| S5b.8.1.8 | <p><u>Sewage Effluent</u></p> <p>Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible.</p> | Work site / During the construction period | Contractor | | ✓ | | | EIAO-TM; ProPECC PN 1/94; WPCO | N/A |
| S5b.8.1.9 | <p><u>Reclamation and Construction of Breakwaters</u></p> <ul style="list-style-type: none"> The proposed dredging and reclamation should be commenced in phases. The breakwaters and seawalls should be constructed and the reclamation should be started within the enclosed breakwaters after the completion of the breakwater. Silt curtain should be applied around caissons / blockwork during the filling of the cell to prevent the loss of fine in the filling material. The maximum production rate for dredging for the anti-scouring protection layer shall not exceed the permitted maximum daily dredging rate and carried out within its respective distance from the nearest non-translocatable coral community by the dredging contractor as specified in S.2.18 of the Further Environmental Permit (no.:FEP-01/429/2012/A). It is recommended to employ closed grab with small capacity of 2 m³ to control the dredging rate. Any gap that may need to be provided for marine access will be located at the middle of the North Western seawall, away from the identified coral communities and will be shielded by silt curtains systems to control | Work site / During the marine construction period | Contractor | | ✓ | | | EIAO-TM; WPCO, Supporting Document for Application for Variation of Environmental Permit (EP-429/2012) Further Environmental Permit No. FEP-01/429/2012/A | Implemented |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|--|-------------------|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <p>sediment plume dispersion.</p> <ul style="list-style-type: none"> The silt curtain system at marine access opening should be closed as soon as the barges passes through the marine access opening in order to minimize the period of curtain opening. Filling should only be carried out behind the silt curtain when the silt curtain is completely closed. To enhance the effectiveness of the silt curtain at the marine access, the northern breakwater would be built before the commencement of the reclamation to reduce the current velocity towards the marine access opening. The silt curtain system at marine access opening should be regularly checked and maintained to ensure proper functioning. Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25% which is in line with the CEDD's General Specification; The filling for reclamation should be carried out behind the seawall. The filling material should only consist of public fill, rock and sand. The filling composition and filling rates at each filling area should follow those delineated in Table 1 of the FEP-01/429/2012/. The filling above high watermark is not restricted; No dredging should be carried out within 16m to the nearest non-translocatable coral community; | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------|---|-------------------|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <ul style="list-style-type: none"> • Daily site audit including full-time on-site monitoring by the ET is recommended during the dredging for anti-scouring protection layer for checking the compliance with the permitted no. of grab; • Closed grab dredger should be used to minimize the loss of sediment during the raising of the loaded grabs through the water column; • Frame-type silt curtains should be deployed around the dredging operations; • Floating-type silt curtains should be used to surround the circular cell during the sheetpiling work; • The descent speed of grabs should be controlled to minimize the seabed impact speed; • Barges should be loaded carefully to avoid splashing of material; • All barges used for the transport of dredged materials should be fitted with tight bottom seals in order to prevent leakage of material during loading and transport; • No concurrence works between laying of submarine cables and dredging/reclamation works within the same location is allowed. For works close to each other, the construction program should be arranged so that the dredging/reclamation works within area bounded by the breakwaters and the laying of cables would not operate within a | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-----------|---|---|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| | <p>distance of 80m from each other to avoid any accumulative impact on the environment (in case if such tight schedule is necessary).</p> <ul style="list-style-type: none"> All barges should be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action. No DCM works should be carried out within 100m to the nearest non-translocatable coral colony / colonies. Silt curtains should be employed to enclose DCM field trial and any full scale DCM work to minimize the potential impacts on water aspect. A sand blanket is to be placed on top of the marine deposit using tremie pipes prior to the DCM ground treatment to avoid seabed sediment disturbance. | | | | | | | | |
| S5b.8.2.3 | <p><u>Operational Phase Discharges</u></p> <p>A pipeline drainage system will serve the development area collecting surface runoff from paved areas, roof, etc. Sustainable drainage principle would be adopted in the drainage system design to minimize peak surface runoff, maximize permeable surface and maximize beneficial use of rainwater.</p> | Within IWMF site / During the operational phase | IWMF Operator | ✓ | | ✓ | | WPCO | N/A |
| S5b.8.2.4 | Oil interceptors should be provided in the drainage system of any potentially contaminated areas (such as truck parking area and maintenance workshop) and | Within IWMF site / During the operational | IWMF Operator | ✓ | | ✓ | | WPCO; WDO | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | regularly cleaned to prevent the release of oil products into the storm water drainage system in case of accidental spillages. Accidental spillage should be cleaned up as soon as practicable and all waste oils and fuels should be collected and handled in compliance with the Waste Disposal Ordinance. | phase | | | | | | | |
| S5b.8.2.5 | <u>Refuse Entrapment</u> Collection and removal of floating refuse should be performed at regular intervals for keeping the water within the Project site boundary and the neighboring water free from rubbish. | Within the Project site / During the operational phase | IWMF Operator | | | ✓ | | WPCO | N/A |
| S5b.8.2.6 | <u>Transportation of bottom ash, fly ash and APC residues to WENT Landfill for disposal</u> Covered container should be used in the shipping of the incineration waste to limit the contact between the incineration waste and the marine water. A comprehensive emergency response plan for any accidental spillage should be submitted by the operation contractor to the EPD for agreement before the operation of the facilities. Salvage and cleanup action to recover the spilled incineration waste containers following the spillage should be carried out according to the emergency response plan to mitigate the environmental impact in case of spillage. | Transportation of Incineration Ash / During the operational phase | IWMF Operator | | | ✓ | | | N/A |

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.4 Implementation Schedule for Waste Management Measures for the IWMF at the artificial island near SKC

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| 6b.5.1.2 | <p><u>Good Site Practices</u></p> <p>Adverse environmental impacts in relation to waste management are not expected, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities would include:</p> <ul style="list-style-type: none"> • Obtain relevant waste disposal permits from appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); • Provide staff training for proper waste management and chemical handling procedures; • Provide sufficient waste disposal points and regular waste collection; • Provide appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and • Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; • Separate chemical wastes for special handling and disposed of to licensed facility for treatment; and • Employ licensed waste collector to collect waste. | Work Site/ During Construction Period | Contractor | | ✓ | | | WDO; LDO; ETWB TCW No. 19/2005; EIAO-TM | Implemented |

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| 6b.5.1.3 | <p><u>Waste Reduction Measures</u></p> <p>Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices.</p> <p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> • Design foundation works that could minimize the amount of excavated material to be generated. • Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; • Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); • Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage the collection of aluminum cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force; • Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and | Work Site/ During Design & Construction Period | Contractor | ✓ | ✓ | | | Implemented; N/A for foundation and demolition items | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <ul style="list-style-type: none"> Plan and stock construction materials carefully to minimize amount of waste to be generated and to avoid unnecessary generation of waste. | | | | | | | | |
| 6b.5.1.7 | <p><u>Dredged Sediment – Application of Dumping Permit</u></p> <p>The project proponent should agree in advance with MFC of CEDD on the site allocation. The project proponent or contractor for the dredging works shall then apply for the site allocations of marine sediment disposal based on the prior agreement with MFC/CEDD. The project proponent or contractor should also be responsible for the application of all necessary permits from relevant authorities, including the dumping permit as required under DASO from EPD, for the disposal of dredged sediment prior to the commencement of the dredging works.</p> | Seawall and Reclamation site / Construction Period | EPD and its contractor | ✓ | ✓ | | | DASO ETWB TCW 34/2002 | Implemented |
| 6b.5.1.8 | <p><u>Dredged Sediment – Sediment Quality Report</u></p> <p>The project proponent or contractor will need to satisfy the appropriate authorities that the quality of the marine sediment to be dredged has been identified according to the requirements of ETWB TCW 34/2002. This should be completed well before the dredging works and would include at least the submission of a formal Sediment Quality Report under Tier I of ETWB TCW No. 34/2002 to DEP for approval. Subject to advice from DEP, it is possible that further marine SI in accordance with ETWB TCW 34/2002</p> | Seawall and Reclamation site / Construction Period | EPD and its contractor | ✓ | | | | DASO ETWB TCW 34/2002 | Implemented |

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| | might be necessary for the application of dumping permit under DASO. In such case, a sediment sampling and testing proposal shall be submitted to and approved by DEP before the additional marine SI works. | | | | | | | | |
| 6b.5.1.9 | <p><u>Dredged Sediment – Sediment Transportation</u></p> <p>The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should 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 place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.</p> | Seawall and Reclamation site / Construction Period | EPD and its contractor | | ✓ | | | DASO ETWB TCW 34/2002 | Implemented |
| 6b.5.1.10 | <p><u>Construction and Demolition Materials</u></p> <p>In order to minimize the impact resulting from collection and transportation of C&D materials for off-site disposal, the excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below:</p> <ul style="list-style-type: none"> • A Waste Management Plan (WMP), which becomes part of the Environmental Management Plan (EMP), should be prepared in accordance with ETWB TCW No.19/2005; | Work Site/ During Design & Construction Period | Contractor | ✓ | ✓ | | | ETWB TCW No. 19/2005 | Implemented |

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| | <ul style="list-style-type: none"> A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and In order to monitor the disposal of C&D materials at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to <i>ETWB TCW No. 31/2004</i>). | | | | | | | | |
| 6b.5.1.11 – 6b.5.1.12 | <p>The Contactor should prepare and implement an EMP in accordance with ETWB TCW No.19/2005, which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor</p> <p>All surplus C&D materials arising from or in connection with construction works should become the property of the Contractor when it is removed unless otherwise stated. The Contractor would be responsible for devising a system to work for on-site sorting of C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimize temporary stockpiling on-site. The system should be</p> | Work Site/ During Design & Construction Period | Contractor | ✓ | ✓ | | | ETWB TCW No. 19/2005 | Implemented |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site. | | | | | | | | |
| 6b.5.1.13 | <p><u>Chemical Wastes</u></p> <p>Should chemical wastes be produced at the construction site, the Contractor would be required to register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible (corrosive). The Contractor should employ a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</p> | Work Site/ During Construction Period | Contractor | | ✓ | | | Waste Disposal (Chemical Waste) (General) Regulation | Implemented |
| 6b.5.1.14 | <p><u>General Refuse</u></p> <p>General refuse should be stored in enclosed bins or compaction units separate from C&D materials. A licensed waste collector should be employed by the Contractor to remove general refuse from the site, separately from C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p> | Work Site/ During Construction Period | Contractor | | ✓ | | | Public Health and Municipal Services Ordinance | Implemented |

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| 6b.5.1.16 – 6b.5.1.33 | <p><u>Biogas Generation</u></p> <p>The Contractor shall review the data and analysis results, and the data from further Site Investigation, if any. Subject to the review findings, the following gas protection measures may be considered if necessary:</p> <ul style="list-style-type: none"> - gas monitoring after reclamation; - passive ventilation; - gas impermeable membrane; - ventilation with “at risk” rooms; - protection of utilities or below ground services; - precautions during construction works; - precautions prior to entry of belowground services | Reclamation site (if dredging at the reclamation site is not required) / Design & Construction Period | Designer and/or contractor | ✓ | ✓ | | | EPD/TR8/97 | N/A |
| 6b.5.2.1 | <p><u>Good Site Practices</u></p> <p>It is recommended that the following good operational practices should be adopted to minimise waste management impacts:</p> <ul style="list-style-type: none"> • Obtain the necessary waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and Waste Disposal (Chemical | IWMF Site/During Operation Period | IWMF Operator | | | ✓ | | Waste Disposal Ordinance (Cap.354); Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No. 1/2004 | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <ul style="list-style-type: none"> • Waste) (General) Regulation; • Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site; • Use of a waste haulier licensed to collect specific category of waste; • A trip-ticket system should be included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of solid wastes at landfills, and to control fly tipping. Reference should be made to ETWB TCW No. 31/2004. • Training of site personnel in proper waste management and chemical waste handling procedures; • Separation of chemical wastes for special handling and appropriate treatment at a licensed facility; • Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors; • Provision of sufficient waste disposal points and regular collection for disposal; • Adoption of appropriate measures to minimize windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers; and • Implementation of a recording system for the amount of wastes generated, and disposed of (including recycled | | | | | | | | |

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| | the disposal sites). | | | | | | | | |
| 6b.5.2.2 | <p><u>Waste Reduction Measures</u></p> <p>Good management and control can prevent the generation of significant amounts of waste. It is recommended that the following good operational practices should be adopted to ensure waste reduction:</p> <ul style="list-style-type: none"> • Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage collection of aluminum cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separate labelled bins should be provided to help segregate this waste from other general refuse generated by the work force; and • Any unused chemicals or those with remaining functional capacity should be reused as far as practicable. | IWMF Site/ During Operation Period | IWMF Operator | | | ✓ | | | Implemented |
| 6b.5.2.3 | <p><u>Storage, Handling, Treatment, Collection and Disposal of Incineration By-Products</u></p> <p>The following measures are recommended for the storage, handling and collection of the incineration by-products:</p> <ul style="list-style-type: none"> • Ash should be stored in storage silos; • Ash should be handled and conveyed in closed systems fully | IWMF Site/ During Operation Period | IWMF Operator | | | ✓ | | Incineration Residue Pollution Control Limits | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>segregated from the ambient environment;</p> <ul style="list-style-type: none"> Ash should be wetted with water to control fugitive dust, where necessary; All fly ash and APC residues should be treated, e.g. by cement solidification or chemical stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal; The ash should be transported in covered trucks or containers to the designated landfill site. <p>The Contractor should provide EPD with chemical analysis results of the bottom ash, and treated fly ash and APC residues to confirm that the ash/residue can comply with the proposed Incineration Residue Pollution Control Limits before disposal.</p> | | | | | | | | |
| 6b.6.3.1 | <p><u>Fuel Oil Tank Construction and Test</u></p> <ul style="list-style-type: none"> The fuel tank to be installed should be of specified durability. Double skin tanks are preferred. Underground fuel storage tank should be placed within a concrete pit. The concrete pit shall be accessible | Fuel Oil Storage Tank/ During Design, Construction and Operation Periods | IWMF Contractor | ✓ | ✓ | ✓ | | N/A | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>to allow regular tank integrity tests to be carried out at regular intervals.</p> <ul style="list-style-type: none"> Tank integrity tests should be conducted by an independent qualified surveyor or structural engineer. Any potential problems identified in the test should be rectified as soon as possible. | | | | | | | | |
| 6b.6.3.1 | <p><u>Fuel Oil Pipeline Construction and Test</u></p> <ul style="list-style-type: none"> Installation of aboveground fuel oil pipelines is preferable; if underground pipelines are unavoidable, concrete lined trenches should be constructed to contain the pipelines. Double skin pipelines are preferred. Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized. Integrity tests for the pipelines should be conducted by an independent qualified surveyor or structural engineer at regular intervals. Any potential problems identified in the test should be rectified as soon as possible. | Fuel Oil Pipelines/ During Design, Construction and Operation Periods | IWMF Contractor | ✓ | ✓ | ✓ | | N/A | |
| 6b.6.3.1 | <p><u>Fuel Oil Leakage Detection</u></p> <ul style="list-style-type: none"> Installation of leak detection device at storage tank and pipelines. | Fuel Oil Storage Tank and Pipelines/ | IWMF Contractor | ✓ | ✓ | ✓ | | N/A | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <ul style="list-style-type: none"> Installation and use of pressure gauges (e.g. at the two ends of a filling line) in fuel filling, which allows unexpected pressure drop or difference and sign of leakage to be detected. | During Design, Construction and Operation Periods | | | | | | | |
| 6b.6.3.1 | <p><u>Fuel Oil Storage Tank Refuelling</u></p> <ul style="list-style-type: none"> Storage tank refuelling (from road tanker) should only be conducted by authorized staff of the oil company using the company's standard procedures. | Fuel Oil Refuelling Point/ During Operation Period | IWMF Operator | | | ✓ | | N/A | |
| 6b.6.3.1 | <p><u>Fuel Oil Spillage Response</u></p> <p>An Oil Spill Response Plan should be prepared by the operator to document the appropriate response procedures for oil spillage incidents in detail. General procedures to be taken in case of fuel oil spillage are presented below.</p> <ul style="list-style-type: none"> Training <p>- Training on oil spill response actions should be given to relevant staff. The training shall cover the followings:</p> <ul style="list-style-type: none"> ➤Tools & resources to combat oil spillage and fire, e.g. locations of oil spill handling equipment and fire fighting equipment; ➤General methods to deal with oil spillage and fire incidents; ➤Procedures for emergency drills in the event of oil spills and fire; and | IWMF Site/ During Operation Period | IWMF Operator | | | ✓ | | N/A | |

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| | <p>➤Regular drills shall be carried out.</p> <ul style="list-style-type: none"> • Communication <ul style="list-style-type: none"> -Establish communication channel with the Fire Services Department (FSD) and EPD to report any oil spillage incident so that necessary assistance from relevant department can be quickly sought. • Response Procedures <ul style="list-style-type: none"> -Any fuel oil spillage within the IWMF site should be immediately reported to the Plant Manager with necessary details including location, source, possible cause and extent of the spillage. -Plant Manager should immediately attend to the spillage and initiate any appropriate action to confine and clean up the spillage. The response procedures shall include the following: <ul style="list-style-type: none"> ➤Identify and isolate the source of spillage as soon as possible. ➤Contain the oil spillage and avoid infiltration into soil/ groundwater and discharge to storm water channels. ➤Remove the oil spillage. ➤Clean up the contaminated area. ➤If the oil spillage occurs during storage tank refuelling, the refueling operation should immediately be | | | | | | | | |

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| | <p>stopped.</p> <p>➤Recovered contaminated fuel oil and the associated material to remove the spilled oil should be considered as chemical waste. The handling and disposal procedures for chemical wastes are discussed in the following paragraphs.</p> | | | | | | | | |
| 6b.6.3.2 | <p><u>Chemicals and Chemical Wastes Handling & Storage</u></p> <ul style="list-style-type: none"> • Chemicals and chemical wastes should only be stored in suitable containers in purpose-built areas. • The storage of chemical wastes should comply with the requirements of the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. • The storage areas for chemicals and chemical wastes shall have an impermeable floor or surface. The impermeable floor/ surface shall possess the following properties: <ul style="list-style-type: none"> - Not liable to chemically react with the materials and their containers to be stored. - Able to withstand normal loading and physical damage caused by container handling - The integrity and condition of the impermeable floor or surface should | Chemicals and Chemical Wastes Storage Area / During Operation Period | IWMF Operator | | | ✓ | | N/A | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>be inspected at regular intervals to ensure that it is satisfactorily maintained</p> <ul style="list-style-type: none"> ➤ For liquid chemicals and chemical wastes storage, the storage area should be bunded to contain at least 110% of the storage capacity of the largest containers or 20% of the total quantity of the chemicals/chemical wastes stored, whichever is the greater. ➤ Storage containers shall be checked at regular intervals for their structural integrity and to ensure that the caps or fill points are tightly closed. ➤ Chemical handling shall be conducted by trained workers under supervision. | | | | | | | | |
| 6b.6.3.2 | <p><u>Chemicals and Chemical Wastes Spillage Response</u></p> <p>A Chemicals and/ or Chemical Wastes Spillage Response Plan shall be prepared by the operator to document in detail the appropriate response procedures for chemicals or chemical wastes spillage incidents. General procedures to be undertaken in case of chemicals/ chemical waste spillages are presented below.</p> <ul style="list-style-type: none"> • Training - Training on spill response actions | IWMF Site/ During Operation Period | IWMF Operator | | | ✓ | | N/A | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>should be given to relevant staff. The training shall cover the followings:</p> <ul style="list-style-type: none"> ➤ Tools & resources to handle spillage, e.g. locations of spill handling equipment; ➤ General methods to deal with spillage; and ➤ Procedures for emergency drills in the event of spills. <ul style="list-style-type: none"> • Communication <ul style="list-style-type: none"> - Establish communication channel with FSD and EPD to report the spillage incident so that necessary assistance from relevant department can be quickly sought. • Response Procedures <ul style="list-style-type: none"> - Any spillage within the IWMF site should be reported to the Plant Manager. - Plant Manager shall attend to the spillage and initiate any appropriate actions needed to confine and clean up the spillage. The response procedures shall include the followings: <ul style="list-style-type: none"> ➤ Identify and isolate the source of spillage as soon as possible; ➤ Contain the spillage and avoid infiltration into soil/ | | | | | | | | |

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| | <p>groundwater and discharge to storm water channels (in case the spillage occurs at locations out of the designated storage areas);</p> <ul style="list-style-type: none"> ➤ Remove the spillage; the removal method/ procedures documented in the Material Safety Data Sheet (MSDS) of the chemicals spilled should be observed; ➤ Clean up the contaminated area (in case the spillage ➤ The waste arising from the cleanup operation should be considered as chemical wastes. | | | | | | | | |
| 6b.6.3.3 | <p><u>Preventive Measures for Incineration By-products Handling</u></p> <p>The recommended measures listed below can minimize the potential contamination to the surrounding environment due to the incineration by-products:</p> <ul style="list-style-type: none"> • Ash should be stored in storage silos; • Ash should be handled and conveyed in closed systems fully • Ash should be wetted with water to control fugitive dust, where necessary; • All fly ash and APC residues should be treated, e.g. by cement solidification or chemical | Storage, Handling & Collection of Incineration Ash at IWMF/ During Operation Period | IWMF Operator | | | ✓ | | N/A | |

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| | stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal; <ul style="list-style-type: none"> The ash should be transported in covered trucks or containers to the designated landfill site. | | | | | | | | |
| 6b.6.3.4 - 6b.6.3.6 | <p><u>Incident Record</u></p> <p>After any spillage, an incident report should be prepared by the Plant Manager. The incident report should contain details of the incident including the cause of the incident, the material spilled and estimated spillage amount, and also the response actions undertaken. The incident record should be kept carefully and able to be retrieved when necessary.</p> <p>The incident report should provide sufficient details for the evaluation of any environmental impacts due to the spillage and assessment of the effectiveness of measures taken.</p> <p>In case any spillage or accidents results in significant land contamination, EPD should be informed immediately and the IWMF operator should be responsible for the cleanup of the affected area. The responses procedures described in Section 6b.6.3.1 and Section 6b.6.3.2 of EIA report should be followed accordingly together with the land contamination assessment and remediation guidelines</p> | IWMF Site/ During Operation Period | IWMF Operator | | | ✓ | | Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation. | N/A |

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| | stipulated in the <i>Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation.</i> | | | | | | | | |

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.5 Implementation Schedule for Ecological Quality Measures for the IWMF at the artificial island near SKC

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| 7b.8.2.1 | <u>Measures to avoid direct loss of intertidal habitat</u> <ul style="list-style-type: none"> The site boundary has been proposed to avoid direct contact with the intertidal natural rocky shore of Shek Kwu Chau. It avoids direct loss of intertidal communities and the existing natural rocky shore habitat, where Reef Egret and White-bellied Sea Eagle have been recorded within and in the vicinity of this habitat. | IWMF site | Design team | ✓ | | | | EIAO-TM | N/A |
| 7b.8.2.2 | <u>Measures to minimise loss of coastal subtidal habitat</u> <ul style="list-style-type: none"> Extensive coral colonies were recorded at the coastal hard bottom habitat at Shek Kwu Chau. To avoid and minimise the extensive direct impact on the coral colonies, the proposed reclamation area has been moved further offshore to minimise loss of subtidal habitat near shore. | IWMF site | Design team | ✓ | | | | EIAO-TM | N/A |
| 7b.8.2.3 | <u>Zero Discharge Scheme</u> <ul style="list-style-type: none"> The design scheme of the Project has avoided discharge of wastewater into the marine environment. mechanical treatment plant, or for onsite washdown and landscape. | IWMF site | Design team, IWMF operator | ✓ | | ✓ | | WPCO | N/A |
| 7b.8.2.4 | <u>Measures to avoid loss of plant species of conservation importance</u> <ul style="list-style-type: none"> Landing portal construction works would not cause direct lost to the recorded individual of protected plant species, | Cheung Sha landing portal | Design team, Contractor | ✓ | ✓ | | ✓ | EIAO-TM | N/A |

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| | <ul style="list-style-type: none"> <i>Aquilaria sinensis</i>, at the coastal shrubland habitat at Cheung Sha. As a precautionary measure, the plant should be tagged with eye-catching tape and fenced off prior to works, in order to avoid any damage by workers. | | | | | | | | |
| 7b.8.3.1-7b.8.3.15 | <p><u>Measures to minimise water quality impact</u></p> <ul style="list-style-type: none"> Measures for water quality as recommended in Section 5b of the EIA Report should be implemented. | Work site | Design team, contractor, IWMF operator | ✓ | ✓ | ✓ | ✓ | EIAO-TM; ProPECC PN 1/94; WPCO | Implemented |
| 7b.8.3.16 - 7b.8.3.30 | <p><u>Measures to minimise disturbance on Finless Porpoise</u></p> <p><i>Minimisation of Habitat Loss for Finless Porpoise</i></p> <ul style="list-style-type: none"> Substantial revision has been made on the layout plan and form of the breakwater, in order to minimise the potential loss of important habitat for Finless Porpoise. The revision has greatly reduced the size of the embayment area, as well as the Project footprint. As a result, the size of habitat loss for Finless Porpoise has reduced from the original ~50 ha, down to ~31 ha. <p><i>Avoidance of peak season for finless porpoise occurrence</i></p> <ul style="list-style-type: none"> To minimise potential acoustic disturbance from construction activities | IWMF site, | Design team, contractor, IWMF operator | ✓ | ✓ | ✓ | ✓ | EIAO-TM, Supporting Document for Application for Variation of the Environmental Permit (EP-429/2012) | Implemented for avoidance of construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff, MMEZ and marine mammal watching works during deployment of silt curtain; N/A for others |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>on Finless Porpoise, construction works that may produce underwater acoustic disturbance should be scheduled outside the months with peak Finless Porpoise occurrence (December to May), including:</p> <ul style="list-style-type: none"> - sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1); - sheet piling works for construction of the shorter section of breakwater (Phase 1); - sheet piling works for construction of the remaining section of breakwater (Phase 3); - bored piling works for berth area (Phase 3); and - submarine cable installation works between Shek Kwu Chau and Cheung Sha. <p>Such works should be restricted within June to November. This approach would not only avoid the peak season for Finless Porpoise occurrence, the magnitude of impacts arise from acoustic disturbance would also be minimised.</p> <ul style="list-style-type: none"> • Submarine cable installation works • Since the DCM ground treatment and the installation of precast seawalls and | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>breakwaters should generate no underwater acoustic disturbance to Finless Porpoise, no specific mitigation measures are required.</p> <p><i>Opt for quieter construction methods and plants</i></p> <ul style="list-style-type: none"> Considering the sensitivity of marine mammals to underwater acoustic disturbance, instead of the previously proposed conventional breakwater and reclamation peripheral structure, which requires noisy piling works, the current circular cells structure for breakwater and reclamation peripheral structure is proposed. A quieter sheet piling method using vibratory hammer or hydraulic impact hammer, should be adopted for the installation of circular cells for cellular cofferdam and northern breakwater during Phase 1, and southern breakwater Phase 3; Non-percussive bore piling method would be adopted for the installation of tubular piles for the berth construction during Phase 3. <p><i>Monitored exclusion zones</i></p> <ul style="list-style-type: none"> During the installation/re-installation/relocation process of floating type silt curtains, in order to avoid the accidental entrance and entrapment of marine | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>mammals within the silt curtains, a monitored exclusion zone of 250 m radius from silt curtain should be implemented. The exclusion zone should be closely monitored by an experienced marine mammal observer at least 30 minutes before the start of installation/re-installation/relocation process. If a marine mammal is noted within the exclusion zone, all marine works should stop immediately and remain idle for 30 minutes, or until the exclusion zone is free from marine mammals.</p> <ul style="list-style-type: none"> The experienced marine mammal observer should be well trained to detect marine mammals. Binoculars should be used to search the exclusion zone from an elevated platform with unobstructed visibility. The observer should also be independent from the project proponent and has the power to call-off construction activities. In addition, as marine mammals cannot be effectively monitored within the proposed monitored exclusion zone at night, or during adverse weather conditions (i.e. Beaufort 5 or above, visibility of 300 meters or below), marine works should be avoided under weather conditions with low visibility. | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p><i>Marine mammal watching plan</i></p> <ul style="list-style-type: none"> Upon the completion of the installation/re-installation/relocation of floating type silt curtain, all marine works would be conducted within a fully enclosed environment within the silt curtain, hence exclusion zone monitoring would no longer be required. Subsequently, a marine mammal watching plan should be implemented. <p>The plan should include regular inspection of silt curtains, and visual inspection of the waters surrounded by the curtains. Special attention should be paid to Phase 2 (reclamation) where the floating type still curtain would be opened occasionally for vessel access, leaving a temporary 50 m opening. An action plan should be devised to cope with any unpredicted incidents such as the case when marine mammals are found within the waters surrounded by the silt curtains.</p> <p><i>Small openings at silt curtains</i></p> <ul style="list-style-type: none"> The openings for vessel access at the silt curtains should be as small as possible to minimise the risk of accidental entrance. <p><i>Adoption of regular travel route</i></p> | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <ul style="list-style-type: none"> During construction and operation, captains of all vessels should adopt regular travel route, in order to minimize the chance of vessel collision with marine mammals, which may otherwise result in damage to health or mortality. The regular travel route should avoid areas with high sighting density of Finless Porpoise as much as possible. <p><i>Vessel speed limit</i></p> <ul style="list-style-type: none"> The frequent vessel traffic in the vicinity of works area may increase the chance of mammal mammals being killed or seriously injured by vessel collision. A speed limit of ten knots should be strictly enforced within areas with high density of Finless Porpoise. Passive acoustic monitoring and land-based theodolite monitoring surveys should be adopted to verify the predicted impacts and effectiveness of the proposed mitigation measures. <p><i>Training of Staff</i></p> <ul style="list-style-type: none"> Staff, including captains of vessels, should be aware of the guidelines for safe vessel operations in the presence of cetaceans during construction and | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | | | | Des | C | O | Dec | | |
| | operation phases. Adequate trainings should be provided | | | | | | | | |
| 7b.8.3.31 - 7b.8.3.34 | <p><u>Measures to minimise impact on corals</u></p> <p><i>Coral translocation</i></p> <ul style="list-style-type: none"> • Coral communities within and in proximity to the proposed dredging sites would be disturbed by the Project due to the dredging operations. In order to minimise direct loss of coral communities, translocation of corals that are attached to movable rocks with diameter less than 50 cm are recommended. In order to avoid disturbance to corals during the spawning period, the spawning season of corals (June to August) should be avoided; and that translocation should be carried out during the winter season (November-March). • The REA survey results suggest that the 198 directly affected coral colonies were attached to movable rocks (less than 50 cm in diameter). It is technically feasible to translocate them to avoid direct loss. • Prior to coral translocation, a more detailed baseline survey, including event / action plan for coral monitoring should be submitted upon approval of this Project, prior to commencement of | IWMF site | Design team, contractor, IWMF operator | ✓ | ✓ | ✓ | ✓ | EIAO-TM | <p>Implemented, tagged coral found missing after hitting by typhoons</p> <p>Re-tagging of 10 coral colonies at indirect impact site and control site were conducted in November and December 2018 respectively.</p> |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>construction works. Advice from relevant governmental departments (i.e. AFCD) and professionals would be sought after, in order to identify a desirable location for the relocation of coral communities. Post-translocation monitoring on the translocated corals should also be considered.</p> <p><i>Coral monitoring programme</i></p> <ul style="list-style-type: none"> A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the coral communities at the coasts of Shek Kwu Chau during construction of the Project. <p><i>Phasing of Works</i></p> <ul style="list-style-type: none"> To minimize environmental impacts, the proposed phasing of construction works has been carefully designed to reduce the amount of concurrent works, hence minimize SS elevation and the associated impacts on corals. | | | | | | | | |
| 7b.8.3.35 - 7b.8.3.41 | <p><u>Specific measures to minimize disturbance on breeding White-bellied Sea Eagle</u></p> <p><i>Avoidance of noisy works during the breeding season of White-bellied Sea Eagle</i></p> <ul style="list-style-type: none"> To minimize potential noise disturbance | IWMF site, marine traffic route | Design Team, Contractor, IWMF operator | ✓ | ✓ | ✓ | ✓ | EIAO-TM | Implemented |

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| | <p>from construction activities on WBSE, noisy construction works should be scheduled outside their breeding season (December to May) to minimise potential degradation in breeding ground quality and breeding activities, including:</p> <ul style="list-style-type: none"> - sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1); - sheet piling works for construction of the shorter section of breakwater (Phase 1); - sheet piling works for construction of the remaining section of breakwater (Phase 3); and - bored piling works for berth area (Phase 3). <p><i>Opt for quieter construction methods and plants</i></p> <ul style="list-style-type: none"> • To minimise potential construction noise disturbance on WBSE, quieter construction methods and plants should be adopted. The recommended noise mitigation measures in the Noise chapter (Section 4b.8 of the EIA Report) should be implemented to minimise potential noise disturbance to acceptable levels. <p><i>Restriction on vessel access near the nest of White-bellied Sea Eagle</i></p> | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <ul style="list-style-type: none"> During construction and operation, in order to minimize disturbance on the existing WBSE nest, a pre-defined practical route to restrict vessel access near the nest should be adopted to keep vessels and boats as far away from the nest as possible. <p><i>White-bellied Sea Eagle monitoring programme</i></p> <ul style="list-style-type: none"> A WBSE monitoring programme is recommended to assess any adverse and unacceptable impacts to the breeding activities of WBSE during construction and operation of the Project. Monitoring surveys for WBSE would include pre-construction phase (twice per month for duration of three months during their breeding season -between December and May, immediately before the commencement of works), construction phase, and operation phase (two years after the completion of construction works). Surveys should be conducted twice per month during their breeding season (from December to May); and once per month outside breeding season (June to November). More details on monitoring for WBSE are presented in the EM&A Manual. | | | | | | | | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | | | | Des | C | O | Dec | | |
| | <p><i>Education of staff</i></p> <ul style="list-style-type: none"> Staff, including captains of all vessels during construction and operation phases, should be aware of the ecological importance of WBSE. Awareness should be raised among staff to minimise any intentional or unintentional disturbance to the nest. <p><i>Minimisation of Glare Disturbance</i></p> <ul style="list-style-type: none"> To minimise glare disturbance on WBSE, which may cause disorientation of birds by interfering with their magnetic compass, and disruption in behavioural patterns such as reproduction, fat storage and foraging pattern, any unnecessary outdoor lighting should be avoided, and in-ward and down-ward pointing of lights should be adopted. | | | | | | | | |
| - | <p><u>Construction of Seawall/Breakwaters</u></p> <ul style="list-style-type: none"> To widen the open channel between the Artificial Island and Shek Kwu Chau. To design the precast concrete seawall with environmental friendly features. | IWMF site | Design team, contractor, IWMF operator | ✓ | ✓ | | | Supporting Document for Application for Variation of Environmental Permit (EP-429/2012) | N/A |
| 7b.8.3.42 | <p><u>Opt for Quieter Construction Methods and Plants</u></p> <ul style="list-style-type: none"> Quieter construction methods and plants | Work site | Design team, contractor, IWMF operator | ✓ | ✓ | ✓ | ✓ | EIAO-TM | Implemented |

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| | should be used to minimise disturbance to the nearby terrestrial habitat and the associated wildlife. | | | | | | | | |
| 7b.8.3.43 | <p><u>Measures to minimize impacts from artificial lighting</u></p> <ul style="list-style-type: none"> Unnecessary lighting should be avoided, and shielding of lights should be provided to minimize disturbance from light pollution on fauna groups. | IWMF site | Design team, contractor, IWMF operator | ✓ | ✓ | ✓ | | EIAO-TM | Implemented |
| 7b.8.3.44 - 7b.8.3.45 | <p><u>Measures to minimize accidental spillage</u></p> <ul style="list-style-type: none"> Regular maintenance of vessels, vehicles and equipment that may cause leakage and spillage should only be undertaken within pre-designated areas, which are appropriately equipped to control the associated discharges. Oils, fuels and chemicals should be contained in suitable containers, and only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal. | Work site | Contractor, IWMF operator | | ✓ | ✓ | ✓ | EIAO-TM | Implemented |
| 7b.8.3.46 | <p><u>Measures to minimise sewage effluent</u></p> <ul style="list-style-type: none"> Temporary sanitary facilities, such as | Work site | Contractor | | ✓ | | | EIAO-TM | N/A |

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| | portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. | | | | | | | | |
| 7b.8.3.47 | <p><u>Measures to minimise drainage and construction runoff</u></p> <ul style="list-style-type: none"> • Potential ecological impacts resulted from potential degradation of water quality due to unmitigated surface runoff could be minimised via the detailed mitigation measures in Section 5b.8 of the EIA Report. The following presents some of the mitigation measures: <ul style="list-style-type: none"> - On-site drainage system with implemented sedimentation control facilities. - Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. - Provision of embankment at boundaries of earthworks for flood protection. - Water pumped out from foundation piles must be discharged into silt removal facilities. - During rainstorms, exposed slope/soil surfaces should be covered by tarpaulin or other means, as far as practicable. - Exposed soil surface should be minimized to reduce siltation and runoff. - Earthwork final surfaces should be | Work site | Contractor | | ✓ | | ✓ | EIAO-TM | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | <p>well compacted. Subsequent permanent surface protection should be immediately performed.</p> <ul style="list-style-type: none"> - Open stockpiles of construction materials, and construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. | | | | | | | | |
| 7b.8.3.48 | <p><u>Measures to minimise impacts from general construction activities</u></p> <ul style="list-style-type: none"> • To avoid the entering of construction solid waste into the nearby habitats, construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby habitats. It is recommended to clean the construction sites on a regular basis. | Work site | Contractor | | ✓ | | | EIAO-TM | Implemented |
| 7b.8.3.49 | <p><u>Pest Control</u></p> <p>Good waste management practices should be adopted at the IWMF in order to minimise the risk of introduction of pest to the island:</p> <ul style="list-style-type: none"> - Transportation of wastes in enclosed containers - Waste storage area should be well maintained and cleaned - Waste should only be disposed of at designated areas - Timely removal of the newly arrived waste - Removal of items that are capable of | IWMF site | IWMF operator | | | ✓ | | | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | retaining water - Rapid clean up of any waste spillages - Maintenance of a tidy and clean site environment - Regular application of pest control - Education of staff the importance of site cleanliness | | | | | | | | |
| 7b.8.3.50 | <u>Control of Marine Habitat Quality during Operation Phase</u> <ul style="list-style-type: none"> Depending on the seabed condition of the approach channel for marine vessels during operation phase of the IWMF, maintenance dredging may be required to ensure safe access. In order to avoid degradation in water quality due to elevation in SS and dispersion of sediment plume due to dredging works, it is recommended that any future maintenance dredging works should not be carried out within 100 m from the shore, similar to that of the dredging for anti-scouring protection layer during construction phase. All maintenance dredging works should be carried out with the implementation of silt curtain to control the dispersion of SS. The production rate should comply with the permit dredging rate and number of grab per hour. | IWMF site | IWMF operator | | | ✓ | | EIAO-TM; WPCO | N/A |
| 7b.8.4.1 – 7b.8.4.8 | <u>Compensation of loss of important habitat of Finless Porpoise</u> | Waters between Shek Kwu Chau and Soko Islands | Project Proponent | ✓ | | ✓ | | EIAO-TM | N/A |

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| | | | | Des | C | O | Dec | | |
| | <p><i>Designation of Marine Park</i></p> <ul style="list-style-type: none"> The Project Proponent has made a firm commitment to seek to designate a marine park of approximately 700 ha in the waters between Soko Islands and Shek Kwu Chau, in accordance with the statutory process stipulated in the Marine Parks Ordinance, as a compensation measure for the habitat loss arising from the construction of the IWMF at the artificial island near SKC. The Project Proponent shall seek to complete the designation by 2018 to tie in with the operation of the IWMF at the artificial island near SKC. A further study should be carried out to review relevant previous studies and collate available information on the ecological characters of the proposed area for marine park designation; and review available survey data for Finless Porpoise, water quality, fisheries, marine traffic and planned development projects in the vicinity. Based on the findings, ecological profiles of the proposed area for marine park designation should be established, and the extent and location of the proposed marine park be determined. The adequacy of enhancement measures should also be reviewed. | | | | | | | | |

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| | <ul style="list-style-type: none"> In addition, a management plan for the proposed marine park should be proposed, covering information on the responsible departments for operation and management (O&M) of the marine park, as well as the O&M duties of each of the departments involved. Consultation with relevant government departments and stakeholders should be conducted under the study. The study should be submitted to Director of Environmental Protection (DEP) for approval before the commencement of construction works. The Project Proponent should provide assistance to AFCD during the process of the marine park designation. . | | | | | | | | |
| 7b.8.5.1 – 7b.8.5.4 | <p><u>Additional Enhancement or Precautionary Measures Deployment of Artificial Reefs</u></p> <ul style="list-style-type: none"> Deployment of artificial reefs (ARs) is an enhancement measure for the marine habitats. ARs are proposed to be deployed within the proposed marine park under this Project. The exact location, dimension and type of ARs to be deployed are to be further investigated along with the further study of the proposed marine park under this Project. The proposed ARs would be deployed at the same time as the complete | Within the proposed marine park under this study | Project Proponent | ✓ | | ✓ | | EIAO-TM | N/A |

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| | | | | Des | C | O | Dec | | |
| | <p>designation of marine park.</p> <p><i>Release of Fish Fry at Artificial Reefs and Marine Park</i></p> <ul style="list-style-type: none"> Release of fish fry at the proposed ARs, as well as the proposed marine park under this study, should enhance the fish resources in the nearby waters, and subsequently food sources for Finless Porpoise. The proposed ARs with various micro-habitats would have the potential to provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD. | | | | | | | | |

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Table B.6 Implementation Schedule for Fisheries Measures for the IWMF at the artificial island near SKC

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
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| | | | | Des | C | O | Dec | | |
| 8b.8.1.2 | <p><u>Measure to minimize loss of and disturbance on fisheries resources</u></p> <ul style="list-style-type: none"> Alteration to the phasing of works, construction method, and layout plan of the IWMF at the artificial island near SKC has been made. The total fishing ground to be permanently lost due to the project has been significantly reduced from ~50 ha to ~31 ha. By adopting the current circular cells instead of the conventional seawall construction method, SS elevation would be greatly reduced, minimizing adverse impact on the health of fisheries resources. | IWMF site | Design team, contractor | ✓ | ✓ | | ✓ | EIAO-TM | N/A |
| 8b.8.1.3 | <p><u>Measure to minimize impingement and entrainment</u></p> <ul style="list-style-type: none"> Provision of a screen at the water intake point for desalination plant would be essential to minimize the risk of impingement and entrainment of fisheries resources (including fish, larvae and egg) through the intake point. | IWMF site | Design team, contractor, IWMF operator | ✓ | ✓ | ✓ | | EIAO-TM | N/A |

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| | | | | Des | C | O | Dec | | |
| 8b.8.1.4-8b.8.1.6 | <p><u>Measures to control water quality</u></p> <ul style="list-style-type: none"> No wastewater effluent, anti-fouling agent, heavy metals and other contaminants would be released during operation phase of the Project. Mitigation measures recommended in the water quality impact assessment during construction and operation would serve to protect fisheries resources from indirect impacts resulted from the Project | Work site, IWMF site | Design team, contractor, IWMF operator | ✓ | ✓ | ✓ | ✓ | EIAO-TM | Implemented |
| 8b.8.1.7 – 8b.8.1.8 | <p><u>Additional Enhancement / Precautionary Measures</u></p> <ul style="list-style-type: none"> Artificial Reefs (ARs) are proposed to be deployed within the proposed marine park under this Project as an enhancement measure for the marine habitats. This enhancement feature would bring positive impacts to the previously identified important spawning and nursery ground for fisheries resources. <p><i>Release of Fish Fry at Artificial Reefs</i></p> <ul style="list-style-type: none"> Release of fish fry has been proposed under this Project. The proposed deployment of ARs within the proposed marine park would provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD. | Within the proposed marine park in the waters between Soko Islands and Shek Kwu Chau | Project Proponent | ✓ | | ✓ | | EIAO-TM | N/A |

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.7 Implementation Schedule for Landscape and Visual Measures for the IWMF at the artificial island near SKC

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|---------------------|---|--|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| S10b.10 MLVC- 01 | Grass-hydroseeded bare soil surface and stock pile area | Work site / During construction phase | Contractor | | ✓ | | | | N/A |
| S10b.10 MLVC-02 | <p><u>Landscape Design</u></p> <p>1) Early planting using fast grow trees and tall shrubs at strategic locations within site as buffer to block view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works.</p> <p>2) Use of tree species of dense tree crown to serve as visual barrier.</p> <p>3) Hard and soft landscape treatment (e.g. trees and shrubs) of open areas within development to provide a background for the outdoor containers from open view, shade and shelter, and a green appearance from surrounding viewpoints.</p> <p>4) Planting strip along the periphery of the project site.</p> <p>5) Selected tree species suitable for the coastal condition.</p> | Work site / During design & construction phases | Contractor | ✓ | ✓ | | | | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-----------------|--|---|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| S10b.10 MLVC-03 | <p><u>Adoption of Natural Features of the Existing Shoreline</u></p> <p>1) Use of boulders in different sizes and with the similar textures of the existing rocky shores for the construction of breakwater and artificial shoreline in order to blend into the existing natural shoreline.</p> <p>2) Use of cellular cofferdam together with the natural boulders to form a curvature shoreline for the reclamation area to echo with the natural shoreline of SKC.</p> | Work site / During construction phase | Contractor | | ✓ | | | | N/A |
| S10b.10 MLVC-04 | <p><u>Greening Design (Rooftop & Vertical Greening)</u></p> <p>1) Implementation of rooftop and vertical greening (vertical building envelope) along the periphery of each building block to increase the amenity value of the work, moderate temperature extremes and enhance building energy performance. The greening appearance of the building shall enhance its visual harmony with the natural surroundings as well as reduce the apparent visual mass of the structure.</p> <p>2) Sufficient space between concrete enclosure and stack to minimize heat transfer.</p> <p>3) Introduction of landscape decks at the stack to further enhance the overall natural and green concept unique for this site.</p> | Work site / During design & construction phases | Contractor | ✓ | ✓ | | | | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|----------------|--|--|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| S10b.10 MVC-01 | <p><u>Visual Mitigation and Aesthetic Design</u></p> <ol style="list-style-type: none"> 1) Use of natural materials with recessive color to minimize the bulkiness of the building. 2) Adoption of innovative aesthetic design to the chimney to minimize or visually mitigate the massing of the chimney so as to reduce its visual impact to the surroundings. 3) Color of the chimney in a gradual changing manner to match with the color of the sky. 4) Provision of observation deck for public enjoyment at the top of the chimney to diminish the feeling of chimney. 5) Provision of sky gardens between the two stacks to allow additional greening for enhancing the aesthetic quality. Maintenance access (elevator and staircase) from the ground floor to the sky gardens will be provided to allow maintenance of the sky gardens. 6) Integration of the visitor's walkway with different material façade design of incinerator plant to enhance the aesthetic quality. | Structures in IWMF / During design & construction phases | Contractor | ✓ | ✓ | | | N/A | |
| S10b.10 MVC-02 | Control of the security floodlight for construction areas at night to avoid excessive glare to the surrounding receiver. | Work site / During construction phase | Contractor | | ✓ | | | Implemented | |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-----------------|--|---|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| S10b.10 MVC-03 | Optimization of the construction sequence and construction programme to minimize the duration of impact. | Work site / During design & construction phases | Contractor | ✓ | ✓ | | | | Implemented |
| S10b.10 MVC-04 | Storage of the backfilling materials for site formation & construction materials / wastes on site at a maximum height of 2m, covered with an impermeable material of visually un-obtrusive material (in earth tone). | Work site / During construction phase | Contractor | | ✓ | | | | N/A |
| S10b.10 MVC-05 | Reduction of the number of construction traffic at the site to practical minimum. | Work site / During construction phase | Contractor | | ✓ | | | | Implemented |
| S10b.10 MLVO-01 | <u>Planting Maintenance</u> Provision of proper planting maintenance and replacement of defective plant species on the new planting areas to enhance aesthetic and landscape quality. | Project site / During Operation phase | Contractor | | | ✓ | | | N/A |
| S10b.10 MVO-01 | <u>Environmental Education Centre</u> Development of an Environmental Education Center, in which regular exhibitions and lectures to promote environmental awareness and waste reduction concept would be provided, as a part of the IWMF for the general public to alleviate negative public perceptions of the development. | Project site / During Operation phase | Contractor | | | ✓ | | | N/A |
| S10b.10 MVO-02 | <u>Control of Light</u> Control the numbers of lights and their intensity to a level that is good enough to meet the safety requirements at night but not excessive. | Project site / During Operation phase | Contractor | | | ✓ | | | N/A |

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation Stages* | | | | Relevant Legislation and Guidelines | Implementation Status and Remarks |
|-------------------|--|---------------------------------------|----------------------|------------------------|---|---|-----|-------------------------------------|-----------------------------------|
| | | | | Des | C | O | Dec | | |
| S10b.10 MVO-03 | <u>Control of Operation Time</u> Minimization of the frequency of waste transportation to practical minimum (e.g. limit the reception of MSW from 8 am to 8 pm) | Project site / During Operation phase | Contractor | | | ✓ | | | N/A |

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Appendix C Impact Monitoring Schedule of the Reporting Month

Impact Monitoring Schedule for IWWP

| | | Apr 20 | | | | |
|----|----|---|-----|---|--|---|
| | | Wed | Thu | Fri | Sat | |
| | | 1 | 2 | 3 | 4 | |
| | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 13:03 - 22:17 Flood Tide: 06:00 - 13:03 Monitoring Time: Mid-ebb: 13:30 - 17:00 * Mid-flood: 08:00 - 11:30 | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 16:00 - 23:00 Flood Tide: 09:00 - 16:00 Monitoring Time: #5& Mid-ebb: 16:00 - 19:00 Mid-flood: 10:45 - 14:15 | | |
| 5 | 6 | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 08:20 - 11:29 Flood Tide: 11:29 - 17:55 Monitoring Time: #5 Mid-ebb: 08:20 - 11:29 Mid-flood: 12:57 - 16:27 | 7 | Impact Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | 8 | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 09:36 - 15:27 Flood Tide: 15:27 - 22:27 Monitoring Time: Mid-ebb: 10:46 - 14:16 #5& Mid-flood: 15:48 - 19:00 Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location |
| | | 9 | | 10 | 11 | |
| | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 10:42 - 17:03 Flood Tide: 04:29 - 10:42 Monitoring Time: Mid-ebb: 12:07 - 15:27 *#5 Mid-flood: 08:00 - 10:40 | | Impact Ecology monitoring for WBSE | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 08:25 - 12:36 Flood Tide: 12:36 - 18:24 Monitoring Time: Mid-ebb: 08:45 - 12:15 Mid-flood: 13:45 - 17:15 | |
| 12 | 13 | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 13:16 - 21:35 Flood Tide: 06:00 - 15:45 Monitoring Time: Mid-ebb: 13:40 - 17:10 Mid-flood: 09:07 - 12:37 | 14 | Impact Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | 15 | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 15:43 - 23:50 Flood Tide: 08:00 - 15:42 Monitoring Time: #5& Mid-ebb: 15:50 - 19:00 Mid-flood: 10:06 - 13:36 Ecology monitoring for Marine Mammals by Vessel-based Line-Transsect Survey Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location |
| | | 16 | | 17 | 18 | |
| | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 09:19 - 15:14 Flood Tide: 15:14 - 21:34 Monitoring Time: Mid-ebb: 10:31 - 14:01 #5& Mid-flood: 15:33 - 19:00 | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 09:54 - 16:00 Flood Tide: 16:00 - 22:54 Monitoring Time: Mid-ebb: 11:12 - 14:42 #5& Mid-flood: 16:00 - 19:00 Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | Impact Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | |
| 19 | 20 | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 08:51 - 14:03 Flood Tide: 14:03 - 20:53 Monitoring Time: Mid-ebb: 09:42 - 13:12 Mid-flood: 14:23 - 17:53 | 21 | | 22 | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 11:00 - 18:34 Flood Tide: 04:35 - 11:00 Monitoring Time: Mid-ebb: 13:02 - 16:32 *#5 Mid-flood: 08:00 - 11:00 |
| | | 23 | | 24 | 25 | |
| | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 12:00 - 20:38 Flood Tide: 04:48 - 12:00 Monitoring Time: Mid-ebb: 14:34 - 18:04 * Mid-flood: 08:00 - 11:30 Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | | Impact Ecology monitoring for WBSE | | |
| 26 | 27 | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 11:00 - 18:34 Flood Tide: 04:35 - 11:00 Monitoring Time: Mid-ebb: 13:02 - 16:32 *#5 Mid-flood: 08:00 - 11:00 | 28 | Impact Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location Ecology monitoring for Marine Mammals by Vessel-based Line-Transsect Survey | 29 | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Total Period: Ebb Tide: 12:00 - 20:38 Flood Tide: 04:48 - 12:00 Monitoring Time: Mid-ebb: 14:34 - 18:04 * Mid-flood: 08:00 - 11:30 Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location |
| | | 30 | | 31 | | |
| | | Impact Ecology monitoring for WBSE | | | | |

Remarks:
1. Daytime Noise Monitoring (07:00-19:00), Evening Time Noise Monitoring (19:00-23:00), Night Time Noise Monitoring (23:00-07:00)
2. Water Quality Monitoring for S1, S2 and S3 will only conduct during DCM works, refer to Detailed DCM Plan

Note:
* - as per Marine Department Notice No 107 of 2018, all vessels employed for the works should stay in the works area outside the hours of works (0700 to 2300). Due to safety concern, Water Quality Monitoring would start at 0800.
- Prioritized routing: Mid-Ebb: C1->S3->CR2->CR1->H1->Remaining stations and Mid-Flood: C2->CR1->S3->CR2->H1->Remaining stations
\$ - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is approached.
& - Due to safety concern for sampling event in night time, method of 90% tidal period as monitoring time is approached and end at 1900.

Appendix D Water Quality Monitoring Data

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4.6 | 10:38 | 8.45 | 8.31 | 30.84 | 20.36 | 3.88 | 4 | 122 | 0.203 | W |
| B1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4.6 | 10:38 | 8.44 | 8.36 | 30.95 | 20.23 | 3.74 | 3 | 123 | 0.266 | W |
| B1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:39 | 8.36 | 8.36 | 31.11 | 20.33 | 2.97 | 4 | 121 | 0.244 | W |
| B1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:39 | 9.47 | 8.28 | 30.7 | 20.26 | 3 | 3 | 120 | 0.28 | NW |
| B2 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 10:56 | 9.1 | 8.37 | 30.9 | 20.38 | 3.63 | 4 | 123 | 0.184 | W |
| B2 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 10:56 | 9.26 | 8.57 | 31.12 | 20.4 | 3.88 | 4 | 121 | 0.191 | W |
| B2 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:57 | 8.78 | 8.41 | 30.78 | 20.43 | 3.47 | 3 | 122 | 0.268 | W |
| B2 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:57 | 8.26 | 8.49 | 30.84 | 20.16 | 3.25 | 4 | 121 | 0.26 | NW |
| B3 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4 | 10:12 | 8.45 | 8.42 | 30.86 | 20.2 | 4.09 | 3 | 122 | 0.282 | W |
| B3 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4 | 10:12 | 9.27 | 8.46 | 30.73 | 20.3 | 3.8 | 4 | 123 | 0.242 | W |
| B3 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:13 | 8.6 | 8.56 | 30.87 | 20.23 | 3.15 | 5 | 121 | 0.272 | W |
| B3 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:13 | 9.31 | 8.27 | 31.15 | 20.36 | 3.01 | 5 | 122 | 0.272 | W |
| B4 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 10:02 | 8.28 | 8.26 | 30.87 | 20.23 | 4.15 | 3 | 121 | 0.205 | W |
| B4 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 10:02 | 8.96 | 8.34 | 31.08 | 20.19 | 3.85 | 4 | 121 | 0.244 | W |
| B4 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:03 | 8.96 | 8.57 | 30.9 | 20.28 | 3.49 | 5 | 122 | 0.246 | W |
| B4 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:03 | 8.34 | 8.42 | 31.11 | 20.24 | 3.46 | 5 | 122 | 0.19 | W |
| C1A | 20200401 | Cloudy | Moderate | Mid-Flood | B | 9.7 | 9:04 | 9.24 | 8.5 | 30.83 | 20.26 | 3.72 | <2 | 120 | 0.199 | W |
| C1A | 20200401 | Cloudy | Moderate | Mid-Flood | B | 9.7 | 9:04 | 8.27 | 8.4 | 30.9 | 20.35 | 4.01 | 2 | 118 | 0.178 | NW |
| C1A | 20200401 | Cloudy | Moderate | Mid-Flood | M | 5.35 | 9:05 | 8.48 | 8.4 | 30.74 | 20.27 | 3.22 | 3 | 121 | 0.194 | W |
| C1A | 20200401 | Cloudy | Moderate | Mid-Flood | M | 5.35 | 9:05 | 9.56 | 8.54 | 31.09 | 20.12 | 3.47 | <2 | 122 | 0.195 | NW |
| C1A | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 9:06 | 8.83 | 8.49 | 31.07 | 20.29 | 3.03 | <2 | 120 | 0.268 | W |
| C1A | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 9:06 | 9.38 | 8.49 | 31.01 | 20.35 | 3.51 | 3 | 120 | 0.268 | W |
| C2A | 20200401 | Cloudy | Moderate | Mid-Flood | B | 11 | 8:00 | 8.91 | 8.42 | 31.09 | 20.2 | 3.65 | 4 | 122 | 0.208 | W |
| C2A | 20200401 | Cloudy | Moderate | Mid-Flood | B | 11 | 8:00 | 8.67 | 8.63 | 30.71 | 20.12 | 3.84 | 3 | 121 | 0.181 | W |
| C2A | 20200401 | Cloudy | Moderate | Mid-Flood | M | 6 | 8:01 | 8.97 | 8.34 | 31.04 | 20.15 | 3.41 | 4 | 122 | 0.259 | W |
| C2A | 20200401 | Cloudy | Moderate | Mid-Flood | M | 6 | 8:01 | 9.31 | 8.52 | 30.86 | 20.19 | 3.51 | 3 | 122 | 0.207 | W |
| C2A | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 8:02 | 8.69 | 8.43 | 30.78 | 20.36 | 3.27 | 4 | 120 | 0.183 | W |
| C2A | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 8:02 | 9.05 | 8.58 | 30.81 | 20.31 | 3.44 | 5 | 119 | 0.199 | W |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 12.1 | 8:19 | 8.56 | 8.63 | 30.87 | 20.12 | 3.64 | 3 | 120 | 0.199 | W |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 12.1 | 8:19 | 8.3 | 8.62 | 31.03 | 20.36 | 3.93 | 2 | 119 | 0.212 | W |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 6.55 | 8:20 | 8.42 | 8.56 | 31 | 20.14 | 3.12 | 3 | 120 | 0.209 | W |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 6.55 | 8:20 | 9.2 | 8.54 | 30.75 | 20.31 | 3.37 | 2 | 123 | 0.187 | W |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 8:21 | 9.41 | 8.27 | 30.93 | 20.18 | 2.94 | 4 | 121 | 0.248 | NW |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 8:21 | 9.57 | 8.55 | 30.78 | 20.14 | 3.17 | 5 | 118 | 0.184 | W |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 10.7 | 8:36 | 8.47 | 8.41 | 31.06 | 20.14 | 3.59 | 4 | 119 | 0.279 | W |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 10.7 | 8:36 | 9.48 | 8.38 | 30.78 | 20.26 | 4.04 | 3 | 122 | 0.259 | W |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 5.85 | 8:37 | 8.98 | 8.37 | 30.82 | 20.12 | 3.46 | 2 | 122 | 0.193 | W |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 5.85 | 8:37 | 8.73 | 8.45 | 31.11 | 20.2 | 3.15 | 3 | 120 | 0.212 | NW |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 8:38 | 8.89 | 8.6 | 31 | 20.27 | 2.96 | <2 | 118 | 0.281 | W |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 8:38 | 9.38 | 8.34 | 30.99 | 20.17 | 2.96 | 3 | 121 | 0.216 | W |
| F1A | 20200401 | Cloudy | Moderate | Mid-Flood | B | 7.7 | 9:38 | 9.12 | 8.5 | 31.09 | 20.21 | 4.04 | 4 | 119 | 0.275 | W |
| F1A | 20200401 | Cloudy | Moderate | Mid-Flood | B | 7.7 | 9:38 | 8.71 | 8.29 | 30.74 | 20.22 | 3.96 | 3 | 120 | 0.252 | W |
| F1A | 20200401 | Cloudy | Moderate | Mid-Flood | M | 4.35 | 9:39 | 9.45 | 8.55 | 30.75 | 20.22 | 3.69 | 2 | 120 | 0.211 | W |
| F1A | 20200401 | Cloudy | Moderate | Mid-Flood | M | 4.35 | 9:39 | 8.98 | 8.28 | 30.99 | 20.13 | 3.69 | 2 | 121 | 0.193 | NW |
| F1A | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 9:40 | 9.16 | 8.61 | 30.86 | 20.11 | 3.35 | <2 | 120 | 0.186 | W |
| F1A | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 9:40 | 9.22 | 8.63 | 31.09 | 20.21 | 3.52 | <2 | 121 | 0.246 | W |
| H1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 6.6 | 9:38 | 9.44 | 8.6 | 30.72 | 20.22 | 3.93 | 3 | 121 | 0.208 | W |
| H1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 6.6 | 9:38 | 9.21 | 8.39 | 30.95 | 20.14 | 3.47 | 2 | 122 | 0.216 | NW |
| H1 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 3.8 | 9:39 | 8.64 | 8.35 | 30.76 | 20.24 | 3.34 | 3 | 120 | 0.254 | NW |
| H1 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 3.8 | 9:39 | 9.55 | 8.25 | 30.78 | 20.16 | 3.51 | 4 | 120 | 0.185 | W |
| H1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 9:40 | 8.76 | 8.31 | 31.1 | 20.29 | 3.52 | 4 | 119 | 0.227 | NW |
| H1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 9:40 | 9.03 | 8.3 | 31.08 | 20.32 | 3.1 | 4 | 122 | 0.22 | NW |
| M1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 7.4 | 9:17 | 9.21 | 8.58 | 30.76 | 20.18 | 3.95 | 3 | 119 | 0.224 | W |
| M1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 7.4 | 9:17 | 9.09 | 8.43 | 30.77 | 20.17 | 3.74 | 3 | 118 | 0.248 | W |
| M1 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 4.2 | 9:18 | 8.6 | 8.52 | 31.07 | 20.13 | 3.63 | 3 | 118 | 0.253 | NW |
| M1 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 4.2 | 9:18 | 8.77 | 8.27 | 31.09 | 20.19 | 3.65 | 2 | 119 | 0.257 | NW |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| M1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 9:19 | 9.53 | 8.49 | 30.78 | 20.33 | 3.41 | 4 | 121 | 0.245 | W |
| M1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 9:19 | 8.43 | 8.32 | 31.05 | 20.27 | 3.26 | 4 | 120 | 0.183 | NW |
| S1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4.5 | 10:47 | 9.5 | 8.56 | 30.78 | 20.32 | 3.87 | 3 | 121 | 0.183 | W |
| S1 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 4.5 | 10:47 | 9.61 | 8.46 | 30.92 | 20.2 | 3.65 | 3 | 121 | 0.277 | W |
| S1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:48 | 9.17 | 8.37 | 31.01 | 20.15 | 3.32 | 2 | 121 | 0.271 | W |
| S1 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:48 | 9.22 | 8.53 | 31.05 | 20.35 | 3.27 | 3 | 121 | 0.178 | NW |
| S2A | 20200401 | Cloudy | Moderate | Mid-Flood | B | 8.7 | 10:25 | 8.27 | 8.27 | 30.98 | 20.35 | 3.48 | 3 | 120 | 0.259 | W |
| S2A | 20200401 | Cloudy | Moderate | Mid-Flood | B | 8.7 | 10:25 | 8.48 | 8.6 | 30.79 | 20.18 | 3.57 | 3 | 122 | 0.197 | W |
| S2A | 20200401 | Cloudy | Moderate | Mid-Flood | M | 4.85 | 10:26 | 8.38 | 8.41 | 30.8 | 20.34 | 3.44 | 3 | 119 | 0.239 | W |
| S2A | 20200401 | Cloudy | Moderate | Mid-Flood | M | 4.85 | 10:26 | 8.41 | 8.52 | 30.96 | 20.25 | 3.23 | 2 | 121 | 0.179 | NW |
| S2A | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:27 | 9.24 | 8.35 | 31.15 | 20.19 | 3.09 | 3 | 122 | 0.207 | NW |
| S2A | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:27 | 9.25 | 8.33 | 31 | 20.42 | 3 | 2 | 120 | 0.274 | W |
| S3 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 8.3 | 8:45 | 8.66 | 8.25 | 30.76 | 20.27 | 3.94 | 4 | 121 | 0.233 | W |
| S3 | 20200401 | Cloudy | Moderate | Mid-Flood | B | 8.3 | 8:45 | 8.91 | 8.44 | 31.15 | 20.16 | 4.08 | 3 | 121 | 0.274 | W |
| S3 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 4.65 | 8:46 | 8.85 | 8.55 | 30.87 | 20.35 | 3.13 | 3 | 119 | 0.191 | W |
| S3 | 20200401 | Cloudy | Moderate | Mid-Flood | M | 4.65 | 8:46 | 8.86 | 8.36 | 30.77 | 20.1 | 3.53 | 3 | 119 | 0.24 | NW |
| S3 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 8:47 | 9.31 | 8.61 | 30.79 | 20.27 | 3.26 | 4 | 120 | 0.229 | W |
| S3 | 20200401 | Cloudy | Moderate | Mid-Flood | S | 1 | 8:47 | 8.32 | 8.54 | 31.05 | 20.18 | 3.18 | 3 | 121 | 0.282 | W |
| B1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 3.6 | 13:48 | 9.06 | 8.32 | 30.82 | 20.38 | 3.71 | 2 | 122 | 0.219 | SE |
| B1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 3.6 | 13:48 | 8.82 | 8.61 | 30.68 | 20.39 | 3.71 | <2 | 122 | 0.201 | SE |
| B1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:49 | 9.44 | 8.56 | 30.65 | 20.46 | 3.23 | 3 | 118 | 0.189 | E |
| B1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:49 | 8.27 | 8.56 | 30.68 | 20.57 | 3.39 | 2 | 119 | 0.257 | SE |
| B2 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 4 | 13:30 | 8.6 | 8.6 | 30.9 | 20.43 | 3.95 | 3 | 122 | 0.257 | SE |
| B2 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 4 | 13:30 | 8.48 | 8.38 | 30.89 | 20.55 | 3.82 | 3 | 121 | 0.232 | SE |
| B2 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:31 | 8.68 | 8.64 | 30.59 | 20.48 | 3.38 | 2 | 119 | 0.25 | E |
| B2 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:31 | 8.34 | 8.4 | 30.54 | 20.52 | 3.39 | 4 | 122 | 0.2 | SE |
| B3 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 4.5 | 14:14 | 9.21 | 8.44 | 30.58 | 20.49 | 3.87 | 3 | 120 | 0.219 | E |
| B3 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 4.5 | 14:14 | 9.06 | 8.36 | 30.73 | 20.48 | 3.92 | <2 | 117 | 0.258 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B3 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:15 | 9.21 | 8.33 | 30.58 | 20.51 | 3.22 | 4 | 115 | 0.177 | E |
| B3 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:15 | 9.38 | 8.26 | 30.86 | 20.43 | 3.29 | 3 | 118 | 0.183 | E |
| B4 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 3.3 | 14:21 | 8.98 | 8.38 | 30.63 | 20.48 | 4.04 | 2 | 117 | 0.208 | SE |
| B4 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 3.3 | 14:21 | 9.24 | 8.36 | 30.77 | 20.38 | 3.85 | 2 | 119 | 0.282 | E |
| B4 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:22 | 8.75 | 8.33 | 30.8 | 20.5 | 3.43 | <2 | 116 | 0.251 | E |
| B4 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:22 | 9.54 | 8.48 | 30.53 | 20.37 | 3.15 | 2 | 118 | 0.206 | SE |
| C1A | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 8.9 | 13:30 | 8.55 | 8.63 | 30.66 | 20.59 | 3.72 | <2 | 119 | 0.203 | E |
| C1A | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 8.9 | 13:30 | 9.52 | 8.38 | 30.67 | 20.44 | 3.62 | 2 | 116 | 0.22 | E |
| C1A | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.95 | 13:31 | 9.13 | 8.62 | 30.87 | 20.48 | 3.37 | 2 | 120 | 0.264 | E |
| C1A | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.95 | 13:31 | 8.38 | 8.46 | 30.52 | 20.58 | 3.26 | 2 | 119 | 0.204 | SE |
| C1A | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:32 | 9.17 | 8.34 | 30.76 | 20.54 | 2.98 | 3 | 119 | 0.208 | E |
| C1A | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:32 | 8.56 | 8.4 | 30.86 | 20.47 | 3.1 | <2 | 119 | 0.208 | SE |
| C2A | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 11.5 | 14:51 | 9.07 | 8.52 | 30.85 | 20.55 | 3.65 | 2 | 117 | 0.178 | SE |
| C2A | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 11.5 | 14:51 | 8.69 | 8.53 | 30.71 | 20.56 | 3.83 | <2 | 118 | 0.255 | SE |
| C2A | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 6.25 | 14:52 | 9.41 | 8.61 | 30.62 | 20.41 | 3.09 | 3 | 119 | 0.281 | SE |
| C2A | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 6.25 | 14:52 | 9.37 | 8.52 | 30.61 | 20.38 | 3.09 | 3 | 120 | 0.279 | E |
| C2A | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:53 | 8.58 | 8.48 | 30.78 | 20.59 | 3.12 | 3 | 118 | 0.274 | SE |
| C2A | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:53 | 8.6 | 8.38 | 30.76 | 20.51 | 3.31 | <2 | 119 | 0.252 | SE |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 11.5 | 14:32 | 9.44 | 8.44 | 30.92 | 20.42 | 3.77 | 2 | 119 | 0.214 | SE |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 11.5 | 14:32 | 9.46 | 8.37 | 30.6 | 20.53 | 4.05 | <2 | 118 | 0.252 | SE |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 6.25 | 14:33 | 9.51 | 8.41 | 30.95 | 20.51 | 3.26 | 2 | 118 | 0.246 | SE |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 6.25 | 14:33 | 8.76 | 8.5 | 30.51 | 20.49 | 3.14 | <2 | 119 | 0.199 | E |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:34 | 9.47 | 8.39 | 30.84 | 20.55 | 3.01 | 2 | 120 | 0.18 | SE |
| CR1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:34 | 8.6 | 8.34 | 30.53 | 20.56 | 2.95 | <2 | 120 | 0.229 | SE |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 10.8 | 14:12 | 8.9 | 8.38 | 30.89 | 20.49 | 3.64 | 4 | 116 | 0.253 | SE |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 10.8 | 14:12 | 9.51 | 8.45 | 30.67 | 20.46 | 3.76 | 3 | 119 | 0.275 | E |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 5.9 | 14:13 | 9.45 | 8.36 | 30.64 | 20.5 | 3.38 | <2 | 119 | 0.216 | SE |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 5.9 | 14:13 | 8.35 | 8.65 | 30.63 | 20.47 | 3.03 | <2 | 119 | 0.268 | SE |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR2 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:14 | 9.52 | 8.66 | 30.69 | 20.54 | 3.36 | 2 | 118 | 0.2 | E |
| CR2 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:14 | 8.97 | 8.39 | 30.56 | 20.4 | 3.28 | <2 | 117 | 0.244 | SE |
| F1A | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 7.1 | 14:43 | 8.86 | 8.54 | 30.67 | 20.49 | 4 | <2 | 119 | 0.281 | SE |
| F1A | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 7.1 | 14:43 | 9.09 | 8.46 | 30.93 | 20.4 | 3.52 | <2 | 120 | 0.203 | SE |
| F1A | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.05 | 14:44 | 9.22 | 8.63 | 30.51 | 20.5 | 3.05 | 4 | 116 | 0.278 | SE |
| F1A | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.05 | 14:44 | 8.64 | 8.56 | 30.82 | 20.45 | 3.18 | 4 | 119 | 0.254 | SE |
| F1A | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:45 | 9.45 | 8.28 | 30.51 | 20.46 | 3.11 | 4 | 119 | 0.233 | E |
| F1A | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:45 | 9.4 | 8.53 | 30.54 | 20.6 | 3.43 | 3 | 119 | 0.258 | SE |
| H1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 7.9 | 13:54 | 8.24 | 8.3 | 30.74 | 20.48 | 3.8 | 2 | 120 | 0.278 | SE |
| H1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 7.9 | 13:54 | 9.53 | 8.45 | 30.77 | 20.51 | 3.71 | 4 | 118 | 0.202 | E |
| H1 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.45 | 13:55 | 8.89 | 8.31 | 30.92 | 20.37 | 3.1 | 3 | 120 | 0.197 | SE |
| H1 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.45 | 13:55 | 8.8 | 8.54 | 30.71 | 20.49 | 2.98 | 4 | 119 | 0.201 | SE |
| H1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:56 | 8.58 | 8.27 | 30.63 | 20.48 | 3.1 | 3 | 119 | 0.188 | SE |
| H1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:56 | 8.53 | 8.54 | 30.61 | 20.59 | 3.53 | 3 | 120 | 0.187 | E |
| M1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 8.9 | 15:04 | 8.42 | 8.28 | 30.74 | 20.4 | 3.69 | 4 | 120 | 0.245 | SE |
| M1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 8.9 | 15:04 | 8.51 | 8.26 | 30.62 | 20.55 | 3.88 | 3 | 120 | 0.236 | SE |
| M1 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.95 | 15:05 | 9.34 | 8.6 | 30.9 | 20.53 | 3.01 | 3 | 119 | 0.244 | E |
| M1 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.95 | 15:05 | 9.07 | 8.58 | 30.77 | 20.53 | 3.43 | 3 | 117 | 0.204 | SE |
| M1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 15:06 | 9.54 | 8.38 | 30.83 | 20.44 | 3.53 | 3 | 119 | 0.224 | SE |
| M1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 15:06 | 9.09 | 8.56 | 30.93 | 20.48 | 3.35 | 3 | 120 | 0.212 | SE |
| S1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 3.9 | 13:40 | 9.14 | 8.48 | 30.97 | 20.39 | 3.5 | <2 | 118 | 0.24 | E |
| S1 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 3.9 | 13:40 | 9.03 | 8.57 | 30.53 | 20.56 | 4.07 | 2 | 119 | 0.234 | SE |
| S1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:41 | 8.28 | 8.38 | 30.8 | 20.41 | 2.95 | <2 | 119 | 0.256 | E |
| S1 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:41 | 8.74 | 8.56 | 30.98 | 20.52 | 3.12 | <2 | 118 | 0.223 | SE |
| S2A | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 8.6 | 14:01 | 8.93 | 8.39 | 30.97 | 20.45 | 3.82 | 3 | 118 | 0.216 | SE |
| S2A | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 8.6 | 14:01 | 9.12 | 8.56 | 30.59 | 20.54 | 3.69 | 2 | 117 | 0.267 | E |
| S2A | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.8 | 14:02 | 8.99 | 8.47 | 30.58 | 20.45 | 3.37 | <2 | 118 | 0.218 | SE |
| S2A | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 4.8 | 14:02 | 8.78 | 8.63 | 30.63 | 20.48 | 3.56 | <2 | 118 | 0.222 | E |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S2A | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:03 | 8.67 | 8.55 | 30.61 | 20.38 | 3.5 | 2 | 118 | 0.242 | SE |
| S2A | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:03 | 9.35 | 8.45 | 30.67 | 20.39 | 3.07 | <2 | 118 | 0.19 | E |
| S3 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 10.6 | 14:21 | 9.38 | 8.58 | 30.81 | 20.58 | 3.72 | <2 | 120 | 0.241 | E |
| S3 | 20200401 | Cloudy | Moderate | Mid-Ebb | B | 10.6 | 14:21 | 9.21 | 8.49 | 30.83 | 20.37 | 3.74 | 2 | 118 | 0.176 | SE |
| S3 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 5.8 | 14:22 | 8.51 | 8.28 | 30.5 | 20.43 | 3.45 | <2 | 118 | 0.212 | SE |
| S3 | 20200401 | Cloudy | Moderate | Mid-Ebb | M | 5.8 | 14:22 | 9.2 | 8.43 | 30.59 | 20.55 | 3.06 | <2 | 119 | 0.221 | SE |
| S3 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:23 | 8.43 | 8.44 | 30.97 | 20.4 | 3.62 | <2 | 119 | 0.214 | SE |
| S3 | 20200401 | Cloudy | Moderate | Mid-Ebb | S | 1 | 14:23 | 8.65 | 8.39 | 30.65 | 20.38 | 3.17 | <2 | 119 | 0.215 | SE |
| B1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 3.7 | 13:00 | 8.48 | 8.45 | 30.6 | 20.46 | 3.18 | 3 | 122 | 0.173 | W |
| B1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 3.7 | 13:00 | 8.32 | 8.35 | 30.35 | 20.61 | 3.28 | 3 | 121 | 0.164 | W |
| B1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:01 | 8.52 | 8.34 | 30.24 | 20.43 | 2.43 | 3 | 121 | 0.209 | W |
| B1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:01 | 8.68 | 8.32 | 30.32 | 20.48 | 2.89 | 4 | 119 | 0.22 | W |
| B2 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 4 | 13:18 | 8.71 | 8.29 | 30.51 | 20.64 | 3.04 | 4 | 122 | 0.195 | W |
| B2 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 4 | 13:18 | 8.35 | 8.25 | 30.3 | 20.6 | 2.92 | 4 | 122 | 0.186 | NW |
| B2 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:19 | 8.55 | 8.44 | 30.24 | 20.46 | 2.4 | 2 | 118 | 0.211 | NW |
| B2 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:19 | 8.67 | 8.37 | 30.21 | 20.63 | 2.38 | 2 | 121 | 0.213 | W |
| B3 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 3.8 | 12:33 | 8.43 | 8.45 | 30.6 | 20.47 | 3.59 | 3 | 122 | 0.225 | W |
| B3 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 3.8 | 12:33 | 8.3 | 8.35 | 30.45 | 20.34 | 3.59 | 3 | 119 | 0.23 | W |
| B3 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:34 | 8.27 | 8.28 | 30.3 | 20.48 | 2.97 | 4 | 122 | 0.167 | W |
| B3 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:34 | 8.38 | 8.32 | 30.46 | 20.63 | 2.6 | 4 | 119 | 0.188 | NW |
| B4 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 12:24 | 8.62 | 8.36 | 30.44 | 20.56 | 3.52 | 3 | 122 | 0.172 | NW |
| B4 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 12:24 | 8.77 | 8.5 | 30.43 | 20.56 | 3.3 | 3 | 120 | 0.191 | W |
| B4 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:25 | 8.29 | 8.45 | 30.28 | 20.57 | 2.84 | 3 | 120 | 0.188 | W |
| B4 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:25 | 8.68 | 8.39 | 30.59 | 20.47 | 2.83 | 4 | 120 | 0.163 | W |
| C1A | 20200403 | Cloudy | Moderate | Mid-Flood | B | 10.8 | 11:51 | 8.51 | 8.4 | 30.27 | 20.43 | 3.13 | 6 | 121 | 0.177 | W |
| C1A | 20200403 | Cloudy | Moderate | Mid-Flood | B | 10.8 | 11:51 | 8.53 | 8.39 | 30.32 | 20.45 | 2.88 | 6 | 120 | 0.231 | NW |
| C1A | 20200403 | Cloudy | Moderate | Mid-Flood | M | 5.9 | 11:52 | 8.47 | 8.52 | 30.52 | 20.37 | 2.56 | 5 | 120 | 0.184 | W |
| C1A | 20200403 | Cloudy | Moderate | Mid-Flood | M | 5.9 | 11:52 | 8.7 | 8.32 | 30.51 | 20.35 | 3.09 | 5 | 120 | 0.184 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C1A | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:53 | 8.59 | 8.45 | 30.43 | 20.34 | 2.51 | 5 | 120 | 0.168 | NW |
| C1A | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:53 | 8.28 | 8.29 | 30.24 | 20.49 | 2.64 | 5 | 121 | 0.192 | NW |
| C2A | 20200403 | Cloudy | Moderate | Mid-Flood | B | 10.3 | 10:45 | 8.58 | 8.38 | 30.45 | 20.52 | 3.44 | 6 | 119 | 0.172 | W |
| C2A | 20200403 | Cloudy | Moderate | Mid-Flood | B | 10.3 | 10:45 | 8.68 | 8.47 | 30.42 | 20.59 | 2.98 | 6 | 122 | 0.174 | W |
| C2A | 20200403 | Cloudy | Moderate | Mid-Flood | M | 5.65 | 10:46 | 8.56 | 8.37 | 30.5 | 20.57 | 2.93 | 6 | 121 | 0.212 | W |
| C2A | 20200403 | Cloudy | Moderate | Mid-Flood | M | 5.65 | 10:46 | 8.65 | 8.53 | 30.24 | 20.34 | 3.04 | 6 | 119 | 0.165 | W |
| C2A | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:47 | 8.72 | 8.29 | 30.48 | 20.41 | 2.88 | 6 | 121 | 0.183 | NW |
| C2A | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:47 | 8.66 | 8.41 | 30.23 | 20.51 | 2.9 | 6 | 119 | 0.193 | W |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 11.8 | 11:07 | 8.39 | 8.41 | 30.46 | 20.36 | 2.91 | 3 | 121 | 0.194 | W |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 11.8 | 11:07 | 8.73 | 8.45 | 30.49 | 20.39 | 3.13 | 3 | 118 | 0.24 | NW |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 6.4 | 11:08 | 8.71 | 8.39 | 30.43 | 20.43 | 2.71 | 3 | 122 | 0.177 | W |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 6.4 | 11:08 | 8.31 | 8.39 | 30.5 | 20.35 | 2.62 | 3 | 121 | 0.219 | W |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:09 | 8.81 | 8.52 | 30.38 | 20.38 | 2.51 | 2 | 121 | 0.237 | W |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:09 | 8.57 | 8.42 | 30.37 | 20.58 | 2.68 | 2 | 119 | 0.162 | W |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 9.7 | 11:22 | 8.39 | 8.5 | 30.3 | 20.5 | 3.16 | 4 | 122 | 0.164 | W |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 9.7 | 11:22 | 8.65 | 8.51 | 30.5 | 20.46 | 3.21 | 4 | 121 | 0.213 | W |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 5.35 | 11:23 | 8.63 | 8.42 | 30.46 | 20.35 | 2.66 | 3 | 122 | 0.172 | W |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 5.35 | 11:23 | 8.4 | 8.33 | 30.61 | 20.48 | 2.71 | 3 | 121 | 0.165 | W |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:24 | 8.76 | 8.32 | 30.52 | 20.35 | 2.68 | <2 | 122 | 0.201 | W |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:24 | 8.76 | 8.36 | 30.42 | 20.51 | 2.35 | <2 | 122 | 0.204 | W |
| F1A | 20200403 | Cloudy | Moderate | Mid-Flood | B | 6.9 | 12:02 | 8.76 | 8.49 | 30.5 | 20.47 | 2.97 | 9 | 119 | 0.231 | W |
| F1A | 20200403 | Cloudy | Moderate | Mid-Flood | B | 6.9 | 12:02 | 8.36 | 8.34 | 30.49 | 20.54 | 3.1 | 9 | 121 | 0.219 | W |
| F1A | 20200403 | Cloudy | Moderate | Mid-Flood | M | 3.95 | 12:03 | 8.56 | 8.47 | 30.61 | 20.36 | 2.75 | 8 | 121 | 0.161 | W |
| F1A | 20200403 | Cloudy | Moderate | Mid-Flood | M | 3.95 | 12:03 | 8.27 | 8.42 | 30.3 | 20.62 | 2.55 | 8 | 121 | 0.205 | W |
| F1A | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:04 | 8.59 | 8.31 | 30.55 | 20.46 | 2.44 | 7 | 120 | 0.199 | W |
| F1A | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:04 | 8.42 | 8.33 | 30.6 | 20.49 | 2.39 | 7 | 120 | 0.183 | W |
| H1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 6.5 | 12:16 | 8.59 | 8.29 | 30.33 | 20.42 | 2.94 | 3 | 121 | 0.23 | W |
| H1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 6.5 | 12:16 | 8.63 | 8.49 | 30.53 | 20.41 | 3.05 | 3 | 119 | 0.182 | NW |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| H1 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 3.75 | 12:17 | 8.64 | 8.5 | 30.31 | 20.59 | 2.94 | 3 | 123 | 0.182 | W |
| H1 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 3.75 | 12:17 | 8.41 | 8.3 | 30.37 | 20.36 | 2.89 | 3 | 122 | 0.202 | NW |
| H1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:18 | 8.36 | 8.32 | 30.27 | 20.45 | 2.36 | 3 | 121 | 0.179 | W |
| H1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:18 | 8.33 | 8.53 | 30.29 | 20.6 | 2.46 | 3 | 119 | 0.22 | NW |
| M1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 7.7 | 11:39 | 8.78 | 8.39 | 30.62 | 20.51 | 3.14 | 8 | 119 | 0.199 | W |
| M1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 7.7 | 11:39 | 8.74 | 8.26 | 30.49 | 20.39 | 3.18 | 8 | 119 | 0.172 | NW |
| M1 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 4.35 | 11:40 | 8.69 | 8.48 | 30.2 | 20.37 | 2.78 | 5 | 118 | 0.162 | NW |
| M1 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 4.35 | 11:40 | 8.55 | 8.46 | 30.31 | 20.59 | 2.77 | 5 | 120 | 0.225 | W |
| M1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:41 | 8.48 | 8.37 | 30.21 | 20.32 | 2.43 | 4 | 118 | 0.238 | NW |
| M1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:41 | 8.28 | 8.38 | 30.45 | 20.33 | 2.46 | 4 | 120 | 0.166 | W |
| S1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 13:09 | 8.57 | 8.53 | 30.33 | 20.56 | 3.43 | 6 | 118 | 0.239 | W |
| S1 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 13:09 | 8.29 | 8.33 | 30.37 | 20.57 | 3.33 | 6 | 120 | 0.198 | NW |
| S1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:10 | 8.48 | 8.47 | 30.57 | 20.55 | 2.83 | 5 | 121 | 0.208 | W |
| S1 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:10 | 8.8 | 8.44 | 30.54 | 20.56 | 2.68 | 5 | 118 | 0.174 | W |
| S2A | 20200403 | Cloudy | Moderate | Mid-Flood | B | 8.7 | 12:46 | 8.78 | 8.3 | 30.25 | 20.54 | 3.43 | 3 | 121 | 0.195 | W |
| S2A | 20200403 | Cloudy | Moderate | Mid-Flood | B | 8.7 | 12:46 | 8.65 | 8.48 | 30.33 | 20.45 | 3.33 | 3 | 120 | 0.174 | W |
| S2A | 20200403 | Cloudy | Moderate | Mid-Flood | M | 4.85 | 12:47 | 8.48 | 8.4 | 30.26 | 20.53 | 2.91 | 4 | 122 | 0.223 | W |
| S2A | 20200403 | Cloudy | Moderate | Mid-Flood | M | 4.85 | 12:47 | 8.48 | 8.25 | 30.25 | 20.6 | 2.6 | 3 | 120 | 0.238 | W |
| S2A | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:48 | 8.5 | 8.32 | 30.38 | 20.51 | 2.41 | 3 | 122 | 0.24 | W |
| S2A | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:48 | 8.34 | 8.41 | 30.22 | 20.66 | 2.91 | 4 | 120 | 0.178 | W |
| S3 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 8.7 | 11:34 | 8.5 | 8.35 | 30.48 | 20.48 | 3.18 | 2 | 120 | 0.163 | W |
| S3 | 20200403 | Cloudy | Moderate | Mid-Flood | B | 8.7 | 11:34 | 8.78 | 8.5 | 30.45 | 20.52 | 3.52 | 2 | 122 | 0.202 | W |
| S3 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 4.85 | 11:35 | 8.29 | 8.41 | 30.57 | 20.51 | 2.61 | 3 | 120 | 0.231 | W |
| S3 | 20200403 | Cloudy | Moderate | Mid-Flood | M | 4.85 | 11:35 | 8.5 | 8.34 | 30.43 | 20.33 | 2.54 | 3 | 120 | 0.16 | W |
| S3 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:36 | 8.59 | 8.42 | 30.2 | 20.42 | 2.91 | 3 | 121 | 0.182 | NW |
| S3 | 20200403 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:36 | 8.42 | 8.41 | 30.26 | 20.48 | 2.56 | 3 | 121 | 0.228 | W |
| B1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 3.8 | 16:34 | 8.84 | 8.34 | 30.29 | 20.53 | 3.41 | 4 | 122 | 0.175 | SE |
| B1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 3.8 | 16:34 | 8.76 | 8.44 | 30.34 | 20.39 | 3.27 | 4 | 120 | 0.186 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:35 | 8.84 | 8.46 | 30.37 | 20.46 | 2.55 | 5 | 122 | 0.171 | E |
| B1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:35 | 8.43 | 8.54 | 30.38 | 20.59 | 2.53 | 5 | 122 | 0.238 | SE |
| B2 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 4.6 | 16:59 | 8.45 | 8.29 | 30.33 | 20.65 | 3.06 | 4 | 121 | 0.233 | SE |
| B2 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 4.6 | 16:59 | 8.57 | 8.34 | 30.24 | 20.53 | 3.34 | 3 | 122 | 0.167 | SE |
| B2 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:00 | 8.66 | 8.55 | 30.5 | 20.57 | 2.33 | 3 | 120 | 0.176 | E |
| B2 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:00 | 8.52 | 8.51 | 30.38 | 20.52 | 2.9 | 3 | 123 | 0.198 | SE |
| B3 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 3.9 | 16:26 | 8.57 | 8.49 | 30.47 | 20.49 | 3.31 | 6 | 122 | 0.2 | E |
| B3 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 3.9 | 16:26 | 8.43 | 8.29 | 30.39 | 20.46 | 3.31 | 6 | 121 | 0.24 | E |
| B3 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:27 | 8.22 | 8.45 | 30.33 | 20.59 | 2.69 | 4 | 122 | 0.242 | SE |
| B3 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:27 | 8.33 | 8.35 | 30.27 | 20.56 | 2.75 | 4 | 123 | 0.194 | E |
| B4 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 3.5 | 16:33 | 8.7 | 8.41 | 30.16 | 20.54 | 3.54 | 6 | 123 | 0.158 | E |
| B4 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 3.5 | 16:33 | 8.6 | 8.48 | 30.1 | 20.57 | 3.02 | 6 | 121 | 0.198 | SE |
| B4 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:34 | 8.73 | 8.31 | 30.23 | 20.57 | 2.85 | 4 | 122 | 0.192 | SE |
| B4 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:34 | 8.68 | 8.37 | 30.26 | 20.6 | 2.67 | 5 | 121 | 0.214 | SE |
| C1A | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 9.8 | 16:00 | 8.53 | 8.28 | 30.27 | 20.54 | 3.42 | 4 | 120 | 0.196 | SE |
| C1A | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 9.8 | 16:00 | 8.23 | 8.32 | 30.11 | 20.46 | 3.07 | 4 | 123 | 0.183 | E |
| C1A | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 5.4 | 16:01 | 8.34 | 8.29 | 30.14 | 20.45 | 2.52 | 5 | 120 | 0.169 | E |
| C1A | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 5.4 | 16:01 | 8.26 | 8.33 | 30.28 | 20.51 | 2.49 | 5 | 121 | 0.196 | SE |
| C1A | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:02 | 8.38 | 8.5 | 30.25 | 20.41 | 2.89 | 5 | 121 | 0.168 | SE |
| C1A | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:02 | 8.83 | 8.3 | 30.25 | 20.53 | 2.47 | 5 | 120 | 0.16 | SE |
| C2A | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 11 | 16:02 | 8.93 | 8.55 | 30.14 | 20.47 | 3.42 | 5 | 121 | 0.184 | E |
| C2A | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 11 | 16:02 | 8.74 | 8.34 | 30.34 | 20.42 | 2.99 | 5 | 121 | 0.206 | E |
| C2A | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 6 | 16:03 | 8.52 | 8.38 | 30.37 | 20.45 | 2.86 | 5 | 120 | 0.162 | E |
| C2A | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 6 | 16:03 | 8.57 | 8.35 | 30.49 | 20.54 | 2.38 | 5 | 121 | 0.247 | SE |
| C2A | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:04 | 8.45 | 8.4 | 30.38 | 20.53 | 2.6 | 4 | 123 | 0.189 | SE |
| C2A | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:04 | 8.36 | 8.33 | 30.42 | 20.4 | 2.87 | 4 | 121 | 0.203 | SE |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 11.7 | 18:08 | 8.93 | 8.57 | 30.31 | 20.53 | 3.4 | 4 | 124 | 0.178 | SE |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 11.7 | 18:08 | 8.81 | 8.54 | 30.49 | 20.41 | 3.08 | 4 | 123 | 0.232 | SE |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR1 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 6.35 | 18:09 | 8.65 | 8.37 | 30.44 | 20.49 | 2.51 | 4 | 124 | 0.252 | SE |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 6.35 | 18:09 | 8.58 | 8.52 | 30.3 | 20.47 | 2.48 | 4 | 124 | 0.22 | SE |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 18:10 | 8.26 | 8.49 | 30.27 | 20.41 | 2.68 | 5 | 124 | 0.235 | SE |
| CR1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 18:10 | 8.26 | 8.37 | 30.15 | 20.63 | 2.48 | 5 | 124 | 0.241 | SE |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 10.7 | 17:45 | 8.37 | 8.47 | 30.15 | 20.51 | 3.43 | 8 | 124 | 0.242 | SE |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 10.7 | 17:45 | 8.53 | 8.28 | 30.14 | 20.52 | 3.2 | 8 | 123 | 0.195 | SE |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 5.85 | 17:46 | 8.28 | 8.5 | 30.26 | 20.43 | 2.88 | 7 | 124 | 0.184 | SE |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 5.85 | 17:46 | 8.56 | 8.46 | 30.37 | 20.54 | 2.61 | 7 | 123 | 0.157 | SE |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:47 | 8.77 | 8.35 | 30.13 | 20.58 | 2.43 | 5 | 123 | 0.171 | E |
| CR2 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:47 | 8.89 | 8.44 | 30.15 | 20.53 | 2.4 | 5 | 124 | 0.237 | SE |
| F1A | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 7.5 | 16:53 | 8.46 | 8.29 | 30.31 | 20.58 | 3.3 | 8 | 124 | 0.157 | E |
| F1A | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 7.5 | 16:53 | 8.85 | 8.37 | 30.31 | 20.48 | 3.18 | 8 | 124 | 0.231 | SE |
| F1A | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 4.25 | 16:54 | 8.62 | 8.26 | 30.27 | 20.57 | 2.52 | 7 | 123 | 0.234 | SE |
| F1A | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 4.25 | 16:54 | 8.81 | 8.26 | 30.36 | 20.6 | 2.53 | 7 | 124 | 0.174 | SE |
| F1A | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:55 | 8.74 | 8.32 | 30.48 | 20.45 | 2.64 | 4 | 122 | 0.208 | SE |
| F1A | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:55 | 8.59 | 8.49 | 30.17 | 20.64 | 2.62 | 5 | 124 | 0.158 | SE |
| H1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 7.8 | 16:15 | 8.89 | 8.42 | 30.36 | 20.56 | 3.29 | 3 | 122 | 0.226 | SE |
| H1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 7.8 | 16:15 | 8.68 | 8.5 | 30.24 | 20.4 | 3.41 | 3 | 121 | 0.206 | SE |
| H1 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 4.4 | 16:16 | 8.75 | 8.37 | 30.14 | 20.53 | 2.56 | 4 | 120 | 0.209 | E |
| H1 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 4.4 | 16:16 | 8.64 | 8.26 | 30.32 | 20.4 | 2.38 | 4 | 122 | 0.171 | SE |
| H1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:17 | 8.22 | 8.26 | 30.12 | 20.51 | 2.54 | 4 | 123 | 0.193 | E |
| H1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:17 | 8.35 | 8.55 | 30.1 | 20.48 | 2.43 | 4 | 122 | 0.212 | SE |
| M1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 8 | 17:13 | 8.4 | 8.52 | 30.19 | 20.64 | 3.12 | 5 | 124 | 0.196 | SE |
| M1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 8 | 17:13 | 8.29 | 8.37 | 30.49 | 20.54 | 3.42 | 5 | 124 | 0.229 | SE |
| M1 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 4.5 | 17:14 | 8.28 | 8.33 | 30.42 | 20.54 | 2.37 | 4 | 123 | 0.176 | E |
| M1 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 4.5 | 17:14 | 8.34 | 8.55 | 30.3 | 20.56 | 2.35 | 4 | 124 | 0.245 | SE |
| M1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:15 | 8.59 | 8.46 | 30.39 | 20.48 | 2.4 | 4 | 124 | 0.163 | E |
| M1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:15 | 8.87 | 8.48 | 30.28 | 20.63 | 2.49 | 4 | 124 | 0.182 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 4.5 | 16:50 | 8.98 | 8.31 | 30.41 | 20.55 | 3.15 | 7 | 123 | 0.188 | SE |
| S1 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 4.5 | 16:50 | 8.82 | 8.38 | 30.11 | 20.54 | 2.98 | 6 | 124 | 0.214 | SE |
| S1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:51 | 8.7 | 8.26 | 30.46 | 20.56 | 2.35 | 8 | 124 | 0.226 | SE |
| S1 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:51 | 8.36 | 8.34 | 30.14 | 20.52 | 2.37 | 8 | 124 | 0.197 | SE |
| S2A | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 7.8 | 17:22 | 8.7 | 8.51 | 30.17 | 20.51 | 3.3 | 3 | 124 | 0.203 | SE |
| S2A | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 7.8 | 17:22 | 8.86 | 8.35 | 30.42 | 20.6 | 3.35 | 3 | 124 | 0.2 | E |
| S2A | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 4.4 | 17:23 | 8.9 | 8.27 | 30.46 | 20.67 | 2.4 | 4 | 124 | 0.21 | E |
| S2A | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 4.4 | 17:23 | 8.96 | 8.42 | 30.14 | 20.54 | 2.53 | 4 | 124 | 0.247 | SE |
| S2A | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:24 | 8.48 | 8.54 | 30.44 | 20.48 | 2.49 | 5 | 124 | 0.233 | SE |
| S2A | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:24 | 8.75 | 8.33 | 30.22 | 20.69 | 2.46 | 5 | 124 | 0.218 | E |
| S3 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 9.5 | 17:54 | 8.85 | 8.37 | 30.31 | 20.47 | 3.51 | 4 | 123 | 0.202 | SE |
| S3 | 20200403 | Cloudy | Moderate | Mid-Ebb | B | 9.5 | 17:54 | 8.71 | 8.5 | 30.13 | 20.54 | 3.18 | 5 | 123 | 0.172 | SE |
| S3 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 5.25 | 17:55 | 8.35 | 8.51 | 30.19 | 20.4 | 2.87 | 6 | 122 | 0.168 | SE |
| S3 | 20200403 | Cloudy | Moderate | Mid-Ebb | M | 5.25 | 17:55 | 8.52 | 8.38 | 30.28 | 20.54 | 2.8 | 6 | 123 | 0.177 | SE |
| S3 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:56 | 8.91 | 8.48 | 30.14 | 20.44 | 2.71 | 6 | 123 | 0.197 | SE |
| S3 | 20200403 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:56 | 8.85 | 8.39 | 30.21 | 20.46 | 2.55 | 5 | 124 | 0.221 | SE |
| B1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 3.9 | 10:30 | 8.07 | 8.43 | 30.47 | 20.21 | 3.06 | 4 | 121 | 0.162 | S |
| B1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 3.9 | 10:30 | 8.46 | 8.25 | 30.33 | 20.37 | 3.58 | 4 | 122 | 0.18 | SE |
| B1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:31 | 8.36 | 8.17 | 30.3 | 20.29 | 3.29 | 3 | 122 | 0.2 | SE |
| B1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:31 | 8.29 | 8.36 | 30.5 | 20.13 | 3.49 | 3 | 122 | 0.241 | S |
| B2 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 4.3 | 10:48 | 8.34 | 8.45 | 30.42 | 20.24 | 3.15 | 3 | 119 | 0.135 | S |
| B2 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 4.3 | 10:48 | 8.07 | 8.32 | 30.41 | 20.12 | 3.21 | 3 | 119 | 0.132 | S |
| B2 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:49 | 8.28 | 8.14 | 30.59 | 20.14 | 3.47 | 6 | 123 | 0.199 | S |
| B2 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:49 | 8.49 | 8.32 | 30.54 | 20.15 | 3.79 | 6 | 120 | 0.224 | S |
| B3 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 10:03 | 8.29 | 8.39 | 30.38 | 20.36 | 3.36 | 3 | 118 | 0.218 | SE |
| B3 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 10:03 | 8.61 | 8.1 | 30.59 | 20.11 | 3.26 | 3 | 118 | 0.198 | S |
| B3 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:04 | 8.18 | 8.2 | 30.48 | 20.25 | 3.73 | 4 | 120 | 0.156 | E |
| B3 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:04 | 8.48 | 8.44 | 30.45 | 20.32 | 3.79 | 4 | 120 | 0.219 | S |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B4 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 3.6 | 9:55 | 8.34 | 8.29 | 30.51 | 20.26 | 3.49 | 8 | 117 | 0.208 | SE |
| B4 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 3.6 | 9:55 | 8.26 | 8.08 | 30.55 | 20.24 | 3.07 | 8 | 117 | 0.168 | S |
| B4 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:56 | 8.38 | 8.13 | 30.69 | 20.18 | 3.56 | 4 | 116 | 0.2 | SE |
| B4 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:56 | 8.42 | 8.37 | 30.68 | 20.35 | 3.4 | 4 | 116 | 0.228 | SE |
| C1A | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 8.9 | 8:20 | 8.25 | 8.25 | 30.37 | 20.2 | 3.53 | 7 | 117 | 0.197 | E |
| C1A | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 8.9 | 8:20 | 8.28 | 8.12 | 30.56 | 20.34 | 3.35 | 8 | 118 | 0.173 | S |
| C1A | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4.95 | 8:21 | 8.34 | 8.12 | 30.55 | 20.38 | 3.67 | 8 | 117 | 0.16 | S |
| C1A | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4.95 | 8:21 | 8.53 | 8.32 | 30.64 | 20.16 | 3.2 | 8 | 118 | 0.25 | SE |
| C1A | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 8:22 | 8.5 | 8.18 | 30.4 | 20.16 | 3.59 | 9 | 118 | 0.142 | SE |
| C1A | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 8:22 | 8.42 | 8.09 | 30.69 | 20.11 | 3.52 | 9 | 118 | 0.133 | S |
| C2A | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 11.5 | 9:45 | 8.23 | 8.07 | 30.49 | 20.36 | 3.49 | 8 | 118 | 0.238 | S |
| C2A | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 11.5 | 9:45 | 8.54 | 8.54 | 30.65 | 20.37 | 3.54 | 8 | 119 | 0.142 | SE |
| C2A | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 6.25 | 9:46 | 8.05 | 8.07 | 30.44 | 20.26 | 3.57 | 8 | 119 | 0.218 | S |
| C2A | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 6.25 | 9:46 | 8.31 | 8.32 | 30.42 | 20.14 | 3.62 | 8 | 118 | 0.162 | SE |
| C2A | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:47 | 8.69 | 8.22 | 30.3 | 20.2 | 3.48 | 7 | 118 | 0.232 | S |
| C2A | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:47 | 8.39 | 8.14 | 30.47 | 20.16 | 3.62 | 8 | 118 | 0.149 | E |
| F1A | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 7 | 9:34 | 8.34 | 8.16 | 30.4 | 20.22 | 3.25 | 8 | 118 | 0.13 | SE |
| F1A | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 7 | 9:34 | 8.13 | 8.28 | 30.58 | 20.29 | 3.23 | 8 | 118 | 0.242 | S |
| F1A | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4 | 9:35 | 8.12 | 8.5 | 30.31 | 20.19 | 3.63 | 8 | 119 | 0.212 | S |
| F1A | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4 | 9:35 | 8.53 | 8.38 | 30.3 | 20.38 | 3.61 | 8 | 117 | 0.186 | SE |
| F1A | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:36 | 8.03 | 8.3 | 30.46 | 20.28 | 3.25 | 7 | 117 | 0.153 | SE |
| F1A | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:36 | 8.11 | 8.46 | 30.53 | 20.16 | 3.27 | 7 | 116 | 0.136 | SE |
| H1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 7.9 | 8:46 | 8.29 | 8.4 | 30.64 | 20.25 | 3.35 | 9 | 119 | 0.157 | SE |
| H1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 7.9 | 8:46 | 8.52 | 8.13 | 30.7 | 20.16 | 3.52 | 9 | 118 | 0.136 | S |
| H1 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4.45 | 8:47 | 8.04 | 8.35 | 30.67 | 20.12 | 3.26 | 8 | 117 | 0.142 | SE |
| H1 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4.45 | 8:47 | 8.13 | 8.47 | 30.62 | 20.3 | 3.64 | 8 | 119 | 0.248 | S |
| H1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 8:48 | 8.07 | 8.53 | 30.3 | 20.25 | 3.35 | 6 | 118 | 0.184 | S |
| H1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 8:48 | 8.18 | 8.34 | 30.33 | 20.21 | 3.69 | 6 | 118 | 0.198 | S |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| M1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 8 | 9:10 | 8.63 | 8.39 | 30.46 | 20.25 | 3.26 | 5 | 117 | 0.224 | SE |
| M1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 8 | 9:10 | 8.14 | 8.23 | 30.61 | 20.14 | 3.03 | 5 | 116 | 0.229 | E |
| M1 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4.5 | 9:11 | 8.15 | 8.3 | 30.56 | 20.36 | 3.34 | 7 | 119 | 0.17 | E |
| M1 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4.5 | 9:11 | 8.35 | 8.36 | 30.62 | 20.35 | 3.2 | 6 | 118 | 0.204 | SE |
| M1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:12 | 8.52 | 8.15 | 30.5 | 20.18 | 3.73 | 8 | 118 | 0.182 | SE |
| M1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:12 | 8.19 | 8.3 | 30.62 | 20.11 | 3.45 | 8 | 118 | 0.127 | SE |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 12.1 | 9:24 | 8.07 | 8.31 | 30.59 | 20.14 | 3.49 | 10 | 118 | 0.19 | SE |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 12.1 | 9:24 | 8.09 | 8.37 | 30.3 | 20.42 | 3.44 | 10 | 116 | 0.206 | SE |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 6.55 | 9:25 | 8.58 | 8.07 | 30.33 | 20.39 | 3.31 | 9 | 118 | 0.211 | S |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 6.55 | 9:25 | 8.31 | 8.5 | 30.57 | 20.38 | 3.46 | 9 | 118 | 0.166 | SE |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:26 | 8.49 | 8.13 | 30.56 | 20.39 | 3.78 | 8 | 117 | 0.17 | E |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:26 | 8.62 | 8.45 | 30.45 | 20.23 | 3.47 | 8 | 119 | 0.129 | SE |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 10.8 | 9:02 | 8.47 | 8.28 | 30.67 | 20.27 | 3.45 | 10 | 120 | 0.184 | SE |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 10.8 | 9:02 | 8.55 | 8.5 | 30.58 | 20.18 | 3.45 | 10 | 119 | 0.167 | S |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 5.9 | 9:03 | 8.03 | 8.28 | 30.64 | 20.31 | 3.47 | 8 | 119 | 0.21 | SE |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 5.9 | 9:03 | 8.63 | 8.14 | 30.42 | 20.29 | 3.17 | 8 | 120 | 0.181 | E |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:04 | 8.18 | 8.22 | 30.56 | 20.34 | 3.27 | 7 | 117 | 0.134 | SE |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:04 | 8.37 | 8.29 | 30.57 | 20.34 | 3.55 | 8 | 118 | 0.223 | E |
| S1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 4.3 | 10:40 | 8.03 | 8.26 | 30.33 | 20.21 | 3.37 | 8 | 119 | 0.249 | E |
| S1 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 4.3 | 10:40 | 8.55 | 8.33 | 30.36 | 20.25 | 3.04 | 8 | 117 | 0.126 | SE |
| S1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:41 | 8.63 | 8.45 | 30.35 | 20.11 | 3.56 | 7 | 115 | 0.178 | SE |
| S1 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:41 | 8.41 | 8.49 | 30.55 | 20.18 | 3.42 | 7 | 118 | 0.247 | S |
| S2A | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 8 | 10:17 | 8.31 | 8.09 | 30.46 | 20.15 | 3.22 | 7 | 117 | 0.141 | S |
| S2A | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 8 | 10:17 | 8.17 | 8.46 | 30.54 | 20.32 | 3.19 | 7 | 118 | 0.192 | SE |
| S2A | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4.5 | 10:18 | 8.19 | 8.13 | 30.46 | 20.12 | 3.21 | 8 | 118 | 0.247 | S |
| S2A | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 4.5 | 10:18 | 8.37 | 8.1 | 30.64 | 20.43 | 3.43 | 8 | 117 | 0.159 | E |
| S2A | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:19 | 8.22 | 8.24 | 30.69 | 20.4 | 3.39 | 8 | 118 | 0.205 | S |
| S2A | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:19 | 8.24 | 8.28 | 30.39 | 20.36 | 3.67 | 8 | 118 | 0.129 | E |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S3 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 9.2 | 9:11 | 8.39 | 8.39 | 30.35 | 20.27 | 3.48 | 8 | 117 | 0.17 | E |
| S3 | 20200406 | Cloudy | Moderate | Mid-Ebb | B | 9.2 | 9:11 | 8.24 | 8.22 | 30.39 | 20.33 | 3 | 8 | 117 | 0.177 | S |
| S3 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 5.1 | 9:12 | 8.4 | 8.35 | 30.66 | 20.41 | 3.16 | 7 | 117 | 0.186 | SE |
| S3 | 20200406 | Cloudy | Moderate | Mid-Ebb | M | 5.1 | 9:12 | 8.61 | 8.1 | 30.54 | 20.12 | 3.2 | 7 | 118 | 0.216 | SE |
| S3 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:13 | 8.03 | 8.33 | 30.47 | 20.43 | 3.27 | 6 | 117 | 0.167 | S |
| S3 | 20200406 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:13 | 8.24 | 8.34 | 30.44 | 20.23 | 3.65 | 6 | 118 | 0.15 | E |
| B1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 13:20 | 8.21 | 8.52 | 30.59 | 20.65 | 3.33 | 10 | 123 | 0.177 | W |
| B1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 13:20 | 8.14 | 8.05 | 30.34 | 20.64 | 3.25 | 10 | 123 | 0.2 | W |
| B1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:21 | 8.54 | 8.16 | 30.6 | 20.42 | 3.48 | 8 | 120 | 0.2 | W |
| B1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:21 | 8.06 | 8.33 | 30.56 | 20.39 | 3.42 | 8 | 120 | 0.239 | SW |
| B2 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 3.5 | 13:00 | 8.18 | 8.42 | 30.23 | 20.39 | 3.54 | 10 | 121 | 0.142 | W |
| B2 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 3.5 | 13:00 | 8.51 | 8.13 | 30.29 | 20.35 | 3.06 | 10 | 121 | 0.168 | SW |
| B2 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:01 | 8.22 | 8.29 | 30.67 | 20.29 | 3.33 | 9 | 122 | 0.149 | SW |
| B2 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:01 | 8.35 | 8.06 | 30.4 | 20.54 | 3.59 | 9 | 120 | 0.151 | NW |
| B3 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 13:47 | 8.59 | 8.05 | 30.21 | 20.47 | 3.47 | 11 | 123 | 0.16 | W |
| B3 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 13:47 | 8.49 | 8.31 | 30.85 | 20.39 | 2.98 | 11 | 123 | 0.211 | NW |
| B3 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:48 | 8.04 | 8.07 | 30.84 | 20.57 | 3.39 | 10 | 117 | 0.201 | SW |
| B3 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:48 | 7.98 | 8.19 | 30.4 | 20.34 | 3.43 | 10 | 120 | 0.227 | W |
| B4 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 4.5 | 13:56 | 8.5 | 8.41 | 30.75 | 20.32 | 3.04 | 10 | 121 | 0.209 | W |
| B4 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 4.5 | 13:56 | 8.53 | 8.16 | 30.48 | 20.22 | 3 | 11 | 120 | 0.216 | SW |
| B4 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:57 | 8.44 | 8.39 | 30.63 | 20.55 | 3.57 | 9 | 123 | 0.188 | W |
| B4 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:57 | 8.12 | 8.51 | 30.3 | 20.44 | 3.74 | 9 | 120 | 0.181 | W |
| C1A | 20200406 | Cloudy | Moderate | Mid-Flood | B | 9.9 | 14:04 | 8.15 | 8.17 | 30.84 | 20.42 | 3.38 | 9 | 120 | 0.173 | SW |
| C1A | 20200406 | Cloudy | Moderate | Mid-Flood | B | 9.9 | 14:04 | 8.12 | 8.09 | 30.78 | 20.37 | 3.27 | 9 | 122 | 0.186 | SW |
| C1A | 20200406 | Cloudy | Moderate | Mid-Flood | M | 5.45 | 14:05 | 8.19 | 8.33 | 30.45 | 20.52 | 3.28 | 9 | 121 | 0.224 | SW |
| C1A | 20200406 | Cloudy | Moderate | Mid-Flood | M | 5.45 | 14:05 | 8.57 | 8.35 | 30.84 | 20.44 | 3.4 | 9 | 123 | 0.221 | W |
| C1A | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:06 | 8.07 | 8.41 | 30.72 | 20.26 | 3.63 | 8 | 120 | 0.142 | SW |
| C1A | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:06 | 7.97 | 8.37 | 30.66 | 20.53 | 3.89 | 8 | 121 | 0.217 | W |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C2A | 20200406 | Cloudy | Moderate | Mid-Flood | B | 11 | 12:57 | 8.28 | 8.28 | 30.29 | 20.64 | 3.51 | 9 | 121 | 0.196 | W |
| C2A | 20200406 | Cloudy | Moderate | Mid-Flood | B | 11 | 12:57 | 8.05 | 8.3 | 30.44 | 20.65 | 3.37 | 9 | 122 | 0.237 | W |
| C2A | 20200406 | Cloudy | Moderate | Mid-Flood | M | 6 | 12:58 | 8.58 | 8.31 | 30.74 | 20.29 | 3.65 | 8 | 122 | 0.195 | NW |
| C2A | 20200406 | Cloudy | Moderate | Mid-Flood | M | 6 | 12:58 | 8.23 | 8.09 | 30.33 | 20.38 | 3.35 | 8 | 122 | 0.238 | SW |
| C2A | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:59 | 8.19 | 8.53 | 30.8 | 20.36 | 3.44 | 7 | 121 | 0.177 | SW |
| C2A | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:59 | 8.06 | 8.49 | 30.81 | 20.64 | 3.75 | 7 | 122 | 0.161 | W |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 11.3 | 13:20 | 8.33 | 8.21 | 30.33 | 20.49 | 3.32 | 7 | 118 | 0.193 | W |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 11.3 | 13:20 | 8 | 8.47 | 30.74 | 20.47 | 3.53 | 7 | 121 | 0.154 | W |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 6.15 | 13:21 | 8.56 | 8.16 | 30.83 | 20.53 | 3.22 | 7 | 118 | 0.22 | SW |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 6.15 | 13:21 | 8.35 | 8.41 | 30.47 | 20.47 | 3.44 | 7 | 119 | 0.228 | W |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:22 | 7.97 | 8.1 | 30.28 | 20.46 | 3.48 | 6 | 119 | 0.146 | W |
| CR1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:22 | 8.22 | 8.17 | 30.81 | 20.3 | 3.52 | 6 | 118 | 0.171 | SW |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 9.9 | 13:35 | 8.19 | 8.13 | 30.48 | 20.43 | 3.48 | 3 | 120 | 0.199 | W |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 9.9 | 13:35 | 8.53 | 8.13 | 30.32 | 20.57 | 3.21 | 3 | 122 | 0.182 | SW |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 5.45 | 13:36 | 8.41 | 8.42 | 30.24 | 20.65 | 3.31 | 6 | 120 | 0.188 | W |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 5.45 | 13:36 | 8.5 | 8.15 | 30.66 | 20.43 | 3.58 | 6 | 120 | 0.171 | SW |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:37 | 8 | 8.43 | 30.42 | 20.37 | 3.66 | 8 | 120 | 0.182 | W |
| CR2 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:37 | 8.59 | 8.17 | 30.42 | 20.56 | 3.54 | 8 | 119 | 0.162 | SW |
| F1A | 20200406 | Cloudy | Moderate | Mid-Flood | B | 7.3 | 14:19 | 8.38 | 8.18 | 30.67 | 20.45 | 3.05 | 7 | 123 | 0.228 | W |
| F1A | 20200406 | Cloudy | Moderate | Mid-Flood | B | 7.3 | 14:19 | 8.39 | 8.4 | 30.38 | 20.49 | 3.18 | 7 | 122 | 0.144 | W |
| F1A | 20200406 | Cloudy | Moderate | Mid-Flood | M | 4.15 | 14:20 | 8.61 | 8.56 | 30.67 | 20.38 | 3.45 | 7 | 122 | 0.145 | W |
| F1A | 20200406 | Cloudy | Moderate | Mid-Flood | M | 4.15 | 14:20 | 8.04 | 8.47 | 30.43 | 20.47 | 3.51 | 7 | 121 | 0.211 | W |
| F1A | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:21 | 8.29 | 8.09 | 30.8 | 20.3 | 3.67 | 8 | 124 | 0.204 | SW |
| F1A | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:21 | 8.27 | 8.32 | 30.53 | 20.21 | 3.63 | 8 | 122 | 0.165 | W |
| H1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 6.8 | 14:27 | 8.55 | 8.23 | 30.55 | 20.47 | 3.46 | 9 | 123 | 0.177 | W |
| H1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 6.8 | 14:27 | 8.15 | 8.22 | 30.76 | 20.48 | 3.16 | 9 | 123 | 0.147 | W |
| H1 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 3.9 | 14:28 | 8.34 | 8.23 | 30.21 | 20.28 | 3.29 | 10 | 122 | 0.238 | SW |
| H1 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 3.9 | 14:28 | 8.03 | 8.39 | 30.36 | 20.58 | 3.35 | 10 | 121 | 0.223 | W |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| H1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:29 | 8.5 | 8.37 | 30.66 | 20.37 | 3.42 | 11 | 122 | 0.19 | NW |
| H1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:29 | 8.61 | 8.16 | 30.82 | 20.47 | 3.87 | 11 | 124 | 0.185 | SW |
| M1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 7.6 | 14:41 | 8.01 | 8.26 | 30.63 | 20.25 | 3.42 | 7 | 118 | 0.152 | W |
| M1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 7.6 | 14:41 | 8.02 | 8.14 | 30.58 | 20.24 | 3.09 | 7 | 121 | 0.148 | NW |
| M1 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 4.3 | 14:42 | 8.59 | 8.59 | 30.35 | 20.57 | 3.57 | 5 | 121 | 0.187 | W |
| M1 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 4.3 | 14:42 | 8.45 | 8.13 | 30.78 | 20.41 | 3.58 | 5 | 123 | 0.206 | NW |
| M1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:43 | 8.45 | 8.21 | 30.65 | 20.42 | 3.53 | 3 | 122 | 0.144 | W |
| M1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:43 | 8.09 | 8.49 | 30.4 | 20.38 | 3.54 | 3 | 122 | 0.209 | SW |
| S1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 13:10 | 8.46 | 8.51 | 30.83 | 20.39 | 3.35 | 8 | 121 | 0.152 | W |
| S1 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 13:10 | 8.42 | 8.05 | 30.64 | 20.48 | 3.04 | 8 | 123 | 0.232 | W |
| S1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:11 | 8.2 | 8.52 | 30.43 | 20.41 | 3.68 | 7 | 123 | 0.161 | W |
| S1 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:11 | 8.6 | 8.5 | 30.39 | 20.64 | 3.85 | 7 | 122 | 0.219 | SW |
| S2A | 20200406 | Cloudy | Moderate | Mid-Flood | B | 8.4 | 13:33 | 8.34 | 8.26 | 30.34 | 20.4 | 3.17 | 6 | 120 | 0.225 | W |
| S2A | 20200406 | Cloudy | Moderate | Mid-Flood | B | 8.4 | 13:33 | 8.26 | 8.16 | 30.53 | 20.5 | 3.27 | 6 | 122 | 0.215 | SW |
| S2A | 20200406 | Cloudy | Moderate | Mid-Flood | M | 4.7 | 13:34 | 8.31 | 8.24 | 30.38 | 20.61 | 3.59 | 7 | 123 | 0.24 | W |
| S2A | 20200406 | Cloudy | Moderate | Mid-Flood | M | 4.7 | 13:34 | 8.48 | 8.22 | 30.74 | 20.57 | 3.66 | 7 | 121 | 0.189 | NW |
| S2A | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:35 | 8.16 | 8.21 | 30.52 | 20.38 | 3.43 | 7 | 122 | 0.221 | NW |
| S2A | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:35 | 7.99 | 8.28 | 30.79 | 20.4 | 3.4 | 7 | 122 | 0.204 | W |
| S3 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 9.8 | 13:44 | 8.34 | 8.34 | 30.83 | 20.32 | 3.36 | 6 | 122 | 0.219 | SW |
| S3 | 20200406 | Cloudy | Moderate | Mid-Flood | B | 9.8 | 13:44 | 8.49 | 8.47 | 30.8 | 20.26 | 3.53 | 6 | 121 | 0.217 | SW |
| S3 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 5.4 | 13:45 | 8.45 | 8.59 | 30.64 | 20.52 | 3.66 | 6 | 123 | 0.223 | W |
| S3 | 20200406 | Cloudy | Moderate | Mid-Flood | M | 5.4 | 13:45 | 8.56 | 8.31 | 30.63 | 20.41 | 3.24 | 6 | 123 | 0.166 | W |
| S3 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:46 | 8.58 | 8.15 | 30.57 | 20.52 | 3.36 | 7 | 120 | 0.239 | NW |
| S3 | 20200406 | Cloudy | Moderate | Mid-Flood | S | 1 | 13:46 | 8.59 | 8.1 | 30.35 | 20.51 | 3.85 | 8 | 122 | 0.16 | W |
| B1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 3.7 | 12:44 | 8.19 | 8.3 | 30.27 | 21.2 | 2.44 | 4 | 119 | 0.227 | SE |
| B1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 3.7 | 12:44 | 8.24 | 8.52 | 30.29 | 21.26 | 2.8 | 5 | 120 | 0.178 | S |
| B1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:45 | 8.26 | 8.42 | 30.15 | 21.3 | 2.73 | 8 | 122 | 0.212 | SE |
| B1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:45 | 8.11 | 8.55 | 30.23 | 21.21 | 2.7 | 7 | 120 | 0.228 | SE |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B2 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 4.4 | 13:01 | 8.41 | 8.48 | 30.67 | 21.46 | 2.61 | 6 | 118 | 0.204 | SE |
| B2 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 4.4 | 13:01 | 8.06 | 8.42 | 30.46 | 21.24 | 2.96 | 5 | 121 | 0.242 | S |
| B2 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:02 | 7.92 | 8.43 | 30.66 | 21.27 | 3.02 | 4 | 122 | 0.189 | S |
| B2 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:02 | 8.11 | 8.44 | 30.25 | 21.41 | 3.16 | 4 | 121 | 0.212 | SE |
| B3 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 3.5 | 12:11 | 7.94 | 8.25 | 30.38 | 21.22 | 2.74 | 6 | 123 | 0.2 | SE |
| B3 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 3.5 | 12:11 | 8.47 | 8.61 | 30.51 | 21.44 | 2.8 | 5 | 122 | 0.238 | E |
| B3 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:12 | 8.19 | 8.63 | 30.35 | 21.32 | 2.9 | 4 | 123 | 0.189 | SE |
| B3 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:12 | 8.24 | 8.37 | 30.25 | 21.46 | 3.1 | 4 | 123 | 0.202 | S |
| B4 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 12:03 | 7.9 | 8.61 | 30.44 | 21.38 | 2.89 | 7 | 123 | 0.217 | SE |
| B4 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 12:03 | 8.12 | 8.47 | 30.33 | 21.4 | 2.81 | 8 | 122 | 0.186 | SE |
| B4 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:04 | 8.09 | 8.35 | 30.14 | 21.33 | 3.21 | 5 | 123 | 0.181 | S |
| B4 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:04 | 8.58 | 8.22 | 30.23 | 21.25 | 2.98 | 6 | 123 | 0.199 | SE |
| C1A | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 9.9 | 10:46 | 8.12 | 8.29 | 30.36 | 21.28 | 2.87 | 4 | 122 | 0.215 | E |
| C1A | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 9.9 | 10:46 | 8.34 | 8.26 | 30.42 | 21.19 | 2.64 | 4 | 123 | 0.227 | SE |
| C1A | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 5.45 | 10:47 | 7.96 | 8.56 | 30.63 | 21.28 | 3.06 | 5 | 122 | 0.182 | SE |
| C1A | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 5.45 | 10:47 | 8.48 | 8.37 | 30.3 | 21.19 | 2.94 | 6 | 122 | 0.197 | S |
| C1A | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:48 | 8.15 | 8.27 | 30.33 | 21.1 | 2.7 | 7 | 123 | 0.214 | SE |
| C1A | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:48 | 7.96 | 8.28 | 30.4 | 21.11 | 2.7 | 5 | 122 | 0.219 | S |
| C2A | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 10.3 | 12:12 | 8.24 | 8.3 | 30.33 | 21.16 | 2.44 | 5 | 122 | 0.176 | SE |
| C2A | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 10.3 | 12:12 | 8.47 | 8.45 | 30.35 | 21.44 | 2.73 | 4 | 122 | 0.241 | SE |
| C2A | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 5.65 | 12:13 | 8.38 | 8.62 | 30.35 | 21.2 | 2.77 | 5 | 122 | 0.177 | SE |
| C2A | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 5.65 | 12:13 | 7.85 | 8.2 | 30.17 | 21.37 | 2.66 | 4 | 122 | 0.186 | E |
| C2A | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:14 | 7.83 | 8.2 | 30.35 | 21.25 | 2.7 | 6 | 122 | 0.237 | SE |
| C2A | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:14 | 8.29 | 8.59 | 30.61 | 21.3 | 2.98 | 4 | 122 | 0.222 | SE |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 12.1 | 11:51 | 7.99 | 8.51 | 30.51 | 21.32 | 2.82 | 4 | 123 | 0.231 | SE |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 12.1 | 11:51 | 8.1 | 8.44 | 30.25 | 21.39 | 2.67 | 4 | 123 | 0.245 | E |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 6.55 | 11:52 | 8.37 | 8.62 | 30.35 | 21.19 | 3.08 | 4 | 122 | 0.226 | S |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 6.55 | 11:52 | 8.43 | 8.2 | 30.52 | 21.21 | 2.93 | 4 | 122 | 0.218 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:53 | 8.43 | 8.24 | 30.16 | 21.18 | 2.75 | 5 | 122 | 0.177 | SE |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:53 | 8.15 | 8.28 | 30.41 | 21.46 | 2.77 | 4 | 122 | 0.176 | S |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 9.8 | 11:30 | 8 | 8.36 | 30.1 | 21.33 | 2.58 | 4 | 121 | 0.215 | SE |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 9.8 | 11:30 | 8.3 | 8.39 | 30.56 | 21.36 | 3.02 | 4 | 122 | 0.202 | E |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 5.4 | 11:31 | 7.86 | 8.33 | 30.35 | 21.31 | 2.96 | 5 | 124 | 0.178 | SE |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 5.4 | 11:31 | 8.53 | 8.46 | 30.13 | 21.36 | 3.03 | 5 | 122 | 0.241 | SE |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:32 | 8.24 | 8.28 | 30.66 | 21.4 | 3.15 | 5 | 123 | 0.216 | SE |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:32 | 8.11 | 8.28 | 30.21 | 21.31 | 2.75 | 5 | 122 | 0.186 | SE |
| F1A | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 7.6 | 11:42 | 8.53 | 8.44 | 30.25 | 21.23 | 2.77 | 5 | 123 | 0.246 | S |
| F1A | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 7.6 | 11:42 | 8.41 | 8.18 | 30.12 | 21.29 | 2.63 | 4 | 122 | 0.211 | SE |
| F1A | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 4.3 | 11:43 | 7.96 | 8.47 | 30.65 | 21.21 | 3.11 | 5 | 122 | 0.25 | SE |
| F1A | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 4.3 | 11:43 | 8.36 | 8.2 | 30.1 | 21.33 | 2.74 | 5 | 123 | 0.213 | S |
| F1A | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:44 | 8.37 | 8.43 | 30.65 | 21.41 | 2.75 | 5 | 123 | 0.186 | S |
| F1A | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:44 | 8.38 | 8.53 | 30.13 | 21.21 | 2.71 | 5 | 123 | 0.244 | S |
| H1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 7.7 | 11:12 | 8.32 | 8.21 | 30.69 | 21.28 | 3.01 | 6 | 122 | 0.239 | SE |
| H1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 7.7 | 11:12 | 8.04 | 8.22 | 30.57 | 21.28 | 2.48 | 6 | 123 | 0.23 | S |
| H1 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 4.35 | 11:13 | 8.32 | 8.2 | 30.15 | 21.17 | 2.89 | 5 | 123 | 0.243 | E |
| H1 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 4.35 | 11:13 | 8.01 | 8.54 | 30.38 | 21.2 | 2.98 | 7 | 122 | 0.185 | S |
| H1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:14 | 8.13 | 8.49 | 30.26 | 21.29 | 2.92 | 6 | 122 | 0.217 | E |
| H1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:14 | 8.1 | 8.4 | 30.3 | 21.3 | 2.74 | 6 | 123 | 0.195 | SE |
| M1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 11:18 | 8.21 | 8.18 | 30.16 | 21.24 | 2.82 | 5 | 122 | 0.184 | SE |
| M1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 11:18 | 8.34 | 8.61 | 30.3 | 21.23 | 2.5 | 4 | 123 | 0.229 | SE |
| M1 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 11:19 | 8.19 | 8.24 | 30.38 | 21.27 | 2.76 | 3 | 124 | 0.19 | S |
| M1 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 11:19 | 8.53 | 8.52 | 30.61 | 21.3 | 2.92 | 4 | 123 | 0.229 | SE |
| M1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:20 | 8.5 | 8.25 | 30.22 | 21.27 | 3.26 | 4 | 123 | 0.228 | E |
| M1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:20 | 7.98 | 8.2 | 30.33 | 21.28 | 3.24 | 3 | 122 | 0.18 | SE |
| S1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 4.2 | 12:52 | 7.84 | 8.61 | 30.47 | 21.2 | 2.54 | 6 | 123 | 0.19 | S |
| S1 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 4.2 | 12:52 | 8.02 | 8.51 | 30.22 | 21.37 | 2.73 | 7 | 123 | 0.197 | E |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:53 | 8.24 | 8.33 | 30.23 | 21.23 | 3.04 | 6 | 123 | 0.206 | SE |
| S1 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:53 | 8.08 | 8.24 | 30.35 | 21.23 | 2.93 | 6 | 123 | 0.184 | SE |
| S2A | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 7.9 | 12:30 | 7.88 | 8.41 | 30.64 | 21.21 | 2.63 | 6 | 122 | 0.195 | S |
| S2A | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 7.9 | 12:30 | 7.83 | 8.58 | 30.58 | 21.19 | 2.44 | 6 | 123 | 0.188 | SE |
| S2A | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 4.45 | 12:31 | 8.14 | 8.29 | 30.41 | 21.19 | 2.89 | 6 | 123 | 0.228 | E |
| S2A | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 4.45 | 12:31 | 8.32 | 8.22 | 30.13 | 21.53 | 3.03 | 6 | 123 | 0.202 | E |
| S2A | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:32 | 8.02 | 8.21 | 30.44 | 21.35 | 2.69 | 7 | 123 | 0.199 | SE |
| S2A | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:32 | 8.33 | 8.38 | 30.63 | 21.45 | 2.99 | 6 | 122 | 0.245 | S |
| S3 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 9.8 | 11:40 | 7.85 | 8.24 | 30.38 | 21.36 | 2.44 | 4 | 123 | 0.225 | S |
| S3 | 20200408 | Cloudy | Moderate | Mid-Ebb | B | 9.8 | 11:40 | 8.46 | 8.33 | 30.52 | 21.41 | 2.99 | 4 | 122 | 0.233 | SE |
| S3 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 5.4 | 11:41 | 8.03 | 8.2 | 30.46 | 21.28 | 2.85 | 5 | 123 | 0.221 | S |
| S3 | 20200408 | Cloudy | Moderate | Mid-Ebb | M | 5.4 | 11:41 | 8.09 | 8.46 | 30.45 | 21.23 | 3.06 | 5 | 123 | 0.216 | S |
| S3 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:42 | 8.03 | 8.2 | 30.7 | 21.16 | 3.24 | 5 | 122 | 0.213 | S |
| S3 | 20200408 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:42 | 8.45 | 8.39 | 30.42 | 21.38 | 2.71 | 6 | 120 | 0.205 | S |
| B1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 4.1 | 16:17 | 8.43 | 8.44 | 30.39 | 21.38 | 2.88 | 6 | 122 | 0.242 | W |
| B1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 4.1 | 16:17 | 8.41 | 8.57 | 30.25 | 21.05 | 2.45 | 7 | 121 | 0.159 | W |
| B1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:18 | 8.1 | 8.3 | 30.84 | 21.18 | 3.12 | 4 | 118 | 0.226 | W |
| B1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:18 | 8.14 | 8.36 | 30.68 | 21.14 | 2.7 | 4 | 119 | 0.238 | W |
| B2 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:43 | 8.72 | 8.49 | 30.25 | 21.11 | 2.4 | 7 | 120 | 0.183 | W |
| B2 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:43 | 8.14 | 8.32 | 30.59 | 21.13 | 2.79 | 6 | 118 | 0.209 | W |
| B2 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:44 | 8.05 | 8.52 | 30.77 | 21.15 | 2.89 | 8 | 121 | 0.241 | SW |
| B2 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:44 | 8.43 | 8.15 | 30.7 | 21.22 | 2.88 | 8 | 121 | 0.192 | W |
| B3 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 3.8 | 16:18 | 8.34 | 8.22 | 30.79 | 21.4 | 2.44 | 5 | 120 | 0.248 | NW |
| B3 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 3.8 | 16:18 | 8.83 | 8.36 | 30.39 | 21.4 | 2.68 | 4 | 120 | 0.252 | SW |
| B3 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:19 | 8.83 | 8.57 | 30.48 | 21.16 | 2.69 | 5 | 121 | 0.198 | W |
| B3 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:19 | 8.52 | 8.49 | 30.49 | 21.09 | 2.86 | 4 | 120 | 0.201 | SW |
| B4 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:27 | 8.85 | 8.54 | 30.68 | 21.06 | 2.84 | 4 | 118 | 0.149 | W |
| B4 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:27 | 8.61 | 8.4 | 30.8 | 21.27 | 2.87 | 4 | 120 | 0.173 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B4 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:28 | 8.74 | 8.31 | 30.63 | 21.22 | 3.02 | 4 | 121 | 0.145 | NW |
| B4 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:28 | 8.53 | 8.27 | 30.36 | 21.28 | 3.06 | 3 | 119 | 0.223 | W |
| C1A | 20200408 | Cloudy | Moderate | Mid-Flood | B | 10.6 | 15:48 | 8.45 | 8.29 | 30.76 | 21.16 | 2.68 | 3 | 122 | 0.22 | W |
| C1A | 20200408 | Cloudy | Moderate | Mid-Flood | B | 10.6 | 15:48 | 8.9 | 8.36 | 30.29 | 21.28 | 2.76 | 4 | 122 | 0.236 | W |
| C1A | 20200408 | Cloudy | Moderate | Mid-Flood | M | 5.8 | 15:49 | 8.39 | 8.55 | 30.31 | 21.53 | 3.01 | 5 | 121 | 0.182 | W |
| C1A | 20200408 | Cloudy | Moderate | Mid-Flood | M | 5.8 | 15:49 | 8.24 | 8.19 | 30.8 | 21.55 | 2.66 | 4 | 118 | 0.247 | W |
| C1A | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:50 | 8.6 | 8.37 | 30.39 | 21.56 | 2.97 | 4 | 121 | 0.212 | W |
| C1A | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:50 | 8.69 | 8.23 | 30.32 | 21.41 | 2.9 | 4 | 121 | 0.213 | NW |
| C2A | 20200408 | Cloudy | Moderate | Mid-Flood | B | 10.5 | 15:48 | 8.23 | 8.31 | 30.4 | 21.21 | 2.37 | 4 | 120 | 0.221 | SW |
| C2A | 20200408 | Cloudy | Moderate | Mid-Flood | B | 10.5 | 15:48 | 8.27 | 8.45 | 30.37 | 21.45 | 2.67 | 4 | 121 | 0.177 | W |
| C2A | 20200408 | Cloudy | Moderate | Mid-Flood | M | 5.75 | 15:49 | 8.58 | 8.44 | 30.63 | 21.46 | 2.72 | 3 | 121 | 0.166 | SW |
| C2A | 20200408 | Cloudy | Moderate | Mid-Flood | M | 5.75 | 15:49 | 8.88 | 8.53 | 30.52 | 21.28 | 3.11 | 4 | 121 | 0.215 | W |
| C2A | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:50 | 8.12 | 8.59 | 30.56 | 21.26 | 2.88 | 4 | 122 | 0.184 | W |
| C2A | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:50 | 8.69 | 8.54 | 30.53 | 21.44 | 2.79 | 5 | 119 | 0.159 | W |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 11.3 | 17:55 | 8.8 | 8.22 | 30.71 | 21.24 | 2.83 | 4 | 121 | 0.215 | NW |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 11.3 | 17:55 | 8.21 | 8.16 | 30.75 | 21.06 | 2.49 | 5 | 120 | 0.209 | SW |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 6.15 | 17:56 | 8.13 | 8.53 | 30.25 | 21.06 | 2.72 | 4 | 123 | 0.187 | SW |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 6.15 | 17:56 | 8.71 | 8.56 | 30.7 | 21.22 | 2.55 | 4 | 121 | 0.223 | W |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:57 | 8.13 | 8.21 | 30.35 | 21.26 | 3.01 | 5 | 121 | 0.179 | W |
| CR1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:57 | 8.41 | 8.21 | 30.71 | 21.22 | 2.83 | 6 | 119 | 0.161 | W |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 10.2 | 17:31 | 8.67 | 8.35 | 30.53 | 21.41 | 2.32 | 5 | 121 | 0.246 | W |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 10.2 | 17:31 | 8.64 | 8.55 | 30.35 | 21.13 | 2.48 | 4 | 120 | 0.154 | W |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 5.6 | 17:32 | 8.21 | 8.3 | 30.82 | 21.1 | 3.11 | 4 | 120 | 0.202 | W |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 5.6 | 17:32 | 8.31 | 8.5 | 30.26 | 21.13 | 2.83 | 5 | 120 | 0.144 | SW |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:33 | 8.19 | 8.28 | 30.76 | 21.35 | 3.06 | 5 | 116 | 0.221 | SW |
| CR2 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:33 | 8.26 | 8.59 | 30.71 | 21.41 | 3.04 | 5 | 118 | 0.248 | NW |
| F1A | 20200408 | Cloudy | Moderate | Mid-Flood | B | 6.9 | 16:52 | 8.59 | 8.48 | 30.3 | 21.13 | 2.65 | 8 | 121 | 0.167 | W |
| F1A | 20200408 | Cloudy | Moderate | Mid-Flood | B | 6.9 | 16:52 | 8.58 | 8.47 | 30.83 | 21.32 | 2.61 | 9 | 119 | 0.184 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| F1A | 20200408 | Cloudy | Moderate | Mid-Flood | M | 3.95 | 16:53 | 8.77 | 8.46 | 30.28 | 21.07 | 2.56 | 7 | 120 | 0.205 | SW |
| F1A | 20200408 | Cloudy | Moderate | Mid-Flood | M | 3.95 | 16:53 | 8.05 | 8.6 | 30.22 | 21.33 | 3.11 | 8 | 120 | 0.233 | NW |
| F1A | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:54 | 8.5 | 8.23 | 30.33 | 21.2 | 3.12 | 8 | 122 | 0.148 | W |
| F1A | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:54 | 8.7 | 8.58 | 30.51 | 21.46 | 3.21 | 7 | 120 | 0.185 | W |
| H1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 6.8 | 16:03 | 8.18 | 8.58 | 30.4 | 21.12 | 2.66 | 6 | 119 | 0.206 | NW |
| H1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 6.8 | 16:03 | 8.61 | 8.41 | 30.69 | 21.38 | 2.54 | 7 | 120 | 0.208 | W |
| H1 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 3.9 | 16:04 | 8.31 | 8.38 | 30.43 | 21.14 | 2.91 | 5 | 120 | 0.144 | W |
| H1 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 3.9 | 16:04 | 8.22 | 8.42 | 30.64 | 21.18 | 2.7 | 4 | 119 | 0.19 | SW |
| H1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:05 | 8.48 | 8.35 | 30.6 | 21.39 | 2.7 | 4 | 121 | 0.247 | W |
| H1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:05 | 8.41 | 8.43 | 30.56 | 21.14 | 2.85 | 4 | 121 | 0.173 | W |
| M1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 7.1 | 17:13 | 8.08 | 8.58 | 30.42 | 21.18 | 2.55 | 5 | 121 | 0.17 | W |
| M1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 7.1 | 17:13 | 8.56 | 8.42 | 30.24 | 21.07 | 2.74 | 4 | 122 | 0.166 | NW |
| M1 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 4.05 | 17:14 | 8.84 | 8.49 | 30.71 | 21.35 | 2.75 | 5 | 122 | 0.173 | W |
| M1 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 4.05 | 17:14 | 8.36 | 8.37 | 30.66 | 21.14 | 2.76 | 4 | 119 | 0.175 | NW |
| M1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:15 | 8.23 | 8.42 | 30.81 | 21.33 | 2.7 | 7 | 120 | 0.155 | NW |
| M1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:15 | 8.36 | 8.22 | 30.58 | 21.37 | 3.24 | 6 | 122 | 0.252 | W |
| S1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 4.5 | 16:34 | 8.65 | 8.39 | 30.85 | 21.1 | 2.38 | 11 | 119 | 0.212 | W |
| S1 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 4.5 | 16:34 | 8.87 | 8.3 | 30.48 | 21.21 | 2.44 | 8 | 120 | 0.153 | W |
| S1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:35 | 8.67 | 8.44 | 30.42 | 21.34 | 3.01 | 9 | 120 | 0.244 | W |
| S1 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:35 | 8.59 | 8.4 | 30.71 | 21.23 | 2.9 | 8 | 119 | 0.227 | W |
| S2A | 20200408 | Cloudy | Moderate | Mid-Flood | B | 8.2 | 17:05 | 8.76 | 8.47 | 30.32 | 21.02 | 2.79 | 9 | 121 | 0.222 | W |
| S2A | 20200408 | Cloudy | Moderate | Mid-Flood | B | 8.2 | 17:05 | 8.47 | 8.57 | 30.55 | 21.24 | 2.61 | 8 | 118 | 0.158 | NW |
| S2A | 20200408 | Cloudy | Moderate | Mid-Flood | M | 4.6 | 17:06 | 8.43 | 8.58 | 30.25 | 21.36 | 2.82 | 9 | 119 | 0.245 | W |
| S2A | 20200408 | Cloudy | Moderate | Mid-Flood | M | 4.6 | 17:06 | 8.51 | 8.47 | 30.7 | 21.19 | 2.96 | 8 | 121 | 0.191 | SW |
| S2A | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:07 | 8.39 | 8.33 | 30.68 | 21.11 | 2.87 | 8 | 121 | 0.176 | NW |
| S2A | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:07 | 8.58 | 8.5 | 30.55 | 21.01 | 2.85 | 7 | 119 | 0.174 | NW |
| S3 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 8.5 | 17:40 | 8.53 | 8.32 | 30.45 | 21.2 | 2.82 | 6 | 121 | 0.202 | NW |
| S3 | 20200408 | Cloudy | Moderate | Mid-Flood | B | 8.5 | 17:40 | 8.65 | 8.51 | 30.27 | 21.13 | 2.71 | 4 | 119 | 0.203 | SW |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S3 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 4.75 | 17:41 | 8.34 | 8.26 | 30.43 | 21.01 | 2.96 | 7 | 121 | 0.248 | NW |
| S3 | 20200408 | Cloudy | Moderate | Mid-Flood | M | 4.75 | 17:41 | 8.79 | 8.27 | 30.5 | 21.01 | 3.01 | 8 | 121 | 0.252 | SW |
| S3 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:42 | 8.35 | 8.36 | 30.8 | 21.24 | 2.98 | 10 | 119 | 0.181 | SW |
| S3 | 20200408 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:42 | 8.77 | 8.59 | 30.7 | 21.23 | 2.92 | 7 | 121 | 0.247 | W |
| B1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 3.9 | 9:36 | 8.58 | 8.5 | 31.61 | 21.47 | 2.38 | 6 | 117 | 0.141 | SW |
| B1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 3.9 | 9:36 | 8.14 | 8.41 | 31.4 | 21.77 | 2.8 | 7 | 116 | 0.189 | W |
| B1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:37 | 8.22 | 8.55 | 30.99 | 21.4 | 2.69 | 5 | 118 | 0.099 | SW |
| B1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:37 | 8.2 | 8.28 | 30.87 | 21.32 | 2.77 | 5 | 115 | 0.182 | W |
| B2 | 20200410 | Sunny | Moderate | Mid-Flood | B | 3.6 | 9:54 | 8.56 | 8.39 | 30.94 | 21.39 | 2.67 | 4 | 117 | 0.126 | W |
| B2 | 20200410 | Sunny | Moderate | Mid-Flood | B | 3.6 | 9:54 | 8.21 | 8.42 | 31.63 | 21.6 | 2.34 | 5 | 120 | 0.129 | W |
| B2 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:55 | 8.03 | 8.48 | 31.3 | 21.74 | 3.15 | 4 | 118 | 0.178 | W |
| B2 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:55 | 8.16 | 8.67 | 30.91 | 21.31 | 3.24 | 4 | 119 | 0.149 | NW |
| B3 | 20200410 | Sunny | Moderate | Mid-Flood | B | 3.7 | 9:08 | 7.93 | 8.23 | 30.91 | 21.2 | 2.91 | 7 | 119 | 0.191 | NW |
| B3 | 20200410 | Sunny | Moderate | Mid-Flood | B | 3.7 | 9:08 | 7.89 | 8.69 | 30.88 | 21.21 | 2.65 | 7 | 116 | 0.151 | W |
| B3 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:09 | 8.54 | 8.54 | 31.65 | 21.56 | 2.77 | 4 | 120 | 0.106 | SW |
| B3 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:09 | 8.12 | 8.63 | 31.38 | 21.34 | 2.92 | 4 | 119 | 0.169 | SW |
| B4 | 20200410 | Sunny | Moderate | Mid-Flood | B | 4.4 | 9:01 | 8.38 | 8.35 | 31.08 | 21.7 | 2.65 | 5 | 118 | 0.187 | SW |
| B4 | 20200410 | Sunny | Moderate | Mid-Flood | B | 4.4 | 9:01 | 8.4 | 8.58 | 31.43 | 21.57 | 2.46 | 5 | 116 | 0.123 | W |
| B4 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:02 | 8.36 | 8.41 | 31.18 | 21.26 | 2.79 | 5 | 118 | 0.171 | SW |
| B4 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:02 | 8.24 | 8.5 | 30.81 | 21.71 | 3.19 | 4 | 120 | 0.175 | W |
| C1A | 20200410 | Sunny | Moderate | Mid-Flood | B | 10.3 | 9:01 | 7.94 | 8.36 | 30.85 | 21.58 | 2.61 | 5 | 118 | 0.138 | NW |
| C1A | 20200410 | Sunny | Moderate | Mid-Flood | B | 10.3 | 9:01 | 8.14 | 8.32 | 30.88 | 21.47 | 2.44 | 5 | 121 | 0.191 | W |
| C1A | 20200410 | Sunny | Moderate | Mid-Flood | M | 5.65 | 9:02 | 8.39 | 8.27 | 31.44 | 21.2 | 2.92 | 4 | 115 | 0.114 | W |
| C1A | 20200410 | Sunny | Moderate | Mid-Flood | M | 5.65 | 9:02 | 8.38 | 8.55 | 31.57 | 21.31 | 2.93 | 4 | 117 | 0.147 | W |
| C1A | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:03 | 8.01 | 8.57 | 31.23 | 21.65 | 2.82 | 4 | 118 | 0.163 | W |
| C1A | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:03 | 7.82 | 8.24 | 31.6 | 21.26 | 3.16 | 4 | 118 | 0.146 | W |
| C2A | 20200410 | Sunny | Moderate | Mid-Flood | B | 10.5 | 8:00 | 8.11 | 8.64 | 31.06 | 21.64 | 2.54 | 5 | 118 | 0.188 | SW |
| C2A | 20200410 | Sunny | Moderate | Mid-Flood | B | 10.5 | 8:00 | 7.96 | 8.38 | 30.9 | 21.66 | 2.77 | 5 | 118 | 0.132 | NW |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C2A | 20200410 | Sunny | Moderate | Mid-Flood | M | 5.75 | 8:01 | 7.96 | 8.33 | 31.52 | 21.7 | 2.95 | 5 | 119 | 0.167 | W |
| C2A | 20200410 | Sunny | Moderate | Mid-Flood | M | 5.75 | 8:01 | 8.1 | 8.67 | 31.09 | 21.14 | 2.77 | 5 | 119 | 0.174 | SW |
| C2A | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:02 | 8.33 | 8.29 | 31.6 | 21.35 | 2.79 | 4 | 114 | 0.101 | W |
| C2A | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:02 | 8.04 | 8.24 | 31.25 | 21.26 | 3.19 | 4 | 115 | 0.144 | W |
| CR1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 12.1 | 8:22 | 7.94 | 8.68 | 31.73 | 21.53 | 2.47 | 6 | 121 | 0.141 | W |
| CR1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 12.1 | 8:22 | 8.54 | 8.37 | 30.9 | 21.69 | 2.54 | 6 | 121 | 0.1 | NW |
| CR1 | 20200410 | Sunny | Moderate | Mid-Flood | M | 6.55 | 8:23 | 8.53 | 8.23 | 30.89 | 21.3 | 2.69 | 6 | 121 | 0.101 | NW |
| CR1 | 20200410 | Sunny | Moderate | Mid-Flood | M | 6.55 | 8:23 | 8.23 | 8.21 | 31.2 | 21.37 | 3.11 | 6 | 120 | 0.192 | W |
| CR1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:24 | 8.5 | 8.4 | 31.39 | 21.36 | 3.12 | 4 | 121 | 0.176 | W |
| CR1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:24 | 8.52 | 8.67 | 31.28 | 21.23 | 2.94 | 4 | 120 | 0.17 | W |
| CR2 | 20200410 | Sunny | Moderate | Mid-Flood | B | 10.3 | 8:36 | 8.61 | 8.24 | 31.5 | 21.56 | 2.86 | 7 | 121 | 0.191 | W |
| CR2 | 20200410 | Sunny | Moderate | Mid-Flood | B | 10.3 | 8:36 | 8.4 | 8.43 | 31.07 | 21.34 | 2.57 | 7 | 120 | 0.126 | W |
| CR2 | 20200410 | Sunny | Moderate | Mid-Flood | M | 5.65 | 8:37 | 8.27 | 8.62 | 31.5 | 21.29 | 2.71 | 6 | 120 | 0.182 | SW |
| CR2 | 20200410 | Sunny | Moderate | Mid-Flood | M | 5.65 | 8:37 | 7.86 | 8.21 | 31.33 | 21.54 | 3.08 | 5 | 121 | 0.149 | W |
| CR2 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:38 | 8.58 | 8.37 | 31.77 | 21.48 | 2.93 | 5 | 120 | 0.156 | W |
| CR2 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:38 | 8.61 | 8.49 | 31.1 | 21.17 | 3.03 | 5 | 120 | 0.189 | SW |
| F1A | 20200410 | Sunny | Moderate | Mid-Flood | B | 7.1 | 9:38 | 8.57 | 8.2 | 31.04 | 21.5 | 2.79 | 7 | 118 | 0.126 | SW |
| F1A | 20200410 | Sunny | Moderate | Mid-Flood | B | 7.1 | 9:38 | 8.53 | 8.69 | 30.97 | 21.77 | 2.87 | 7 | 120 | 0.187 | NW |
| F1A | 20200410 | Sunny | Moderate | Mid-Flood | M | 4.05 | 9:39 | 7.86 | 8.39 | 31.32 | 21.51 | 2.93 | 5 | 122 | 0.1 | W |
| F1A | 20200410 | Sunny | Moderate | Mid-Flood | M | 4.05 | 9:39 | 7.88 | 8.42 | 30.88 | 21.53 | 3.13 | 5 | 120 | 0.135 | W |
| F1A | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:40 | 8.12 | 8.32 | 30.9 | 21.73 | 3.15 | 4 | 119 | 0.181 | W |
| F1A | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:40 | 7.89 | 8.62 | 31.66 | 21.72 | 2.86 | 4 | 118 | 0.108 | W |
| H1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 7.5 | 9:28 | 8.12 | 8.49 | 31.26 | 21.63 | 2.65 | 8 | 118 | 0.15 | NW |
| H1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 7.5 | 9:28 | 8.58 | 8.26 | 31.13 | 21.33 | 2.56 | 8 | 118 | 0.147 | NW |
| H1 | 20200410 | Sunny | Moderate | Mid-Flood | M | 4.25 | 9:29 | 8.56 | 8.69 | 31.59 | 21.58 | 2.99 | 6 | 119 | 0.157 | W |
| H1 | 20200410 | Sunny | Moderate | Mid-Flood | M | 4.25 | 9:29 | 7.99 | 8.29 | 30.97 | 21.46 | 2.77 | 6 | 119 | 0.166 | W |
| H1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:30 | 8.37 | 8.39 | 30.82 | 21.62 | 2.86 | 6 | 117 | 0.167 | W |
| H1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:30 | 8.54 | 8.28 | 31.16 | 21.29 | 3.09 | 6 | 117 | 0.182 | W |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| M1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 6.6 | 8:18 | 8.59 | 8.22 | 31.07 | 21.47 | 2.52 | 6 | 120 | 0.099 | W |
| M1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 6.6 | 8:18 | 8.41 | 8.43 | 30.9 | 21.6 | 2.33 | 6 | 120 | 0.102 | W |
| M1 | 20200410 | Sunny | Moderate | Mid-Flood | M | 3.8 | 8:19 | 7.88 | 8.57 | 31.3 | 21.15 | 2.69 | 8 | 120 | 0.144 | NW |
| M1 | 20200410 | Sunny | Moderate | Mid-Flood | M | 3.8 | 8:19 | 8.08 | 8.58 | 31.43 | 21.62 | 2.83 | 8 | 121 | 0.144 | W |
| M1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:20 | 8.23 | 8.25 | 31.41 | 21.21 | 3.04 | 8 | 119 | 0.188 | W |
| M1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:20 | 8.57 | 8.53 | 31.65 | 21.64 | 2.77 | 8 | 120 | 0.13 | SW |
| S1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 4.8 | 9:45 | 8.12 | 8.55 | 31.24 | 21.75 | 2.37 | 5 | 117 | 0.166 | W |
| S1 | 20200410 | Sunny | Moderate | Mid-Flood | B | 4.8 | 9:45 | 8.45 | 8.69 | 31.23 | 21.68 | 2.44 | 4 | 115 | 0.179 | W |
| S1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:46 | 8.21 | 8.4 | 31.06 | 21.47 | 3.18 | 5 | 122 | 0.18 | W |
| S1 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:46 | 8.38 | 8.44 | 30.94 | 21.47 | 2.95 | 5 | 120 | 0.105 | W |
| S2A | 20200410 | Sunny | Moderate | Mid-Flood | B | 8.9 | 9:23 | 8.02 | 8.31 | 30.88 | 21.43 | 2.9 | 5 | 120 | 0.127 | W |
| S2A | 20200410 | Sunny | Moderate | Mid-Flood | B | 8.9 | 9:23 | 7.96 | 8.19 | 30.83 | 21.33 | 2.32 | 5 | 119 | 0.157 | W |
| S2A | 20200410 | Sunny | Moderate | Mid-Flood | M | 4.95 | 9:24 | 8.06 | 8.44 | 31.1 | 21.44 | 2.9 | 5 | 115 | 0.133 | SW |
| S2A | 20200410 | Sunny | Moderate | Mid-Flood | M | 4.95 | 9:24 | 8.15 | 8.69 | 31.67 | 21.71 | 2.98 | 4 | 117 | 0.105 | W |
| S2A | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:25 | 8.01 | 8.4 | 30.83 | 21.4 | 3.1 | 4 | 121 | 0.184 | SW |
| S2A | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 9:25 | 8.51 | 8.55 | 31.37 | 21.5 | 3.09 | 4 | 119 | 0.141 | W |
| S3 | 20200410 | Sunny | Moderate | Mid-Flood | B | 8.6 | 8:44 | 8.02 | 8.24 | 31.17 | 21.21 | 2.71 | 3 | 119 | 0.168 | W |
| S3 | 20200410 | Sunny | Moderate | Mid-Flood | B | 8.6 | 8:44 | 8.12 | 8.29 | 30.93 | 21.5 | 2.39 | 3 | 120 | 0.15 | W |
| S3 | 20200410 | Sunny | Moderate | Mid-Flood | M | 4.8 | 8:45 | 8.07 | 8.21 | 31.23 | 21.18 | 3.07 | 5 | 121 | 0.176 | W |
| S3 | 20200410 | Sunny | Moderate | Mid-Flood | M | 4.8 | 8:45 | 8.11 | 8.44 | 31.27 | 21.68 | 3.05 | 5 | 118 | 0.136 | W |
| S3 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:46 | 7.85 | 8.21 | 31.71 | 21.63 | 2.81 | 6 | 118 | 0.183 | W |
| S3 | 20200410 | Sunny | Moderate | Mid-Flood | S | 1 | 8:46 | 8.39 | 8.55 | 31.58 | 21.25 | 2.94 | 6 | 121 | 0.158 | W |
| B1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 12:26 | 8.13 | 8.41 | 31.02 | 22.06 | 2.56 | 8 | 123 | 0.187 | S |
| B1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 12:26 | 8.44 | 8.16 | 30.96 | 22.2 | 2.92 | 8 | 122 | 0.195 | SE |
| B1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:27 | 8.26 | 8.36 | 30.91 | 21.83 | 3.1 | 6 | 122 | 0.172 | SE |
| B1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:27 | 8.37 | 8.28 | 31.3 | 21.73 | 3.14 | 6 | 123 | 0.161 | S |
| B2 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 12:08 | 7.98 | 8.61 | 31.23 | 21.79 | 2.7 | 6 | 122 | 0.152 | S |
| B2 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 12:08 | 8.23 | 8.32 | 30.87 | 22.21 | 3.02 | 6 | 122 | 0.174 | SE |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B2 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:09 | 7.93 | 8.61 | 31.08 | 21.95 | 2.75 | 7 | 121 | 0.173 | S |
| B2 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:09 | 8.14 | 8.32 | 31 | 21.94 | 2.7 | 8 | 122 | 0.181 | SE |
| B3 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 4 | 12:54 | 8.25 | 8.32 | 31.03 | 22.05 | 2.58 | 5 | 122 | 0.185 | SE |
| B3 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 4 | 12:54 | 8.12 | 8.24 | 30.93 | 21.9 | 2.44 | 5 | 122 | 0.202 | SE |
| B3 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:55 | 8.12 | 8.21 | 31.23 | 22.06 | 3.08 | 6 | 122 | 0.161 | SE |
| B3 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:55 | 7.98 | 8.49 | 31.47 | 21.88 | 2.8 | 6 | 122 | 0.177 | S |
| B4 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 3.6 | 13:01 | 8.11 | 8.41 | 31.13 | 21.83 | 2.77 | 4 | 122 | 0.134 | S |
| B4 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 3.6 | 13:01 | 8.32 | 8.53 | 31.42 | 22.16 | 2.83 | 4 | 121 | 0.179 | SE |
| B4 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:02 | 7.94 | 8.55 | 30.87 | 21.85 | 2.71 | 6 | 122 | 0.185 | E |
| B4 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:02 | 8.08 | 8.57 | 31.1 | 22.3 | 2.87 | 6 | 122 | 0.134 | SE |
| C1A | 20200410 | Sunny | Moderate | Mid-Ebb | B | 9.2 | 12:07 | 8.36 | 8.53 | 31.28 | 21.74 | 2.75 | 4 | 122 | 0.125 | S |
| C1A | 20200410 | Sunny | Moderate | Mid-Ebb | B | 9.2 | 12:07 | 8.35 | 8.54 | 31.17 | 22.15 | 2.97 | 4 | 122 | 0.158 | SE |
| C1A | 20200410 | Sunny | Moderate | Mid-Ebb | M | 5.1 | 12:08 | 8.09 | 8.49 | 31.26 | 21.79 | 2.85 | 6 | 122 | 0.125 | SE |
| C1A | 20200410 | Sunny | Moderate | Mid-Ebb | M | 5.1 | 12:08 | 7.96 | 8.23 | 31.13 | 22.22 | 2.7 | 6 | 122 | 0.176 | S |
| C1A | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:09 | 8.07 | 8.38 | 31.17 | 21.75 | 3.01 | 6 | 121 | 0.197 | SE |
| C1A | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:09 | 8.43 | 8.25 | 31.48 | 21.94 | 2.7 | 6 | 121 | 0.157 | SE |
| C2A | 20200410 | Sunny | Moderate | Mid-Ebb | B | 10.9 | 13:33 | 8.43 | 8.44 | 31.3 | 22.41 | 2.6 | 4 | 122 | 0.198 | SE |
| C2A | 20200410 | Sunny | Moderate | Mid-Ebb | B | 10.9 | 13:33 | 7.94 | 8.26 | 31.23 | 22.12 | 2.69 | 4 | 122 | 0.143 | E |
| C2A | 20200410 | Sunny | Moderate | Mid-Ebb | M | 5.95 | 13:34 | 8.26 | 8.35 | 31.38 | 21.94 | 2.96 | 5 | 121 | 0.194 | S |
| C2A | 20200410 | Sunny | Moderate | Mid-Ebb | M | 5.95 | 13:34 | 8.34 | 8.61 | 31.14 | 22.1 | 2.77 | 5 | 122 | 0.145 | SE |
| C2A | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:35 | 8.02 | 8.21 | 31.35 | 22.36 | 2.81 | 7 | 121 | 0.152 | S |
| C2A | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:35 | 8.21 | 8.57 | 31.01 | 22.3 | 3.21 | 7 | 122 | 0.123 | SE |
| CR1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 12.8 | 13:09 | 8.43 | 8.5 | 30.82 | 21.93 | 2.56 | 5 | 122 | 0.151 | S |
| CR1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 12.8 | 13:09 | 8.43 | 8.51 | 31.16 | 22.26 | 2.82 | 5 | 122 | 0.158 | SE |
| CR1 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 6.9 | 13:10 | 8.1 | 8.49 | 31.1 | 22.27 | 2.65 | 6 | 121 | 0.158 | S |
| CR1 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 6.9 | 13:10 | 8.37 | 8.38 | 31.28 | 22.06 | 2.77 | 6 | 122 | 0.121 | SE |
| CR1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:11 | 8.18 | 8.37 | 30.86 | 22.07 | 3.11 | 8 | 122 | 0.192 | S |
| CR1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:11 | 8.03 | 8.39 | 31.46 | 22.18 | 3.03 | 8 | 122 | 0.118 | E |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR2 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 11.1 | 12:48 | 8.26 | 8.43 | 31.28 | 21.98 | 2.96 | 7 | 122 | 0.198 | S |
| CR2 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 11.1 | 12:48 | 8.1 | 8.59 | 30.95 | 22.24 | 2.43 | 7 | 123 | 0.192 | SE |
| CR2 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 6.05 | 12:49 | 8.3 | 8.26 | 30.85 | 22.01 | 2.58 | 8 | 122 | 0.193 | E |
| CR2 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 6.05 | 12:49 | 8.47 | 8.24 | 31.2 | 21.8 | 2.93 | 8 | 122 | 0.116 | SE |
| CR2 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:50 | 8.21 | 8.44 | 31.01 | 21.79 | 2.67 | 8 | 121 | 0.172 | S |
| CR2 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:50 | 8.3 | 8.56 | 30.83 | 22.3 | 3.26 | 8 | 121 | 0.13 | SE |
| F1A | 20200410 | Sunny | Moderate | Mid-Ebb | B | 7.2 | 13:25 | 8.02 | 8.18 | 31.36 | 21.94 | 2.44 | 5 | 120 | 0.184 | S |
| F1A | 20200410 | Sunny | Moderate | Mid-Ebb | B | 7.2 | 13:25 | 8.13 | 8.62 | 31.34 | 21.9 | 2.66 | 5 | 122 | 0.141 | SE |
| F1A | 20200410 | Sunny | Moderate | Mid-Ebb | M | 4.1 | 13:26 | 8.1 | 8.62 | 31.01 | 22.15 | 2.93 | 6 | 121 | 0.139 | SE |
| F1A | 20200410 | Sunny | Moderate | Mid-Ebb | M | 4.1 | 13:26 | 8.22 | 8.32 | 31.48 | 21.99 | 2.75 | 6 | 121 | 0.134 | E |
| F1A | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:27 | 8.45 | 8.5 | 31.23 | 21.87 | 2.69 | 8 | 122 | 0.146 | E |
| F1A | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:27 | 8.44 | 8.26 | 30.94 | 21.99 | 3.21 | 8 | 122 | 0.156 | S |
| H1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 7.3 | 12:32 | 8.3 | 8.46 | 31.03 | 22.12 | 2.88 | 5 | 122 | 0.139 | SE |
| H1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 7.3 | 12:32 | 7.98 | 8.38 | 30.99 | 22.05 | 2.79 | 5 | 121 | 0.169 | S |
| H1 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 4.15 | 12:33 | 8.2 | 8.23 | 31.12 | 22.13 | 2.99 | 7 | 122 | 0.202 | SE |
| H1 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 4.15 | 12:33 | 8.45 | 8.29 | 31.07 | 22.09 | 2.94 | 6 | 121 | 0.136 | S |
| H1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:34 | 8.06 | 8.45 | 31.48 | 22.26 | 3.08 | 8 | 122 | 0.146 | S |
| H1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:34 | 8.22 | 8.29 | 30.96 | 21.84 | 3.16 | 7 | 122 | 0.125 | E |
| M1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 8.8 | 13:44 | 8.35 | 8.54 | 31.39 | 22.4 | 2.7 | 7 | 121 | 0.136 | E |
| M1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 8.8 | 13:44 | 8.02 | 8.4 | 30.83 | 21.99 | 2.53 | 7 | 121 | 0.126 | S |
| M1 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 4.9 | 13:45 | 8.46 | 8.28 | 31.31 | 22.35 | 3.12 | 6 | 122 | 0.191 | SE |
| M1 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 4.9 | 13:45 | 8.45 | 8.31 | 31.5 | 21.92 | 2.69 | 6 | 122 | 0.138 | SE |
| M1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:46 | 8.07 | 8.36 | 30.97 | 22.17 | 2.88 | 5 | 121 | 0.179 | SE |
| M1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:46 | 7.99 | 8.19 | 31.26 | 22.17 | 2.96 | 5 | 122 | 0.125 | S |
| S1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 3.8 | 12:17 | 8.45 | 8.38 | 31.4 | 21.82 | 2.52 | 6 | 122 | 0.183 | SE |
| S1 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 3.8 | 12:17 | 7.97 | 8.18 | 30.97 | 21.92 | 2.43 | 7 | 122 | 0.139 | S |
| S1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:18 | 8.46 | 8.6 | 31.45 | 21.94 | 2.98 | 5 | 121 | 0.149 | SE |
| S1 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:18 | 8.1 | 8.34 | 31.37 | 22.06 | 3.25 | 5 | 122 | 0.19 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S2A | 20200410 | Sunny | Moderate | Mid-Ebb | B | 8.1 | 12:40 | 8.38 | 8.44 | 31.12 | 22.17 | 2.6 | 9 | 122 | 0.119 | SE |
| S2A | 20200410 | Sunny | Moderate | Mid-Ebb | B | 8.1 | 12:40 | 8.25 | 8.35 | 30.93 | 22.14 | 3 | 9 | 122 | 0.13 | E |
| S2A | 20200410 | Sunny | Moderate | Mid-Ebb | M | 4.55 | 12:41 | 8.04 | 8.33 | 31.23 | 22.26 | 2.89 | 7 | 122 | 0.146 | S |
| S2A | 20200410 | Sunny | Moderate | Mid-Ebb | M | 4.55 | 12:41 | 8.02 | 8.42 | 30.87 | 21.95 | 2.69 | 8 | 122 | 0.128 | S |
| S2A | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:42 | 8.38 | 8.23 | 31.19 | 21.83 | 3.1 | 6 | 122 | 0.179 | S |
| S2A | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 12:42 | 8.03 | 8.55 | 31.2 | 21.85 | 3.25 | 6 | 122 | 0.196 | S |
| S3 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 10 | 12:58 | 8 | 8.55 | 31.4 | 21.91 | 2.96 | 7 | 122 | 0.122 | SE |
| S3 | 20200410 | Sunny | Moderate | Mid-Ebb | B | 10 | 12:58 | 8.06 | 8.44 | 30.97 | 21.95 | 2.45 | 7 | 121 | 0.151 | S |
| S3 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 5.5 | 12:59 | 8.16 | 8.57 | 31.39 | 22.27 | 2.81 | 5 | 122 | 0.162 | S |
| S3 | 20200410 | Sunny | Moderate | Mid-Ebb | M | 5.5 | 12:59 | 8.49 | 8.3 | 31.16 | 22.23 | 2.76 | 5 | 122 | 0.178 | SE |
| S3 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:00 | 8.29 | 8.44 | 31.15 | 21.82 | 2.87 | 4 | 122 | 0.13 | S |
| S3 | 20200410 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:00 | 8.31 | 8.21 | 31.24 | 21.89 | 2.68 | 4 | 122 | 0.136 | E |
| B1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.4 | 11:18 | 7.28 | 8.7 | 31.56 | 21.65 | 3.23 | 3 | 117 | 0.187 | W |
| B1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.4 | 11:18 | 8.11 | 8.54 | 32 | 21.84 | 3.37 | 4 | 116 | 0.174 | NW |
| B1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 11:19 | 7.84 | 8.39 | 31.75 | 21.48 | 2.89 | 3 | 115 | 0.176 | W |
| B1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 11:19 | 8.28 | 8.63 | 32.02 | 21.55 | 2.78 | 4 | 115 | 0.226 | W |
| B2 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.1 | 11:36 | 7.38 | 8.59 | 31.59 | 21.67 | 2.98 | 4 | 118 | 0.225 | W |
| B2 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.1 | 11:36 | 7.89 | 8.58 | 31.86 | 21.74 | 3.42 | 4 | 119 | 0.279 | W |
| B2 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 11:37 | 7.39 | 8.42 | 31.91 | 21.96 | 2.91 | 2 | 116 | 0.241 | W |
| B2 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 11:37 | 8.01 | 8.65 | 31.76 | 21.68 | 2.41 | 3 | 115 | 0.173 | W |
| B3 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.2 | 10:59 | 7.74 | 8.4 | 31.95 | 21.64 | 3.09 | 3 | 119 | 0.193 | W |
| B3 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.2 | 10:59 | 7.54 | 8.55 | 32.06 | 21.64 | 3.06 | 4 | 119 | 0.176 | W |
| B3 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 11:00 | 7.77 | 8.66 | 31.92 | 21.53 | 2.48 | 5 | 118 | 0.282 | W |
| B3 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 11:00 | 7.57 | 8.65 | 31.53 | 21.74 | 2.82 | 4 | 116 | 0.218 | W |
| B4 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.5 | 10:51 | 7.82 | 8.56 | 31.88 | 21.71 | 3.47 | 6 | 117 | 0.251 | W |
| B4 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.5 | 10:51 | 7.77 | 8.46 | 31.53 | 21.54 | 3.51 | 4 | 115 | 0.213 | W |
| B4 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:52 | 8.2 | 8.6 | 31.94 | 21.57 | 2.88 | 5 | 119 | 0.234 | W |
| B4 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:52 | 7.3 | 8.63 | 31.74 | 21.52 | 2.63 | 4 | 118 | 0.173 | NW |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C1A | 20200414 | Sunny | Moderate | Mid-Flood | B | 10.4 | 10:11 | 8.25 | 8.59 | 31.58 | 21.39 | 3.17 | 4 | 120 | 0.242 | W |
| C1A | 20200414 | Sunny | Moderate | Mid-Flood | B | 10.4 | 10:11 | 7.55 | 8.39 | 31.58 | 21.25 | 3.44 | 5 | 118 | 0.246 | W |
| C1A | 20200414 | Sunny | Moderate | Mid-Flood | M | 5.7 | 10:12 | 7.85 | 8.43 | 31.8 | 21.67 | 3.09 | 4 | 118 | 0.191 | W |
| C1A | 20200414 | Sunny | Moderate | Mid-Flood | M | 5.7 | 10:12 | 8.12 | 8.67 | 32.01 | 21.5 | 2.94 | 4 | 119 | 0.269 | W |
| C1A | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:13 | 7.44 | 8.39 | 31.89 | 21.33 | 2.53 | 4 | 117 | 0.192 | W |
| C1A | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:13 | 8.23 | 8.57 | 31.63 | 21.68 | 2.8 | 4 | 117 | 0.275 | NW |
| C2A | 20200414 | Sunny | Moderate | Mid-Flood | B | 10.6 | 9:17 | 7.37 | 8.62 | 31.86 | 21.15 | 3.35 | 2 | 115 | 0.217 | NW |
| C2A | 20200414 | Sunny | Moderate | Mid-Flood | B | 10.6 | 9:17 | 8.15 | 8.66 | 31.94 | 21.47 | 3.43 | 4 | 115 | 0.18 | W |
| C2A | 20200414 | Sunny | Moderate | Mid-Flood | M | 5.8 | 9:18 | 7.28 | 8.4 | 31.79 | 21.38 | 2.86 | 4 | 117 | 0.259 | W |
| C2A | 20200414 | Sunny | Moderate | Mid-Flood | M | 5.8 | 9:18 | 7.99 | 8.66 | 31.52 | 21.53 | 2.72 | 4 | 116 | 0.236 | NW |
| C2A | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 9:19 | 7.68 | 8.38 | 31.64 | 21.52 | 2.9 | 4 | 117 | 0.281 | W |
| C2A | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 9:19 | 8.08 | 8.36 | 31.57 | 21.56 | 2.67 | 5 | 116 | 0.263 | W |
| CR1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 11.8 | 9:29 | 7.31 | 8.44 | 31.72 | 21.55 | 3.3 | 3 | 115 | 0.261 | W |
| CR1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 11.8 | 9:29 | 7.37 | 8.45 | 31.91 | 21.3 | 3.24 | 4 | 116 | 0.253 | W |
| CR1 | 20200414 | Sunny | Moderate | Mid-Flood | M | 6.4 | 9:30 | 7.93 | 8.42 | 31.61 | 21.25 | 2.94 | 4 | 115 | 0.25 | W |
| CR1 | 20200414 | Sunny | Moderate | Mid-Flood | M | 6.4 | 9:30 | 7.71 | 8.7 | 31.53 | 21.24 | 3.06 | 4 | 115 | 0.218 | W |
| CR1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 9:31 | 8.11 | 8.59 | 31.99 | 21.11 | 2.51 | 4 | 115 | 0.26 | W |
| CR1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 9:31 | 8.15 | 8.38 | 31.65 | 21.58 | 2.71 | 4 | 117 | 0.182 | NW |
| CR2 | 20200414 | Sunny | Moderate | Mid-Flood | B | 9.8 | 9:45 | 7.98 | 8.57 | 31.51 | 21.28 | 3.26 | 4 | 116 | 0.205 | W |
| CR2 | 20200414 | Sunny | Moderate | Mid-Flood | B | 9.8 | 9:45 | 8.31 | 8.67 | 32 | 21.42 | 3.28 | 4 | 116 | 0.241 | W |
| CR2 | 20200414 | Sunny | Moderate | Mid-Flood | M | 5.4 | 9:46 | 7.3 | 8.58 | 32.01 | 21.48 | 2.61 | 5 | 115 | 0.274 | W |
| CR2 | 20200414 | Sunny | Moderate | Mid-Flood | M | 5.4 | 9:46 | 8.19 | 8.58 | 31.8 | 21.53 | 3.02 | 4 | 113 | 0.224 | W |
| CR2 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 9:47 | 8.28 | 8.6 | 31.96 | 21.6 | 2.93 | 2 | 114 | 0.188 | W |
| CR2 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 9:47 | 8.31 | 8.47 | 31.64 | 21.26 | 2.49 | 3 | 116 | 0.174 | W |
| F1A | 20200414 | Sunny | Moderate | Mid-Flood | B | 7.6 | 10:28 | 7.66 | 8.37 | 31.57 | 21.39 | 3.05 | 3 | 118 | 0.258 | W |
| F1A | 20200414 | Sunny | Moderate | Mid-Flood | B | 7.6 | 10:28 | 7.51 | 8.7 | 31.75 | 21.36 | 3.36 | 3 | 120 | 0.254 | W |
| F1A | 20200414 | Sunny | Moderate | Mid-Flood | M | 4.3 | 10:29 | 7.69 | 8.69 | 31.5 | 21.6 | 3 | 2 | 120 | 0.254 | W |
| F1A | 20200414 | Sunny | Moderate | Mid-Flood | M | 4.3 | 10:29 | 7.57 | 8.54 | 31.55 | 21.44 | 3.03 | 3 | 118 | 0.278 | W |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| F1A | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:30 | 7.96 | 8.68 | 31.77 | 21.59 | 2.83 | 3 | 121 | 0.237 | NW |
| F1A | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:30 | 7.73 | 8.62 | 31.91 | 21.43 | 2.47 | 3 | 119 | 0.211 | W |
| H1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 6.5 | 10:56 | 7.85 | 8.59 | 31.74 | 21.6 | 3.06 | 3 | 117 | 0.248 | W |
| H1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 6.5 | 10:56 | 7.79 | 8.42 | 31.9 | 21.52 | 3.45 | 4 | 117 | 0.248 | NW |
| H1 | 20200414 | Sunny | Moderate | Mid-Flood | M | 3.75 | 10:57 | 7.93 | 8.47 | 31.56 | 21.77 | 2.54 | 6 | 116 | 0.205 | NW |
| H1 | 20200414 | Sunny | Moderate | Mid-Flood | M | 3.75 | 10:57 | 7.72 | 8.51 | 31.53 | 21.57 | 2.62 | 6 | 116 | 0.198 | W |
| H1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:58 | 8.03 | 8.68 | 31.64 | 21.79 | 2.64 | 5 | 116 | 0.201 | W |
| H1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:58 | 7.27 | 8.57 | 31.59 | 21.76 | 2.93 | 4 | 117 | 0.277 | W |
| M1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 6.5 | 10:04 | 8.2 | 8.54 | 31.54 | 21.6 | 3.33 | 3 | 118 | 0.184 | W |
| M1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 6.5 | 10:04 | 7.73 | 8.36 | 31.55 | 21.5 | 3.23 | 2 | 115 | 0.248 | W |
| M1 | 20200414 | Sunny | Moderate | Mid-Flood | M | 3.75 | 10:05 | 7.73 | 8.58 | 31.53 | 21.57 | 2.57 | 4 | 118 | 0.202 | NW |
| M1 | 20200414 | Sunny | Moderate | Mid-Flood | M | 3.75 | 10:05 | 7.66 | 8.66 | 32 | 21.56 | 3.09 | 3 | 116 | 0.27 | W |
| M1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:06 | 7.34 | 8.38 | 31.57 | 21.41 | 2.77 | 4 | 114 | 0.223 | W |
| M1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:06 | 8.21 | 8.56 | 31.93 | 21.45 | 2.51 | 3 | 117 | 0.24 | W |
| S1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.4 | 11:27 | 7.45 | 8.69 | 31.7 | 21.51 | 2.89 | 2 | 115 | 0.209 | W |
| S1 | 20200414 | Sunny | Moderate | Mid-Flood | B | 4.4 | 11:27 | 7.34 | 8.55 | 32.07 | 21.6 | 3.15 | 4 | 118 | 0.226 | W |
| S1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 11:28 | 8.04 | 8.36 | 31.91 | 21.53 | 2.46 | 3 | 117 | 0.28 | W |
| S1 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 11:28 | 7.37 | 8.6 | 32.03 | 21.49 | 2.45 | 4 | 118 | 0.235 | W |
| S2A | 20200414 | Sunny | Moderate | Mid-Flood | B | 8.3 | 10:36 | 8.08 | 8.64 | 31.64 | 21.68 | 2.94 | 3 | 118 | 0.261 | W |
| S2A | 20200414 | Sunny | Moderate | Mid-Flood | B | 8.3 | 10:36 | 7.3 | 8.46 | 31.8 | 21.51 | 3.4 | 3 | 115 | 0.18 | W |
| S2A | 20200414 | Sunny | Moderate | Mid-Flood | M | 4.65 | 10:37 | 7.36 | 8.51 | 32.06 | 21.34 | 2.54 | 3 | 115 | 0.27 | W |
| S2A | 20200414 | Sunny | Moderate | Mid-Flood | M | 4.65 | 10:37 | 7.93 | 8.39 | 31.62 | 21.68 | 2.73 | 4 | 117 | 0.18 | W |
| S2A | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:38 | 7.4 | 8.69 | 31.68 | 21.33 | 2.56 | 4 | 116 | 0.256 | NW |
| S2A | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 10:38 | 8.02 | 8.38 | 31.61 | 21.39 | 2.94 | 5 | 115 | 0.204 | W |
| S3 | 20200414 | Sunny | Moderate | Mid-Flood | B | 9.8 | 9:54 | 7.72 | 8.37 | 31.69 | 21.31 | 3.24 | 4 | 118 | 0.253 | W |
| S3 | 20200414 | Sunny | Moderate | Mid-Flood | B | 9.8 | 9:54 | 8.19 | 8.62 | 31.95 | 21.59 | 3.3 | 5 | 120 | 0.218 | W |
| S3 | 20200414 | Sunny | Moderate | Mid-Flood | M | 5.4 | 9:55 | 7.58 | 8.62 | 31.62 | 21.61 | 2.9 | 5 | 115 | 0.183 | W |
| S3 | 20200414 | Sunny | Moderate | Mid-Flood | M | 5.4 | 9:55 | 7.7 | 8.36 | 31.69 | 21.36 | 3.06 | 4 | 116 | 0.19 | NW |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S3 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 9:56 | 7.35 | 8.48 | 31.77 | 21.69 | 2.92 | 4 | 117 | 0.237 | W |
| S3 | 20200414 | Sunny | Moderate | Mid-Flood | S | 1 | 9:56 | 7.35 | 8.43 | 32.05 | 21.35 | 2.91 | 4 | 117 | 0.19 | W |
| B1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 3.9 | 15:28 | 7.6 | 8.49 | 31.99 | 22.21 | 3.38 | 4 | 117 | 0.231 | SE |
| B1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 3.9 | 15:28 | 8.19 | 8.46 | 32.09 | 21.99 | 3.01 | 5 | 115 | 0.151 | SE |
| B1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:29 | 8.08 | 8.7 | 31.92 | 22.17 | 2.66 | 4 | 114 | 0.181 | SE |
| B1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:29 | 7.52 | 8.67 | 32.16 | 22.16 | 2.63 | 3 | 115 | 0.211 | SE |
| B2 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 4.9 | 15:52 | 7.25 | 8.61 | 31.88 | 21.88 | 3.01 | 3 | 115 | 0.16 | E |
| B2 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 4.9 | 15:52 | 7.88 | 8.75 | 32.12 | 22.1 | 3.36 | 4 | 113 | 0.237 | SE |
| B2 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:53 | 8.16 | 8.54 | 31.85 | 22.14 | 2.84 | 4 | 115 | 0.238 | E |
| B2 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:53 | 8.01 | 8.73 | 31.98 | 22.04 | 2.48 | 5 | 116 | 0.225 | SE |
| B3 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 4.2 | 14:45 | 7.51 | 8.62 | 32.13 | 22.36 | 3.25 | 4 | 115 | 0.196 | SE |
| B3 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 4.2 | 14:45 | 8.09 | 8.49 | 32.01 | 22.33 | 3.31 | 5 | 113 | 0.228 | E |
| B3 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:46 | 8.18 | 8.6 | 32 | 22.18 | 2.47 | 4 | 113 | 0.245 | SE |
| B3 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:46 | 8.07 | 8.67 | 32.15 | 21.91 | 2.68 | 5 | 114 | 0.18 | SE |
| B4 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 3.5 | 14:35 | 7.65 | 8.58 | 32.03 | 22.27 | 3.48 | 4 | 114 | 0.165 | SE |
| B4 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 3.5 | 14:35 | 7.81 | 8.72 | 32.15 | 22 | 3.1 | 4 | 113 | 0.209 | E |
| B4 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:36 | 7.97 | 8.73 | 31.83 | 22.35 | 2.45 | 8 | 114 | 0.194 | SE |
| B4 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:36 | 8.07 | 8.51 | 31.9 | 22.03 | 2.92 | 8 | 114 | 0.237 | E |
| C1A | 20200414 | Sunny | Moderate | Mid-Ebb | B | 9.2 | 13:40 | 7.54 | 8.51 | 32.18 | 22.06 | 3.26 | 5 | 115 | 0.172 | SE |
| C1A | 20200414 | Sunny | Moderate | Mid-Ebb | B | 9.2 | 13:40 | 7.7 | 8.73 | 32 | 22.26 | 3.15 | 6 | 114 | 0.234 | SE |
| C1A | 20200414 | Sunny | Moderate | Mid-Ebb | M | 5.1 | 13:41 | 7.77 | 8.71 | 32.16 | 21.93 | 2.64 | 6 | 116 | 0.167 | SE |
| C1A | 20200414 | Sunny | Moderate | Mid-Ebb | M | 5.1 | 13:41 | 8.13 | 8.5 | 32.16 | 22.28 | 2.61 | 5 | 116 | 0.182 | E |
| C1A | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:42 | 7.25 | 8.64 | 32.11 | 22.24 | 2.48 | 4 | 114 | 0.224 | SE |
| C1A | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:42 | 7.92 | 8.59 | 32.18 | 22.27 | 2.34 | 4 | 115 | 0.25 | SE |
| C2A | 20200414 | Sunny | Moderate | Mid-Ebb | B | 11.4 | 16:20 | 7.61 | 8.68 | 31.85 | 21.96 | 3.16 | 4 | 113 | 0.226 | E |
| C2A | 20200414 | Sunny | Moderate | Mid-Ebb | B | 11.4 | 16:20 | 7.22 | 8.7 | 32.03 | 22.15 | 2.98 | 4 | 116 | 0.229 | E |
| C2A | 20200414 | Sunny | Moderate | Mid-Ebb | M | 6.2 | 16:21 | 8.17 | 8.73 | 32.08 | 22.17 | 2.72 | 4 | 116 | 0.159 | SE |
| C2A | 20200414 | Sunny | Moderate | Mid-Ebb | M | 6.2 | 16:21 | 8.16 | 8.65 | 32.03 | 21.87 | 2.82 | 4 | 116 | 0.183 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C2A | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 16:22 | 8.01 | 8.54 | 32.09 | 21.9 | 2.83 | 4 | 115 | 0.243 | E |
| C2A | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 16:22 | 7.77 | 8.72 | 32.06 | 22.01 | 2.71 | 3 | 116 | 0.217 | E |
| CR1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 12.1 | 16:10 | 8.14 | 8.67 | 32.03 | 21.83 | 3.26 | 6 | 113 | 0.168 | SE |
| CR1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 12.1 | 16:10 | 7.68 | 8.67 | 32.05 | 21.81 | 3.36 | 6 | 112 | 0.205 | SE |
| CR1 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 6.55 | 16:11 | 8.01 | 8.71 | 32.13 | 21.85 | 2.43 | 6 | 114 | 0.223 | SE |
| CR1 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 6.55 | 16:11 | 8.12 | 8.63 | 31.92 | 22.17 | 2.66 | 7 | 113 | 0.165 | SE |
| CR1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 16:12 | 8.22 | 8.57 | 31.9 | 22.2 | 2.45 | 6 | 114 | 0.221 | SE |
| CR1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 16:12 | 8.04 | 8.72 | 31.91 | 21.83 | 2.51 | 6 | 114 | 0.175 | SE |
| CR2 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 10.8 | 15:26 | 7.34 | 8.54 | 32.04 | 22.29 | 3.29 | 6 | 114 | 0.223 | E |
| CR2 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 10.8 | 15:26 | 7.65 | 8.72 | 31.88 | 21.93 | 3.19 | 5 | 114 | 0.196 | SE |
| CR2 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 5.9 | 15:27 | 7.26 | 8.67 | 32.01 | 22.03 | 2.72 | 7 | 114 | 0.146 | E |
| CR2 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 5.9 | 15:27 | 7.25 | 8.57 | 32.06 | 22.18 | 2.75 | 6 | 113 | 0.203 | SE |
| CR2 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:28 | 7.61 | 8.68 | 31.96 | 22.31 | 2.81 | 8 | 114 | 0.186 | SE |
| CR2 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:28 | 7.43 | 8.75 | 31.94 | 22.22 | 2.69 | 9 | 114 | 0.217 | SE |
| F1A | 20200414 | Sunny | Moderate | Mid-Ebb | B | 8 | 14:09 | 7.3 | 8.58 | 32.08 | 22.01 | 3.18 | 3 | 114 | 0.146 | E |
| F1A | 20200414 | Sunny | Moderate | Mid-Ebb | B | 8 | 14:09 | 7.86 | 8.73 | 32.14 | 21.93 | 3.22 | 4 | 112 | 0.167 | SE |
| F1A | 20200414 | Sunny | Moderate | Mid-Ebb | M | 4.5 | 14:10 | 7.8 | 8.66 | 31.98 | 21.87 | 2.71 | 4 | 114 | 0.252 | SE |
| F1A | 20200414 | Sunny | Moderate | Mid-Ebb | M | 4.5 | 14:10 | 7.22 | 8.56 | 32.05 | 21.96 | 2.37 | 4 | 114 | 0.209 | SE |
| F1A | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:11 | 8.17 | 8.5 | 32 | 22.18 | 2.39 | 4 | 114 | 0.191 | SE |
| F1A | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:11 | 7.62 | 8.57 | 32.16 | 22.27 | 2.68 | 5 | 116 | 0.244 | E |
| H1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 7.1 | 14:32 | 7.54 | 8.52 | 31.85 | 22.35 | 3.17 | 8 | 115 | 0.171 | E |
| H1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 7.1 | 14:32 | 7.94 | 8.5 | 32.17 | 22.22 | 3.23 | 7 | 113 | 0.228 | SE |
| H1 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 4.05 | 14:33 | 8.18 | 8.57 | 32.05 | 22.21 | 3.11 | 7 | 114 | 0.252 | SE |
| H1 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 4.05 | 14:33 | 7.64 | 8.57 | 32.05 | 22.01 | 3 | 6 | 114 | 0.21 | SE |
| H1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:34 | 7.62 | 8.6 | 32.18 | 22.21 | 2.63 | 5 | 112 | 0.153 | SE |
| H1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:34 | 7.64 | 8.73 | 31.88 | 21.91 | 2.34 | 6 | 114 | 0.204 | E |
| M1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 8.1 | 13:45 | 8.11 | 8.6 | 32.11 | 21.88 | 2.92 | 4 | 115 | 0.16 | SE |
| M1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 8.1 | 13:45 | 8.14 | 8.5 | 32.06 | 21.95 | 3.38 | 2 | 113 | 0.155 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| M1 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 4.55 | 13:46 | 8.05 | 8.67 | 31.8 | 21.92 | 2.45 | 4 | 116 | 0.172 | SE |
| M1 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 4.55 | 13:46 | 7.31 | 8.52 | 31.84 | 21.86 | 2.58 | 3 | 114 | 0.161 | E |
| M1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:47 | 7.59 | 8.67 | 31.91 | 22.22 | 2.67 | 4 | 114 | 0.191 | SE |
| M1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:47 | 8.18 | 8.62 | 31.93 | 22.23 | 2.32 | 4 | 115 | 0.214 | SE |
| S1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 4.4 | 15:41 | 8.02 | 8.58 | 32.11 | 22.01 | 3.25 | 4 | 113 | 0.217 | E |
| S1 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 4.4 | 15:41 | 7.47 | 8.7 | 31.92 | 22.04 | 2.98 | 4 | 112 | 0.155 | SE |
| S1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:42 | 7.51 | 8.66 | 32.13 | 21.97 | 2.59 | 4 | 114 | 0.22 | SE |
| S1 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:42 | 7.68 | 8.59 | 32.18 | 21.9 | 2.77 | 5 | 113 | 0.193 | SE |
| S2A | 20200414 | Sunny | Moderate | Mid-Ebb | B | 7.8 | 15:14 | 7.9 | 8.59 | 32.04 | 22.05 | 3.44 | 5 | 114 | 0.19 | SE |
| S2A | 20200414 | Sunny | Moderate | Mid-Ebb | B | 7.8 | 15:14 | 7.8 | 8.73 | 31.87 | 22.21 | 3.35 | 6 | 112 | 0.194 | SE |
| S2A | 20200414 | Sunny | Moderate | Mid-Ebb | M | 4.4 | 15:15 | 8.09 | 8.49 | 31.8 | 21.92 | 2.63 | 5 | 114 | 0.234 | SE |
| S2A | 20200414 | Sunny | Moderate | Mid-Ebb | M | 4.4 | 15:15 | 7.3 | 8.59 | 31.84 | 22.33 | 2.39 | 6 | 114 | 0.22 | SE |
| S2A | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:16 | 7.31 | 8.61 | 32.08 | 21.93 | 2.51 | 4 | 114 | 0.186 | SE |
| S2A | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 15:16 | 7.67 | 8.6 | 32.11 | 22.01 | 2.47 | 4 | 116 | 0.167 | SE |
| S3 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 10.4 | 15:58 | 7.33 | 8.5 | 31.9 | 22.13 | 3.09 | 9 | 113 | 0.184 | SE |
| S3 | 20200414 | Sunny | Moderate | Mid-Ebb | B | 10.4 | 15:58 | 7.18 | 8.64 | 31.86 | 22.14 | 3.1 | 10 | 114 | 0.154 | SE |
| S3 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 5.7 | 15:59 | 7.27 | 8.48 | 32.05 | 22.18 | 2.88 | 8 | 112 | 0.219 | SE |
| S3 | 20200414 | Sunny | Moderate | Mid-Ebb | M | 5.7 | 15:59 | 7.41 | 8.74 | 31.84 | 22.23 | 2.69 | 9 | 114 | 0.173 | SE |
| S3 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 16:00 | 7.52 | 8.46 | 32.1 | 22 | 2.8 | 4 | 113 | 0.205 | E |
| S3 | 20200414 | Sunny | Moderate | Mid-Ebb | S | 1 | 16:00 | 8.05 | 8.72 | 32.06 | 21.8 | 2.9 | 4 | 114 | 0.176 | SE |
| B1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 11:53 | 7.85 | 8.73 | 31.98 | 22.9 | 3.7 | 4 | 113 | 0.22 | W |
| B1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 11:53 | 8.41 | 8.7 | 31.6 | 23.02 | 3.63 | 4 | 113 | 0.2 | W |
| B1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:54 | 7.92 | 8.85 | 32.08 | 22.58 | 3.12 | 4 | 112 | 0.2 | W |
| B1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:54 | 7.78 | 8.77 | 32.02 | 23.12 | 3.05 | 4 | 113 | 0.222 | W |
| B2 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4 | 12:10 | 8.1 | 8.64 | 32.03 | 22.61 | 4.05 | 4 | 114 | 0.188 | W |
| B2 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4 | 12:10 | 8.28 | 8.63 | 31.5 | 23.09 | 3.76 | 4 | 113 | 0.2 | NW |
| B2 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:11 | 7.72 | 8.79 | 31.83 | 22.86 | 3.12 | 3 | 113 | 0.21 | W |
| B2 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:11 | 8.4 | 8.64 | 31.58 | 23.1 | 3.64 | 3 | 114 | 0.203 | W |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B3 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4 | 11:01 | 7.95 | 8.48 | 31.65 | 22.84 | 4.17 | 3 | 112 | 0.186 | W |
| B3 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4 | 11:01 | 7.69 | 8.48 | 31.98 | 22.5 | 3.87 | 4 | 114 | 0.205 | W |
| B3 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:02 | 7.84 | 8.88 | 31.78 | 22.53 | 3.3 | 5 | 113 | 0.204 | NW |
| B3 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:02 | 7.98 | 8.56 | 31.72 | 22.59 | 3.17 | 4 | 113 | 0.175 | W |
| B4 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4 | 10:54 | 8.39 | 8.72 | 31.71 | 22.61 | 3.8 | 4 | 113 | 0.17 | W |
| B4 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4 | 10:54 | 8.02 | 8.63 | 32.12 | 22.81 | 4.06 | 5 | 113 | 0.187 | NW |
| B4 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:55 | 8.02 | 8.48 | 31.71 | 22.34 | 3.13 | 4 | 112 | 0.187 | NW |
| B4 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:55 | 8.1 | 8.81 | 32.1 | 22.76 | 3.21 | 5 | 113 | 0.21 | W |
| C1A | 20200416 | Cloudy | Moderate | Mid-Flood | B | 10 | 11:31 | 8.03 | 8.58 | 32.06 | 22.44 | 4.01 | 4 | 113 | 0.178 | NW |
| C1A | 20200416 | Cloudy | Moderate | Mid-Flood | B | 10 | 11:31 | 7.85 | 8.45 | 31.64 | 22.4 | 4.04 | 3 | 113 | 0.214 | W |
| C1A | 20200416 | Cloudy | Moderate | Mid-Flood | M | 5.5 | 11:32 | 8.04 | 8.5 | 32.04 | 22.65 | 3.62 | 5 | 114 | 0.19 | W |
| C1A | 20200416 | Cloudy | Moderate | Mid-Flood | M | 5.5 | 11:32 | 8.11 | 8.8 | 31.61 | 22.53 | 3.37 | 4 | 114 | 0.205 | NW |
| C1A | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:33 | 7.71 | 8.46 | 31.92 | 22.77 | 3.59 | 5 | 115 | 0.189 | NW |
| C1A | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:33 | 8.27 | 8.83 | 31.76 | 22.59 | 3.63 | 4 | 114 | 0.191 | W |
| C2A | 20200416 | Cloudy | Moderate | Mid-Flood | B | 10.3 | 10:06 | 8.02 | 8.66 | 31.89 | 22.54 | 3.66 | 3 | 114 | 0.195 | W |
| C2A | 20200416 | Cloudy | Moderate | Mid-Flood | B | 10.3 | 10:06 | 8.29 | 8.55 | 32.03 | 22.38 | 3.84 | 3 | 113 | 0.19 | NW |
| C2A | 20200416 | Cloudy | Moderate | Mid-Flood | M | 5.65 | 10:07 | 7.9 | 8.88 | 31.8 | 22.35 | 3.58 | 5 | 112 | 0.198 | W |
| C2A | 20200416 | Cloudy | Moderate | Mid-Flood | M | 5.65 | 10:07 | 8.17 | 8.71 | 31.82 | 22.26 | 3.76 | 4 | 114 | 0.17 | W |
| C2A | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:08 | 7.85 | 8.67 | 32.07 | 22.58 | 3.43 | 4 | 114 | 0.191 | NW |
| C2A | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:08 | 8.06 | 8.71 | 32.15 | 22.53 | 3.36 | 4 | 114 | 0.19 | W |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 11.9 | 10:36 | 7.83 | 8.71 | 31.69 | 22.37 | 3.6 | 2 | 113 | 0.208 | W |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 11.9 | 10:36 | 8.25 | 8.65 | 31.62 | 22.56 | 3.64 | 2 | 112 | 0.219 | W |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 6.45 | 10:37 | 8.35 | 8.66 | 31.68 | 22.68 | 3.76 | 2 | 113 | 0.217 | W |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 6.45 | 10:37 | 7.89 | 8.86 | 32.05 | 22.6 | 3.29 | <2 | 112 | 0.171 | W |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:38 | 7.8 | 8.66 | 31.74 | 22.71 | 3.2 | 2 | 112 | 0.192 | NW |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:38 | 7.94 | 8.75 | 31.98 | 22.64 | 3.24 | <2 | 114 | 0.188 | W |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 10.1 | 10:53 | 8.19 | 8.64 | 31.71 | 22.39 | 3.83 | 4 | 113 | 0.192 | NW |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 10.1 | 10:53 | 7.97 | 8.84 | 31.62 | 22.56 | 3.75 | 3 | 113 | 0.185 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR2 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 5.55 | 10:54 | 8.37 | 8.86 | 31.71 | 22.39 | 3.42 | 4 | 113 | 0.218 | W |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 5.55 | 10:54 | 8.14 | 8.65 | 31.71 | 22.52 | 3.79 | 3 | 113 | 0.218 | W |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:55 | 8.35 | 8.47 | 31.95 | 22.53 | 3.15 | 4 | 113 | 0.189 | W |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:55 | 8.11 | 8.78 | 32.07 | 22.63 | 3.14 | 4 | 113 | 0.21 | NW |
| F1A | 20200416 | Cloudy | Moderate | Mid-Flood | B | 7.5 | 10:31 | 7.93 | 8.59 | 31.7 | 22.31 | 3.66 | 2 | 115 | 0.19 | W |
| F1A | 20200416 | Cloudy | Moderate | Mid-Flood | B | 7.5 | 10:31 | 8.03 | 8.67 | 31.74 | 22.29 | 3.63 | 2 | 114 | 0.188 | NW |
| F1A | 20200416 | Cloudy | Moderate | Mid-Flood | M | 4.25 | 10:32 | 8.16 | 8.56 | 31.9 | 22.72 | 3.69 | <2 | 114 | 0.179 | W |
| F1A | 20200416 | Cloudy | Moderate | Mid-Flood | M | 4.25 | 10:32 | 8.08 | 8.79 | 31.71 | 22.68 | 3.79 | 3 | 114 | 0.209 | W |
| F1A | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:33 | 8.37 | 8.67 | 31.52 | 22.51 | 3.08 | <2 | 112 | 0.209 | W |
| F1A | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 10:33 | 8.27 | 8.5 | 31.78 | 22.23 | 3.35 | <2 | 114 | 0.213 | W |
| H1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 7.1 | 11:26 | 8.32 | 8.77 | 31.57 | 22.58 | 4.08 | 4 | 113 | 0.189 | W |
| H1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 7.1 | 11:26 | 7.92 | 8.61 | 31.83 | 22.4 | 3.91 | 5 | 113 | 0.174 | W |
| H1 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 4.05 | 11:27 | 7.8 | 8.52 | 31.92 | 22.85 | 3.67 | 5 | 113 | 0.221 | W |
| H1 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 4.05 | 11:27 | 7.8 | 8.51 | 31.9 | 22.94 | 3.34 | 5 | 116 | 0.203 | W |
| H1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:28 | 7.95 | 8.82 | 31.58 | 22.74 | 3.06 | 5 | 112 | 0.18 | W |
| H1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:28 | 8.39 | 8.73 | 32.07 | 22.52 | 3.47 | 4 | 114 | 0.213 | NW |
| M1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 7.4 | 11:09 | 7.94 | 8.75 | 32.15 | 22.83 | 3.89 | 2 | 114 | 0.198 | W |
| M1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 7.4 | 11:09 | 7.97 | 8.63 | 31.51 | 22.59 | 3.99 | 2 | 114 | 0.221 | W |
| M1 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 4.2 | 11:10 | 8.3 | 8.8 | 31.85 | 22.37 | 3.28 | 3 | 113 | 0.195 | W |
| M1 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 4.2 | 11:10 | 7.73 | 8.73 | 31.55 | 22.73 | 3.5 | 3 | 114 | 0.189 | W |
| M1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:11 | 8.14 | 8.49 | 32.12 | 22.87 | 3.21 | 2 | 113 | 0.195 | W |
| M1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:11 | 7.72 | 8.75 | 31.91 | 22.77 | 3.19 | 2 | 112 | 0.203 | W |
| S1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4.1 | 12:01 | 8.24 | 8.56 | 31.86 | 23.05 | 4.16 | 2 | 114 | 0.176 | W |
| S1 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 4.1 | 12:01 | 7.67 | 8.55 | 31.91 | 23.04 | 3.75 | 2 | 113 | 0.193 | W |
| S1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:02 | 7.98 | 8.7 | 31.84 | 22.61 | 3.54 | <2 | 113 | 0.174 | NW |
| S1 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 12:02 | 7.76 | 8.77 | 31.77 | 22.76 | 3.39 | 2 | 114 | 0.177 | W |
| S2A | 20200416 | Cloudy | Moderate | Mid-Flood | B | 8.6 | 11:15 | 8.35 | 8.56 | 31.62 | 22.39 | 3.89 | 2 | 114 | 0.217 | NW |
| S2A | 20200416 | Cloudy | Moderate | Mid-Flood | B | 8.6 | 11:15 | 8.03 | 8.79 | 32.01 | 22.59 | 3.63 | <2 | 114 | 0.203 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S2A | 20200416 | Cloudy | Moderate | Mid-Flood | M | 4.8 | 11:16 | 8.17 | 8.82 | 31.82 | 22.47 | 3.74 | 3 | 114 | 0.198 | W |
| S2A | 20200416 | Cloudy | Moderate | Mid-Flood | M | 4.8 | 11:16 | 8.31 | 8.59 | 31.59 | 22.69 | 3.4 | <2 | 112 | 0.221 | W |
| S2A | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:17 | 8.03 | 8.52 | 31.73 | 22.68 | 3.27 | 3 | 113 | 0.19 | W |
| S2A | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:17 | 8.04 | 8.88 | 31.94 | 22.89 | 3.21 | 2 | 113 | 0.221 | W |
| S3 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 9.3 | 11:08 | 8.37 | 8.66 | 32.03 | 22.83 | 3.74 | 4 | 113 | 0.218 | W |
| S3 | 20200416 | Cloudy | Moderate | Mid-Flood | B | 9.3 | 11:08 | 8.25 | 8.85 | 31.61 | 22.39 | 3.75 | 3 | 113 | 0.205 | W |
| S3 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 5.15 | 11:09 | 7.8 | 8.49 | 31.87 | 22.65 | 3.42 | 4 | 114 | 0.176 | NW |
| S3 | 20200416 | Cloudy | Moderate | Mid-Flood | M | 5.15 | 11:09 | 7.67 | 8.72 | 31.86 | 22.38 | 3.29 | 3 | 113 | 0.176 | W |
| S3 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:10 | 7.67 | 8.7 | 31.85 | 22.86 | 3.28 | 5 | 112 | 0.208 | W |
| S3 | 20200416 | Cloudy | Moderate | Mid-Flood | S | 1 | 11:10 | 8.4 | 8.87 | 31.8 | 22.48 | 3.66 | 4 | 113 | 0.171 | NW |
| B1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 16:18 | 7.93 | 8.62 | 31.54 | 22.51 | 3.67 | 6 | 114 | 0.179 | SE |
| B1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 16:18 | 8.4 | 8.75 | 31.53 | 22.41 | 3.68 | 5 | 113 | 0.166 | E |
| B1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:19 | 8.41 | 8.93 | 31.44 | 22.72 | 3.27 | 3 | 114 | 0.181 | SE |
| B1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:19 | 8.08 | 8.55 | 31.78 | 22.37 | 3.32 | 4 | 114 | 0.16 | SE |
| B2 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 4.7 | 16:41 | 7.93 | 8.73 | 31.57 | 22.57 | 3.74 | 3 | 112 | 0.219 | SE |
| B2 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 4.7 | 16:41 | 7.65 | 8.63 | 31.51 | 22.27 | 3.89 | 2 | 113 | 0.214 | SE |
| B2 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:42 | 8.27 | 8.73 | 31.85 | 22.41 | 3.31 | 3 | 112 | 0.183 | E |
| B2 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:42 | 8.14 | 8.93 | 31.93 | 22.77 | 3.44 | 4 | 113 | 0.169 | E |
| B3 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 4.4 | 16:19 | 7.87 | 8.93 | 31.55 | 22.62 | 3.67 | 3 | 115 | 0.156 | SE |
| B3 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 4.4 | 16:19 | 8.15 | 8.53 | 31.74 | 22.52 | 3.77 | 3 | 112 | 0.214 | SE |
| B3 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:20 | 8.08 | 8.67 | 31.94 | 22.33 | 3.13 | 3 | 113 | 0.174 | SE |
| B3 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:20 | 8.44 | 8.64 | 31.76 | 22.47 | 3.05 | 3 | 114 | 0.205 | SE |
| B4 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 3.4 | 16:27 | 7.98 | 8.7 | 31.91 | 22.69 | 4.15 | 4 | 112 | 0.161 | SE |
| B4 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 3.4 | 16:27 | 8.25 | 8.51 | 31.8 | 22.26 | 3.77 | 3 | 113 | 0.157 | SE |
| B4 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:28 | 8.26 | 8.71 | 31.73 | 22.51 | 3.51 | 4 | 114 | 0.208 | E |
| B4 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:28 | 8.26 | 8.91 | 31.72 | 22.48 | 3.18 | 4 | 114 | 0.219 | E |
| C1A | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 15:50 | 7.62 | 8.83 | 31.94 | 22.47 | 3.5 | 5 | 113 | 0.199 | E |
| C1A | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 15:50 | 7.85 | 8.77 | 31.96 | 22.3 | 4.07 | 6 | 113 | 0.178 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C1A | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 15:51 | 7.82 | 8.77 | 31.46 | 22.7 | 3.15 | 4 | 114 | 0.158 | E |
| C1A | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 15:51 | 8.03 | 8.94 | 31.95 | 22.78 | 3.25 | 4 | 114 | 0.207 | SE |
| C1A | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 15:52 | 7.75 | 8.53 | 31.49 | 22.38 | 3.09 | 4 | 114 | 0.192 | SE |
| C1A | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 15:52 | 7.74 | 8.52 | 31.76 | 22.22 | 3.37 | 5 | 114 | 0.204 | E |
| C2A | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 11.1 | 15:52 | 8.39 | 8.59 | 31.41 | 22.47 | 3.68 | 4 | 114 | 0.18 | SE |
| C2A | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 11.1 | 15:52 | 7.76 | 8.92 | 31.41 | 22.62 | 3.86 | 4 | 113 | 0.212 | E |
| C2A | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 6.05 | 15:53 | 8.37 | 8.91 | 31.48 | 22.56 | 3.19 | 4 | 113 | 0.17 | E |
| C2A | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 6.05 | 15:53 | 7.88 | 8.75 | 31.94 | 22.77 | 3.47 | 4 | 112 | 0.199 | E |
| C2A | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 15:54 | 7.66 | 8.82 | 31.9 | 22.2 | 3.49 | 5 | 115 | 0.208 | SE |
| C2A | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 15:54 | 7.65 | 8.5 | 31.93 | 22.79 | 3.5 | 4 | 113 | 0.2 | SE |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 12.1 | 17:53 | 8.06 | 8.94 | 31.64 | 22.5 | 3.71 | 4 | 113 | 0.204 | SE |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 12.1 | 17:53 | 8.05 | 8.82 | 31.9 | 21.92 | 3.72 | 3 | 113 | 0.198 | E |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 6.55 | 17:54 | 7.72 | 8.8 | 31.78 | 22.13 | 3.08 | 4 | 114 | 0.173 | SE |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 6.55 | 17:54 | 8.48 | 8.63 | 31.54 | 22.42 | 3.11 | 5 | 112 | 0.163 | E |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:55 | 8.49 | 8.65 | 31.64 | 22.32 | 3.26 | 4 | 113 | 0.184 | SE |
| CR1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:55 | 8.2 | 8.55 | 31.72 | 21.97 | 3.49 | 5 | 115 | 0.2 | SE |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 10 | 17:31 | 8 | 8.94 | 31.85 | 22.56 | 4 | 3 | 112 | 0.159 | SE |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 10 | 17:31 | 7.8 | 8.75 | 31.51 | 21.91 | 3.76 | 4 | 114 | 0.216 | SE |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 5.5 | 17:32 | 7.69 | 8.7 | 31.98 | 21.91 | 3.53 | 4 | 114 | 0.213 | E |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 5.5 | 17:32 | 8.46 | 8.46 | 31.56 | 22.5 | 3.25 | 4 | 114 | 0.193 | SE |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:33 | 7.83 | 8.89 | 31.5 | 21.93 | 3.04 | 5 | 112 | 0.192 | SE |
| CR2 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:33 | 7.77 | 8.56 | 31.76 | 22.47 | 3.13 | 4 | 114 | 0.16 | E |
| F1A | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 7.9 | 16:50 | 7.69 | 8.86 | 31.78 | 22.48 | 3.83 | 4 | 114 | 0.187 | E |
| F1A | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 7.9 | 16:50 | 8.36 | 8.62 | 31.65 | 22.12 | 3.59 | 5 | 114 | 0.192 | SE |
| F1A | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.45 | 16:51 | 7.71 | 8.8 | 31.94 | 22.46 | 3.27 | 4 | 113 | 0.164 | SE |
| F1A | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.45 | 16:51 | 8.04 | 8.65 | 31.44 | 22.52 | 2.99 | 4 | 113 | 0.161 | E |
| F1A | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:52 | 7.7 | 8.71 | 31.61 | 22.27 | 2.95 | 4 | 114 | 0.158 | SE |
| F1A | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:52 | 8.12 | 8.51 | 31.96 | 22.15 | 3.41 | 4 | 114 | 0.205 | SE |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| H1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 7.3 | 16:07 | 8.18 | 8.88 | 31.48 | 22.37 | 3.64 | 7 | 113 | 0.217 | SE |
| H1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 7.3 | 16:07 | 8.44 | 8.64 | 31.77 | 22.77 | 3.87 | 6 | 114 | 0.151 | SE |
| H1 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.15 | 16:08 | 7.97 | 8.94 | 31.66 | 22.61 | 3.05 | 4 | 113 | 0.205 | E |
| H1 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.15 | 16:08 | 7.63 | 8.84 | 31.56 | 22.44 | 3.33 | 4 | 114 | 0.189 | E |
| H1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:09 | 8.1 | 8.76 | 31.75 | 22.79 | 3.5 | 3 | 114 | 0.148 | SE |
| H1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:09 | 7.85 | 8.72 | 31.69 | 22.83 | 3.31 | 4 | 112 | 0.199 | SE |
| M1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 8.5 | 17:11 | 7.64 | 8.72 | 31.7 | 22.09 | 3.59 | 5 | 113 | 0.147 | SE |
| M1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 8.5 | 17:11 | 7.88 | 8.91 | 31.93 | 22.5 | 4.03 | 6 | 114 | 0.211 | SE |
| M1 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.75 | 17:12 | 8.14 | 8.7 | 31.85 | 22.46 | 3.2 | 4 | 114 | 0.167 | SE |
| M1 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.75 | 17:12 | 7.73 | 8.67 | 31.82 | 22.14 | 3.12 | 5 | 112 | 0.182 | SE |
| M1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:13 | 8.05 | 8.6 | 31.74 | 22.49 | 2.98 | 4 | 114 | 0.214 | E |
| M1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:13 | 7.93 | 8.65 | 31.57 | 22.58 | 3.09 | 3 | 113 | 0.21 | SE |
| S1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 3.9 | 16:33 | 8.33 | 8.91 | 31.51 | 22.31 | 3.89 | 2 | 112 | 0.167 | SE |
| S1 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 3.9 | 16:33 | 8.14 | 8.76 | 31.58 | 22.6 | 3.84 | 4 | 112 | 0.161 | SE |
| S1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:34 | 8.49 | 8.54 | 31.44 | 22.19 | 3.03 | 2 | 110 | 0.187 | SE |
| S1 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 16:34 | 8.3 | 8.46 | 31.94 | 22.4 | 2.98 | 3 | 113 | 0.213 | SE |
| S2A | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 8.4 | 17:04 | 8.23 | 8.46 | 31.7 | 22.18 | 3.65 | 2 | 113 | 0.169 | SE |
| S2A | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 8.4 | 17:04 | 8.35 | 8.81 | 31.83 | 22.26 | 3.82 | 3 | 114 | 0.161 | SE |
| S2A | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.7 | 17:05 | 8.05 | 8.76 | 31.67 | 22.33 | 3.22 | 2 | 113 | 0.151 | SE |
| S2A | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 4.7 | 17:05 | 8.48 | 8.94 | 31.48 | 22.23 | 3.33 | 2 | 112 | 0.187 | SE |
| S2A | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:06 | 8.22 | 8.69 | 32 | 22.51 | 3.14 | 3 | 114 | 0.198 | E |
| S2A | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:06 | 8.47 | 8.67 | 31.84 | 22.58 | 3.07 | 3 | 113 | 0.165 | SE |
| S3 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 10.2 | 17:40 | 7.64 | 8.93 | 31.95 | 22.12 | 3.71 | 4 | 113 | 0.155 | SE |
| S3 | 20200416 | Cloudy | Moderate | Mid-Ebb | B | 10.2 | 17:40 | 8.1 | 8.61 | 31.43 | 22.49 | 3.75 | 4 | 114 | 0.181 | E |
| S3 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 5.6 | 17:41 | 7.87 | 8.64 | 31.48 | 22.09 | 3.19 | 4 | 113 | 0.16 | E |
| S3 | 20200416 | Cloudy | Moderate | Mid-Ebb | M | 5.6 | 17:41 | 8.29 | 8.76 | 31.4 | 22.47 | 3.55 | 4 | 114 | 0.166 | SE |
| S3 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:42 | 7.74 | 8.88 | 31.53 | 22.46 | 3.58 | 4 | 112 | 0.146 | SE |
| S3 | 20200416 | Cloudy | Moderate | Mid-Ebb | S | 1 | 17:42 | 7.83 | 8.62 | 31.54 | 21.9 | 3.6 | 3 | 114 | 0.184 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 3.6 | 11:06 | 8.28 | 8.48 | 31.76 | 22.77 | 3.76 | 3 | 112 | 0.197 | SE |
| B1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 3.6 | 11:06 | 7.94 | 8.67 | 31.37 | 22.74 | 3.71 | 2 | 114 | 0.147 | E |
| B1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 11:07 | 7.77 | 8.5 | 31.13 | 22.34 | 3.14 | 3 | 114 | 0.179 | E |
| B1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 11:07 | 7.96 | 8.2 | 31.17 | 22.76 | 3.29 | 2 | 113 | 0.19 | SE |
| B2 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 11:23 | 7.93 | 8.24 | 31.81 | 22.84 | 3.89 | <2 | 115 | 0.19 | SE |
| B2 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 11:23 | 7.95 | 8.44 | 31.19 | 22.44 | 3.98 | <2 | 113 | 0.162 | SE |
| B2 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 11:24 | 8.31 | 8.18 | 31.54 | 22.72 | 3.6 | 2 | 113 | 0.169 | SE |
| B2 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 11:24 | 8.41 | 8.32 | 31.73 | 22.66 | 3.34 | 3 | 113 | 0.154 | E |
| B3 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 4.2 | 10:38 | 7.79 | 8.18 | 31.36 | 22.31 | 4.14 | 4 | 112 | 0.206 | SE |
| B3 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 4.2 | 10:38 | 8.04 | 8.33 | 31.23 | 22.71 | 3.72 | 3 | 112 | 0.163 | SE |
| B3 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:39 | 8.22 | 8.66 | 31.17 | 22.8 | 3.65 | 3 | 114 | 0.187 | SE |
| B3 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:39 | 8.22 | 8.65 | 31.16 | 22.52 | 3.55 | 3 | 111 | 0.177 | SE |
| B4 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 10:28 | 7.88 | 8.34 | 31.71 | 22.55 | 4.06 | 4 | 117 | 0.18 | E |
| B4 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 10:28 | 7.87 | 8.32 | 31.11 | 22.28 | 4.21 | 3 | 116 | 0.151 | SE |
| B4 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:29 | 8.01 | 8.26 | 31.67 | 22.49 | 3.61 | 4 | 115 | 0.17 | SE |
| B4 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:29 | 8.39 | 8.62 | 31.79 | 22.44 | 3.27 | 4 | 114 | 0.142 | SE |
| C1A | 20200418 | Sunny | Moderate | Mid-Ebb | B | 9.9 | 8:45 | 7.8 | 8.59 | 31.31 | 22.33 | 3.88 | 2 | 112 | 0.187 | SE |
| C1A | 20200418 | Sunny | Moderate | Mid-Ebb | B | 9.9 | 8:45 | 8.09 | 8.58 | 31.82 | 22.15 | 3.68 | 2 | 114 | 0.16 | SE |
| C1A | 20200418 | Sunny | Moderate | Mid-Ebb | M | 5.45 | 8:46 | 8.44 | 8.66 | 31.54 | 22.16 | 3.3 | 3 | 113 | 0.179 | SE |
| C1A | 20200418 | Sunny | Moderate | Mid-Ebb | M | 5.45 | 8:46 | 7.89 | 8.38 | 31.25 | 22.36 | 3.47 | 3 | 112 | 0.157 | E |
| C1A | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 8:47 | 7.97 | 8.2 | 31.87 | 22.17 | 3.51 | 2 | 116 | 0.16 | E |
| C1A | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 8:47 | 7.91 | 8.25 | 31.74 | 22.4 | 3.22 | 3 | 113 | 0.188 | SE |
| C2A | 20200418 | Sunny | Moderate | Mid-Ebb | B | 11.5 | 10:08 | 8.41 | 8.67 | 31.19 | 22.57 | 3.77 | 3 | 113 | 0.166 | SE |
| C2A | 20200418 | Sunny | Moderate | Mid-Ebb | B | 11.5 | 10:08 | 7.8 | 8.23 | 31.7 | 22.64 | 4.1 | 3 | 113 | 0.198 | SE |
| C2A | 20200418 | Sunny | Moderate | Mid-Ebb | M | 6.25 | 10:09 | 7.97 | 8.16 | 31.62 | 22.59 | 3.24 | 3 | 113 | 0.199 | SE |
| C2A | 20200418 | Sunny | Moderate | Mid-Ebb | M | 6.25 | 10:09 | 8.37 | 8.38 | 31.26 | 22.61 | 3.64 | 4 | 113 | 0.143 | SE |
| C2A | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:10 | 8.15 | 8.58 | 31.69 | 22.63 | 3.59 | 5 | 113 | 0.143 | SE |
| C2A | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:10 | 8.23 | 8.46 | 31.83 | 22.75 | 3.05 | 4 | 114 | 0.164 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 12 | 9:48 | 8.21 | 8.44 | 31.12 | 22.49 | 3.79 | 2 | 113 | 0.184 | SE |
| CR1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 12 | 9:48 | 8.37 | 8.21 | 31.84 | 22.55 | 3.62 | 2 | 113 | 0.206 | SE |
| CR1 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 6.5 | 9:49 | 8.21 | 8.52 | 31.46 | 22.26 | 3.05 | <2 | 114 | 0.2 | SE |
| CR1 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 6.5 | 9:49 | 8.09 | 8.62 | 31.29 | 22.57 | 3.1 | 2 | 114 | 0.186 | E |
| CR1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:50 | 8.29 | 8.21 | 31.84 | 22.38 | 3.56 | 3 | 113 | 0.189 | E |
| CR1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:50 | 7.73 | 8.51 | 31.53 | 22.33 | 3.14 | 4 | 114 | 0.198 | E |
| CR2 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 10.2 | 9:28 | 8.33 | 8.28 | 31.61 | 22.28 | 3.57 | 4 | 114 | 0.166 | E |
| CR2 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 10.2 | 9:28 | 7.82 | 8.5 | 31.75 | 22.29 | 3.96 | 5 | 113 | 0.167 | SE |
| CR2 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 5.6 | 9:29 | 8.12 | 8.23 | 31.87 | 22.41 | 3.4 | 3 | 113 | 0.176 | SE |
| CR2 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 5.6 | 9:29 | 8.43 | 8.16 | 31.84 | 22.22 | 3.59 | 2 | 116 | 0.158 | SE |
| CR2 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:30 | 8.01 | 8.32 | 31.76 | 22.41 | 3.31 | 3 | 115 | 0.141 | SE |
| CR2 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:30 | 8.01 | 8.2 | 31.33 | 22.57 | 3.28 | 3 | 113 | 0.143 | SE |
| F1A | 20200418 | Sunny | Moderate | Mid-Ebb | B | 8.1 | 10:05 | 8.07 | 8.29 | 31.7 | 22.59 | 3.75 | <2 | 113 | 0.176 | E |
| F1A | 20200418 | Sunny | Moderate | Mid-Ebb | B | 8.1 | 10:05 | 7.93 | 8.31 | 31.46 | 22.33 | 3.69 | 3 | 112 | 0.208 | E |
| F1A | 20200418 | Sunny | Moderate | Mid-Ebb | M | 4.55 | 10:06 | 7.96 | 8.64 | 31.69 | 22.32 | 3.29 | 3 | 113 | 0.162 | SE |
| F1A | 20200418 | Sunny | Moderate | Mid-Ebb | M | 4.55 | 10:06 | 7.99 | 8.4 | 31.1 | 22.69 | 3.09 | 2 | 112 | 0.178 | SE |
| F1A | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:07 | 7.97 | 8.22 | 31.86 | 22.72 | 3.49 | 3 | 112 | 0.156 | E |
| F1A | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:07 | 8.05 | 8.17 | 31.88 | 22.52 | 3.42 | 4 | 112 | 0.147 | SE |
| H1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 7 | 9:11 | 8.07 | 8.48 | 31.44 | 22.25 | 4.02 | 4 | 116 | 0.208 | SE |
| H1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 7 | 9:11 | 8.35 | 8.33 | 31.61 | 22.26 | 3.81 | 4 | 114 | 0.167 | E |
| H1 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 4 | 9:12 | 8.02 | 8.36 | 31.6 | 22.37 | 3.5 | 4 | 112 | 0.205 | SE |
| H1 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 4 | 9:12 | 8.12 | 8.51 | 31.55 | 22.16 | 3.07 | 5 | 110 | 0.154 | E |
| H1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:13 | 8.29 | 8.41 | 31.18 | 22.32 | 3.54 | 4 | 116 | 0.165 | SE |
| H1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:13 | 7.86 | 8.26 | 31.51 | 22.39 | 3.11 | 4 | 116 | 0.15 | SE |
| M1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 8.7 | 9:43 | 8.44 | 8.6 | 31.22 | 22.5 | 3.83 | 5 | 114 | 0.172 | SE |
| M1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 8.7 | 9:43 | 7.74 | 8.44 | 31.27 | 22.38 | 4.06 | 4 | 113 | 0.206 | E |
| M1 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 4.85 | 9:44 | 7.82 | 8.29 | 31.33 | 22.37 | 3.13 | 4 | 115 | 0.146 | SE |
| M1 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 4.85 | 9:44 | 8.33 | 8.57 | 31.83 | 22.57 | 3.36 | 5 | 114 | 0.144 | E |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| M1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:45 | 7.98 | 8.62 | 31.37 | 22.23 | 3.54 | 4 | 114 | 0.186 | E |
| M1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:45 | 8.4 | 8.67 | 31.66 | 22.25 | 3.49 | 4 | 113 | 0.142 | SE |
| S1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 3.8 | 11:15 | 8.02 | 8.47 | 31.26 | 22.68 | 3.6 | 4 | 112 | 0.142 | SE |
| S1 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 3.8 | 11:15 | 8.23 | 8.54 | 31.24 | 22.57 | 3.77 | 4 | 114 | 0.17 | SE |
| S1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 11:16 | 8.3 | 8.31 | 31.58 | 22.56 | 3.11 | 4 | 113 | 0.195 | SE |
| S1 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 11:16 | 8.38 | 8.66 | 31.55 | 22.75 | 3.48 | 4 | 113 | 0.183 | SE |
| S2A | 20200418 | Sunny | Moderate | Mid-Ebb | B | 7.9 | 10:53 | 7.74 | 8.21 | 31.14 | 22.65 | 3.93 | 5 | 111 | 0.153 | SE |
| S2A | 20200418 | Sunny | Moderate | Mid-Ebb | B | 7.9 | 10:53 | 8.36 | 8.28 | 31.46 | 22.32 | 3.64 | 6 | 109 | 0.152 | SE |
| S2A | 20200418 | Sunny | Moderate | Mid-Ebb | M | 4.45 | 10:54 | 8.16 | 8.31 | 31.27 | 22.5 | 3.53 | 5 | 112 | 0.212 | E |
| S2A | 20200418 | Sunny | Moderate | Mid-Ebb | M | 4.45 | 10:54 | 8.29 | 8.56 | 31.24 | 22.69 | 3.09 | 4 | 115 | 0.197 | E |
| S2A | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:55 | 7.75 | 8.33 | 31.6 | 22.46 | 3.28 | 5 | 113 | 0.141 | SE |
| S2A | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 10:55 | 8.32 | 8.3 | 31.75 | 22.62 | 3.26 | 4 | 112 | 0.207 | E |
| S3 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 9.9 | 9:37 | 8.29 | 8.49 | 31.57 | 22.24 | 3.87 | 2 | 114 | 0.151 | SE |
| S3 | 20200418 | Sunny | Moderate | Mid-Ebb | B | 9.9 | 9:37 | 8.33 | 8.49 | 31.64 | 22.49 | 3.66 | 3 | 112 | 0.196 | SE |
| S3 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 5.45 | 9:38 | 8.41 | 8.49 | 31.29 | 22.34 | 3.56 | 3 | 114 | 0.181 | SE |
| S3 | 20200418 | Sunny | Moderate | Mid-Ebb | M | 5.45 | 9:38 | 8.3 | 8.45 | 31.6 | 22.33 | 3.09 | 2 | 113 | 0.142 | SE |
| S3 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:39 | 8.05 | 8.24 | 31.73 | 22.22 | 3.46 | 5 | 114 | 0.157 | E |
| S3 | 20200418 | Sunny | Moderate | Mid-Ebb | S | 1 | 9:39 | 7.81 | 8.63 | 31.32 | 22.22 | 3.17 | 4 | 114 | 0.147 | SE |
| B1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 4 | 14:04 | 7.84 | 8.32 | 31.5 | 22.76 | 4.01 | 4 | 113 | 0.148 | W |
| B1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 4 | 14:04 | 7.62 | 8.54 | 31.58 | 22.72 | 3.98 | 3 | 113 | 0.2 | NW |
| B1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:05 | 7.37 | 8.44 | 31.93 | 22.83 | 3.19 | 3 | 114 | 0.186 | W |
| B1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:05 | 7.38 | 8.53 | 31.58 | 22.63 | 3.41 | 4 | 113 | 0.2 | W |
| B2 | 20200418 | Sunny | Moderate | Mid-Flood | B | 3.8 | 13:45 | 7.69 | 8.44 | 31.9 | 22.66 | 3.6 | 3 | 114 | 0.152 | W |
| B2 | 20200418 | Sunny | Moderate | Mid-Flood | B | 3.8 | 13:45 | 7.57 | 8.42 | 31.6 | 22.87 | 3.59 | 4 | 113 | 0.192 | W |
| B2 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 13:46 | 7.86 | 8.33 | 32.11 | 22.58 | 3.54 | 4 | 112 | 0.181 | W |
| B2 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 13:46 | 8.06 | 8.59 | 32.03 | 22.78 | 3.51 | 5 | 113 | 0.154 | W |
| B3 | 20200418 | Sunny | Moderate | Mid-Flood | B | 3.4 | 14:31 | 7.42 | 8.49 | 31.55 | 22.8 | 4.11 | 4 | 113 | 0.142 | NW |
| B3 | 20200418 | Sunny | Moderate | Mid-Flood | B | 3.4 | 14:31 | 7.83 | 8.55 | 31.63 | 22.69 | 4.13 | 5 | 114 | 0.158 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B3 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:32 | 7.57 | 8.34 | 31.77 | 22.56 | 3.51 | 5 | 113 | 0.181 | NW |
| B3 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:32 | 7.56 | 8.29 | 31.54 | 22.52 | 3.48 | 4 | 114 | 0.174 | NW |
| B4 | 20200418 | Sunny | Moderate | Mid-Flood | B | 3.8 | 14:38 | 7.92 | 8.36 | 31.56 | 22.53 | 4.18 | 3 | 115 | 0.16 | W |
| B4 | 20200418 | Sunny | Moderate | Mid-Flood | B | 3.8 | 14:38 | 7.6 | 8.35 | 32.08 | 22.57 | 3.73 | 2 | 112 | 0.181 | W |
| B4 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:39 | 7.78 | 8.5 | 31.86 | 22.85 | 3.56 | 4 | 112 | 0.159 | W |
| B4 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:39 | 7.57 | 8.38 | 31.94 | 22.84 | 3.1 | 3 | 113 | 0.164 | W |
| C1A | 20200418 | Sunny | Moderate | Mid-Flood | B | 9.8 | 14:50 | 7.78 | 8.59 | 31.97 | 22.63 | 3.98 | 3 | 111 | 0.183 | W |
| C1A | 20200418 | Sunny | Moderate | Mid-Flood | B | 9.8 | 14:50 | 8.05 | 8.39 | 31.71 | 22.8 | 3.96 | 3 | 113 | 0.187 | W |
| C1A | 20200418 | Sunny | Moderate | Mid-Flood | M | 5.4 | 14:51 | 7.97 | 8.46 | 32.05 | 22.75 | 3.53 | 3 | 112 | 0.178 | W |
| C1A | 20200418 | Sunny | Moderate | Mid-Flood | M | 5.4 | 14:51 | 7.93 | 8.36 | 31.74 | 22.7 | 3.23 | 2 | 113 | 0.146 | NW |
| C1A | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:52 | 7.73 | 8.4 | 31.79 | 22.66 | 3.14 | <2 | 111 | 0.142 | W |
| C1A | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:52 | 7.36 | 8.56 | 31.6 | 22.73 | 3.53 | <2 | 112 | 0.169 | W |
| C2A | 20200418 | Sunny | Moderate | Mid-Flood | B | 10.1 | 13:45 | 7.92 | 8.56 | 31.88 | 22.58 | 3.58 | <2 | 114 | 0.139 | W |
| C2A | 20200418 | Sunny | Moderate | Mid-Flood | B | 10.1 | 13:45 | 7.98 | 8.6 | 31.89 | 22.67 | 3.8 | <2 | 112 | 0.167 | NW |
| C2A | 20200418 | Sunny | Moderate | Mid-Flood | M | 5.55 | 13:46 | 7.62 | 8.31 | 31.54 | 22.76 | 3.25 | <2 | 113 | 0.158 | W |
| C2A | 20200418 | Sunny | Moderate | Mid-Flood | M | 5.55 | 13:46 | 7.64 | 8.66 | 32.13 | 22.66 | 3.64 | <2 | 115 | 0.189 | NW |
| C2A | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 13:47 | 7.65 | 8.28 | 31.93 | 22.68 | 3.35 | <2 | 113 | 0.138 | W |
| C2A | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 13:47 | 7.37 | 8.63 | 31.73 | 22.74 | 3.35 | 2 | 114 | 0.174 | W |
| CR1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 11.9 | 14:08 | 8.05 | 8.32 | 32.15 | 22.91 | 3.73 | <2 | 112 | 0.166 | W |
| CR1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 11.9 | 14:08 | 7.9 | 8.48 | 31.73 | 22.54 | 3.82 | 3 | 113 | 0.169 | W |
| CR1 | 20200418 | Sunny | Moderate | Mid-Flood | M | 6.45 | 14:09 | 7.46 | 8.6 | 31.75 | 22.75 | 3.21 | 4 | 114 | 0.151 | W |
| CR1 | 20200418 | Sunny | Moderate | Mid-Flood | M | 6.45 | 14:09 | 7.61 | 8.54 | 31.71 | 22.93 | 3.32 | 4 | 112 | 0.153 | NW |
| CR1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:10 | 7.83 | 8.68 | 32.07 | 22.71 | 3.4 | 3 | 112 | 0.154 | W |
| CR1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:10 | 7.64 | 8.57 | 31.61 | 22.92 | 3.28 | 4 | 115 | 0.156 | NW |
| CR2 | 20200418 | Sunny | Moderate | Mid-Flood | B | 10.5 | 14:23 | 8.02 | 8.27 | 31.67 | 22.71 | 3.53 | 4 | 113 | 0.194 | NW |
| CR2 | 20200418 | Sunny | Moderate | Mid-Flood | B | 10.5 | 14:23 | 7.91 | 8.56 | 31.66 | 22.69 | 3.61 | 3 | 114 | 0.169 | W |
| CR2 | 20200418 | Sunny | Moderate | Mid-Flood | M | 5.75 | 14:24 | 7.61 | 8.48 | 31.71 | 22.65 | 3.17 | 4 | 113 | 0.166 | W |
| CR2 | 20200418 | Sunny | Moderate | Mid-Flood | M | 5.75 | 14:24 | 7.82 | 8.32 | 31.97 | 22.68 | 3.27 | 3 | 113 | 0.171 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR2 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:25 | 7.76 | 8.25 | 31.75 | 22.88 | 2.97 | 4 | 114 | 0.147 | W |
| CR2 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:25 | 7.35 | 8.52 | 31.63 | 22.66 | 2.99 | 4 | 114 | 0.141 | NW |
| F1A | 20200418 | Sunny | Moderate | Mid-Flood | B | 7 | 15:00 | 7.73 | 8.28 | 31.92 | 22.75 | 3.94 | 3 | 112 | 0.192 | W |
| F1A | 20200418 | Sunny | Moderate | Mid-Flood | B | 7 | 15:00 | 7.85 | 8.56 | 32.09 | 22.6 | 3.69 | <2 | 113 | 0.176 | W |
| F1A | 20200418 | Sunny | Moderate | Mid-Flood | M | 4 | 15:01 | 7.72 | 8.31 | 32.03 | 22.62 | 3.44 | 3 | 114 | 0.161 | W |
| F1A | 20200418 | Sunny | Moderate | Mid-Flood | M | 4 | 15:01 | 7.73 | 8.54 | 31.52 | 22.68 | 3.64 | 2 | 113 | 0.156 | W |
| F1A | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 15:02 | 7.99 | 8.4 | 31.56 | 22.68 | 2.97 | 2 | 114 | 0.185 | W |
| F1A | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 15:02 | 7.8 | 8.37 | 32.1 | 22.44 | 3.41 | 3 | 114 | 0.16 | W |
| H1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 6.6 | 15:14 | 7.72 | 8.31 | 32.02 | 22.69 | 3.77 | <2 | 114 | 0.195 | NW |
| H1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 6.6 | 15:14 | 7.82 | 8.38 | 31.75 | 22.45 | 3.65 | <2 | 114 | 0.15 | W |
| H1 | 20200418 | Sunny | Moderate | Mid-Flood | M | 3.8 | 15:15 | 7.44 | 8.35 | 31.53 | 22.46 | 3.7 | <2 | 113 | 0.174 | W |
| H1 | 20200418 | Sunny | Moderate | Mid-Flood | M | 3.8 | 15:15 | 7.94 | 8.52 | 31.72 | 22.73 | 3.21 | <2 | 112 | 0.195 | W |
| H1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 15:16 | 7.69 | 8.54 | 31.69 | 22.58 | 3.51 | 2 | 113 | 0.16 | W |
| H1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 15:16 | 7.57 | 8.54 | 31.55 | 22.82 | 3.38 | <2 | 112 | 0.187 | W |
| M1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 7.5 | 15:21 | 8.08 | 8.58 | 32.12 | 22.51 | 3.74 | 3 | 112 | 0.176 | W |
| M1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 7.5 | 15:21 | 7.38 | 8.32 | 31.64 | 22.76 | 3.78 | 4 | 113 | 0.162 | W |
| M1 | 20200418 | Sunny | Moderate | Mid-Flood | M | 4.25 | 15:22 | 7.86 | 8.29 | 32.15 | 22.47 | 3.71 | 4 | 114 | 0.17 | W |
| M1 | 20200418 | Sunny | Moderate | Mid-Flood | M | 4.25 | 15:22 | 7.38 | 8.36 | 31.71 | 22.4 | 3.31 | 3 | 113 | 0.168 | W |
| M1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 15:23 | 7.59 | 8.29 | 31.99 | 22.63 | 3.06 | 4 | 114 | 0.178 | NW |
| M1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 15:23 | 7.96 | 8.26 | 31.76 | 22.57 | 3.48 | 3 | 113 | 0.142 | W |
| S1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 4 | 13:55 | 7.71 | 8.56 | 31.81 | 22.71 | 3.79 | 4 | 112 | 0.142 | W |
| S1 | 20200418 | Sunny | Moderate | Mid-Flood | B | 4 | 13:55 | 7.43 | 8.29 | 31.88 | 22.66 | 3.76 | 4 | 112 | 0.172 | W |
| S1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 13:56 | 8 | 8.44 | 32.07 | 22.77 | 3.53 | 2 | 113 | 0.141 | W |
| S1 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 13:56 | 7.7 | 8.41 | 31.81 | 22.96 | 3.53 | 2 | 115 | 0.14 | W |
| S2A | 20200418 | Sunny | Moderate | Mid-Flood | B | 8.8 | 14:18 | 7.96 | 8.31 | 31.79 | 22.77 | 3.6 | 4 | 113 | 0.179 | W |
| S2A | 20200418 | Sunny | Moderate | Mid-Flood | B | 8.8 | 14:18 | 8.11 | 8.58 | 32.04 | 22.54 | 3.54 | 4 | 113 | 0.161 | W |
| S2A | 20200418 | Sunny | Moderate | Mid-Flood | M | 4.9 | 14:19 | 8.05 | 8.56 | 31.72 | 22.54 | 3.15 | 2 | 113 | 0.19 | NW |
| S2A | 20200418 | Sunny | Moderate | Mid-Flood | M | 4.9 | 14:19 | 7.74 | 8.55 | 32.08 | 22.58 | 3.48 | 4 | 112 | 0.159 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S2A | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:20 | 7.91 | 8.4 | 31.57 | 22.69 | 3.4 | 5 | 113 | 0.145 | NW |
| S2A | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:20 | 7.48 | 8.4 | 31.63 | 22.69 | 3.22 | 4 | 113 | 0.199 | W |
| S3 | 20200418 | Sunny | Moderate | Mid-Flood | B | 9.8 | 14:32 | 8 | 8.49 | 32.09 | 22.89 | 3.79 | 3 | 112 | 0.183 | W |
| S3 | 20200418 | Sunny | Moderate | Mid-Flood | B | 9.8 | 14:32 | 8.06 | 8.54 | 31.77 | 22.64 | 4.07 | 4 | 111 | 0.19 | W |
| S3 | 20200418 | Sunny | Moderate | Mid-Flood | M | 5.4 | 14:33 | 8.02 | 8.38 | 31.99 | 22.64 | 3.64 | 3 | 112 | 0.194 | W |
| S3 | 20200418 | Sunny | Moderate | Mid-Flood | M | 5.4 | 14:33 | 7.44 | 8.42 | 31.86 | 22.88 | 3.42 | 4 | 113 | 0.146 | W |
| S3 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:34 | 7.61 | 8.45 | 32.03 | 22.52 | 3.52 | 4 | 113 | 0.18 | W |
| S3 | 20200418 | Sunny | Moderate | Mid-Flood | S | 1 | 14:34 | 7.78 | 8.55 | 32.11 | 22.76 | 3.33 | 5 | 114 | 0.157 | W |
| B1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 3.8 | 12:07 | 8.15 | 8.41 | 32.14 | 22.36 | 3.02 | 2 | 113 | 0.244 | SE |
| B1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 3.8 | 12:07 | 7.84 | 8.28 | 31.96 | 22.39 | 3 | 3 | 111 | 0.165 | E |
| B1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:08 | 8.21 | 8.67 | 32.13 | 22.79 | 2.62 | <2 | 112 | 0.22 | SE |
| B1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:08 | 8.39 | 8.62 | 32.01 | 22.8 | 2.6 | <2 | 113 | 0.25 | SE |
| B2 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 4 | 12:25 | 8.57 | 8.4 | 31.83 | 22.94 | 2.98 | 3 | 113 | 0.161 | E |
| B2 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 4 | 12:25 | 8.29 | 8.47 | 32.1 | 22.78 | 3.44 | 2 | 113 | 0.221 | SE |
| B2 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:26 | 8.34 | 8.59 | 31.86 | 22.71 | 2.64 | 4 | 112 | 0.182 | E |
| B2 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:26 | 8.53 | 8.58 | 32.1 | 22.85 | 2.38 | 4 | 112 | 0.173 | SE |
| B3 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 4.3 | 11:37 | 8.42 | 8.55 | 32.22 | 22.72 | 3.12 | <2 | 116 | 0.148 | SE |
| B3 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 4.3 | 11:37 | 7.83 | 8.47 | 31.85 | 22.67 | 3.17 | 3 | 117 | 0.232 | E |
| B3 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:38 | 8.3 | 8.69 | 32.27 | 22.75 | 2.53 | 3 | 118 | 0.232 | SE |
| B3 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:38 | 8.13 | 8.42 | 31.94 | 22.51 | 2.44 | <2 | 115 | 0.18 | SE |
| B4 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 4 | 11:29 | 8.26 | 8.43 | 31.87 | 22.45 | 3.32 | <2 | 116 | 0.176 | E |
| B4 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 4 | 11:29 | 8.39 | 8.31 | 31.85 | 22.73 | 3.27 | 3 | 114 | 0.195 | E |
| B4 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:30 | 8.18 | 8.57 | 32.07 | 22.66 | 2.39 | <2 | 114 | 0.232 | E |
| B4 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:30 | 8.59 | 8.52 | 32.26 | 22.49 | 2.47 | 2 | 116 | 0.174 | E |
| C1A | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 9:42 | 8.02 | 8.64 | 31.99 | 22.42 | 2.9 | 3 | 118 | 0.221 | SE |
| C1A | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 9:42 | 8.03 | 8.31 | 32.01 | 22.2 | 3.09 | 4 | 118 | 0.147 | SE |
| C1A | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 9:43 | 7.76 | 8.54 | 31.84 | 22.57 | 2.58 | 3 | 118 | 0.167 | E |
| C1A | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 9:43 | 7.86 | 8.48 | 32.18 | 22.2 | 2.63 | 3 | 115 | 0.191 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C1A | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:44 | 8.27 | 8.27 | 31.8 | 22.23 | 2.89 | 3 | 114 | 0.148 | SE |
| C1A | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 9:44 | 7.98 | 8.37 | 32.19 | 22.36 | 2.69 | <2 | 115 | 0.171 | SE |
| C2A | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 10.8 | 11:02 | 7.88 | 8.29 | 32.3 | 22.52 | 3.19 | 3 | 117 | 0.202 | SE |
| C2A | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 10.8 | 11:02 | 8.27 | 8.34 | 32.24 | 22.28 | 2.87 | 3 | 118 | 0.168 | E |
| C2A | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 5.9 | 11:03 | 8.49 | 8.18 | 31.82 | 22.57 | 2.42 | 3 | 117 | 0.237 | SE |
| C2A | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 5.9 | 11:03 | 8.26 | 8.28 | 31.92 | 22.82 | 2.49 | 4 | 118 | 0.218 | E |
| C2A | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:04 | 7.72 | 8.61 | 32.3 | 22.77 | 2.66 | 2 | 118 | 0.193 | SE |
| C2A | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:04 | 7.78 | 8.44 | 32.24 | 22.7 | 2.39 | 3 | 115 | 0.241 | SE |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 12.8 | 10:43 | 7.88 | 8.56 | 32.23 | 22.58 | 3.01 | <2 | 119 | 0.213 | SE |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 12.8 | 10:43 | 8.23 | 8.56 | 31.82 | 22.35 | 3.08 | 2 | 115 | 0.149 | SE |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 6.9 | 10:44 | 8.4 | 8.2 | 31.97 | 22.34 | 2.55 | 2 | 116 | 0.218 | SE |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 6.9 | 10:44 | 8.05 | 8.63 | 32.15 | 22.17 | 2.82 | 2 | 116 | 0.155 | SE |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:45 | 8.36 | 8.6 | 31.84 | 22.39 | 2.51 | 2 | 117 | 0.185 | E |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:45 | 7.8 | 8.61 | 32.09 | 22.22 | 2.87 | 2 | 118 | 0.204 | SE |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 10.9 | 10:23 | 8.15 | 8.28 | 32.16 | 22.34 | 2.86 | 2 | 119 | 0.152 | SE |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 10.9 | 10:23 | 8.28 | 8.43 | 32.26 | 22.59 | 3.03 | 2 | 116 | 0.202 | SE |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 5.95 | 10:24 | 8.36 | 8.72 | 31.83 | 22.48 | 2.78 | <2 | 120 | 0.156 | SE |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 5.95 | 10:24 | 8.26 | 8.43 | 31.8 | 22.17 | 2.6 | 3 | 117 | 0.227 | SE |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:25 | 8.37 | 8.48 | 31.95 | 22.31 | 2.71 | 3 | 116 | 0.147 | SE |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:25 | 8.55 | 8.27 | 31.87 | 22.41 | 2.61 | 3 | 115 | 0.238 | E |
| F1A | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 7 | 11:06 | 7.77 | 8.45 | 32.26 | 22.73 | 3.45 | 3 | 116 | 0.186 | SE |
| F1A | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 7 | 11:06 | 8.03 | 8.35 | 31.89 | 22.72 | 3.25 | 3 | 116 | 0.23 | SE |
| F1A | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 4 | 11:07 | 7.91 | 8.65 | 31.89 | 22.62 | 2.62 | 4 | 115 | 0.208 | SE |
| F1A | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 4 | 11:07 | 7.99 | 8.17 | 32.18 | 22.27 | 2.45 | 4 | 116 | 0.208 | SE |
| F1A | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:08 | 7.99 | 8.28 | 32 | 22.53 | 2.83 | 4 | 116 | 0.209 | E |
| F1A | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:08 | 7.84 | 8.73 | 32.02 | 22.47 | 2.74 | 3 | 119 | 0.199 | SE |
| H1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 6.8 | 10:05 | 8.53 | 8.29 | 32.28 | 22.34 | 3.1 | 2 | 115 | 0.17 | E |
| H1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 6.8 | 10:05 | 7.94 | 8.5 | 32 | 22.32 | 3.45 | <2 | 115 | 0.195 | E |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| H1 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 3.9 | 10:06 | 8.23 | 8.67 | 31.87 | 22.25 | 2.73 | 3 | 117 | 0.207 | E |
| H1 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 3.9 | 10:06 | 8.15 | 8.46 | 32.04 | 22.26 | 2.79 | <2 | 115 | 0.175 | E |
| H1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:07 | 8.07 | 8.53 | 31.81 | 22.29 | 2.64 | 2 | 115 | 0.207 | SE |
| H1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:07 | 8.32 | 8.73 | 32.08 | 22.18 | 2.57 | 3 | 117 | 0.184 | SE |
| M1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 8.1 | 10:42 | 8.2 | 8.27 | 32.23 | 22.61 | 3.18 | 3 | 118 | 0.198 | SE |
| M1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 8.1 | 10:42 | 7.83 | 8.5 | 32.04 | 22.67 | 3.21 | 3 | 118 | 0.148 | E |
| M1 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 4.55 | 10:43 | 8.37 | 8.38 | 32.05 | 22.18 | 2.84 | 3 | 115 | 0.204 | E |
| M1 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 4.55 | 10:43 | 7.73 | 8.68 | 32.03 | 22.23 | 2.88 | 4 | 114 | 0.169 | SE |
| M1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:44 | 8.24 | 8.4 | 31.93 | 22.52 | 2.36 | 3 | 115 | 0.208 | E |
| M1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:44 | 8.11 | 8.46 | 32.04 | 22.29 | 2.5 | 4 | 117 | 0.16 | SE |
| S1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 12:16 | 8.11 | 8.5 | 31.94 | 22.48 | 3.06 | <2 | 117 | 0.203 | SE |
| S1 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 12:16 | 7.99 | 8.28 | 32.19 | 22.61 | 2.9 | <2 | 116 | 0.24 | E |
| S1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:17 | 7.74 | 8.52 | 31.8 | 22.49 | 2.37 | 3 | 115 | 0.153 | E |
| S1 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:17 | 7.86 | 8.46 | 32.02 | 22.8 | 2.31 | <2 | 116 | 0.229 | E |
| S2A | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 11:53 | 8.12 | 8.17 | 31.94 | 22.33 | 3.08 | 4 | 117 | 0.247 | SE |
| S2A | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 11:53 | 8.53 | 8.42 | 32.04 | 22.72 | 3.02 | 3 | 114 | 0.172 | SE |
| S2A | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 11:54 | 7.89 | 8.39 | 31.9 | 22.9 | 2.68 | 4 | 114 | 0.187 | E |
| S2A | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 11:54 | 7.89 | 8.58 | 31.97 | 22.59 | 2.49 | 3 | 112 | 0.173 | SE |
| S2A | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:55 | 8.55 | 8.44 | 32.02 | 22.75 | 2.76 | 5 | 117 | 0.209 | SE |
| S2A | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:55 | 8.3 | 8.18 | 31.86 | 22.48 | 2.76 | 6 | 118 | 0.247 | SE |
| S3 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 10.6 | 10:33 | 8.4 | 8.25 | 32.19 | 22.56 | 3.43 | 2 | 119 | 0.221 | E |
| S3 | 20200420 | Cloudy | Moderate | Mid-Ebb | B | 10.6 | 10:33 | 7.8 | 8.31 | 31.89 | 22.7 | 3.02 | 3 | 116 | 0.19 | E |
| S3 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 5.8 | 10:34 | 7.82 | 8.39 | 32.2 | 22.19 | 2.81 | 4 | 115 | 0.206 | SE |
| S3 | 20200420 | Cloudy | Moderate | Mid-Ebb | M | 5.8 | 10:34 | 8.34 | 8.31 | 31.9 | 22.43 | 2.6 | 3 | 114 | 0.19 | E |
| S3 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:35 | 7.85 | 8.52 | 32.22 | 22.28 | 2.79 | 4 | 118 | 0.216 | E |
| S3 | 20200420 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:35 | 8.5 | 8.52 | 31.82 | 22.6 | 2.74 | 3 | 115 | 0.247 | SE |
| B1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 14:43 | 8.4 | 8.68 | 31.98 | 22.91 | 3.41 | <2 | 110 | 0.196 | W |
| B1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 14:43 | 8.03 | 8.22 | 32.06 | 22.49 | 3.42 | 3 | 111 | 0.231 | NW |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:44 | 8.5 | 8.61 | 31.71 | 22.88 | 2.82 | <2 | 112 | 0.236 | W |
| B1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:44 | 7.96 | 8.56 | 31.79 | 22.75 | 2.73 | 2 | 112 | 0.254 | W |
| B2 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 3.6 | 14:23 | 8.37 | 8.57 | 32.31 | 22.95 | 2.89 | 2 | 110 | 0.257 | W |
| B2 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 3.6 | 14:23 | 8.45 | 8.17 | 32.2 | 22.48 | 3.08 | <2 | 110 | 0.176 | W |
| B2 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:24 | 8.08 | 8.33 | 32.08 | 22.51 | 2.54 | <2 | 110 | 0.212 | NW |
| B2 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:24 | 7.97 | 8.34 | 32.09 | 22.66 | 2.37 | 2 | 110 | 0.18 | NW |
| B3 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 15:10 | 7.85 | 8.58 | 32.08 | 22.51 | 3.41 | 2 | 110 | 0.249 | W |
| B3 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 15:10 | 8.22 | 8.2 | 31.96 | 22.72 | 3.2 | 2 | 109 | 0.188 | W |
| B3 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:11 | 7.93 | 8.24 | 32.19 | 22.41 | 2.9 | 2 | 110 | 0.218 | W |
| B3 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:11 | 8.43 | 8.72 | 31.86 | 22.5 | 2.42 | <2 | 109 | 0.257 | W |
| B4 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 3.6 | 15:18 | 7.85 | 8.73 | 32.23 | 22.5 | 3.16 | 3 | 112 | 0.215 | W |
| B4 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 3.6 | 15:18 | 8.1 | 8.37 | 31.78 | 22.84 | 3.47 | 2 | 111 | 0.185 | W |
| B4 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:19 | 8.06 | 8.59 | 31.86 | 22.59 | 2.82 | 2 | 110 | 0.213 | W |
| B4 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:19 | 8.58 | 8.46 | 32.3 | 22.45 | 2.71 | <2 | 110 | 0.245 | W |
| C1A | 20200420 | Cloudy | Moderate | Mid-Flood | B | 10.6 | 15:29 | 8.34 | 8.67 | 32.09 | 22.34 | 3.44 | 4 | 110 | 0.192 | NW |
| C1A | 20200420 | Cloudy | Moderate | Mid-Flood | B | 10.6 | 15:29 | 8.03 | 8.3 | 32.12 | 22.34 | 3.18 | 4 | 110 | 0.237 | W |
| C1A | 20200420 | Cloudy | Moderate | Mid-Flood | M | 5.8 | 15:30 | 8.57 | 8.56 | 32.31 | 22.44 | 2.94 | 4 | 110 | 0.256 | W |
| C1A | 20200420 | Cloudy | Moderate | Mid-Flood | M | 5.8 | 15:30 | 7.85 | 8.13 | 31.72 | 22.79 | 2.81 | 3 | 110 | 0.243 | W |
| C1A | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:31 | 7.92 | 8.59 | 31.98 | 22.85 | 2.63 | 4 | 112 | 0.17 | NW |
| C1A | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:31 | 8.03 | 8.28 | 32.27 | 22.46 | 2.85 | 3 | 111 | 0.21 | NW |
| C2A | 20200420 | Cloudy | Moderate | Mid-Flood | B | 10 | 14:23 | 8.58 | 8.3 | 32.19 | 22.89 | 3.29 | 3 | 110 | 0.181 | NW |
| C2A | 20200420 | Cloudy | Moderate | Mid-Flood | B | 10 | 14:23 | 8.2 | 8.46 | 32.27 | 22.44 | 3.36 | 4 | 111 | 0.19 | W |
| C2A | 20200420 | Cloudy | Moderate | Mid-Flood | M | 5.5 | 14:24 | 8.08 | 8.25 | 32.05 | 22.61 | 2.77 | 4 | 110 | 0.177 | W |
| C2A | 20200420 | Cloudy | Moderate | Mid-Flood | M | 5.5 | 14:24 | 7.93 | 8.69 | 32 | 22.33 | 2.55 | 5 | 110 | 0.168 | W |
| C2A | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:25 | 8.55 | 8.37 | 32.02 | 22.94 | 2.8 | 4 | 110 | 0.204 | W |
| C2A | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:25 | 8.6 | 8.22 | 31.73 | 22.43 | 2.86 | 5 | 110 | 0.229 | W |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 11.1 | 14:46 | 8.27 | 8.57 | 31.94 | 22.55 | 3.42 | 4 | 112 | 0.203 | NW |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 11.1 | 14:46 | 8.11 | 8.65 | 32.06 | 22.65 | 2.88 | 3 | 109 | 0.229 | W |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR1 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 6.05 | 14:47 | 8.26 | 8.38 | 32.16 | 22.36 | 2.83 | 4 | 110 | 0.199 | W |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 6.05 | 14:47 | 8.17 | 8.71 | 31.92 | 22.78 | 2.88 | 4 | 111 | 0.21 | W |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:48 | 8.48 | 8.44 | 31.98 | 22.79 | 2.48 | 3 | 110 | 0.168 | W |
| CR1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:48 | 8.09 | 8.17 | 32.13 | 22.34 | 2.56 | 4 | 109 | 0.203 | W |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 10 | 15:02 | 8.47 | 8.15 | 32.29 | 22.44 | 2.88 | 2 | 109 | 0.258 | W |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 10 | 15:02 | 8.15 | 8.46 | 32.2 | 22.36 | 3.27 | 3 | 111 | 0.171 | W |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 5.5 | 15:03 | 7.99 | 8.37 | 31.95 | 22.51 | 2.62 | 3 | 111 | 0.26 | NW |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 5.5 | 15:03 | 8.14 | 8.44 | 32.07 | 22.52 | 2.78 | <2 | 110 | 0.246 | W |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:04 | 8.43 | 8.4 | 31.72 | 22.26 | 2.35 | 3 | 110 | 0.192 | W |
| CR2 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:04 | 8.23 | 8.22 | 32.32 | 22.58 | 2.78 | 3 | 110 | 0.26 | W |
| F1A | 20200420 | Cloudy | Moderate | Mid-Flood | B | 6.8 | 15:40 | 7.91 | 8.45 | 32.04 | 22.51 | 3.09 | 2 | 110 | 0.183 | W |
| F1A | 20200420 | Cloudy | Moderate | Mid-Flood | B | 6.8 | 15:40 | 8.52 | 8.27 | 32.32 | 22.33 | 3.28 | 3 | 110 | 0.207 | W |
| F1A | 20200420 | Cloudy | Moderate | Mid-Flood | M | 3.9 | 15:41 | 8.44 | 8.11 | 31.78 | 22.57 | 2.65 | 3 | 110 | 0.251 | W |
| F1A | 20200420 | Cloudy | Moderate | Mid-Flood | M | 3.9 | 15:41 | 8.3 | 8.33 | 32.11 | 22.48 | 2.91 | 3 | 110 | 0.22 | W |
| F1A | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:42 | 8.09 | 8.69 | 31.73 | 22.46 | 2.61 | 3 | 111 | 0.206 | W |
| F1A | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:42 | 8.36 | 8.54 | 31.78 | 22.87 | 2.9 | 4 | 109 | 0.209 | W |
| H1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 7.4 | 15:53 | 8.18 | 8.45 | 32.17 | 22.55 | 3.2 | 4 | 109 | 0.176 | W |
| H1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 7.4 | 15:53 | 7.9 | 8.51 | 31.8 | 22.57 | 3.27 | 3 | 109 | 0.241 | NW |
| H1 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 4.2 | 15:54 | 8.4 | 8.53 | 31.7 | 22.62 | 2.75 | 3 | 111 | 0.245 | NW |
| H1 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 4.2 | 15:54 | 8.42 | 8.48 | 31.73 | 22.69 | 2.65 | 3 | 110 | 0.223 | W |
| H1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:55 | 8.42 | 8.56 | 32.11 | 22.76 | 2.63 | 3 | 111 | 0.193 | NW |
| H1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:55 | 7.99 | 8.34 | 32.14 | 22.73 | 2.57 | 3 | 111 | 0.185 | W |
| M1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 6.6 | 16:03 | 8.02 | 8.34 | 32.04 | 22.43 | 2.88 | 3 | 111 | 0.242 | W |
| M1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 6.6 | 16:03 | 8.46 | 8.11 | 32 | 22.7 | 3.12 | <2 | 111 | 0.246 | W |
| M1 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 3.8 | 16:04 | 7.93 | 8.77 | 32.27 | 22.83 | 2.67 | 3 | 109 | 0.221 | W |
| M1 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 3.8 | 16:04 | 7.86 | 8.47 | 31.72 | 22.5 | 2.72 | 2 | 109 | 0.169 | NW |
| M1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:05 | 8.46 | 8.44 | 31.9 | 22.53 | 2.84 | 3 | 109 | 0.198 | W |
| M1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:05 | 8.25 | 8.26 | 31.85 | 22.46 | 2.52 | 4 | 110 | 0.253 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 14:34 | 8.43 | 8.54 | 32.19 | 22.52 | 3.18 | 3 | 110 | 0.192 | W |
| S1 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 4.3 | 14:34 | 8.61 | 8.76 | 31.77 | 22.61 | 2.99 | 4 | 111 | 0.174 | W |
| S1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:35 | 8.46 | 8.58 | 31.71 | 22.38 | 2.48 | 3 | 110 | 0.259 | W |
| S1 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:35 | 8.14 | 8.17 | 32.11 | 22.34 | 2.37 | 3 | 110 | 0.243 | W |
| S2A | 20200420 | Cloudy | Moderate | Mid-Flood | B | 8.5 | 14:57 | 8.43 | 8.15 | 32.22 | 22.39 | 3.38 | 3 | 110 | 0.222 | W |
| S2A | 20200420 | Cloudy | Moderate | Mid-Flood | B | 8.5 | 14:57 | 8.54 | 8.65 | 32.33 | 22.41 | 3.04 | <2 | 109 | 0.247 | W |
| S2A | 20200420 | Cloudy | Moderate | Mid-Flood | M | 4.75 | 14:58 | 7.99 | 8.14 | 32.35 | 22.53 | 2.89 | 3 | 111 | 0.25 | W |
| S2A | 20200420 | Cloudy | Moderate | Mid-Flood | M | 4.75 | 14:58 | 8.61 | 8.7 | 32.19 | 22.43 | 2.64 | 2 | 111 | 0.202 | NW |
| S2A | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:59 | 8.06 | 8.47 | 32.34 | 22.48 | 2.82 | 4 | 111 | 0.19 | NW |
| S2A | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 14:59 | 8.42 | 8.18 | 32.01 | 22.42 | 2.39 | 4 | 110 | 0.202 | W |
| S3 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 8.6 | 15:10 | 8.46 | 8.64 | 31.72 | 22.84 | 3.42 | 4 | 111 | 0.182 | NW |
| S3 | 20200420 | Cloudy | Moderate | Mid-Flood | B | 8.6 | 15:10 | 8.21 | 8.46 | 32.23 | 22.81 | 3.12 | 3 | 112 | 0.211 | W |
| S3 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 4.8 | 15:11 | 7.91 | 8.33 | 32.09 | 22.44 | 2.84 | 3 | 111 | 0.171 | NW |
| S3 | 20200420 | Cloudy | Moderate | Mid-Flood | M | 4.8 | 15:11 | 7.98 | 8.38 | 32.2 | 22.71 | 2.77 | 3 | 111 | 0.242 | W |
| S3 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:12 | 7.92 | 8.59 | 32.12 | 22.65 | 2.89 | 2 | 110 | 0.192 | W |
| S3 | 20200420 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:12 | 8.37 | 8.63 | 31.78 | 22.35 | 3.02 | 3 | 110 | 0.22 | W |
| B1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 3.6 | 12:49 | 8.62 | 8.24 | 31.74 | 21.85 | 3.25 | 2 | 112 | 0.128 | SE |
| B1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 3.6 | 12:49 | 8.33 | 8.57 | 31.77 | 21.49 | 3.52 | 4 | 112 | 0.203 | SE |
| B1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:50 | 8.41 | 8.28 | 31.74 | 21.49 | 3.1 | 3 | 111 | 0.214 | SE |
| B1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:50 | 8.4 | 8.32 | 31.81 | 21.56 | 2.67 | 2 | 113 | 0.148 | SE |
| B2 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 4.2 | 13:08 | 8.66 | 8.4 | 31.64 | 21.78 | 3.61 | <2 | 111 | 0.181 | SE |
| B2 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 4.2 | 13:08 | 8.49 | 8.61 | 31.72 | 21.8 | 3.5 | <2 | 112 | 0.146 | SE |
| B2 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:09 | 8.57 | 8.58 | 31.88 | 21.66 | 2.6 | 2 | 112 | 0.146 | SE |
| B2 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 13:09 | 8.11 | 8.44 | 31.62 | 21.85 | 2.92 | <2 | 113 | 0.135 | SE |
| B3 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 4.4 | 12:21 | 8.15 | 8.2 | 31.69 | 21.49 | 3.34 | <2 | 112 | 0.213 | SE |
| B3 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 4.4 | 12:21 | 8.55 | 8.46 | 31.76 | 21.69 | 3.45 | <2 | 112 | 0.157 | SE |
| B3 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:22 | 8.41 | 8.34 | 31.78 | 21.55 | 3.06 | <2 | 114 | 0.22 | SE |
| B3 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:22 | 8.63 | 8.56 | 31.97 | 21.86 | 3.1 | <2 | 111 | 0.195 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B4 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 3.4 | 12:13 | 8.69 | 8.33 | 31.85 | 21.41 | 3.37 | 4 | 112 | 0.149 | SE |
| B4 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 3.4 | 12:13 | 8.36 | 8.16 | 31.82 | 21.63 | 3.65 | 3 | 110 | 0.218 | E |
| B4 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:14 | 7.98 | 8.38 | 31.83 | 21.59 | 2.99 | <2 | 112 | 0.173 | SE |
| B4 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:14 | 8.61 | 8.61 | 31.6 | 21.75 | 3 | 2 | 111 | 0.167 | SE |
| C1A | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 8.8 | 10:31 | 8.31 | 8.63 | 31.76 | 21.53 | 3.49 | 3 | 111 | 0.188 | SE |
| C1A | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 8.8 | 10:31 | 8.48 | 8.33 | 32.19 | 21.6 | 3.47 | 2 | 112 | 0.175 | E |
| C1A | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 4.9 | 10:32 | 8.6 | 8.38 | 31.7 | 21.56 | 2.92 | <2 | 111 | 0.206 | E |
| C1A | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 4.9 | 10:32 | 8.67 | 8.18 | 31.61 | 21.41 | 2.81 | 3 | 111 | 0.177 | SE |
| C1A | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:33 | 8.47 | 8.56 | 31.76 | 21.63 | 2.79 | <2 | 113 | 0.156 | SE |
| C1A | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 10:33 | 8.26 | 8.54 | 32.03 | 21.58 | 2.9 | 2 | 112 | 0.173 | SE |
| C2A | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 11.2 | 12:01 | 8.59 | 8.39 | 32.01 | 21.37 | 3.54 | 2 | 112 | 0.152 | E |
| C2A | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 11.2 | 12:01 | 7.97 | 8.36 | 31.67 | 21.69 | 3.61 | 2 | 112 | 0.164 | SE |
| C2A | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 6.1 | 12:02 | 8.51 | 8.59 | 32.05 | 21.6 | 2.99 | 3 | 112 | 0.131 | SE |
| C2A | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 6.1 | 12:02 | 8.38 | 8.36 | 31.73 | 21.64 | 3.05 | <2 | 112 | 0.175 | SE |
| C2A | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:03 | 8.57 | 8.63 | 32.14 | 21.7 | 2.85 | <2 | 112 | 0.153 | SE |
| C2A | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:03 | 8.06 | 8.54 | 31.99 | 21.56 | 2.88 | 2 | 113 | 0.147 | E |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 12 | 11:39 | 8.43 | 8.59 | 31.64 | 21.65 | 3.21 | <2 | 112 | 0.222 | SE |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 12 | 11:39 | 8.09 | 8.25 | 31.85 | 21.75 | 3.36 | 2 | 110 | 0.14 | E |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 6.5 | 11:40 | 7.94 | 8.33 | 31.72 | 21.41 | 2.95 | 2 | 110 | 0.208 | SE |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 6.5 | 11:40 | 8.43 | 8.39 | 31.68 | 21.49 | 2.91 | <2 | 113 | 0.159 | E |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:41 | 8.5 | 8.54 | 31.91 | 21.7 | 3.06 | <2 | 110 | 0.199 | SE |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:41 | 7.95 | 8.62 | 32.08 | 21.47 | 2.8 | 2 | 113 | 0.187 | E |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 10 | 11:17 | 7.98 | 8.48 | 31.7 | 21.73 | 3.33 | 2 | 112 | 0.22 | SE |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 10 | 11:17 | 8.15 | 8.23 | 31.96 | 21.47 | 3.48 | 2 | 111 | 0.201 | SE |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 5.5 | 11:18 | 8.44 | 8.58 | 31.84 | 21.74 | 2.83 | <2 | 112 | 0.129 | E |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 5.5 | 11:18 | 8.03 | 8.19 | 31.82 | 21.72 | 2.76 | 2 | 111 | 0.198 | E |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:19 | 8.39 | 8.16 | 31.76 | 21.71 | 2.95 | <2 | 112 | 0.131 | E |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:19 | 7.98 | 8.46 | 31.87 | 21.53 | 2.82 | <2 | 112 | 0.167 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| F1A | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 7.4 | 11:51 | 8.11 | 8.6 | 31.86 | 21.39 | 3.41 | <2 | 111 | 0.151 | SE |
| F1A | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 7.4 | 11:51 | 7.94 | 8.45 | 31.77 | 21.54 | 3.54 | 3 | 112 | 0.18 | SE |
| F1A | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 4.2 | 11:52 | 8.52 | 8.55 | 32.17 | 21.49 | 2.66 | 2 | 114 | 0.172 | E |
| F1A | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 4.2 | 11:52 | 8.11 | 8.17 | 31.83 | 21.44 | 2.8 | 2 | 113 | 0.183 | E |
| F1A | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:53 | 8.22 | 8.55 | 32.02 | 21.74 | 3.04 | <2 | 111 | 0.198 | E |
| F1A | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:53 | 8.42 | 8.22 | 31.93 | 21.72 | 2.99 | <2 | 112 | 0.158 | E |
| H1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 6.9 | 10:59 | 8.35 | 8.22 | 31.75 | 21.54 | 3.15 | <2 | 112 | 0.197 | SE |
| H1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 6.9 | 10:59 | 7.93 | 8.36 | 31.88 | 21.61 | 3.24 | <2 | 113 | 0.216 | SE |
| H1 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 3.95 | 11:00 | 8.41 | 8.32 | 31.69 | 21.63 | 3.2 | 2 | 113 | 0.165 | SE |
| H1 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 3.95 | 11:00 | 8.34 | 8.39 | 31.91 | 21.74 | 2.72 | <2 | 111 | 0.216 | SE |
| H1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:01 | 8.17 | 8.32 | 31.98 | 21.55 | 2.64 | <2 | 110 | 0.134 | SE |
| H1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:01 | 8 | 8.48 | 31.78 | 21.6 | 2.73 | 2 | 111 | 0.198 | E |
| M1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 11:30 | 7.93 | 8.5 | 31.79 | 21.74 | 3.61 | <2 | 112 | 0.146 | SE |
| M1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 8.3 | 11:30 | 8.12 | 8.57 | 31.96 | 21.42 | 3.45 | 3 | 112 | 0.208 | SE |
| M1 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 11:31 | 8.01 | 8.46 | 32.02 | 21.61 | 2.99 | 2 | 110 | 0.182 | E |
| M1 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 4.65 | 11:31 | 8.31 | 8.18 | 31.69 | 21.74 | 2.8 | 2 | 111 | 0.175 | SE |
| M1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:32 | 8.46 | 8.29 | 32.04 | 21.56 | 3.13 | <2 | 111 | 0.196 | E |
| M1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:32 | 8.67 | 8.61 | 31.7 | 21.46 | 3.02 | 2 | 109 | 0.213 | SE |
| S1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 4 | 12:58 | 8.1 | 8.26 | 31.79 | 21.67 | 3.61 | 4 | 111 | 0.19 | SE |
| S1 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 4 | 12:58 | 8.1 | 8.51 | 31.79 | 21.86 | 3.15 | 4 | 111 | 0.194 | SE |
| S1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:59 | 8.23 | 8.58 | 32.07 | 21.49 | 3.04 | 3 | 112 | 0.198 | SE |
| S1 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:59 | 8.63 | 8.33 | 31.65 | 21.77 | 2.78 | 3 | 112 | 0.133 | SE |
| S2A | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 7.8 | 12:35 | 8.58 | 8.35 | 31.83 | 21.5 | 3.28 | <2 | 110 | 0.181 | SE |
| S2A | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 7.8 | 12:35 | 8.56 | 8.23 | 31.92 | 21.87 | 3.63 | <2 | 113 | 0.155 | E |
| S2A | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 4.4 | 12:36 | 8 | 8.22 | 31.89 | 21.71 | 3.11 | <2 | 111 | 0.156 | SE |
| S2A | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 4.4 | 12:36 | 8.28 | 8.46 | 31.61 | 21.69 | 3.04 | 2 | 113 | 0.199 | SE |
| S2A | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:37 | 8.41 | 8.16 | 31.9 | 21.75 | 2.85 | <2 | 112 | 0.138 | E |
| S2A | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:37 | 8.37 | 8.32 | 31.7 | 21.87 | 2.71 | 2 | 111 | 0.186 | E |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S3 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 10.6 | 11:25 | 7.98 | 8.28 | 31.99 | 21.7 | 3.77 | <2 | 111 | 0.173 | E |
| S3 | 20200422 | Cloudy | Moderate | Mid-Ebb | B | 10.6 | 11:25 | 8.47 | 8.36 | 31.84 | 21.47 | 3.8 | <2 | 111 | 0.128 | E |
| S3 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 5.8 | 11:26 | 8.15 | 8.47 | 31.77 | 21.65 | 2.87 | <2 | 112 | 0.127 | E |
| S3 | 20200422 | Cloudy | Moderate | Mid-Ebb | M | 5.8 | 11:26 | 8.12 | 8.61 | 31.76 | 21.5 | 2.69 | 2 | 112 | 0.161 | SE |
| S3 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:27 | 8.53 | 8.54 | 31.92 | 21.54 | 3 | <2 | 114 | 0.222 | SE |
| S3 | 20200422 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:27 | 8.66 | 8.59 | 31.8 | 21.61 | 3.14 | <2 | 111 | 0.173 | E |
| B1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 3.8 | 15:51 | 8.01 | 8.25 | 31.8 | 21.41 | 3.47 | 3 | 111 | 0.15 | NW |
| B1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 3.8 | 15:51 | 8.12 | 8.63 | 31.53 | 21.7 | 3.62 | 4 | 114 | 0.221 | W |
| B1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:52 | 8.17 | 8.15 | 31.59 | 21.79 | 2.93 | <2 | 112 | 0.232 | NW |
| B1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:52 | 7.95 | 8.22 | 31.79 | 21.66 | 2.85 | 3 | 113 | 0.198 | W |
| B2 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 3.7 | 15:33 | 8.71 | 8.22 | 31.94 | 21.36 | 3.44 | <2 | 110 | 0.218 | W |
| B2 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 3.7 | 15:33 | 8.14 | 8.45 | 31.97 | 21.71 | 3.81 | 2 | 111 | 0.215 | W |
| B2 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:34 | 8.56 | 8.49 | 31.97 | 21.62 | 2.84 | <2 | 112 | 0.14 | W |
| B2 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:34 | 7.92 | 8.15 | 31.55 | 21.48 | 2.97 | <2 | 111 | 0.193 | W |
| B3 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 4 | 16:30 | 8.47 | 8.54 | 31.6 | 21.59 | 3.43 | <2 | 110 | 0.196 | NW |
| B3 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 4 | 16:30 | 8.34 | 8.06 | 32.05 | 21.48 | 3.56 | 2 | 110 | 0.185 | NW |
| B3 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:31 | 8.11 | 8.6 | 31.83 | 21.69 | 2.88 | <2 | 110 | 0.159 | NW |
| B3 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:31 | 8.53 | 8.14 | 31.97 | 21.64 | 3.08 | <2 | 111 | 0.197 | NW |
| B4 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:37 | 8.7 | 8.54 | 31.76 | 21.47 | 3.8 | 4 | 110 | 0.17 | W |
| B4 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:37 | 8.18 | 8.38 | 31.62 | 21.63 | 3.59 | 5 | 111 | 0.223 | W |
| B4 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:38 | 8.44 | 8.48 | 32.08 | 21.34 | 2.92 | 2 | 112 | 0.213 | W |
| B4 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:38 | 8.64 | 8.65 | 32.14 | 21.54 | 3.25 | <2 | 111 | 0.156 | W |
| C1A | 20200422 | Cloudy | Moderate | Mid-Flood | B | 11 | 16:37 | 8.38 | 8.68 | 31.99 | 21.66 | 3.3 | 3 | 110 | 0.185 | NW |
| C1A | 20200422 | Cloudy | Moderate | Mid-Flood | B | 11 | 16:37 | 8.71 | 8.21 | 31.78 | 21.65 | 3.49 | 4 | 111 | 0.174 | NW |
| C1A | 20200422 | Cloudy | Moderate | Mid-Flood | M | 6 | 16:38 | 8.2 | 8.21 | 31.58 | 21.66 | 3.25 | 4 | 110 | 0.15 | W |
| C1A | 20200422 | Cloudy | Moderate | Mid-Flood | M | 6 | 16:38 | 8.52 | 8.6 | 31.61 | 21.64 | 2.98 | 5 | 111 | 0.133 | NW |
| C1A | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:39 | 8.06 | 8.18 | 32.15 | 21.56 | 3.25 | 6 | 110 | 0.211 | NW |
| C1A | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:39 | 8.38 | 8.27 | 31.79 | 21.29 | 2.85 | 5 | 111 | 0.151 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C2A | 20200422 | Cloudy | Moderate | Mid-Flood | B | 10.5 | 15:33 | 8.65 | 8.56 | 32.04 | 21.5 | 3.29 | 7 | 111 | 0.198 | W |
| C2A | 20200422 | Cloudy | Moderate | Mid-Flood | B | 10.5 | 15:33 | 8.39 | 8.28 | 31.99 | 21.72 | 3.81 | 6 | 111 | 0.172 | NW |
| C2A | 20200422 | Cloudy | Moderate | Mid-Flood | M | 5.75 | 15:34 | 8.42 | 8.06 | 31.72 | 21.8 | 3.35 | 6 | 111 | 0.227 | NW |
| C2A | 20200422 | Cloudy | Moderate | Mid-Flood | M | 5.75 | 15:34 | 8.26 | 8.13 | 31.97 | 21.67 | 3.27 | 5 | 111 | 0.142 | W |
| C2A | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:35 | 7.88 | 8.3 | 31.67 | 21.52 | 3.12 | 5 | 112 | 0.207 | W |
| C2A | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:35 | 8.29 | 8.1 | 32.14 | 21.75 | 2.75 | 5 | 110 | 0.158 | W |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 12 | 15:57 | 8.26 | 8.4 | 31.58 | 21.56 | 3.26 | 5 | 113 | 0.226 | NW |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 12 | 15:57 | 8.67 | 8.65 | 32.12 | 21.7 | 3.73 | 4 | 111 | 0.185 | W |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 6.5 | 15:58 | 8.47 | 8.39 | 32.12 | 21.43 | 3.23 | 4 | 110 | 0.188 | NW |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 6.5 | 15:58 | 8.06 | 8.07 | 31.8 | 21.67 | 3.01 | 5 | 110 | 0.205 | W |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:59 | 8.21 | 8.5 | 31.67 | 21.72 | 3.22 | 4 | 111 | 0.132 | W |
| CR1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:59 | 8.42 | 8.31 | 31.8 | 21.58 | 3.04 | 5 | 112 | 0.214 | NW |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 10.2 | 16:12 | 8.62 | 8.64 | 31.63 | 21.56 | 3.42 | 4 | 111 | 0.227 | W |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 10.2 | 16:12 | 7.95 | 8.42 | 31.8 | 21.69 | 3.75 | 4 | 110 | 0.221 | W |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 5.6 | 16:13 | 8.5 | 8.59 | 31.8 | 21.31 | 3.04 | 5 | 110 | 0.195 | W |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 5.6 | 16:13 | 8.21 | 8.34 | 31.95 | 21.66 | 2.92 | 4 | 111 | 0.187 | W |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:14 | 8.65 | 8.3 | 32.08 | 21.57 | 2.78 | 4 | 112 | 0.166 | W |
| CR2 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:14 | 7.99 | 8.11 | 31.68 | 21.69 | 3.07 | 2 | 110 | 0.175 | W |
| F1A | 20200422 | Cloudy | Moderate | Mid-Flood | B | 7.7 | 16:59 | 7.91 | 8.17 | 31.55 | 21.28 | 3.75 | 5 | 110 | 0.148 | W |
| F1A | 20200422 | Cloudy | Moderate | Mid-Flood | B | 7.7 | 16:59 | 8.03 | 8.47 | 31.61 | 21.45 | 3.37 | 4 | 110 | 0.21 | W |
| F1A | 20200422 | Cloudy | Moderate | Mid-Flood | M | 4.35 | 17:00 | 7.94 | 8.68 | 32.13 | 21.44 | 3.2 | 6 | 110 | 0.154 | W |
| F1A | 20200422 | Cloudy | Moderate | Mid-Flood | M | 4.35 | 17:00 | 7.98 | 8.68 | 31.5 | 21.38 | 3.14 | 5 | 111 | 0.206 | NW |
| F1A | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:01 | 7.97 | 8.22 | 31.62 | 21.64 | 2.89 | 6 | 110 | 0.221 | W |
| F1A | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:01 | 8.13 | 8.39 | 31.85 | 21.33 | 2.75 | 5 | 111 | 0.137 | W |
| H1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 6.9 | 17:03 | 8.23 | 8.52 | 31.57 | 21.35 | 3.67 | 6 | 111 | 0.169 | NW |
| H1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 6.9 | 17:03 | 7.96 | 8.58 | 32 | 21.29 | 3.65 | 5 | 110 | 0.159 | W |
| H1 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 3.95 | 17:04 | 8.16 | 8.68 | 31.75 | 21.25 | 2.94 | 5 | 111 | 0.189 | W |
| H1 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 3.95 | 17:04 | 8.71 | 8.06 | 31.76 | 21.35 | 3.42 | 4 | 112 | 0.175 | NW |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| H1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:05 | 8.08 | 8.64 | 31.63 | 21.22 | 2.91 | 6 | 110 | 0.18 | W |
| H1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:05 | 8.43 | 8.17 | 31.56 | 21.44 | 2.75 | 5 | 111 | 0.193 | W |
| M1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 6.8 | 17:20 | 8.7 | 8.42 | 31.68 | 21.16 | 3.71 | 4 | 111 | 0.166 | W |
| M1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 6.8 | 17:20 | 7.96 | 8.46 | 32.02 | 21.44 | 3.34 | 5 | 112 | 0.199 | W |
| M1 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 3.9 | 17:21 | 8.17 | 8.41 | 31.74 | 21.35 | 3.13 | 4 | 110 | 0.174 | W |
| M1 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 3.9 | 17:21 | 7.86 | 8.4 | 31.82 | 21.48 | 3.08 | 5 | 112 | 0.218 | NW |
| M1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:22 | 8.23 | 8.2 | 32.14 | 21.34 | 2.88 | 6 | 111 | 0.197 | W |
| M1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:22 | 8 | 8.67 | 31.73 | 21.58 | 3.07 | 5 | 111 | 0.163 | W |
| S1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 15:42 | 8.62 | 8.51 | 32.09 | 21.35 | 3.39 | 4 | 110 | 0.139 | W |
| S1 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 15:42 | 8.39 | 8.37 | 31.52 | 21.47 | 3.29 | 4 | 110 | 0.194 | W |
| S1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:43 | 8.68 | 8.31 | 31.74 | 21.74 | 3.12 | 5 | 110 | 0.146 | NW |
| S1 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 15:43 | 7.93 | 8.44 | 31.63 | 21.46 | 3.29 | 5 | 110 | 0.227 | W |
| S2A | 20200422 | Cloudy | Moderate | Mid-Flood | B | 8 | 16:05 | 8.11 | 8.56 | 31.92 | 21.33 | 3.28 | 6 | 109 | 0.19 | W |
| S2A | 20200422 | Cloudy | Moderate | Mid-Flood | B | 8 | 16:05 | 8.3 | 8.26 | 31.53 | 21.29 | 3.74 | 4 | 109 | 0.209 | W |
| S2A | 20200422 | Cloudy | Moderate | Mid-Flood | M | 4.5 | 16:06 | 8.47 | 8.23 | 32.06 | 21.55 | 3.27 | 5 | 110 | 0.229 | W |
| S2A | 20200422 | Cloudy | Moderate | Mid-Flood | M | 4.5 | 16:06 | 8.23 | 8.25 | 31.64 | 21.41 | 3.31 | 4 | 110 | 0.209 | W |
| S2A | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:07 | 8.01 | 8.35 | 31.59 | 21.59 | 2.89 | 5 | 111 | 0.134 | W |
| S2A | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:07 | 8.52 | 8.33 | 31.65 | 21.34 | 2.79 | 4 | 110 | 0.156 | W |
| S3 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 8.2 | 16:21 | 8.67 | 8.5 | 32.08 | 21.63 | 3.89 | 5 | 110 | 0.228 | NW |
| S3 | 20200422 | Cloudy | Moderate | Mid-Flood | B | 8.2 | 16:21 | 8.13 | 8.24 | 32.01 | 21.7 | 3.83 | 6 | 112 | 0.197 | W |
| S3 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 4.6 | 16:22 | 8.26 | 8.27 | 32.09 | 21.58 | 2.99 | 5 | 110 | 0.131 | W |
| S3 | 20200422 | Cloudy | Moderate | Mid-Flood | M | 4.6 | 16:22 | 8.04 | 8.38 | 31.77 | 21.33 | 3.46 | 6 | 110 | 0.198 | W |
| S3 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:23 | 8.51 | 8.14 | 31.64 | 21.27 | 2.91 | 4 | 110 | 0.188 | W |
| S3 | 20200422 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:23 | 7.98 | 8.19 | 31.95 | 21.41 | 3.37 | 5 | 111 | 0.183 | NW |
| B1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 3.5 | 12:35 | 8 | 8.39 | 30.58 | 20.6 | 3.4 | 3 | 114 | 0.177 | E |
| B1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 3.5 | 12:35 | 8.11 | 8.68 | 30.8 | 20.85 | 3.49 | 2 | 112 | 0.192 | SE |
| B1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:36 | 8.46 | 8.54 | 30.81 | 20.85 | 2.88 | <2 | 112 | 0.165 | SE |
| B1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:36 | 8.26 | 8.71 | 30.69 | 20.56 | 2.89 | <2 | 111 | 0.166 | E |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B2 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 12:53 | 7.96 | 8.69 | 30.71 | 20.89 | 3.62 | 3 | 111 | 0.236 | SE |
| B2 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 12:53 | 8.46 | 8.25 | 30.71 | 20.56 | 3.69 | 3 | 113 | 0.201 | SE |
| B2 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:54 | 8.22 | 8.45 | 31.07 | 20.77 | 3.01 | 2 | 112 | 0.187 | SE |
| B2 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:54 | 8.2 | 8.72 | 30.86 | 20.69 | 3.24 | 2 | 111 | 0.247 | E |
| B3 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 12:05 | 7.64 | 8.4 | 31.02 | 20.73 | 3.97 | <2 | 113 | 0.162 | E |
| B3 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 4.1 | 12:05 | 8.13 | 8.16 | 31.04 | 20.92 | 3.46 | 2 | 113 | 0.181 | E |
| B3 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:06 | 8.13 | 8.52 | 30.51 | 20.81 | 3.36 | 2 | 111 | 0.187 | SE |
| B3 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:06 | 8.47 | 8.45 | 30.91 | 20.87 | 3.31 | <2 | 113 | 0.213 | SE |
| B4 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 3.7 | 11:58 | 8.24 | 8.36 | 30.95 | 20.46 | 3.55 | <2 | 112 | 0.189 | SE |
| B4 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 3.7 | 11:58 | 8.02 | 8.24 | 30.79 | 20.47 | 3.87 | <2 | 113 | 0.18 | SE |
| B4 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:59 | 8.33 | 8.42 | 30.9 | 20.64 | 2.86 | <2 | 112 | 0.2 | SE |
| B4 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:59 | 8.02 | 8.42 | 30.73 | 20.51 | 3.05 | 2 | 112 | 0.249 | SE |
| C1A | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 8.6 | 11:12 | 7.68 | 8.44 | 30.82 | 20.58 | 3.52 | 2 | 113 | 0.195 | E |
| C1A | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 8.6 | 11:12 | 8.01 | 8.44 | 30.7 | 20.78 | 3.53 | 3 | 112 | 0.185 | SE |
| C1A | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.8 | 11:13 | 8.01 | 8.53 | 30.54 | 20.59 | 3.22 | 3 | 114 | 0.173 | SE |
| C1A | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.8 | 11:13 | 7.72 | 8.25 | 30.71 | 20.58 | 2.86 | 3 | 111 | 0.151 | SE |
| C1A | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:14 | 8.08 | 8.41 | 30.91 | 20.64 | 3.01 | 4 | 112 | 0.241 | SE |
| C1A | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:14 | 8.21 | 8.71 | 30.59 | 20.7 | 3.31 | 3 | 113 | 0.176 | SE |
| C2A | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 10.9 | 12:35 | 8.39 | 8.54 | 31.09 | 20.64 | 3.88 | 2 | 112 | 0.156 | SE |
| C2A | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 10.9 | 12:35 | 8.03 | 8.26 | 30.72 | 20.9 | 3.87 | 3 | 114 | 0.251 | E |
| C2A | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 5.95 | 12:36 | 7.84 | 8.53 | 30.62 | 20.67 | 3.02 | 4 | 113 | 0.19 | SE |
| C2A | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 5.95 | 12:36 | 7.78 | 8.41 | 31.02 | 20.63 | 2.97 | 4 | 112 | 0.189 | SE |
| C2A | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:37 | 8.32 | 8.64 | 30.56 | 20.82 | 3.18 | 6 | 113 | 0.235 | SE |
| C2A | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:37 | 7.67 | 8.72 | 30.52 | 20.71 | 2.87 | 5 | 114 | 0.162 | SE |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 12.1 | 12:16 | 7.79 | 8.45 | 30.57 | 20.93 | 3.44 | <2 | 116 | 0.186 | E |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 12.1 | 12:16 | 8.02 | 8.68 | 30.58 | 20.56 | 3.54 | <2 | 115 | 0.22 | SE |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 6.55 | 12:17 | 7.77 | 8.17 | 30.69 | 20.92 | 3.07 | <2 | 115 | 0.177 | E |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 6.55 | 12:17 | 7.66 | 8.16 | 30.68 | 20.72 | 3.07 | <2 | 115 | 0.23 | SE |

Contract No. EP/SP/66/12
 Integrated Waste Management Facilities, Phase 1
 Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:18 | 7.81 | 8.38 | 30.56 | 20.81 | 3.05 | 2 | 116 | 0.19 | E |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:18 | 7.99 | 8.64 | 30.52 | 20.88 | 3.3 | <2 | 116 | 0.178 | SE |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 10.6 | 11:54 | 8.3 | 8.37 | 30.9 | 20.7 | 3.58 | <2 | 113 | 0.218 | SE |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 10.6 | 11:54 | 8.09 | 8.54 | 31.07 | 20.62 | 3.45 | <2 | 113 | 0.229 | SE |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 5.8 | 11:55 | 8.13 | 8.58 | 30.84 | 20.54 | 3.22 | <2 | 117 | 0.24 | SE |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 5.8 | 11:55 | 8.25 | 8.65 | 30.74 | 20.78 | 3.34 | <2 | 115 | 0.249 | E |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:56 | 7.82 | 8.56 | 30.99 | 20.57 | 2.91 | <2 | 114 | 0.196 | E |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:56 | 7.74 | 8.49 | 31.02 | 20.59 | 3.19 | 2 | 115 | 0.246 | SE |
| F1A | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 8.2 | 11:36 | 8.22 | 8.71 | 30.56 | 20.46 | 3.43 | 2 | 115 | 0.225 | SE |
| F1A | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 8.2 | 11:36 | 7.74 | 8.32 | 30.53 | 20.6 | 3.63 | 4 | 113 | 0.211 | SE |
| F1A | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.6 | 11:37 | 7.78 | 8.44 | 30.52 | 20.54 | 2.88 | 3 | 113 | 0.232 | E |
| F1A | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.6 | 11:37 | 8.48 | 8.48 | 30.73 | 20.41 | 3.15 | 4 | 114 | 0.215 | SE |
| F1A | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:38 | 7.78 | 8.71 | 30.5 | 20.84 | 2.84 | 3 | 113 | 0.236 | SE |
| F1A | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:38 | 8.28 | 8.6 | 31.02 | 20.41 | 3.34 | 2 | 114 | 0.185 | SE |
| H1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 7.1 | 11:38 | 7.98 | 8.16 | 30.94 | 20.84 | 3.88 | <2 | 112 | 0.151 | E |
| H1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 7.1 | 11:38 | 7.75 | 8.69 | 30.69 | 20.44 | 3.4 | 3 | 110 | 0.251 | SE |
| H1 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.05 | 11:39 | 8.31 | 8.47 | 30.7 | 20.77 | 2.93 | 2 | 112 | 0.252 | SE |
| H1 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.05 | 11:39 | 7.68 | 8.56 | 30.96 | 20.77 | 2.88 | <2 | 113 | 0.173 | SE |
| H1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:40 | 7.89 | 8.34 | 30.98 | 20.68 | 3.15 | <2 | 111 | 0.207 | SE |
| H1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:40 | 8.26 | 8.27 | 30.51 | 20.49 | 3.34 | 2 | 113 | 0.231 | SE |
| M1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 7.8 | 11:13 | 8.31 | 8.38 | 31 | 20.77 | 3.56 | <2 | 116 | 0.222 | E |
| M1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 7.8 | 11:13 | 7.62 | 8.26 | 30.52 | 20.71 | 3.79 | <2 | 116 | 0.191 | SE |
| M1 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.4 | 11:14 | 8.1 | 8.35 | 30.75 | 20.68 | 2.95 | <2 | 116 | 0.217 | SE |
| M1 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.4 | 11:14 | 7.85 | 8.68 | 30.54 | 20.54 | 3.21 | 2 | 116 | 0.166 | SE |
| M1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:15 | 7.89 | 8.66 | 31.02 | 20.57 | 2.83 | 4 | 115 | 0.235 | SE |
| M1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 11:15 | 7.83 | 8.64 | 31.07 | 20.59 | 3.31 | 3 | 117 | 0.159 | E |
| S1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 4 | 12:44 | 7.81 | 8.16 | 31.09 | 20.93 | 3.67 | <2 | 115 | 0.153 | E |
| S1 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 4 | 12:44 | 7.66 | 8.46 | 30.77 | 20.74 | 3.45 | 3 | 113 | 0.221 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:45 | 8.02 | 8.74 | 30.75 | 20.76 | 3.2 | 3 | 116 | 0.195 | SE |
| S1 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:45 | 7.72 | 8.26 | 30.79 | 20.79 | 3.13 | 4 | 113 | 0.159 | SE |
| S2A | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 8.1 | 12:21 | 7.93 | 8.17 | 30.82 | 20.65 | 3.91 | 3 | 114 | 0.222 | E |
| S2A | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 8.1 | 12:21 | 8.45 | 8.47 | 31.09 | 20.56 | 3.64 | 3 | 116 | 0.176 | SE |
| S2A | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.55 | 12:22 | 8.15 | 8.44 | 30.59 | 20.86 | 3.29 | 4 | 113 | 0.153 | SE |
| S2A | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 4.55 | 12:22 | 8.06 | 8.47 | 30.7 | 20.6 | 3.37 | 3 | 116 | 0.206 | SE |
| S2A | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:23 | 7.88 | 8.64 | 30.76 | 20.82 | 2.86 | 2 | 114 | 0.246 | SE |
| S2A | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:23 | 7.91 | 8.54 | 30.92 | 20.68 | 3.01 | <2 | 115 | 0.203 | SE |
| S3 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 10.1 | 12:06 | 8.37 | 8.52 | 30.56 | 20.62 | 3.51 | 2 | 115 | 0.187 | E |
| S3 | 20200424 | Cloudy | Moderate | Mid-Ebb | B | 10.1 | 12:06 | 8.33 | 8.71 | 31.05 | 20.81 | 3.76 | 3 | 116 | 0.251 | E |
| S3 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 5.55 | 12:07 | 8.4 | 8.66 | 30.67 | 20.86 | 3.14 | 3 | 116 | 0.22 | E |
| S3 | 20200424 | Cloudy | Moderate | Mid-Ebb | M | 5.55 | 12:07 | 8.34 | 8.17 | 30.62 | 20.68 | 2.89 | 2 | 115 | 0.249 | E |
| S3 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:08 | 7.98 | 8.67 | 30.55 | 20.61 | 2.96 | 4 | 114 | 0.214 | E |
| S3 | 20200424 | Cloudy | Moderate | Mid-Ebb | S | 1 | 12:08 | 8.34 | 8.4 | 30.65 | 20.88 | 3.31 | 3 | 116 | 0.222 | SE |
| B1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 16:32 | 7.94 | 8.06 | 30.77 | 20.69 | 3.66 | <2 | 114 | 0.228 | W |
| B1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 4.2 | 16:32 | 7.7 | 8.07 | 30.54 | 20.51 | 3.43 | 2 | 114 | 0.231 | W |
| B1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:33 | 7.8 | 8.36 | 30.82 | 20.78 | 3.08 | 3 | 117 | 0.267 | W |
| B1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:33 | 8.49 | 8.38 | 30.54 | 20.56 | 3.24 | <2 | 114 | 0.177 | W |
| B2 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:58 | 8.5 | 8.2 | 31.18 | 20.68 | 3.29 | <2 | 116 | 0.207 | W |
| B2 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:58 | 7.85 | 8.67 | 31.1 | 20.74 | 3.42 | 2 | 114 | 0.265 | W |
| B2 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:59 | 8.37 | 8.11 | 30.86 | 20.58 | 3.09 | <2 | 114 | 0.224 | W |
| B2 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:59 | 7.8 | 8.39 | 30.57 | 20.54 | 3.06 | 2 | 116 | 0.172 | W |
| B3 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 3.3 | 16:28 | 8.13 | 8.66 | 30.65 | 20.72 | 3.85 | 3 | 114 | 0.218 | W |
| B3 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 3.3 | 16:28 | 7.66 | 8.38 | 30.77 | 20.6 | 3.49 | 2 | 116 | 0.255 | NW |
| B3 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:29 | 8.17 | 8.47 | 30.63 | 20.72 | 3.25 | <2 | 115 | 0.186 | W |
| B3 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:29 | 7.83 | 8.14 | 31 | 20.76 | 2.98 | <2 | 117 | 0.273 | W |
| B4 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:35 | 7.95 | 8.35 | 31.14 | 20.64 | 3.77 | 2 | 114 | 0.173 | W |
| B4 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 3.9 | 16:35 | 8.56 | 8.32 | 30.65 | 20.62 | 3.75 | <2 | 116 | 0.226 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B4 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:36 | 8.45 | 8.48 | 30.96 | 20.71 | 3.21 | 2 | 115 | 0.169 | W |
| B4 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:36 | 7.78 | 8.31 | 30.85 | 20.67 | 3.08 | <2 | 116 | 0.229 | W |
| C1A | 20200424 | Cloudy | Moderate | Mid-Flood | B | 10.4 | 16:01 | 7.76 | 8.18 | 31.14 | 20.85 | 3.49 | 2 | 115 | 0.213 | W |
| C1A | 20200424 | Cloudy | Moderate | Mid-Flood | B | 10.4 | 16:01 | 8.54 | 8.34 | 30.83 | 20.75 | 3.41 | <2 | 115 | 0.246 | NW |
| C1A | 20200424 | Cloudy | Moderate | Mid-Flood | M | 5.7 | 16:02 | 8.23 | 8.45 | 31.05 | 20.75 | 3.29 | 3 | 115 | 0.227 | W |
| C1A | 20200424 | Cloudy | Moderate | Mid-Flood | M | 5.7 | 16:02 | 7.69 | 8.66 | 31.24 | 20.53 | 3.04 | 2 | 115 | 0.248 | W |
| C1A | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:03 | 8.27 | 8.14 | 30.94 | 20.79 | 3 | <2 | 114 | 0.272 | NW |
| C1A | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:03 | 7.77 | 8.1 | 30.55 | 20.63 | 3.28 | 3 | 116 | 0.229 | W |
| C2A | 20200424 | Cloudy | Moderate | Mid-Flood | B | 10.2 | 16:00 | 8.59 | 8.2 | 30.9 | 20.64 | 3.6 | 3 | 114 | 0.221 | W |
| C2A | 20200424 | Cloudy | Moderate | Mid-Flood | B | 10.2 | 16:00 | 8.13 | 8.17 | 31.12 | 20.57 | 3.74 | <2 | 116 | 0.201 | W |
| C2A | 20200424 | Cloudy | Moderate | Mid-Flood | M | 5.6 | 16:01 | 7.75 | 8.51 | 30.57 | 20.64 | 3.03 | 2 | 114 | 0.205 | W |
| C2A | 20200424 | Cloudy | Moderate | Mid-Flood | M | 5.6 | 16:01 | 8.36 | 8.65 | 30.85 | 20.63 | 3.45 | <2 | 114 | 0.246 | W |
| C2A | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:02 | 7.67 | 8.5 | 30.52 | 20.8 | 2.81 | <2 | 115 | 0.28 | W |
| C2A | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:02 | 7.86 | 8.54 | 31.05 | 20.69 | 3.09 | <2 | 115 | 0.19 | W |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 11.9 | 18:02 | 8.29 | 8.52 | 30.51 | 20.41 | 3.63 | 4 | 112 | 0.171 | W |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 11.9 | 18:02 | 8.07 | 8.67 | 30.76 | 20.47 | 3.63 | 3 | 114 | 0.171 | W |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 6.45 | 18:03 | 7.94 | 8.05 | 30.84 | 20.54 | 3.23 | 3 | 116 | 0.238 | W |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 6.45 | 18:03 | 8.39 | 8.61 | 30.77 | 20.54 | 3.48 | 3 | 114 | 0.189 | W |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 18:04 | 7.97 | 8.39 | 30.65 | 20.61 | 2.79 | 3 | 114 | 0.247 | W |
| CR1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 18:04 | 8.13 | 8.48 | 31.14 | 20.42 | 3.04 | <2 | 117 | 0.224 | NW |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 10 | 17:42 | 8.05 | 8.22 | 31.07 | 20.56 | 3.56 | 2 | 114 | 0.206 | W |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 10 | 17:42 | 8.6 | 8.44 | 30.79 | 20.46 | 3.57 | <2 | 114 | 0.195 | W |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 5.5 | 17:43 | 7.83 | 8.46 | 31.16 | 20.6 | 3.12 | 3 | 114 | 0.198 | NW |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 5.5 | 17:43 | 8.15 | 8.5 | 30.51 | 20.67 | 3.5 | 3 | 114 | 0.268 | W |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:44 | 8.53 | 8.24 | 31.06 | 20.67 | 2.82 | <2 | 113 | 0.235 | NW |
| CR2 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:44 | 8.28 | 8.11 | 30.69 | 20.47 | 2.78 | 3 | 113 | 0.171 | W |
| F1A | 20200424 | Cloudy | Moderate | Mid-Flood | B | 7.6 | 16:57 | 8.3 | 8.49 | 30.63 | 20.66 | 3.44 | <2 | 116 | 0.223 | NW |
| F1A | 20200424 | Cloudy | Moderate | Mid-Flood | B | 7.6 | 16:57 | 8.51 | 8.29 | 30.53 | 20.73 | 3.69 | 2 | 114 | 0.243 | NW |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| F1A | 20200424 | Cloudy | Moderate | Mid-Flood | M | 4.3 | 16:58 | 8.17 | 8.53 | 31 | 20.73 | 2.94 | <2 | 115 | 0.258 | W |
| F1A | 20200424 | Cloudy | Moderate | Mid-Flood | M | 4.3 | 16:58 | 8.39 | 8.06 | 31 | 20.72 | 3.45 | <2 | 115 | 0.203 | NW |
| F1A | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:59 | 7.92 | 8.6 | 30.82 | 20.74 | 3.01 | <2 | 117 | 0.195 | W |
| F1A | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:59 | 8.29 | 8.68 | 31 | 20.67 | 3.29 | <2 | 116 | 0.169 | W |
| H1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 7.2 | 16:17 | 7.99 | 8.21 | 30.93 | 20.75 | 3.53 | 3 | 115 | 0.168 | W |
| H1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 7.2 | 16:17 | 8.45 | 8.3 | 30.66 | 20.77 | 3.38 | 2 | 115 | 0.193 | NW |
| H1 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 4.1 | 16:18 | 8.26 | 8.39 | 31.11 | 20.72 | 3.28 | 3 | 116 | 0.237 | W |
| H1 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 4.1 | 16:18 | 7.99 | 8.07 | 30.8 | 20.64 | 3.13 | 2 | 114 | 0.282 | NW |
| H1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:19 | 7.79 | 8.44 | 31.1 | 20.69 | 3.13 | <2 | 116 | 0.202 | NW |
| H1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:19 | 7.96 | 8.48 | 31.06 | 20.57 | 3.05 | 2 | 116 | 0.202 | W |
| M1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 6.5 | 17:16 | 7.75 | 8.46 | 30.69 | 20.58 | 3.72 | 2 | 115 | 0.212 | W |
| M1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 6.5 | 17:16 | 8.55 | 8.49 | 31.21 | 20.66 | 3.52 | 3 | 116 | 0.22 | NW |
| M1 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 3.75 | 17:17 | 8.4 | 8.43 | 30.64 | 20.49 | 3.12 | 2 | 114 | 0.242 | W |
| M1 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 3.75 | 17:17 | 8.51 | 8.37 | 30.74 | 20.78 | 3.35 | 2 | 114 | 0.279 | W |
| M1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:18 | 8.18 | 8.36 | 30.54 | 20.66 | 2.85 | 2 | 115 | 0.276 | W |
| M1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:18 | 8.27 | 8.2 | 30.76 | 20.74 | 3.25 | 3 | 115 | 0.192 | W |
| S1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 4.8 | 16:49 | 7.78 | 8.39 | 30.53 | 20.6 | 3.48 | <2 | 116 | 0.268 | NW |
| S1 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 4.8 | 16:49 | 7.7 | 8.49 | 30.62 | 20.81 | 3.64 | <2 | 116 | 0.215 | W |
| S1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:50 | 7.78 | 8.61 | 30.84 | 20.77 | 2.87 | <2 | 116 | 0.235 | W |
| S1 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 16:50 | 8.03 | 8.1 | 30.58 | 20.59 | 2.93 | <2 | 115 | 0.213 | W |
| S2A | 20200424 | Cloudy | Moderate | Mid-Flood | B | 8.3 | 17:18 | 7.9 | 8.52 | 30.69 | 20.76 | 3.67 | <2 | 116 | 0.244 | W |
| S2A | 20200424 | Cloudy | Moderate | Mid-Flood | B | 8.3 | 17:18 | 8.19 | 8.08 | 31.09 | 20.74 | 3.74 | <2 | 116 | 0.185 | W |
| S2A | 20200424 | Cloudy | Moderate | Mid-Flood | M | 4.65 | 17:19 | 8.49 | 8.47 | 30.8 | 20.73 | 3.19 | <2 | 118 | 0.276 | NW |
| S2A | 20200424 | Cloudy | Moderate | Mid-Flood | M | 4.65 | 17:19 | 7.71 | 8.26 | 30.98 | 20.69 | 3.14 | <2 | 115 | 0.255 | W |
| S2A | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:20 | 8.11 | 8.65 | 30.94 | 20.45 | 3.31 | <2 | 115 | 0.201 | W |
| S2A | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:20 | 8.4 | 8.27 | 31.2 | 20.53 | 3.28 | <2 | 115 | 0.261 | W |
| S3 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 8.1 | 17:50 | 8.33 | 8.47 | 31.11 | 20.37 | 3.42 | 3 | 115 | 0.192 | W |
| S3 | 20200424 | Cloudy | Moderate | Mid-Flood | B | 8.1 | 17:50 | 8 | 8.55 | 31.02 | 20.47 | 3.85 | 2 | 116 | 0.237 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S3 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 4.55 | 17:51 | 8.6 | 8.4 | 30.83 | 20.4 | 3.08 | <2 | 116 | 0.212 | W |
| S3 | 20200424 | Cloudy | Moderate | Mid-Flood | M | 4.55 | 17:51 | 7.89 | 8.65 | 31.07 | 20.69 | 2.94 | 2 | 115 | 0.201 | W |
| S3 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:52 | 7.69 | 8.27 | 30.87 | 20.58 | 3.25 | <2 | 114 | 0.18 | W |
| S3 | 20200424 | Cloudy | Moderate | Mid-Flood | S | 1 | 17:52 | 8.03 | 8.54 | 31.16 | 20.51 | 2.86 | 2 | 117 | 0.244 | W |
| B1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 3.7 | 10:12 | 8.25 | 8.43 | 30.56 | 21.93 | 3.58 | <2 | 116 | 0.272 | W |
| B1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 3.7 | 10:12 | 8.42 | 8.28 | 30.69 | 22.23 | 3.33 | <2 | 118 | 0.181 | W |
| B1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:13 | 8.81 | 8.35 | 30.73 | 21.92 | 3.06 | <2 | 118 | 0.214 | W |
| B1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:13 | 8.62 | 8.65 | 31.03 | 22.06 | 3.04 | <2 | 116 | 0.265 | W |
| B2 | 20200427 | Sunny | Moderate | Mid-Flood | B | 4.2 | 10:36 | 8.63 | 8.65 | 30.42 | 21.99 | 3.28 | <2 | 116 | 0.226 | W |
| B2 | 20200427 | Sunny | Moderate | Mid-Flood | B | 4.2 | 10:36 | 8.78 | 8.61 | 30.98 | 22.11 | 3.59 | <2 | 114 | 0.187 | W |
| B2 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:37 | 8.3 | 8.65 | 30.48 | 22.17 | 2.71 | <2 | 115 | 0.242 | NW |
| B2 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:37 | 8.28 | 8.6 | 30.81 | 22.26 | 2.63 | <2 | 115 | 0.24 | W |
| B3 | 20200427 | Sunny | Moderate | Mid-Flood | B | 4 | 9:29 | 8.44 | 8.43 | 30.41 | 21.85 | 3.16 | <2 | 116 | 0.199 | W |
| B3 | 20200427 | Sunny | Moderate | Mid-Flood | B | 4 | 9:29 | 8.81 | 8.48 | 30.47 | 21.83 | 3.31 | <2 | 115 | 0.232 | W |
| B3 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:30 | 8.39 | 8.57 | 30.75 | 22.13 | 3 | <2 | 117 | 0.254 | NW |
| B3 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:30 | 8.51 | 8.39 | 30.48 | 21.86 | 2.97 | <2 | 118 | 0.241 | NW |
| B4 | 20200427 | Sunny | Moderate | Mid-Flood | B | 4.4 | 9:37 | 8.57 | 8.26 | 30.7 | 22.09 | 3.35 | 2 | 117 | 0.206 | W |
| B4 | 20200427 | Sunny | Moderate | Mid-Flood | B | 4.4 | 9:37 | 8.49 | 8.34 | 30.96 | 22.15 | 3.17 | <2 | 116 | 0.275 | W |
| B4 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:38 | 8.47 | 8.38 | 31 | 22.12 | 2.79 | <2 | 116 | 0.228 | NW |
| B4 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:38 | 8.52 | 8.44 | 31 | 22.09 | 2.92 | <2 | 117 | 0.189 | W |
| C1A | 20200427 | Sunny | Moderate | Mid-Flood | B | 9.6 | 9:42 | 8.8 | 8.68 | 30.47 | 22.01 | 3.19 | 3 | 116 | 0.223 | W |
| C1A | 20200427 | Sunny | Moderate | Mid-Flood | B | 9.6 | 9:42 | 8.8 | 8.43 | 30.93 | 22.01 | 3.3 | 2 | 116 | 0.252 | W |
| C1A | 20200427 | Sunny | Moderate | Mid-Flood | M | 5.3 | 9:43 | 8.72 | 8.56 | 30.45 | 21.99 | 2.66 | <2 | 117 | 0.19 | W |
| C1A | 20200427 | Sunny | Moderate | Mid-Flood | M | 5.3 | 9:43 | 8.34 | 8.5 | 30.41 | 21.93 | 3.13 | 2 | 117 | 0.23 | W |
| C1A | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:44 | 8.48 | 8.61 | 31.04 | 21.93 | 2.53 | <2 | 117 | 0.205 | W |
| C1A | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:44 | 8.38 | 8.26 | 30.4 | 21.89 | 3.06 | <2 | 117 | 0.218 | NW |
| C2A | 20200427 | Sunny | Moderate | Mid-Flood | B | 10.4 | 8:48 | 8.45 | 8.26 | 30.83 | 21.77 | 3.12 | <2 | 118 | 0.228 | W |
| C2A | 20200427 | Sunny | Moderate | Mid-Flood | B | 10.4 | 8:48 | 8.28 | 8.55 | 30.53 | 21.86 | 3.4 | <2 | 118 | 0.184 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C2A | 20200427 | Sunny | Moderate | Mid-Flood | M | 5.7 | 8:49 | 8.69 | 8.38 | 30.54 | 21.78 | 3.11 | <2 | 117 | 0.27 | W |
| C2A | 20200427 | Sunny | Moderate | Mid-Flood | M | 5.7 | 8:49 | 8.42 | 8.54 | 30.56 | 21.93 | 2.67 | <2 | 117 | 0.236 | W |
| C2A | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 8:50 | 8.33 | 8.68 | 30.41 | 21.9 | 3.06 | <2 | 117 | 0.261 | NW |
| C2A | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 8:50 | 8.28 | 8.27 | 30.67 | 21.85 | 2.98 | <2 | 116 | 0.277 | W |
| CR1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 11.1 | 9:01 | 8.65 | 8.59 | 30.42 | 21.84 | 3.54 | 4 | 117 | 0.195 | W |
| CR1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 11.1 | 9:01 | 8.66 | 8.68 | 30.55 | 21.99 | 3.21 | 5 | 116 | 0.216 | W |
| CR1 | 20200427 | Sunny | Moderate | Mid-Flood | M | 6.05 | 9:02 | 8.81 | 8.25 | 30.51 | 21.92 | 3.22 | 6 | 118 | 0.265 | W |
| CR1 | 20200427 | Sunny | Moderate | Mid-Flood | M | 6.05 | 9:02 | 8.64 | 8.58 | 30.54 | 21.83 | 3.25 | 5 | 117 | 0.263 | W |
| CR1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:03 | 8.75 | 8.54 | 31 | 21.84 | 2.65 | 6 | 116 | 0.218 | NW |
| CR1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:03 | 8.66 | 8.57 | 30.83 | 21.87 | 2.49 | 4 | 117 | 0.185 | NW |
| CR2 | 20200427 | Sunny | Moderate | Mid-Flood | B | 9.7 | 9:16 | 8.72 | 8.47 | 30.65 | 21.84 | 3.27 | <2 | 117 | 0.256 | W |
| CR2 | 20200427 | Sunny | Moderate | Mid-Flood | B | 9.7 | 9:16 | 8.45 | 8.66 | 30.92 | 21.94 | 3.58 | 3 | 116 | 0.201 | NW |
| CR2 | 20200427 | Sunny | Moderate | Mid-Flood | M | 5.35 | 9:17 | 8.49 | 8.45 | 30.76 | 22.01 | 3.21 | 4 | 115 | 0.19 | NW |
| CR2 | 20200427 | Sunny | Moderate | Mid-Flood | M | 5.35 | 9:17 | 8.53 | 8.53 | 30.8 | 21.98 | 2.7 | 4 | 117 | 0.208 | W |
| CR2 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:18 | 8.48 | 8.26 | 30.94 | 21.81 | 2.53 | 4 | 116 | 0.254 | W |
| CR2 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:18 | 8.54 | 8.42 | 30.58 | 21.98 | 2.94 | 4 | 115 | 0.265 | W |
| F1A | 20200427 | Sunny | Moderate | Mid-Flood | B | 7 | 10:00 | 8.44 | 8.35 | 30.97 | 22.21 | 3.24 | <2 | 118 | 0.227 | W |
| F1A | 20200427 | Sunny | Moderate | Mid-Flood | B | 7 | 10:00 | 8.45 | 8.65 | 30.77 | 22.19 | 3.04 | 2 | 115 | 0.22 | W |
| F1A | 20200427 | Sunny | Moderate | Mid-Flood | M | 4 | 10:01 | 8.4 | 8.25 | 30.77 | 21.99 | 2.99 | <2 | 117 | 0.174 | W |
| F1A | 20200427 | Sunny | Moderate | Mid-Flood | M | 4 | 10:01 | 8.28 | 8.61 | 31.03 | 21.92 | 3.18 | <2 | 114 | 0.232 | W |
| F1A | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:02 | 8.6 | 8.34 | 30.81 | 22.15 | 3.01 | <2 | 117 | 0.267 | W |
| F1A | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:02 | 8.74 | 8.36 | 30.71 | 22.05 | 2.82 | <2 | 118 | 0.197 | W |
| H1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 7.2 | 9:02 | 8.27 | 8.32 | 30.71 | 21.86 | 3.54 | <2 | 116 | 0.17 | NW |
| H1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 7.2 | 9:02 | 8.49 | 8.46 | 30.84 | 21.81 | 3.57 | <2 | 116 | 0.219 | W |
| H1 | 20200427 | Sunny | Moderate | Mid-Flood | M | 4.1 | 9:03 | 8.71 | 8.38 | 30.78 | 21.85 | 2.78 | <2 | 114 | 0.213 | W |
| H1 | 20200427 | Sunny | Moderate | Mid-Flood | M | 4.1 | 9:03 | 8.52 | 8.36 | 30.88 | 21.77 | 3 | <2 | 116 | 0.232 | W |
| H1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:04 | 8.57 | 8.38 | 30.96 | 22.02 | 3.06 | 2 | 118 | 0.224 | W |
| H1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:04 | 8.5 | 8.4 | 30.87 | 22 | 2.91 | <2 | 117 | 0.245 | W |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| M1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 7.4 | 10:22 | 8.47 | 8.66 | 30.58 | 22.22 | 3.25 | 2 | 118 | 0.198 | W |
| M1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 7.4 | 10:22 | 8.77 | 8.34 | 30.81 | 22.06 | 3.46 | <2 | 116 | 0.226 | W |
| M1 | 20200427 | Sunny | Moderate | Mid-Flood | M | 4.2 | 10:23 | 8.55 | 8.33 | 30.42 | 21.9 | 2.87 | 3 | 116 | 0.21 | NW |
| M1 | 20200427 | Sunny | Moderate | Mid-Flood | M | 4.2 | 10:23 | 8.56 | 8.28 | 30.51 | 22.07 | 2.84 | <2 | 117 | 0.266 | W |
| M1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:24 | 8.47 | 8.28 | 30.77 | 22.12 | 2.67 | 3 | 114 | 0.184 | W |
| M1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:24 | 8.27 | 8.55 | 30.82 | 22.16 | 2.58 | 2 | 115 | 0.174 | W |
| S1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 4.8 | 10:28 | 8.81 | 8.64 | 30.68 | 22.08 | 3.45 | <2 | 116 | 0.25 | NW |
| S1 | 20200427 | Sunny | Moderate | Mid-Flood | B | 4.8 | 10:28 | 8.36 | 8.53 | 30.59 | 22.23 | 3.07 | <2 | 115 | 0.248 | NW |
| S1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:29 | 8.8 | 8.39 | 30.91 | 21.96 | 2.47 | <2 | 117 | 0.187 | W |
| S1 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 10:29 | 8.34 | 8.54 | 31.03 | 22.04 | 2.95 | 2 | 117 | 0.256 | W |
| S2A | 20200427 | Sunny | Moderate | Mid-Flood | B | 8.8 | 9:14 | 8.52 | 8.29 | 30.69 | 22.04 | 3.21 | 5 | 117 | 0.225 | W |
| S2A | 20200427 | Sunny | Moderate | Mid-Flood | B | 8.8 | 9:14 | 8.67 | 8.27 | 30.61 | 21.85 | 3.27 | 5 | 117 | 0.259 | W |
| S2A | 20200427 | Sunny | Moderate | Mid-Flood | M | 4.9 | 9:15 | 8.66 | 8.62 | 30.98 | 21.84 | 3.1 | 5 | 119 | 0.184 | W |
| S2A | 20200427 | Sunny | Moderate | Mid-Flood | M | 4.9 | 9:15 | 8.32 | 8.37 | 30.42 | 21.91 | 3.04 | 5 | 117 | 0.193 | NW |
| S2A | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:16 | 8.38 | 8.51 | 30.76 | 21.99 | 2.7 | 4 | 116 | 0.231 | W |
| S2A | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:16 | 8.49 | 8.52 | 30.55 | 22 | 2.51 | 5 | 115 | 0.271 | W |
| S3 | 20200427 | Sunny | Moderate | Mid-Flood | B | 9.6 | 9:24 | 8.32 | 8.38 | 30.84 | 21.85 | 3.27 | 5 | 117 | 0.208 | W |
| S3 | 20200427 | Sunny | Moderate | Mid-Flood | B | 9.6 | 9:24 | 8.29 | 8.31 | 30.65 | 21.81 | 3.56 | 6 | 118 | 0.184 | W |
| S3 | 20200427 | Sunny | Moderate | Mid-Flood | M | 5.3 | 9:25 | 8.29 | 8.42 | 30.59 | 21.97 | 3.02 | 5 | 118 | 0.218 | W |
| S3 | 20200427 | Sunny | Moderate | Mid-Flood | M | 5.3 | 9:25 | 8.44 | 8.58 | 30.96 | 21.97 | 2.94 | 6 | 118 | 0.252 | W |
| S3 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:26 | 8.55 | 8.66 | 30.99 | 21.98 | 2.75 | 5 | 118 | 0.221 | W |
| S3 | 20200427 | Sunny | Moderate | Mid-Flood | S | 1 | 9:26 | 8.28 | 8.54 | 30.43 | 21.85 | 2.84 | 4 | 117 | 0.172 | W |
| B1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 13:22 | 8.66 | 8.48 | 30.35 | 22.69 | 3.44 | 3 | 116 | 0.148 | E |
| B1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 13:22 | 8.29 | 8.37 | 30.2 | 22.73 | 3.32 | 3 | 118 | 0.158 | E |
| B1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:23 | 8.44 | 8.66 | 30.85 | 22.73 | 2.83 | <2 | 116 | 0.184 | SE |
| B1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:23 | 8.69 | 8.61 | 30.3 | 22.62 | 2.99 | 2 | 114 | 0.208 | E |
| B2 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 4.3 | 13:04 | 8.16 | 8.47 | 30.78 | 22.5 | 3.3 | 2 | 117 | 0.182 | SE |
| B2 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 4.3 | 13:04 | 8.63 | 8.46 | 30.71 | 22.46 | 3.32 | 2 | 120 | 0.232 | SE |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| B2 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:05 | 8.19 | 8.49 | 30.58 | 22.49 | 2.58 | 2 | 116 | 0.182 | E |
| B2 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:05 | 8.87 | 8.52 | 30.56 | 22.77 | 2.78 | 3 | 118 | 0.227 | SE |
| B3 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 3.8 | 13:46 | 8.16 | 8.52 | 30.56 | 22.63 | 3.29 | <2 | 116 | 0.215 | SE |
| B3 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 3.8 | 13:46 | 8.36 | 8.68 | 30.79 | 22.49 | 3.23 | 3 | 116 | 0.181 | SE |
| B3 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:47 | 8.89 | 8.66 | 30.55 | 22.74 | 3.13 | 4 | 117 | 0.17 | E |
| B3 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:47 | 8.69 | 8.36 | 30.4 | 22.77 | 2.56 | 5 | 115 | 0.162 | SE |
| B4 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 3.7 | 13:55 | 8.25 | 8.57 | 30.54 | 22.7 | 3.61 | 6 | 118 | 0.191 | E |
| B4 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 3.7 | 13:55 | 8.33 | 8.55 | 30.49 | 22.78 | 3.53 | 7 | 117 | 0.177 | SE |
| B4 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:56 | 8.57 | 8.68 | 30.53 | 23.02 | 3.09 | <2 | 116 | 0.192 | E |
| B4 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:56 | 8.74 | 8.39 | 30.38 | 22.66 | 2.62 | <2 | 118 | 0.193 | SE |
| C1A | 20200427 | Sunny | Moderate | Mid-Ebb | B | 8.5 | 13:02 | 8.6 | 8.53 | 30.48 | 22.65 | 3.36 | 5 | 118 | 0.241 | SE |
| C1A | 20200427 | Sunny | Moderate | Mid-Ebb | B | 8.5 | 13:02 | 8.44 | 8.47 | 30.41 | 22.42 | 3.46 | 6 | 117 | 0.171 | SE |
| C1A | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.75 | 13:03 | 8.3 | 8.65 | 30.5 | 22.43 | 3.03 | 7 | 117 | 0.244 | E |
| C1A | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.75 | 13:03 | 8.34 | 8.44 | 30.21 | 22.75 | 2.58 | 7 | 118 | 0.213 | SE |
| C1A | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:04 | 8.12 | 8.58 | 30.51 | 22.71 | 2.71 | 7 | 117 | 0.204 | SE |
| C1A | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:04 | 8.25 | 8.4 | 30.61 | 22.62 | 2.59 | 7 | 118 | 0.179 | SE |
| C2A | 20200427 | Sunny | Moderate | Mid-Ebb | B | 11.2 | 14:23 | 8.52 | 8.5 | 30.33 | 22.63 | 3.18 | 6 | 116 | 0.186 | SE |
| C2A | 20200427 | Sunny | Moderate | Mid-Ebb | B | 11.2 | 14:23 | 8.38 | 8.42 | 30.78 | 22.83 | 3.52 | 7 | 118 | 0.251 | E |
| C2A | 20200427 | Sunny | Moderate | Mid-Ebb | M | 6.1 | 14:24 | 8.46 | 8.66 | 30.71 | 22.77 | 3 | 6 | 119 | 0.149 | SE |
| C2A | 20200427 | Sunny | Moderate | Mid-Ebb | M | 6.1 | 14:24 | 8.84 | 8.66 | 30.88 | 22.87 | 2.56 | 6 | 119 | 0.153 | SE |
| C2A | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:25 | 8.59 | 8.37 | 30.87 | 22.84 | 2.81 | 7 | 116 | 0.152 | E |
| C2A | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:25 | 8.8 | 8.68 | 30.8 | 23.08 | 2.95 | 6 | 119 | 0.187 | SE |
| CR1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 12.7 | 14:03 | 8.43 | 8.4 | 30.44 | 22.95 | 3.59 | 7 | 119 | 0.209 | SE |
| CR1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 12.7 | 14:03 | 8.34 | 8.6 | 30.52 | 22.98 | 3.2 | 8 | 117 | 0.146 | SE |
| CR1 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 6.85 | 14:04 | 8.47 | 8.41 | 30.71 | 23.03 | 2.72 | 6 | 115 | 0.146 | SE |
| CR1 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 6.85 | 14:04 | 8.18 | 8.36 | 30.26 | 22.88 | 2.6 | 8 | 118 | 0.222 | SE |
| CR1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:05 | 8.59 | 8.4 | 30.62 | 22.86 | 2.76 | 7 | 118 | 0.186 | E |
| CR1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:05 | 8.47 | 8.64 | 30.48 | 22.96 | 2.95 | 6 | 118 | 0.225 | SE |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| CR2 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 10.6 | 13:44 | 8.62 | 8.37 | 30.48 | 22.87 | 3.21 | 6 | 117 | 0.212 | SE |
| CR2 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 10.6 | 13:44 | 8.4 | 8.56 | 30.27 | 22.83 | 3.15 | 7 | 119 | 0.19 | E |
| CR2 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 5.8 | 13:45 | 8.86 | 8.59 | 30.24 | 22.83 | 2.65 | 7 | 118 | 0.243 | SE |
| CR2 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 5.8 | 13:45 | 8.23 | 8.51 | 30.59 | 22.86 | 2.65 | 7 | 119 | 0.247 | E |
| CR2 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:46 | 8.2 | 8.59 | 30.33 | 22.58 | 2.85 | 7 | 118 | 0.207 | SE |
| CR2 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:46 | 8.58 | 8.42 | 30.62 | 22.69 | 2.99 | 8 | 119 | 0.171 | SE |
| F1A | 20200427 | Sunny | Moderate | Mid-Ebb | B | 7.6 | 14:15 | 8.49 | 8.47 | 30.25 | 22.61 | 3.17 | 7 | 118 | 0.239 | E |
| F1A | 20200427 | Sunny | Moderate | Mid-Ebb | B | 7.6 | 14:15 | 8.54 | 8.6 | 30.43 | 22.98 | 3.27 | 7 | 115 | 0.187 | E |
| F1A | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.3 | 14:16 | 8.63 | 8.39 | 30.5 | 22.64 | 2.79 | 7 | 119 | 0.153 | SE |
| F1A | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.3 | 14:16 | 8.22 | 8.55 | 30.46 | 23.02 | 2.83 | 8 | 117 | 0.177 | SE |
| F1A | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:17 | 8.53 | 8.38 | 30.35 | 22.61 | 2.57 | 7 | 117 | 0.199 | SE |
| F1A | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:17 | 8.66 | 8.44 | 30.65 | 22.97 | 3.04 | 8 | 119 | 0.212 | E |
| H1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 7.7 | 13:28 | 8.25 | 8.4 | 30.64 | 22.44 | 3.61 | 6 | 116 | 0.223 | SE |
| H1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 7.7 | 13:28 | 8.53 | 8.49 | 30.38 | 22.64 | 3.53 | 6 | 119 | 0.186 | E |
| H1 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.35 | 13:29 | 8.27 | 8.38 | 30.83 | 22.59 | 2.7 | 6 | 116 | 0.215 | SE |
| H1 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.35 | 13:29 | 8.64 | 8.46 | 30.75 | 22.8 | 2.78 | 7 | 117 | 0.169 | SE |
| H1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:30 | 8.65 | 8.58 | 30.37 | 22.68 | 2.73 | 7 | 115 | 0.22 | SE |
| H1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:30 | 8.76 | 8.6 | 30.73 | 22.78 | 3.06 | 6 | 115 | 0.242 | SE |
| M1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 8.4 | 14:34 | 8.2 | 8.6 | 30.89 | 22.75 | 3.48 | 6 | 119 | 0.166 | E |
| M1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 8.4 | 14:34 | 8.88 | 8.61 | 30.54 | 22.97 | 3.45 | 7 | 118 | 0.167 | SE |
| M1 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.7 | 14:35 | 8.73 | 8.6 | 30.25 | 22.72 | 3.02 | 7 | 118 | 0.19 | SE |
| M1 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.7 | 14:35 | 8.75 | 8.47 | 30.33 | 22.82 | 2.63 | 6 | 118 | 0.183 | SE |
| M1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:36 | 8.36 | 8.44 | 30.48 | 22.91 | 2.71 | 6 | 120 | 0.216 | SE |
| M1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 14:36 | 8.12 | 8.39 | 30.87 | 22.83 | 3.08 | 7 | 119 | 0.226 | E |
| S1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 4.5 | 13:14 | 8.59 | 8.53 | 30.64 | 22.79 | 3.53 | 9 | 118 | 0.168 | SE |
| S1 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 4.5 | 13:14 | 8.42 | 8.62 | 30.26 | 22.57 | 3.51 | 7 | 116 | 0.241 | E |
| S1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:15 | 8.85 | 8.59 | 30.57 | 22.63 | 2.9 | 7 | 117 | 0.2 | E |
| S1 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:15 | 8.43 | 8.46 | 30.69 | 22.51 | 2.72 | 10 | 118 | 0.247 | SE |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S2A | 20200427 | Sunny | Moderate | Mid-Ebb | B | 7.7 | 13:34 | 8.75 | 8.65 | 30.48 | 22.76 | 3.33 | 7 | 120 | 0.215 | SE |
| S2A | 20200427 | Sunny | Moderate | Mid-Ebb | B | 7.7 | 13:34 | 8.32 | 8.65 | 30.64 | 22.56 | 3.2 | 8 | 118 | 0.178 | SE |
| S2A | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.35 | 13:35 | 8.78 | 8.41 | 30.84 | 22.79 | 2.54 | 6 | 116 | 0.208 | SE |
| S2A | 20200427 | Sunny | Moderate | Mid-Ebb | M | 4.35 | 13:35 | 8.18 | 8.47 | 30.31 | 22.82 | 2.87 | 6 | 116 | 0.166 | SE |
| S2A | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:36 | 8.24 | 8.67 | 30.43 | 22.72 | 3.05 | 6 | 117 | 0.218 | SE |
| S2A | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:36 | 8.71 | 8.67 | 30.25 | 22.62 | 2.55 | 7 | 117 | 0.203 | SE |
| S3 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 9.8 | 13:52 | 8.5 | 8.56 | 30.42 | 22.53 | 3.62 | 7 | 118 | 0.247 | E |
| S3 | 20200427 | Sunny | Moderate | Mid-Ebb | B | 9.8 | 13:52 | 8.55 | 8.56 | 30.41 | 22.54 | 3.66 | 7 | 117 | 0.172 | SE |
| S3 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 5.4 | 13:53 | 8.2 | 8.37 | 30.52 | 22.42 | 3.12 | 7 | 117 | 0.162 | E |
| S3 | 20200427 | Sunny | Moderate | Mid-Ebb | M | 5.4 | 13:53 | 8.73 | 8.41 | 30.6 | 22.45 | 3.11 | 8 | 119 | 0.153 | SE |
| S3 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:54 | 8.57 | 8.42 | 30.7 | 22.55 | 2.8 | 7 | 118 | 0.208 | E |
| S3 | 20200427 | Sunny | Moderate | Mid-Ebb | S | 1 | 13:54 | 8.4 | 8.61 | 30.74 | 22.82 | 2.84 | 8 | 117 | 0.227 | E |
| B1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 3.6 | 10:31 | 8.21 | 8.51 | 31.7 | 22.7 | 3.15 | 4 | 117 | 0.186 | W |
| B1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 3.6 | 10:31 | 7.93 | 8.53 | 31.7 | 22.8 | 3.46 | 4 | 116 | 0.26 | NW |
| B1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:32 | 8.29 | 8.34 | 31.7 | 22.5 | 2.74 | 7 | 116 | 0.192 | NW |
| B1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:32 | 8.24 | 8.56 | 31.5 | 22.9 | 2.36 | 7 | 115 | 0.268 | W |
| B2 | 20200429 | Sunny | Moderate | Mid-Flood | B | 4.1 | 10:50 | 7.89 | 8.38 | 31.6 | 22.6 | 2.91 | 7 | 117 | 0.267 | W |
| B2 | 20200429 | Sunny | Moderate | Mid-Flood | B | 4.1 | 10:50 | 7.9 | 8.29 | 31.8 | 22.9 | 3.12 | 6 | 116 | 0.23 | W |
| B2 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:51 | 7.88 | 8.56 | 32.1 | 22.6 | 2.56 | 9 | 116 | 0.269 | W |
| B2 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:51 | 8.38 | 8.44 | 31.8 | 22.8 | 2.81 | 8 | 114 | 0.201 | NW |
| B3 | 20200429 | Sunny | Moderate | Mid-Flood | B | 3.6 | 10:05 | 7.86 | 8.58 | 31.6 | 22.5 | 3.33 | 10 | 116 | 0.189 | W |
| B3 | 20200429 | Sunny | Moderate | Mid-Flood | B | 3.6 | 10:05 | 8.35 | 8.39 | 31.8 | 22.9 | 3.39 | 10 | 114 | 0.246 | W |
| B3 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:06 | 8 | 8.51 | 31.8 | 22.7 | 2.92 | 8 | 114 | 0.205 | NW |
| B3 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:06 | 8.01 | 8.42 | 31.7 | 22.8 | 2.52 | 7 | 114 | 0.228 | W |
| B4 | 20200429 | Sunny | Moderate | Mid-Flood | B | 3.9 | 09:57 | 8.38 | 8.46 | 32.0 | 22.7 | 3.32 | 9 | 114 | 0.279 | W |
| B4 | 20200429 | Sunny | Moderate | Mid-Flood | B | 3.9 | 09:57 | 8.51 | 8.52 | 31.7 | 22.9 | 3.1 | 9 | 115 | 0.268 | W |
| B4 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:58 | 8.4 | 8.43 | 31.8 | 22.7 | 2.62 | 7 | 113 | 0.198 | W |
| B4 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:58 | 8.3 | 8.46 | 31.9 | 22.6 | 2.98 | 8 | 114 | 0.231 | W |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C1A | 20200429 | Sunny | Moderate | Mid-Flood | B | 10.9 | 09:05 | 8.48 | 8.29 | 32.1 | 22.6 | 3.22 | 6 | 114 | 0.239 | W |
| C1A | 20200429 | Sunny | Moderate | Mid-Flood | B | 10.9 | 09:05 | 8.13 | 8.45 | 31.5 | 22.7 | 3.11 | 6 | 113 | 0.257 | W |
| C1A | 20200429 | Sunny | Moderate | Mid-Flood | M | 6.0 | 09:06 | 8.03 | 8.45 | 32.0 | 22.4 | 2.9 | 6 | 113 | 0.176 | W |
| C1A | 20200429 | Sunny | Moderate | Mid-Flood | M | 6.0 | 09:06 | 8.3 | 8.31 | 31.7 | 22.4 | 2.67 | 6 | 113 | 0.265 | W |
| C1A | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:07 | 8.29 | 8.54 | 32.0 | 22.5 | 2.61 | 6 | 114 | 0.203 | W |
| C1A | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:07 | 8.2 | 8.50 | 31.5 | 22.4 | 2.55 | 7 | 116 | 0.276 | W |
| C2A | 20200429 | Sunny | Moderate | Mid-Flood | B | 10.6 | 08:00 | 8.41 | 8.55 | 31.9 | 22.1 | 3.15 | 8 | 115 | 0.222 | W |
| C2A | 20200429 | Sunny | Moderate | Mid-Flood | B | 10.6 | 08:00 | 8.5 | 8.37 | 31.7 | 22.4 | 2.92 | 7 | 115 | 0.177 | W |
| C2A | 20200429 | Sunny | Moderate | Mid-Flood | M | 5.8 | 08:01 | 8.29 | 8.28 | 31.7 | 22.5 | 2.62 | 6 | 115 | 0.218 | W |
| C2A | 20200429 | Sunny | Moderate | Mid-Flood | M | 5.8 | 08:01 | 7.92 | 8.48 | 31.9 | 22.5 | 2.73 | 6 | 115 | 0.173 | W |
| C2A | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 08:02 | 8.32 | 8.33 | 32.1 | 22.2 | 2.59 | 6 | 115 | 0.218 | W |
| C2A | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 08:02 | 8.09 | 8.41 | 31.6 | 22.6 | 2.48 | 6 | 115 | 0.233 | W |
| CR1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 11.7 | 08:21 | 7.91 | 8.54 | 31.8 | 22.4 | 3.34 | 5 | 117 | 0.238 | W |
| CR1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 11.7 | 08:21 | 8.16 | 8.54 | 32.0 | 22.5 | 3.13 | 6 | 114 | 0.259 | W |
| CR1 | 20200429 | Sunny | Moderate | Mid-Flood | M | 6.4 | 08:22 | 8.37 | 8.34 | 31.8 | 22.5 | 2.96 | 7 | 115 | 0.251 | W |
| CR1 | 20200429 | Sunny | Moderate | Mid-Flood | M | 6.4 | 08:22 | 8.17 | 8.46 | 31.8 | 22.1 | 2.59 | 7 | 117 | 0.21 | NW |
| CR1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 08:23 | 8.15 | 8.53 | 32.0 | 22.5 | 2.79 | 8 | 115 | 0.275 | NW |
| CR1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 08:23 | 8.23 | 8.52 | 31.9 | 22.3 | 2.35 | 8 | 115 | 0.237 | NW |
| CR2 | 20200429 | Sunny | Moderate | Mid-Flood | B | 10.7 | 08:37 | 8.2 | 8.31 | 31.5 | 22.1 | 3.42 | 9 | 114 | 0.256 | W |
| CR2 | 20200429 | Sunny | Moderate | Mid-Flood | B | 10.7 | 08:37 | 8.11 | 8.36 | 32.0 | 22.3 | 3.2 | 9 | 115 | 0.264 | W |
| CR2 | 20200429 | Sunny | Moderate | Mid-Flood | M | 5.9 | 08:38 | 7.92 | 8.44 | 32.0 | 22.5 | 2.96 | 6 | 114 | 0.278 | NW |
| CR2 | 20200429 | Sunny | Moderate | Mid-Flood | M | 5.9 | 08:38 | 7.86 | 8.29 | 32.0 | 22.6 | 3.13 | 7 | 115 | 0.189 | W |
| CR2 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 08:39 | 8.43 | 8.57 | 31.6 | 22.5 | 2.4 | 5 | 114 | 0.242 | W |
| CR2 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 08:39 | 7.85 | 8.44 | 31.5 | 22.4 | 2.56 | 5 | 113 | 0.191 | W |
| F1A | 20200429 | Sunny | Moderate | Mid-Flood | B | 6.9 | 09:33 | 8.39 | 8.51 | 32.0 | 22.6 | 3.12 | 6 | 113 | 0.207 | W |
| F1A | 20200429 | Sunny | Moderate | Mid-Flood | B | 6.9 | 09:33 | 7.95 | 8.57 | 31.9 | 22.6 | 2.92 | 6 | 115 | 0.281 | W |
| F1A | 20200429 | Sunny | Moderate | Mid-Flood | M | 4.0 | 09:34 | 7.91 | 8.58 | 31.7 | 22.4 | 3.01 | 7 | 114 | 0.22 | NW |
| F1A | 20200429 | Sunny | Moderate | Mid-Flood | M | 4.0 | 09:34 | 7.9 | 8.28 | 31.9 | 22.7 | 2.98 | 7 | 114 | 0.239 | W |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| F1A | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:35 | 8.38 | 8.48 | 31.6 | 22.7 | 2.84 | 9 | 113 | 0.275 | W |
| F1A | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:35 | 7.87 | 8.43 | 31.7 | 22.4 | 2.7 | 8 | 112 | 0.215 | NW |
| H1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 6.5 | 09:33 | 7.87 | 8.35 | 32.2 | 22.7 | 3.19 | 7 | 114 | 0.188 | W |
| H1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 6.5 | 09:33 | 8.49 | 8.55 | 32.1 | 22.4 | 3.14 | 7 | 113 | 0.182 | W |
| H1 | 20200429 | Sunny | Moderate | Mid-Flood | M | 3.8 | 09:34 | 7.85 | 8.36 | 31.7 | 22.5 | 2.83 | 8 | 115 | 0.282 | W |
| H1 | 20200429 | Sunny | Moderate | Mid-Flood | M | 3.8 | 09:34 | 8.32 | 8.59 | 31.7 | 22.6 | 2.76 | 8 | 114 | 0.222 | W |
| H1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:35 | 8.03 | 8.59 | 31.9 | 22.7 | 2.6 | 8 | 114 | 0.217 | W |
| H1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:35 | 8.01 | 8.41 | 32.0 | 22.7 | 2.53 | 9 | 114 | 0.237 | NW |
| M1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 6.4 | 09:11 | 8.24 | 8.59 | 32.0 | 22.7 | 3.28 | 8 | 114 | 0.209 | W |
| M1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 6.4 | 09:11 | 8.01 | 8.45 | 31.9 | 22.3 | 2.96 | 8 | 114 | 0.219 | W |
| M1 | 20200429 | Sunny | Moderate | Mid-Flood | M | 3.7 | 09:12 | 8.41 | 8.34 | 31.9 | 22.5 | 2.9 | 8 | 114 | 0.275 | W |
| M1 | 20200429 | Sunny | Moderate | Mid-Flood | M | 3.7 | 09:12 | 8.27 | 8.28 | 31.6 | 22.3 | 2.77 | 9 | 113 | 0.277 | W |
| M1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:13 | 7.93 | 8.49 | 31.7 | 22.3 | 2.79 | 10 | 116 | 0.206 | W |
| M1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 09:13 | 7.96 | 8.57 | 31.8 | 22.6 | 2.42 | 11 | 115 | 0.17 | W |
| S1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 4.3 | 10:40 | 8.03 | 8.29 | 32.1 | 22.9 | 3.35 | 8 | 115 | 0.182 | NW |
| S1 | 20200429 | Sunny | Moderate | Mid-Flood | B | 4.3 | 10:40 | 8.07 | 8.48 | 32.1 | 22.6 | 3.27 | 8 | 114 | 0.198 | W |
| S1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:41 | 8.5 | 8.37 | 31.9 | 22.8 | 2.89 | 6 | 113 | 0.216 | NW |
| S1 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:41 | 8.5 | 8.50 | 32.1 | 22.9 | 2.82 | 6 | 112 | 0.281 | W |
| S2A | 20200429 | Sunny | Moderate | Mid-Flood | B | 8.2 | 10:18 | 8.36 | 8.46 | 31.5 | 22.7 | 3.37 | 8 | 114 | 0.274 | W |
| S2A | 20200429 | Sunny | Moderate | Mid-Flood | B | 8.2 | 10:18 | 8.43 | 8.51 | 31.9 | 22.9 | 2.88 | 8 | 114 | 0.211 | W |
| S2A | 20200429 | Sunny | Moderate | Mid-Flood | M | 4.6 | 10:19 | 8.16 | 8.51 | 31.8 | 22.6 | 2.84 | 6 | 114 | 0.261 | NW |
| S2A | 20200429 | Sunny | Moderate | Mid-Flood | M | 4.6 | 10:19 | 8.47 | 8.55 | 32.1 | 22.8 | 3.04 | 6 | 114 | 0.277 | NW |
| S2A | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:20 | 8 | 8.56 | 32.0 | 22.8 | 2.66 | 6 | 116 | 0.179 | W |
| S2A | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 10:20 | 8.02 | 8.55 | 31.9 | 22.7 | 2.61 | 6 | 113 | 0.274 | W |
| S3 | 20200429 | Sunny | Moderate | Mid-Flood | B | 8.6 | 08:46 | 7.96 | 8.41 | 32.0 | 22.3 | 3.44 | 8 | 115 | 0.172 | NW |
| S3 | 20200429 | Sunny | Moderate | Mid-Flood | B | 8.6 | 08:46 | 8.31 | 8.59 | 31.5 | 22.3 | 3.38 | 8 | 113 | 0.244 | W |
| S3 | 20200429 | Sunny | Moderate | Mid-Flood | M | 4.8 | 08:47 | 8.19 | 8.49 | 31.9 | 22.7 | 2.56 | 6 | 113 | 0.278 | W |
| S3 | 20200429 | Sunny | Moderate | Mid-Flood | M | 4.8 | 08:47 | 8.5 | 8.33 | 31.9 | 22.3 | 3.07 | 6 | 114 | 0.225 | W |

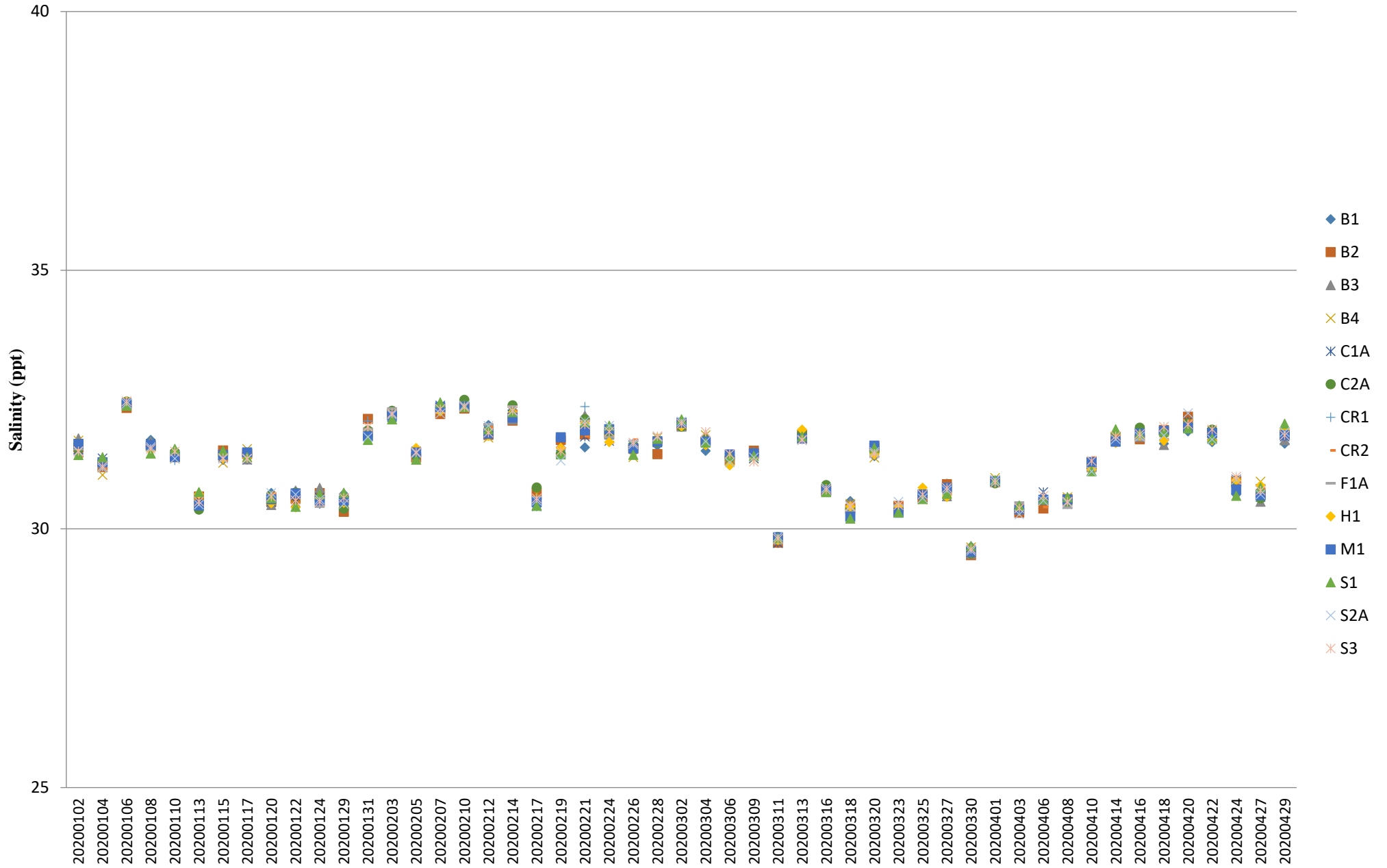
| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|-----------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| S3 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 08:48 | 8.35 | 8.54 | 31.8 | 22.7 | 2.83 | 5 | 115 | 0.233 | W |
| S3 | 20200429 | Sunny | Moderate | Mid-Flood | S | 1.0 | 08:48 | 8.46 | 8.43 | 31.7 | 22.4 | 2.76 | 5 | 114 | 0.176 | NW |
| B1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 3.6 | 14:52 | 8.5 | 8.29 | 31.5 | 23.9 | 3.09 | 9 | 116 | 0.148 | E |
| B1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 3.6 | 14:52 | 8.51 | 8.28 | 31.6 | 24.1 | 2.86 | 8 | 116 | 0.248 | SE |
| B1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 14:53 | 8.15 | 8.45 | 31.6 | 23.9 | 2.85 | 8 | 116 | 0.21 | SE |
| B1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 14:53 | 8.13 | 8.27 | 31.3 | 23.9 | 2.58 | 7 | 116 | 0.247 | SE |
| B2 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 4.7 | 14:34 | 8.54 | 8.50 | 31.9 | 23.9 | 3.12 | 6 | 116 | 0.189 | E |
| B2 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 4.7 | 14:34 | 8.65 | 8.61 | 31.8 | 23.9 | 3.37 | 7 | 116 | 0.151 | E |
| B2 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 14:35 | 8.12 | 8.30 | 31.8 | 24.0 | 2.76 | 10 | 116 | 0.168 | E |
| B2 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 14:35 | 8.25 | 8.39 | 31.6 | 24.0 | 2.59 | 9 | 117 | 0.151 | SE |
| B3 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 15:19 | 8.28 | 8.50 | 31.3 | 24.0 | 2.97 | 10 | 115 | 0.175 | SE |
| B3 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 4.1 | 15:19 | 8.33 | 8.24 | 31.6 | 24.1 | 3.43 | 10 | 116 | 0.199 | SE |
| B3 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:20 | 8.44 | 8.53 | 31.7 | 23.8 | 2.8 | 8 | 116 | 0.251 | E |
| B3 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:20 | 8.32 | 8.22 | 31.3 | 23.9 | 2.9 | 8 | 115 | 0.238 | SE |
| B4 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 4.0 | 15:27 | 8.13 | 8.19 | 31.5 | 23.9 | 3.15 | 11 | 115 | 0.221 | SE |
| B4 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 4.0 | 15:27 | 8.65 | 8.46 | 31.6 | 23.7 | 3.02 | 11 | 116 | 0.156 | E |
| B4 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:28 | 8.01 | 8.37 | 31.2 | 23.7 | 2.4 | 9 | 116 | 0.2 | SE |
| B4 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:28 | 8.39 | 8.27 | 31.5 | 23.8 | 2.38 | 9 | 115 | 0.161 | SE |
| C1A | 20200429 | Sunny | Moderate | Mid-Ebb | B | 9.9 | 14:34 | 8.11 | 8.50 | 31.4 | 23.9 | 3.38 | 6 | 116 | 0.204 | SE |
| C1A | 20200429 | Sunny | Moderate | Mid-Ebb | B | 9.9 | 14:34 | 8.49 | 8.43 | 31.7 | 23.8 | 3.21 | 7 | 115 | 0.204 | SE |
| C1A | 20200429 | Sunny | Moderate | Mid-Ebb | M | 5.5 | 14:35 | 8.04 | 8.44 | 31.9 | 23.9 | 2.8 | 8 | 116 | 0.241 | SE |
| C1A | 20200429 | Sunny | Moderate | Mid-Ebb | M | 5.5 | 14:35 | 8.32 | 8.19 | 31.2 | 23.9 | 2.85 | 8 | 116 | 0.158 | SE |
| C1A | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 14:36 | 8.1 | 8.35 | 31.6 | 23.9 | 2.71 | 9 | 119 | 0.221 | E |
| C1A | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 14:36 | 8.41 | 8.19 | 31.7 | 23.9 | 2.36 | 9 | 116 | 0.215 | E |
| C2A | 20200429 | Sunny | Moderate | Mid-Ebb | B | 11.4 | 15:55 | 8.05 | 8.37 | 31.7 | 23.6 | 3.38 | 8 | 116 | 0.21 | SE |
| C2A | 20200429 | Sunny | Moderate | Mid-Ebb | B | 11.4 | 15:55 | 8.38 | 8.35 | 31.5 | 23.9 | 3 | 8 | 116 | 0.233 | E |
| C2A | 20200429 | Sunny | Moderate | Mid-Ebb | M | 6.2 | 15:56 | 8.06 | 8.57 | 31.8 | 23.7 | 2.91 | 8 | 116 | 0.214 | SE |
| C2A | 20200429 | Sunny | Moderate | Mid-Ebb | M | 6.2 | 15:56 | 8.07 | 8.34 | 31.5 | 23.6 | 2.93 | 8 | 116 | 0.162 | E |

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
Impact Water Quality Monitoring Data

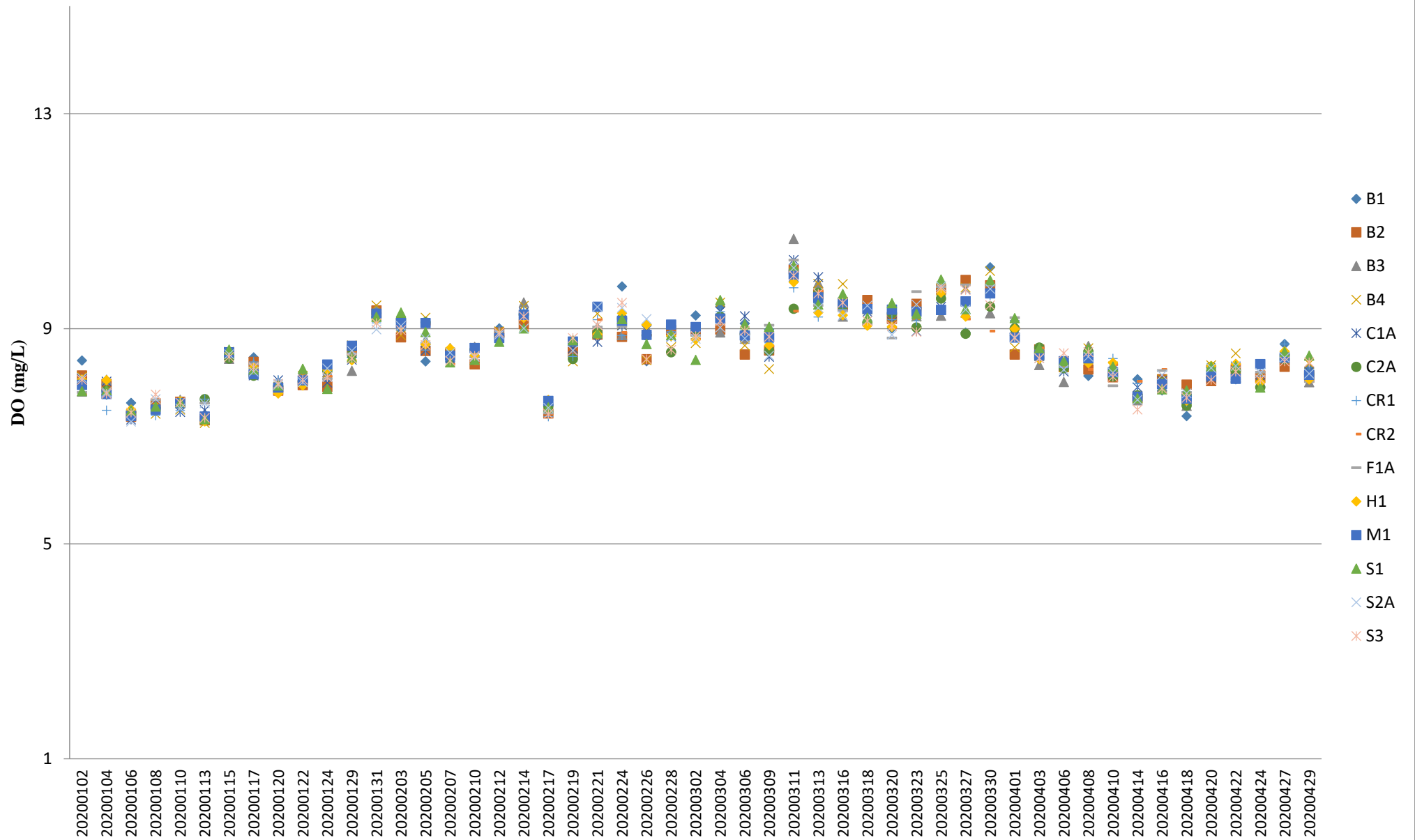
| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|----------|-----------------|---------|---------------|---------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| C2A | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:57 | 8.32 | 8.30 | 31.6 | 23.8 | 2.56 | 8 | 115 | 0.169 | E |
| C2A | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:57 | 8.56 | 8.60 | 31.2 | 23.8 | 2.61 | 8 | 115 | 0.153 | SE |
| CR1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 12.4 | 15:15 | 8.52 | 8.46 | 31.3 | 23.8 | 3.12 | 8 | 116 | 0.25 | SE |
| CR1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 12.4 | 15:15 | 8.64 | 8.55 | 31.5 | 23.8 | 3.06 | 7 | 116 | 0.161 | E |
| CR1 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 6.7 | 15:16 | 8.53 | 8.42 | 31.4 | 23.9 | 2.9 | 8 | 117 | 0.178 | SE |
| CR1 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 6.7 | 15:16 | 8.38 | 8.24 | 31.9 | 23.9 | 2.93 | 8 | 117 | 0.155 | SE |
| CR1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:17 | 8.53 | 8.21 | 31.5 | 23.7 | 2.71 | 9 | 116 | 0.212 | SE |
| CR1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:17 | 8.39 | 8.17 | 31.7 | 23.9 | 2.41 | 9 | 117 | 0.177 | SE |
| CR2 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 10.5 | 15:15 | 8.06 | 8.37 | 31.9 | 23.8 | 2.87 | 6 | 115 | 0.235 | SE |
| CR2 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 10.5 | 15:15 | 8.57 | 8.23 | 31.8 | 24.0 | 3.14 | 6 | 116 | 0.222 | SE |
| CR2 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 5.8 | 15:16 | 8.34 | 8.41 | 31.2 | 24.0 | 2.86 | 7 | 116 | 0.189 | SE |
| CR2 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 5.8 | 15:16 | 8.42 | 8.55 | 31.7 | 24.0 | 2.47 | 6 | 117 | 0.165 | SE |
| CR2 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:17 | 8.21 | 8.38 | 31.7 | 23.8 | 2.46 | 7 | 116 | 0.189 | E |
| CR2 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:17 | 8.12 | 8.16 | 31.5 | 23.9 | 2.84 | 7 | 116 | 0.208 | SE |
| F1A | 20200429 | Sunny | Moderate | Mid-Ebb | B | 7.1 | 15:48 | 8.49 | 8.29 | 31.2 | 23.7 | 3.44 | 10 | 114 | 0.215 | E |
| F1A | 20200429 | Sunny | Moderate | Mid-Ebb | B | 7.1 | 15:48 | 8.18 | 8.31 | 31.7 | 23.7 | 3.08 | 9 | 115 | 0.212 | SE |
| F1A | 20200429 | Sunny | Moderate | Mid-Ebb | M | 4.1 | 15:49 | 8.58 | 8.31 | 31.5 | 23.9 | 2.89 | 9 | 117 | 0.208 | SE |
| F1A | 20200429 | Sunny | Moderate | Mid-Ebb | M | 4.1 | 15:49 | 8.02 | 8.32 | 31.4 | 23.7 | 2.72 | 8 | 116 | 0.148 | SE |
| F1A | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:50 | 8.55 | 8.63 | 31.4 | 23.8 | 2.63 | 7 | 117 | 0.238 | SE |
| F1A | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:50 | 8.21 | 8.38 | 31.6 | 23.7 | 2.72 | 7 | 116 | 0.228 | SE |
| H1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 7.1 | 14:58 | 8.52 | 8.43 | 31.9 | 24.0 | 3.25 | 7 | 116 | 0.212 | E |
| H1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 7.1 | 14:58 | 8.63 | 8.41 | 31.4 | 24.1 | 2.87 | 7 | 114 | 0.222 | SE |
| H1 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 4.1 | 14:59 | 8.13 | 8.25 | 31.4 | 24.1 | 2.48 | 8 | 116 | 0.241 | SE |
| H1 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 4.1 | 14:59 | 8.48 | 8.59 | 31.2 | 24.0 | 2.9 | 8 | 116 | 0.204 | E |
| H1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:00 | 8.57 | 8.48 | 31.5 | 23.8 | 2.66 | 9 | 116 | 0.186 | SE |
| H1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:00 | 8.21 | 8.34 | 31.8 | 23.9 | 2.68 | 9 | 115 | 0.154 | E |
| M1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 8.9 | 16:07 | 8.55 | 8.44 | 31.2 | 23.9 | 3.43 | 9 | 116 | 0.177 | SE |
| M1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 8.9 | 16:07 | 8.58 | 8.48 | 31.8 | 23.6 | 3.25 | 9 | 117 | 0.232 | E |

| Location | Date (YYYYMMDD) | Weather | Sea Condition | Tidal | Water Level note 1 | Depth (m) | Time (hh:mm) | DO (mg/L) | pH | Sal (ppt) | Temp (°C) | Turbidity (NTU) note 2 | SS (mg/L) | Total Alkalinity (mg/L) | Current Velocity (m/s) | Direction in NESW |
|---|-----------------|------------|---------------|------------|--------------------|-----------|--------------|-----------|------|-----------|-----------|------------------------|-----------|-------------------------|------------------------|-------------------|
| M1 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 5.0 | 16:08 | 8.04 | 8.62 | 31.2 | 23.8 | 2.83 | 8 | 116 | 0.231 | SE |
| M1 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 5.0 | 16:08 | 8.08 | 8.25 | 31.8 | 23.8 | 2.88 | 7 | 114 | 0.181 | SE |
| M1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 16:09 | 8.6 | 8.53 | 31.7 | 23.9 | 2.63 | 7 | 116 | 0.209 | SE |
| M1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 16:09 | 8.64 | 8.28 | 31.6 | 23.7 | 2.41 | 6 | 116 | 0.195 | SE |
| S1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 3.8 | 14:43 | 8.27 | 8.35 | 31.5 | 23.9 | 2.99 | 8 | 114 | 0.168 | SE |
| S1 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 3.8 | 14:43 | 8.05 | 8.17 | 31.3 | 23.9 | 3.33 | 8 | 117 | 0.22 | E |
| S1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 14:44 | 8.6 | 8.35 | 31.8 | 23.9 | 2.79 | 10 | 116 | 0.148 | E |
| S1 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 14:44 | 8.28 | 8.40 | 31.2 | 24.1 | 2.71 | 9 | 115 | 0.182 | E |
| S2A | 20200429 | Sunny | Moderate | Mid-Ebb | B | 7.8 | 15:06 | 8.02 | 8.55 | 31.8 | 24.1 | 3.43 | 5 | 116 | 0.236 | SE |
| S2A | 20200429 | Sunny | Moderate | Mid-Ebb | B | 7.8 | 15:06 | 8.5 | 8.64 | 31.7 | 24.0 | 3.27 | 5 | 117 | 0.197 | SE |
| S2A | 20200429 | Sunny | Moderate | Mid-Ebb | M | 4.4 | 15:07 | 8.46 | 8.58 | 31.7 | 24.0 | 2.69 | 7 | 116 | 0.187 | SE |
| S2A | 20200429 | Sunny | Moderate | Mid-Ebb | M | 4.4 | 15:07 | 8.23 | 8.45 | 31.4 | 23.9 | 2.62 | 7 | 115 | 0.235 | SE |
| S2A | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:08 | 8.17 | 8.35 | 31.4 | 23.9 | 2.86 | 8 | 115 | 0.179 | SE |
| S2A | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:08 | 8.03 | 8.39 | 31.9 | 23.8 | 2.75 | 8 | 117 | 0.158 | SE |
| S3 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 10.6 | 15:24 | 8.05 | 8.20 | 31.8 | 24.0 | 3.31 | 8 | 116 | 0.243 | SE |
| S3 | 20200429 | Sunny | Moderate | Mid-Ebb | B | 10.6 | 15:24 | 8.47 | 8.48 | 31.7 | 23.7 | 3.15 | 8 | 115 | 0.231 | E |
| S3 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 5.8 | 15:25 | 8.22 | 8.25 | 31.4 | 24.0 | 2.58 | 7 | 117 | 0.223 | E |
| S3 | 20200429 | Sunny | Moderate | Mid-Ebb | M | 5.8 | 15:25 | 8.47 | 8.40 | 31.5 | 23.7 | 2.8 | 7 | 117 | 0.234 | E |
| S3 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:26 | 8.5 | 8.20 | 31.7 | 23.8 | 2.73 | 7 | 116 | 0.207 | E |
| S3 | 20200429 | Sunny | Moderate | Mid-Ebb | S | 1.0 | 15:26 | 8.39 | 8.17 | 31.9 | 23.9 | 2.82 | 7 | 116 | 0.238 | SE |
| Remarks: | | | | | | | | | | | | | | | | |
| Note 1: S - Surface | | M - Middle | | B - Bottom | | | | | | | | | | | | |
| Note 2: Measurements of turbidity would be rounding to 0.1 NTU for proven accuracy as per the equipment specs during utilization of data. | | | | | | | | | | | | | | | | |

Salinity (Depth-averaged) during MID-FLOOD

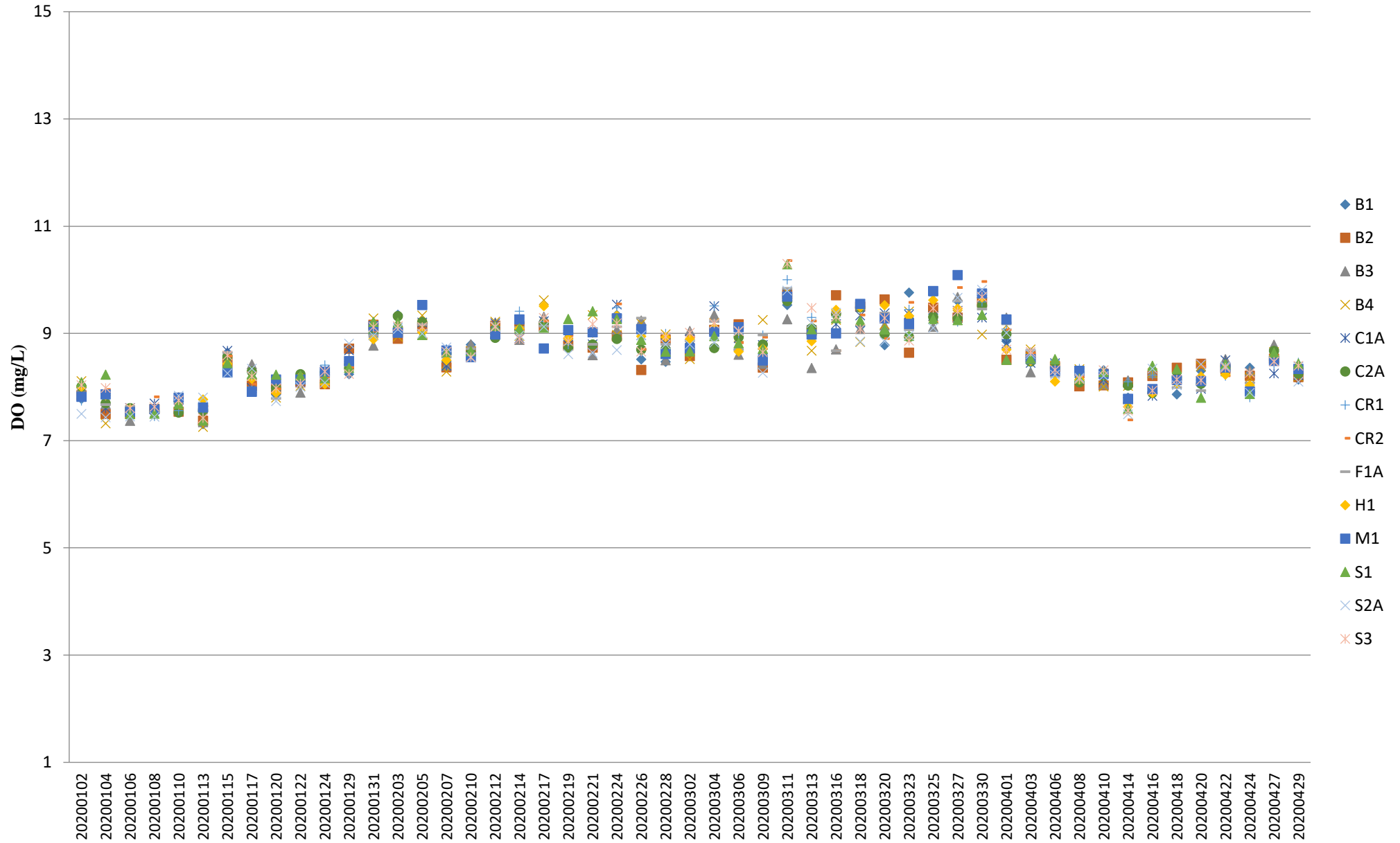


Dissolved Oxygen (Surface & Middle) during MID-FLOOD



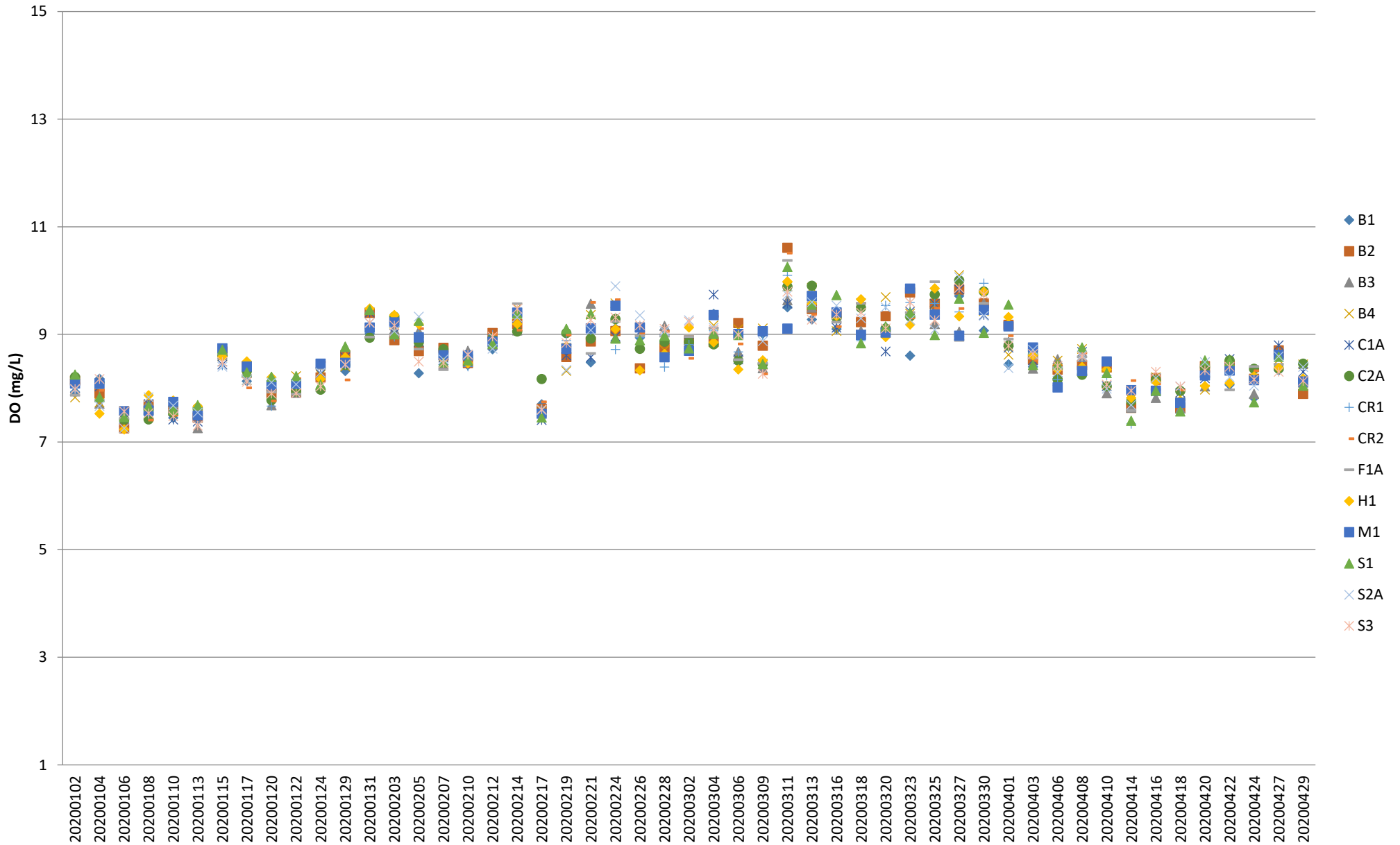
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Dissolved Oxygen (Surface & Middle) during MID-EBB



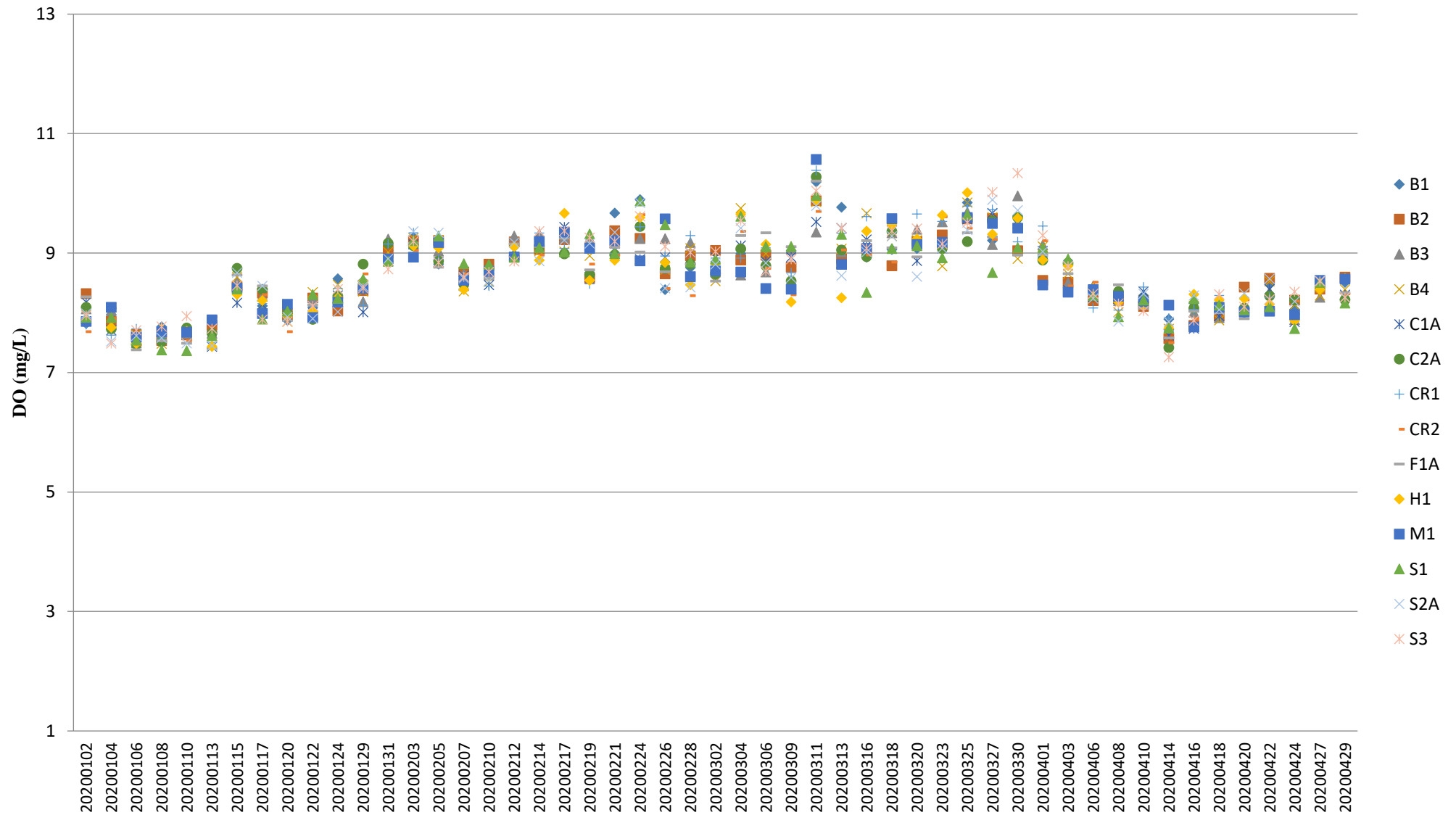
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Dissolved Oxygen (Bottom) during MID-FLOOD



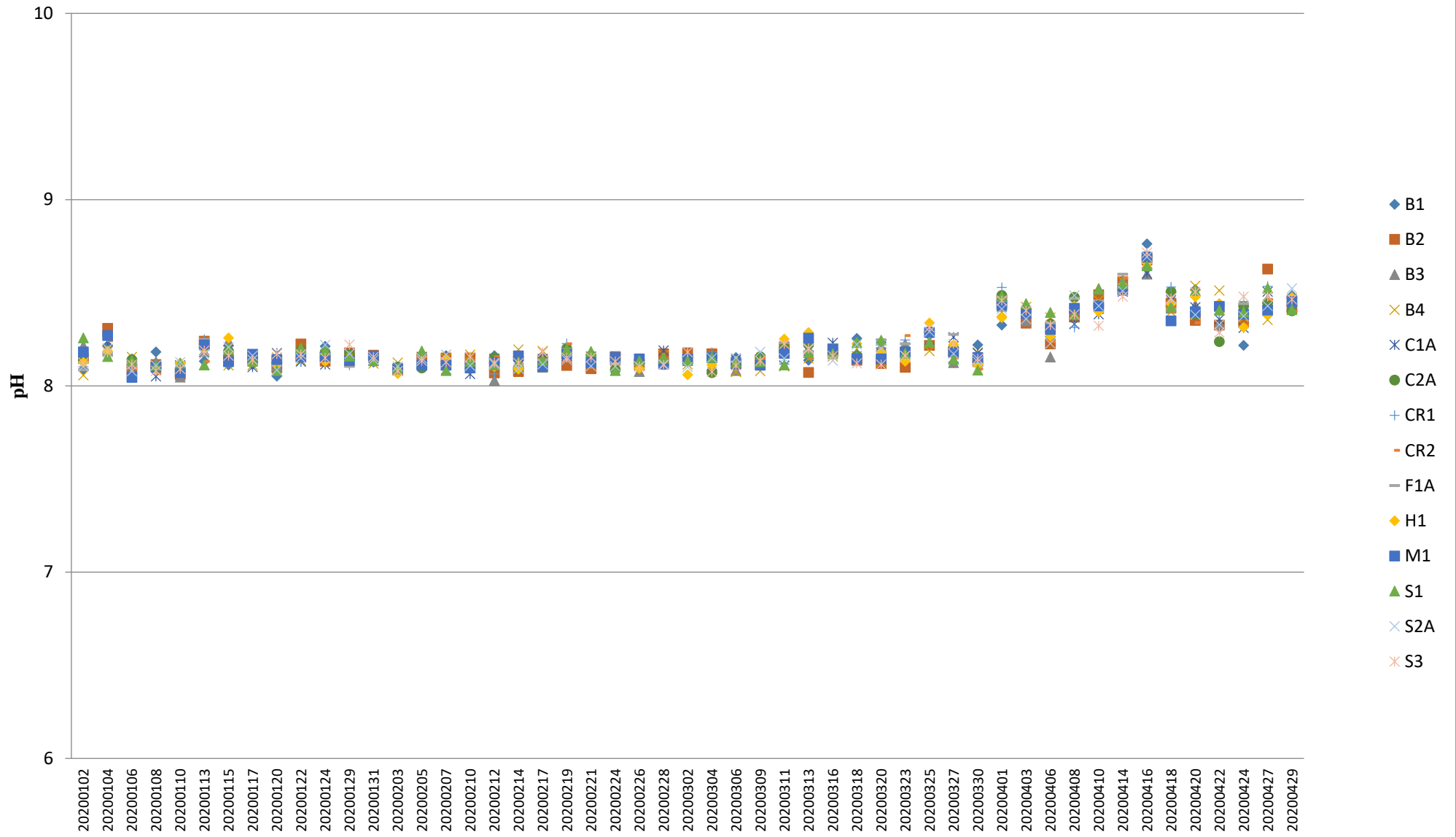
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Dissolved Oxygen (Bottom) during MID-EBB

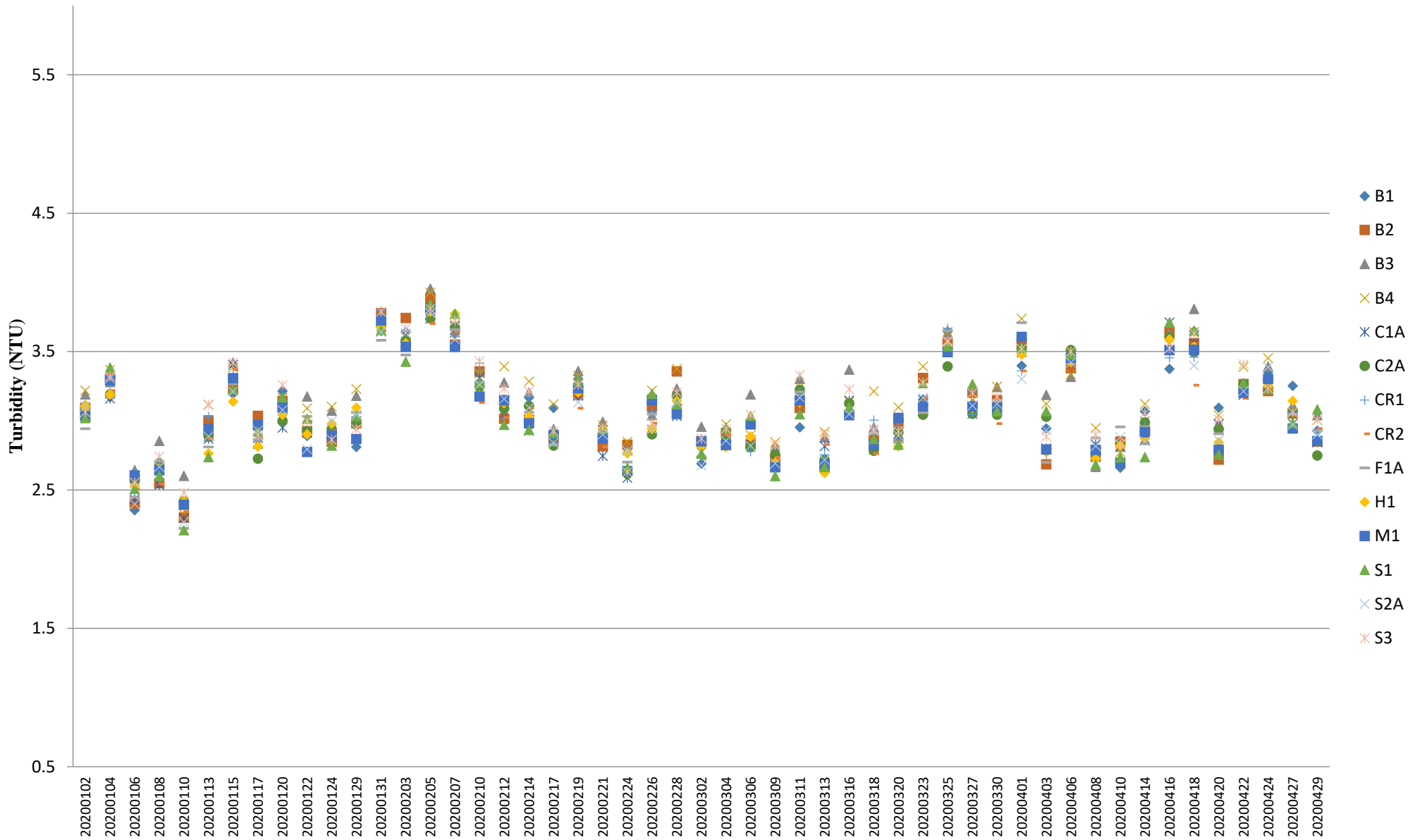


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

pH (Depth-averaged) during MID-FLOOD

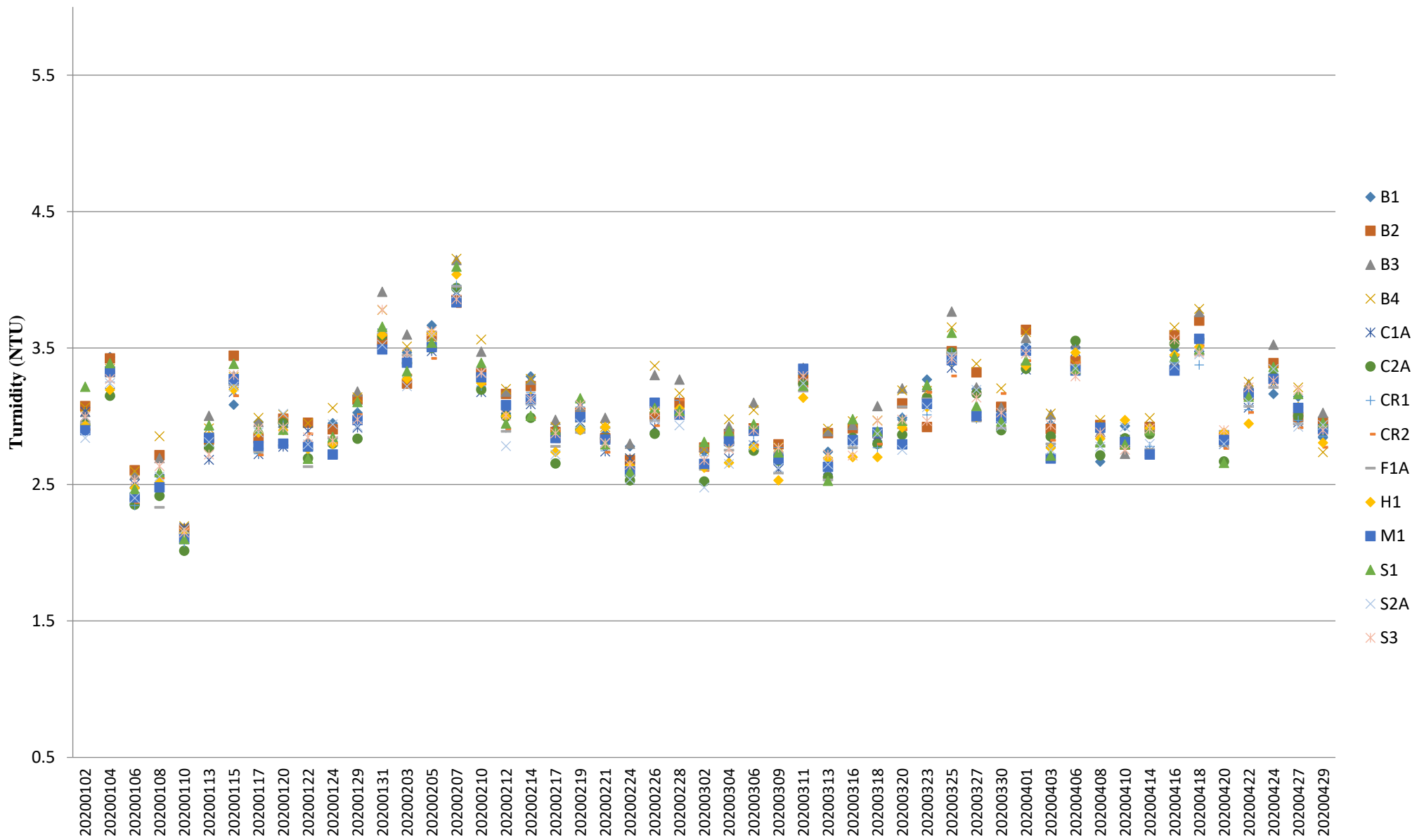


Turbidity (Depth-averaged) during MID-FLOOD



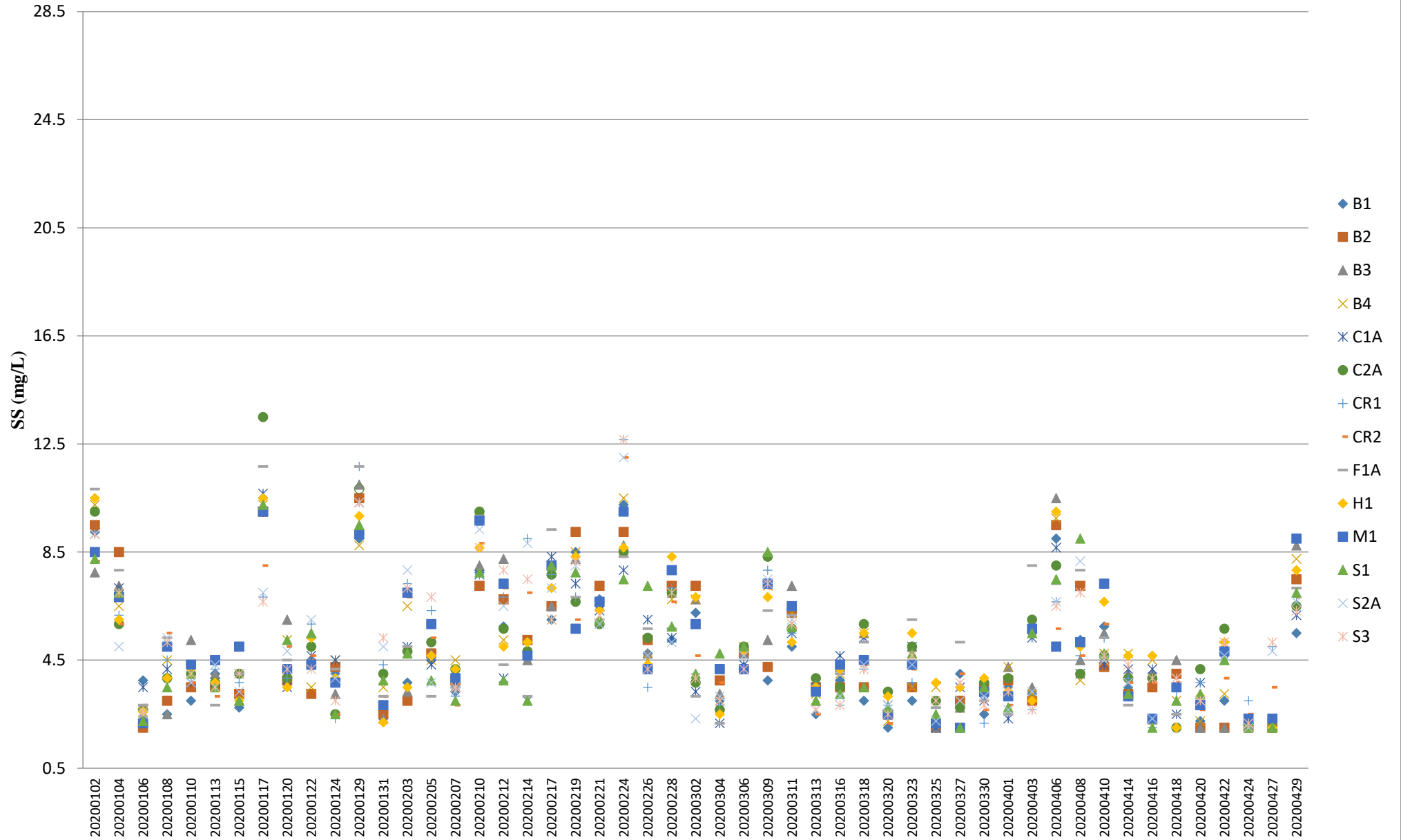
Note: The Action and Limit Level of turbidity can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Turbidity (Depth-averaged) during MID-EBB



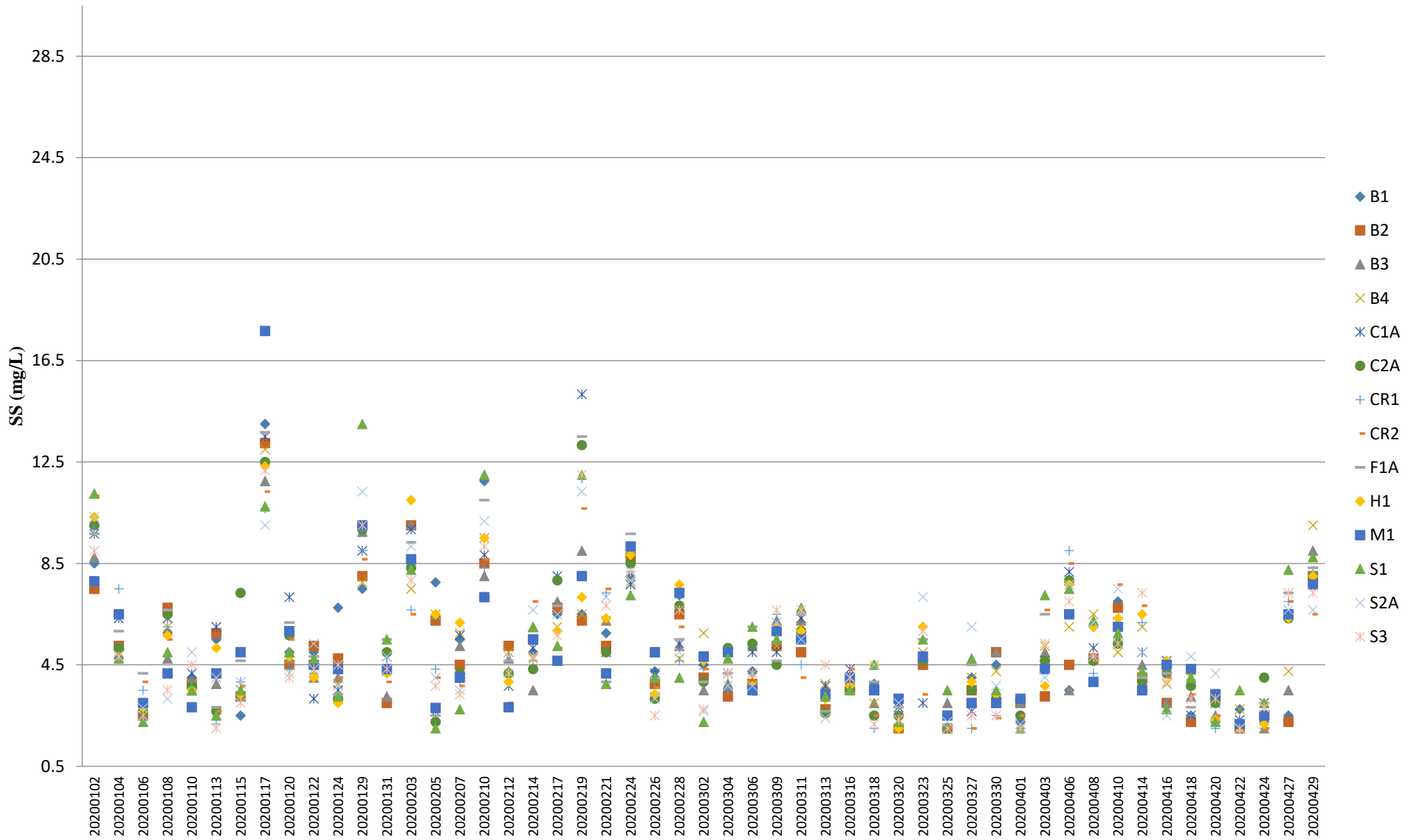
Note: The Action and Limit Level of turbidity can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Suspended Solids (Depth-averaged) during MID-FLOOD



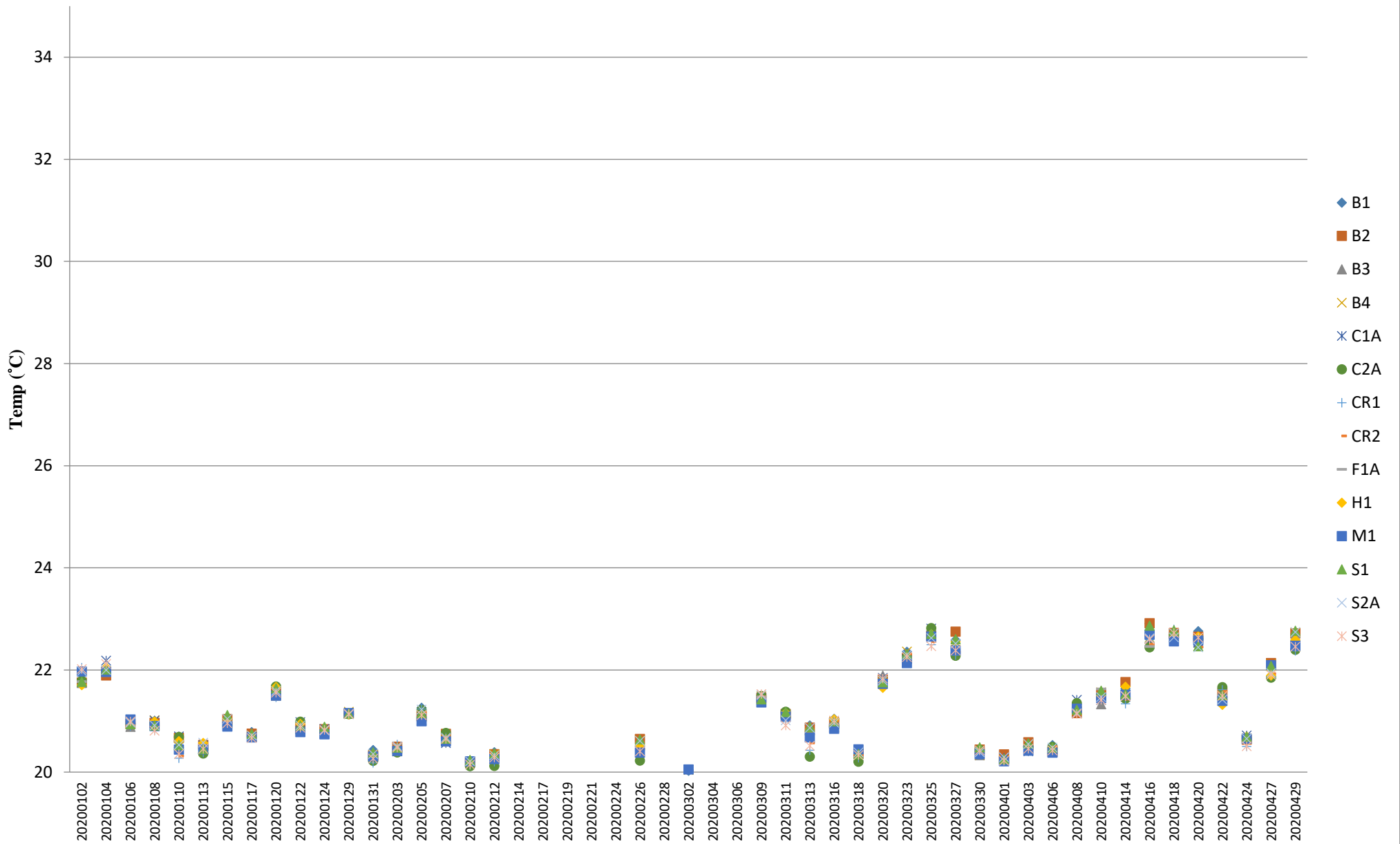
Note: The Action and Limit Level of suspended solids can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Suspended Solids (Depth-averaged) during MID-EBB



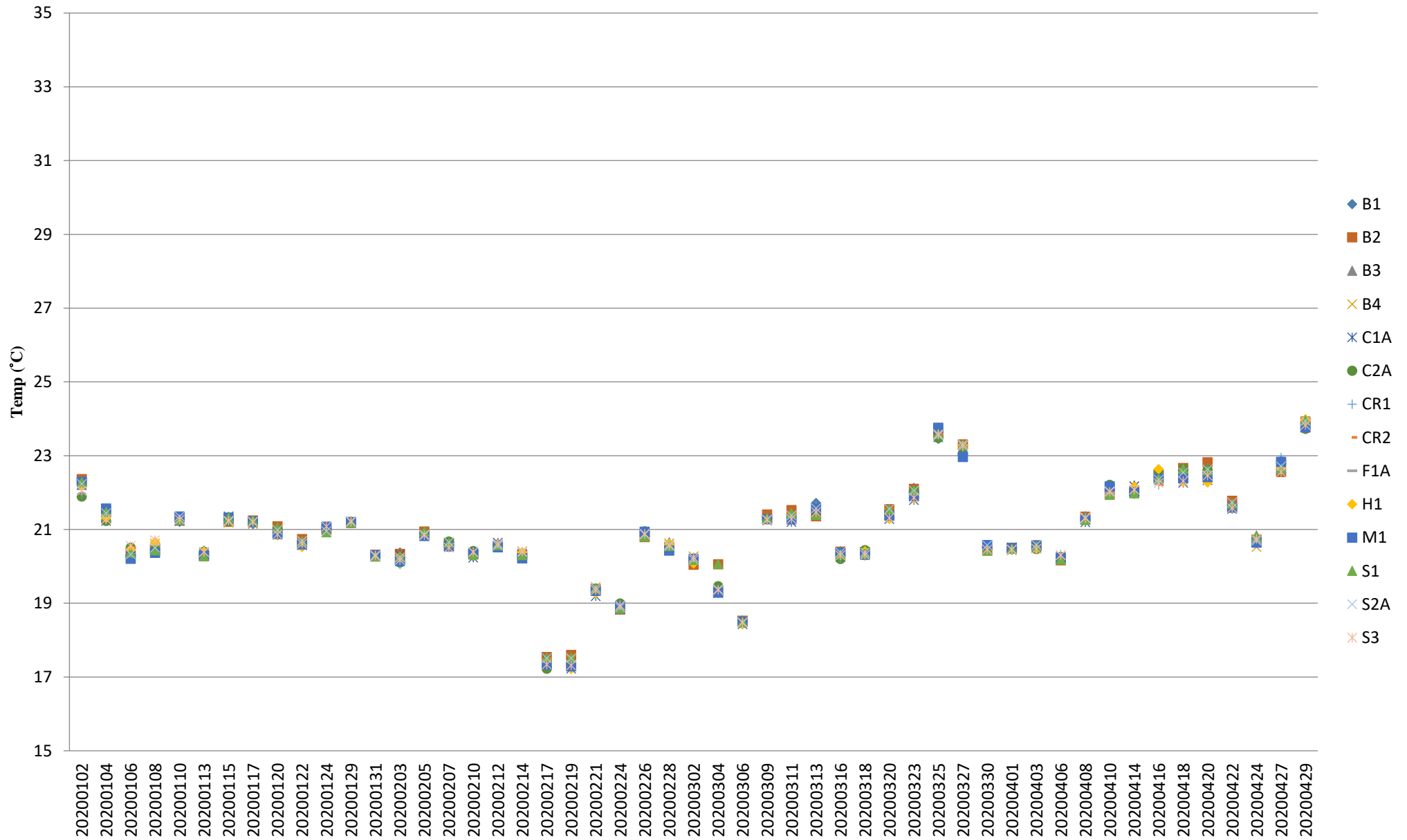
Note: The Action and Limit Level of suspended solids can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Temperature (Depth-averaged) during MID-FLOOD



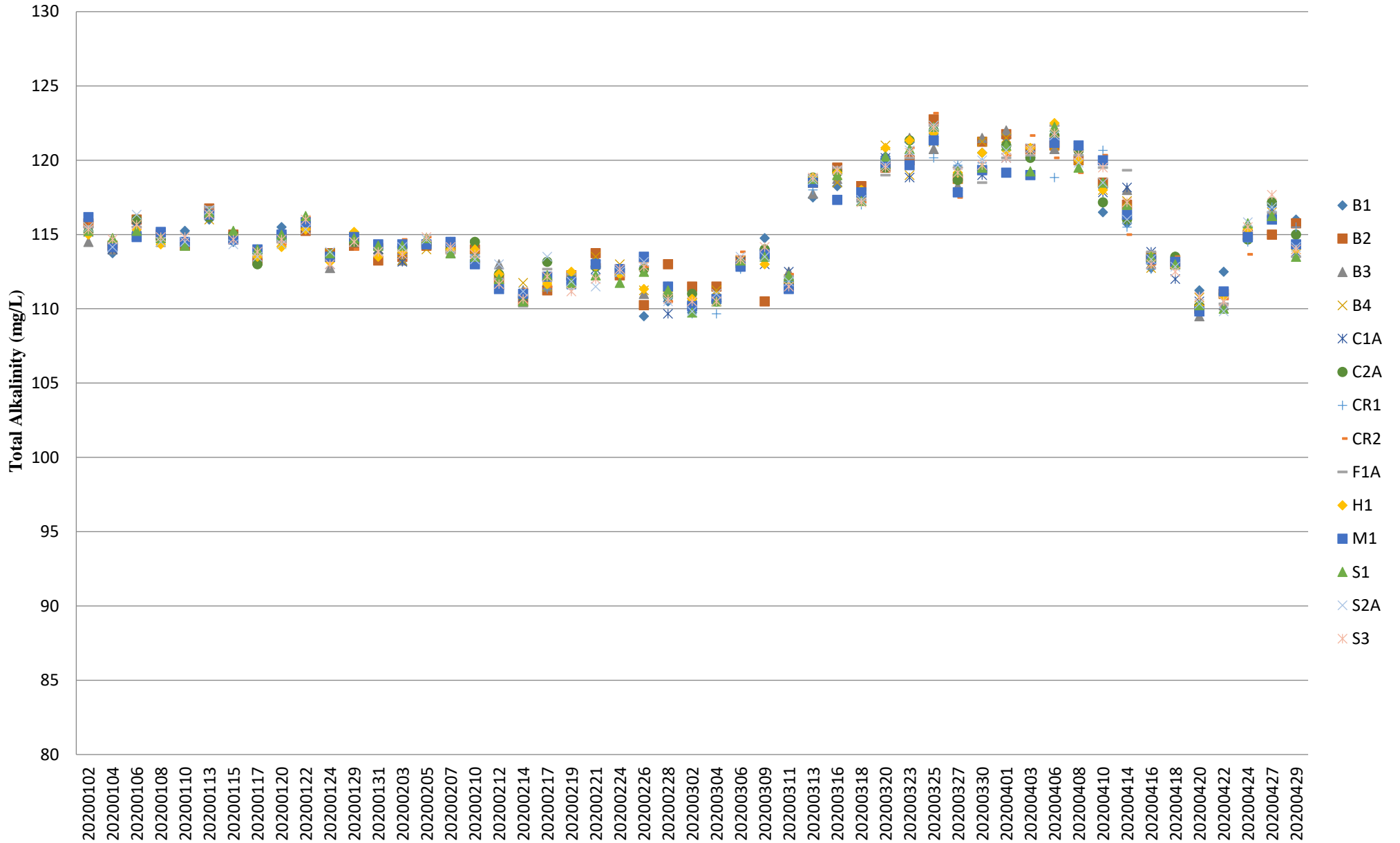
Note: The Action and Limit Level of temperature can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Temperature (Depth-averaged) during MID-EBB



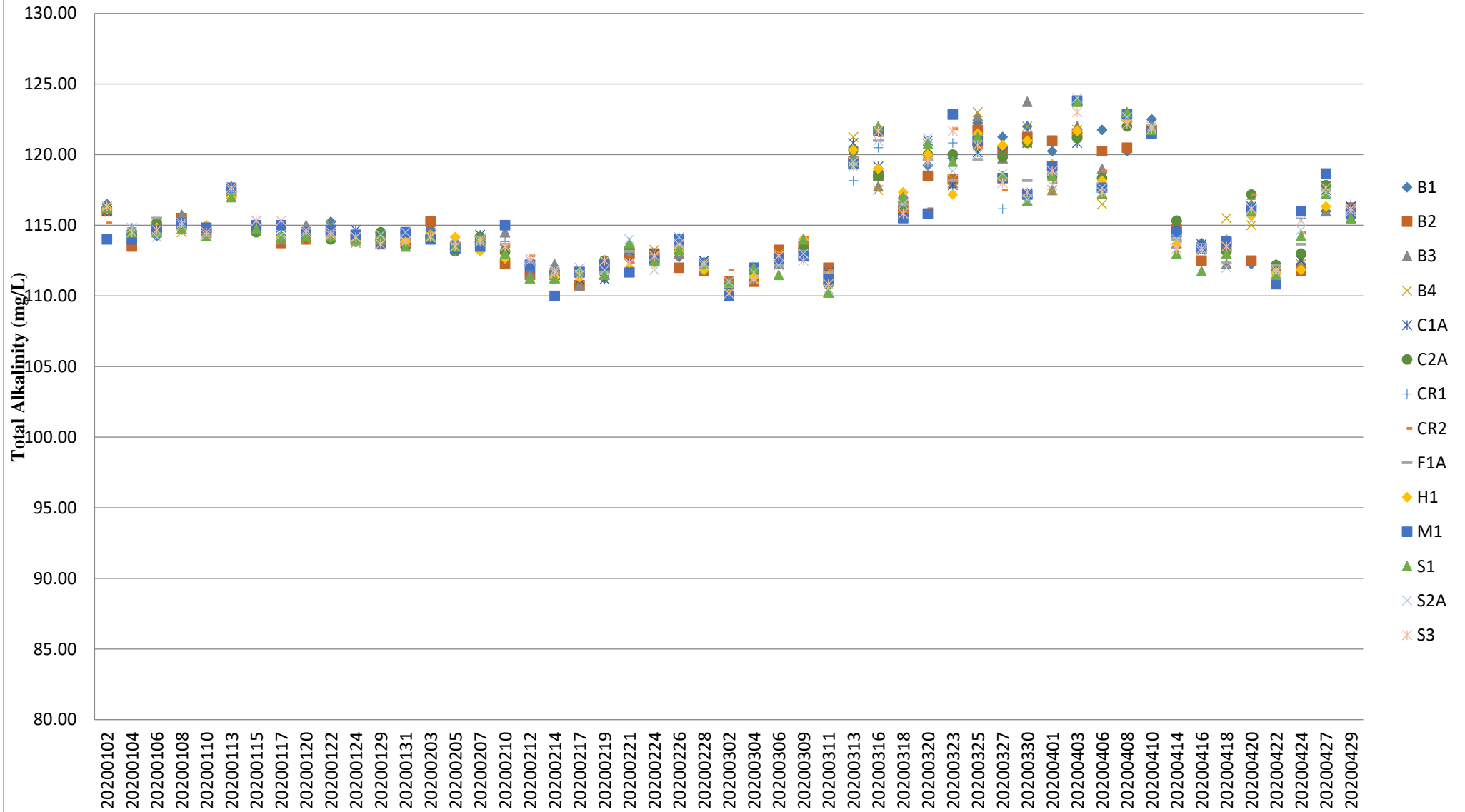
Note: The Action and Limit Level of temperature can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Total Alkalinity (Depth-averaged) during MID-FLOOD



Note: The Action and Limit Level of total alkalinity can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Total Alkalinity (Depth-averaged) during MID-EBB



Note: The Action and Limit Level of total alkalinity can be referred to **Table 2.7 & 2.8** of the monthly EM&A report.

Appendix E HOKLAS Laboratory Certificate



Hong Kong Accreditation Service
香港認可處

Certificate of Accreditation
認可證書

This is to certify that
特此證明

ALS TECHNICHEM (HK) PTY LIMITED

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街1-3號忠信針織中心11樓

*has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a
為香港認可處執行機關根據認可諮詢委員會建議而接受的*

HOKLAS Accredited Laboratory
「香港實驗所認可計劃」認可實驗所

*This laboratory meets the requirements of ISO / IEC 17025 : 2005 – General requirements for the competence
此實驗所符合ISO / IEC 17025 : 2005 – 《測試及校正實驗所能力的通用規定》所訂的要求。
of testing and calibration laboratories and it has been accredited for performing specific tests or calibrations as
這項認可資格演示在指定範疇所需的技術能力及實驗所質量管理體系的運作
獲認可進行載於香港實驗所認可計劃《認可實驗所名冊》內下述測試類別中的指定
listed in the HOKLAS Directory of Accredited Laboratories within the test category of
測試或校正工作*

Environmental Testing
環境測試

*This laboratory is accredited in accordance with the recognised international Standard ISO / IEC 17025 : 2005.
本實驗所乃根據公認的國際標準 ISO / IEC 17025 : 2005 獲得認可。*

*This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
這項認可資格演示在指定範疇所需的技術能力及實驗所質量管理體系的運作
quality management system (see joint IAF-ILAC-ISO Communiqué).
(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。*

*The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive
香港認可處根據認可處執行機關的權限在此蓋上通用印章*

CHAN Sing Sing, Terence, Executive Administrator
執行幹事 陳成城
Issue Date : 5 May 2009
簽發日期：二零零九年五月五日

Registration Number : **HOKLAS 066**
註冊號碼：

Date of First Registration : 15 September 1995
首次註冊日期：一九九五年九月十五日





Hong Kong Accreditation Service
香港認可處

Certificate of Accreditation
認可證書

This is to certify that
特此證明

ACUMEN LABORATORY AND TESTING LIMITED
浩科檢測中心有限公司

Lot 12, Tam Kon Shan Road, North Tsing Yi, New Territories, Hong Kong
香港新界青衣北担杆山路12路段

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a
在認可諮詢委員會的建議下獲香港認可處執行機關接受為

HOKLAS Accredited Laboratory
「香港實驗室認可計劃」認可實驗室

This laboratory meets the requirements of ISO/IEC 17025:2005 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

Environmental Testing

此實驗室符合ISO/IEC 17025:2005所訂的要求
並獲認可進行載於認可範圍內下述測試類別中的指定測試或校正工作

環境測試

This accreditation to ISO/IEC 17025:2005 demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-ILAC-ISO Communiqué).
此項 ISO/IEC 17025:2005 的認可資格證明此實驗室所具備指定範疇內所須的技術能力並實施一套實驗室質量管理體系(見國際認可論壇、國際實驗室認可合作組織及國際標準化組織的聯合公報)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive
現經香港認可處執行機關授權在此蓋上香港認可處的印章

WONG Wang-wah, Executive Administrator
執行幹事 黃宏華
Issue Date : 16 July 2014
簽發日期：二零一四年七月十六日

Registration Number : HOKLAS 241
註冊號碼：



Date of First Registration : 16 July 2014
首次註冊日期：二零一四年七月十六日

This certificate is issued subject to the terms and conditions laid down by HKAS.
本證書按照香港認可處訂立的條款及條件發出

L 001195

Appendix F Water Quality Equipment Calibration Certificate



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ010129
Date of Issue : 05 January, 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit C, 11/F, Ford Glory Plaza
37-39 Wing Hong Street
Cheung Sha Wan, Kowloon, Hong Kong
Attn: Mr. Nelson TSUI

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS Multi Parameters
Manufacturer : YSI (a xylem brand)
Serial Number : 15M101091
Date of Received : Jan 23, 2020
Date of Calibration : Feb 05, 2020
Date of Next Calibration^(a) : May 05, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|------------------|--|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

| Target (pH unit) | Displayed Reading ^(d) (pH Unit) | Tolerance ^(e) (pH Unit) | Results |
|------------------|--|------------------------------------|--------------|
| 4.00 | 4.05 | 0.05 | Satisfactory |
| 7.42 | 7.43 | 0.01 | Satisfactory |
| 10.01 | 10.10 | 0.09 | Satisfactory |

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature

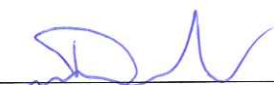
| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|----------------------------------|------------------------|----------------|--------------|
| 5.5 | 5.60 | 0.1 | Satisfactory |
| 24.0 | 23.50 | -0.5 | Satisfactory |
| 56.0 | 54.90 | -1.1 | Satisfactory |

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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


LEE Chun-ning, Desmond
Senior Chemist



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

Report No. : AJ010129
Date of Issue : 05 January, 2020
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results |
|-------------------------|--------------------------|------------------|--------------|
| 0.12 | 0.31 | 0.19 | Satisfactory |
| 3.79 | 4.01 | 0.22 | Satisfactory |
| 6.01 | 6.21 | 0.20 | Satisfactory |
| 7.90 | 8.17 | 0.27 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.87 | -1.30 | Satisfactory |
| 20 | 20.26 | 1.30 | Satisfactory |
| 30 | 30.60 | 2.00 | Satisfactory |

Tolerance limit of salinity should be less than ± 10.0 (%)

(5) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|------------------------|--|------------------------------|--------------|
| 0 | 0.9 | -- | Satisfactory |
| 10 | 10.8 | 8.0 | Satisfactory |
| 20 | 21.0 | 5.0 | Satisfactory |
| 100 | 103.0 | 3.0 | Satisfactory |
| 800 | 807.0 | 0.9 | Satisfactory |

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

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



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
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ010047
Date of Issue : 16 January 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit C, 11/F, Ford Glory Plaza
37-39 Wing Hong Street
Cheung Sha Wan, Kowloon, Hong Kong
Attn: Mr. Nelson TSUI

PART B – DESCRIPTION

Name of Equipment : Multi Water Quality Checker U-53
Manufacturer : Horiba
Serial Number : UHB5F2BB
Date of Received : Jan 07, 2020
Date of Calibration : Jan 15, 2020
Date of Next Calibration^(a) : Apr 14, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|-------------------------------|--|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |
| Oxidation-Reduction Potential | APHA 22e 2580 B |

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

| Target (pH unit) | Displayed Reading ^(d) (pH Unit) | Tolerance ^(e) (pH Unit) | Results |
|------------------|--|------------------------------------|--------------|
| 4.00 | 4.09 | 0.09 | Satisfactory |
| 7.42 | 7.41 | -0.01 | Satisfactory |
| 10.01 | 10.03 | 0.02 | Satisfactory |

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|----------------------------------|------------------------|----------------|--------------|
| 12.0 | 12.8 | 0.8 | Satisfactory |
| 27.0 | 27.2 | 0.2 | Satisfactory |
| 49.0 | 48.2 | -0.8 | Satisfactory |

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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


LEE Chun-ning, Desmond
Senior Chemist



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results |
|-------------------------|--------------------------|------------------|--------------|
| 0.04 | 0.01 | -0.03 | Satisfactory |
| 3.00 | 2.85 | -0.15 | Satisfactory |
| 5.53 | 5.46 | -0.07 | Satisfactory |
| 8.53 | 8.40 | -0.13 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 10.21 | 2.10 | Satisfactory |
| 20 | 19.59 | -2.05 | Satisfactory |
| 30 | 30.59 | 1.97 | Satisfactory |

Tolerance limit of salinity should be less than ± 10.0 (%)

(5) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|------------------------|--|------------------------------|--------------|
| 0 | 0.60 | -- | Satisfactory |
| 10 | 9.86 | -1.4 | Satisfactory |
| 20 | 18.60 | -7.0 | Satisfactory |
| 100 | 96.10 | -3.9 | Satisfactory |
| 800 | 770.00 | -3.8 | Satisfactory |

Tolerance limit of turbidity should be less than ± 10.0 (%)

(6) Oxidation-Reduction Potential

| Expected Reading (mV) | Displayed Reading (mV) | Tolerance (mV) ^(g) | Results |
|-----------------------|------------------------|-------------------------------|--------------|
| 222 | 226 | 4 | Satisfactory |

Tolerance limit of Oxidation-Reduction Potential should be less than ± 10 (mV)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

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



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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AJ020031
Date of Issue : 25 February, 2020
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit C, 11/F, Ford Glory Plaza
37-39 Wing Hong Street
Cheung Sha Wan, Kowloon, Hong Kong
Attn: Mr. Nelson TSUI

PART B – DESCRIPTION

Name of Equipment : Multi Water Quality Checker U-53
Manufacturer : Horiba
Serial Number : L20550GA
Date of Received : Feb 18, 2020
Date of Calibration : Feb 24, 2020
Date of Next Calibration^(a) : May 24, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|------------------|--|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

| Target (pH unit) | Displayed Reading ^(d) (pH Unit) | Tolerance ^(e) (pH Unit) | Results |
|------------------|--|------------------------------------|--------------|
| 4.00 | 4.08 | 0.08 | Satisfactory |
| 7.42 | 7.38 | -0.04 | Satisfactory |
| 10.01 | 10.05 | 0.04 | Satisfactory |

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature


| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|----------------------------------|------------------------|----------------|--------------|
| 11.0 | 11.65 | 0.7 | Satisfactory |
| 25.0 | 25.80 | 0.8 | Satisfactory |
| 43.0 | 42.54 | -0.5 | Satisfactory |

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- ^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
^(b) The results relate only to the calibrated equipment as received
^(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
^(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
^(e) 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.


LEE Chun-ning, Desmond
Senior Chemist



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results |
|-------------------------|--------------------------|------------------|--------------|
| 0.08 | 0.08 | 0.00 | Satisfactory |
| 2.39 | 2.48 | 0.09 | Satisfactory |
| 5.00 | 5.18 | 0.18 | Satisfactory |
| 8.45 | 8.42 | -0.03 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.76 | -2.40 | Satisfactory |
| 20 | 19.91 | -0.45 | Satisfactory |
| 30 | 29.00 | -3.33 | Satisfactory |

Tolerance limit of salinity should be less than ± 10.0 (%)

(5) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|------------------------|--|------------------------------|--------------|
| 0 | 0.7 | -- | Satisfactory |
| 10 | 10.8 | 8.0 | Satisfactory |
| 20 | 21.4 | 7.0 | Satisfactory |
| 100 | 98.0 | -2.0 | Satisfactory |
| 800 | 800.0 | 0.0 | Satisfactory |

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

^(f) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

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

Appendix G Event / Action Plan for Water Quality Exceedance

| Event | Action | | | |
|--|---|---|--|--|
| | ET | IEC | SO | Contractor |
| Action level being exceeded by one sampling day | Repeat in-situ measurement to confirm findings; Identify 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. (The above actions should be taken within 1 working day after the exceedance is identified) | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) | Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified) | Inform the SO 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 SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) |
| Action level being exceeded by more than one consecutive sampling days | Identify 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 working day of exceedance. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days) | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days) | 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. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days) | Inform the SO 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 SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days) |

| Event | Action | | | |
|--|---|--|---|---|
| | ET | IEC | SO | Contractor |
| Limit level being exceeded by one sampling day | <p>Inform the SO and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with Contractor, IEC and SO and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)</p> | <p>Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)</p> | <p>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 measures. (The above actions should be taken within 1 working day after the exceedance is identified)</p> | <p>Inform the SO 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, IEC and SO and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)</p> |

| Event | Action | | | |
|---|---|--|---|---|
| | ET | IEC | SO | Contractor |
| Limit level being exceeded by more than one consecutive sampling days | Identify 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, SO and Contractor. Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days) | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days) | 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 measures. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days) | Inform the SO 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, IEC and SO and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures; As directed by the SOR, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days) |

Appendix H Noise Monitoring Equipment Calibration Certificate

Certificate of Calibration

for

Description: *Sound Level Meter*
Manufacturer: *SVANTEK*
Type No.: *971 (Serial No.: 77731)*
Microphone: *ACO 7052E (Serial No.: 72681)*
Preamplifier: *SV18 (Serial No.: 78763)*

Submitted by:

Customer: *Acuity Sustainability Consulting Limited*
Address: *Unit C, 11/F., Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon*

Upon receipt for calibration, the instrument was found to be:

- Within**
 Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 12 February 2020

Date of calibration: 13 February 2020

Calibrated by: Ng
Calibration Technician

Certified by: Mr. Ng Yan Wa
*Mr. Ng Yan Wa
Laboratory Manager*

Date of issue: 13 February 2020

Certificate No.: APJ19-160-CC001



Page 1 of 4

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 23.7°C
 Air Pressure: 1006 hPa
 Relative Humidity: 66.2 %

3. Calibration Equipment:

| | Type | Serial No. | Calibration Report Number | Traceable to |
|--------------------------|----------|------------|---------------------------|--------------|
| Multifunction Calibrator | B&K 4226 | 2288467 | AV180064 | HOKLAS |

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

| Setting of Unit-under-test (UUT) | | | Applied value | | UUT Reading, | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|---------------|---------------|--------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| 34.2-136.2 | dBA SPL | Fast | 94 | 1000 | 94.0 | ±0.4 |

Linearity

| Setting of Unit-under-test (UUT) | | | Applied value | | UUT Reading, | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|---------------|---------------|--------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| 34.2-136.2 | dBA SPL | Fast | 94 | 1000 | 94.0 | Ref |
| | | | 104 | | 104.0 | ±0.3 |
| | | | 114 | | 114.0 | ±0.3 |

Time Weighting

| Setting of Unit-under-test (UUT) | | | Applied value | | UUT Reading, | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|---------------|---------------|--------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB |
| 34.2-136.2 | dBA SPL | Fast | 94 | 1000 | 94.0 | Ref |
| | | Slow | | | 94.0 | ±0.3 |

Certificate No.: APJ19-160-CC001



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Frequency Response

Linear Response

| Setting of Unit-under-test (UUT) | | | Applied value | | UUT Reading, dB | IEC 61672 Class 1 Specification, dB |
|----------------------------------|-----------------|----------------|---------------|---------------|--------------------|--|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | | |
| 34.2-136.2 | dB | SPL | 94 | Fast | 31.5 | ±2.0 |
| | | | | | 63 | ±1.5 |
| | | | | | 125 | ±1.5 |
| | | | | | 250 | ±1.4 |
| | | | | | 500 | ±1.4 |
| | | | | | 1000 | Ref |
| | | | | | 2000 | ±1.6 |
| | | | | | 4000 | ±1.6 |
| | | | | 8000 | +2.1; -3.1 | |

A-weighting

| Setting of Unit-under-test (UUT) | | | Applied value | | UUT Reading, dB | IEC 61672 Class 1 Specification, dB |
|----------------------------------|-----------------|----------------|---------------|---------------|--------------------|--|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | | |
| 34.2-136.2 | dBA | SPL | 94 | Fast | 31.5 | -39.4±2.0 |
| | | | | | 63 | -26.2±1.5 |
| | | | | | 125 | -16.1±1.5 |
| | | | | | 250 | -8.6±1.4 |
| | | | | | 500 | -3.2±1.4 |
| | | | | | 1000 | Ref |
| | | | | | 2000 | +1.2±1.6 |
| | | | | | 4000 | +1.0±1.6 |
| | | | | 8000 | -1.1±2.1; -3.1 | |

C-weighting

| Setting of Unit-under-test (UUT) | | | Applied value | | UUT Reading, dB | IEC 61672 Class 1 Specification, dB |
|----------------------------------|-----------------|----------------|---------------|---------------|--------------------|--|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | | |
| 34.2-136.2 | dBC | SPL | 94 | Fast | 31.5 | -3.0±2.0 |
| | | | | | 63 | -0.8±1.5 |
| | | | | | 125 | -0.2±1.5 |
| | | | | | 250 | -0.0±1.4 |
| | | | | | 500 | -0.0±1.4 |
| | | | | | 1000 | Ref |
| | | | | | 2000 | -0.2±1.6 |
| | | | | | 4000 | -0.8±1.6 |
| | | | | 8000 | -3.0 +2.1: -3.1 | |



Certificate No.: APJ19-160-CC001

Page 3 of 4

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

| | | |
|--------|---------|--------|
| 94 dB | 31.5 Hz | ± 0.15 |
| | 63 Hz | ± 0.10 |
| | 125 Hz | ± 0.10 |
| | 250 Hz | ± 0.10 |
| | 500 Hz | ± 0.10 |
| | 1000 Hz | ± 0.05 |
| | 2000 Hz | ± 0.05 |
| | 4000 Hz | ± 0.05 |
| | 8000 Hz | ± 0.15 |
| 104 dB | 1000 Hz | ± 0.05 |
| 114 dB | 1000 Hz | ± 0.05 |

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.





MAXLAB

CALIBRATION CERTIFICATE

Certificate Information

Date of Issue

22-Oct-2019

Certificate Number

MLCN192765S

Customer Information

Company Name

Acuity Sustainability Consulting Limited

Address

Unit C, 11/F, Ford Glory Plaza,
No. 37-39 Wing Hong Street,
Cheung Sha Wan, Kowloon, Hong Kong

Equipment-under-Test (EUT)

Description

Sound Level Calibrator

Manufacturer

Rion

Model Number

NC-74

Serial Number

34504770

Equipment Number

--

Calibration Particular

Date of Calibration

22-Oct-2019

Calibration Equipment

4231(MLTE008) / AV180068 / 13-May-20
1357(MLTE190) / MLEC19/05/02 / 26-May-20

Calibration Procedure

MLCG00, MLCG15

Calibration Conditions

| | | |
|------------|-------------------|------------------|
| Laboratory | Temperature | 23 °C ± 5 °C |
| | Relative Humidity | 55% ± 25% |
| EUT | Stabilizing Time | Over 3 hours |
| | Warm-up Time | Not applicable |
| | Power Supply | Internal battery |

Calibration Results

Calibration data were detailed in the continuation pages.
All calibration results were within EUT specification.

Approved By & Date

K.O. Lo

22-Oct-2019

Statements

- * Calibration equipment used for this calibration are traceable to national / international standards.
- * The results on this Calibration Certificate only relate to the values measured at the time of the calibration and the uncertainties quoted will not include allowance for the EUT long term drift, variation with environmental changes, vibration and shock during transportation, overloading, mishandling, misuse, and the capacity of any other laboratory to repeat the measurement.
- * MaxLab Calibration Centre Limited shall not be liable for any loss or damage resulting from the use of the EUT.
- * The copy of this Certificate is owned by MaxLab Calibration Centre Limited. No part of this Certificate may be reproduced without the prior written approval of MaxLab Calibration Centre Limited.



MAXLAB

Certificate No. MLCN192765S

Calibration Data

| EUT Setting | Standard Reading | EUT Error from Setting | Calibration Uncertainty | EUT Specification |
|-------------|------------------|------------------------|-------------------------|-------------------|
| 94 dB | 94.0 dB | 0.0 dB | 0.20 dB | ± 0.3 dB |

- END -

Calibrated By :

Dan

Checked By :

K.O. Lo

Date :

22-Oct-19

Date :

22-Oct-19

Page 2 of 2

Appendix I Event / Action Plan for Noise Exceedance

| Event | Actions to be taken by Environmental Team as immediate as practicable | Actions to be taken by Independent Environmental Checker as immediate as practicable | Actions to be taken by Supervising Officer's Representative as immediate as practicable | Actions to be taken by Contractor as immediate as practicable |
|-----------------------------|--|---|---|--|
| Action Level being exceeded | <ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, SO and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified) | <ol style="list-style-type: none"> 1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the SO accordingly; 3. Advise the SO on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified). | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified). | <ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC and SO; 2. Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified) |
| Limit Level being exceeded | <ol style="list-style-type: none"> 1. Inform IEC, SO, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and SO on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) | <ol style="list-style-type: none"> 1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; (The above actions should be taken within 2 working days after the exceedance is identified) | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and SO within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the SO until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) |

Appendix J Noise Monitoring Data

Location: Alternative noise monitoring location (FTB-17)

Monitoring date: 7, 15, 25 & 29 April 2020 (Daytime)
 7&8, 15&16, 24&25, 28&29 April 2020 (Evening & Night time)

Parameter : $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

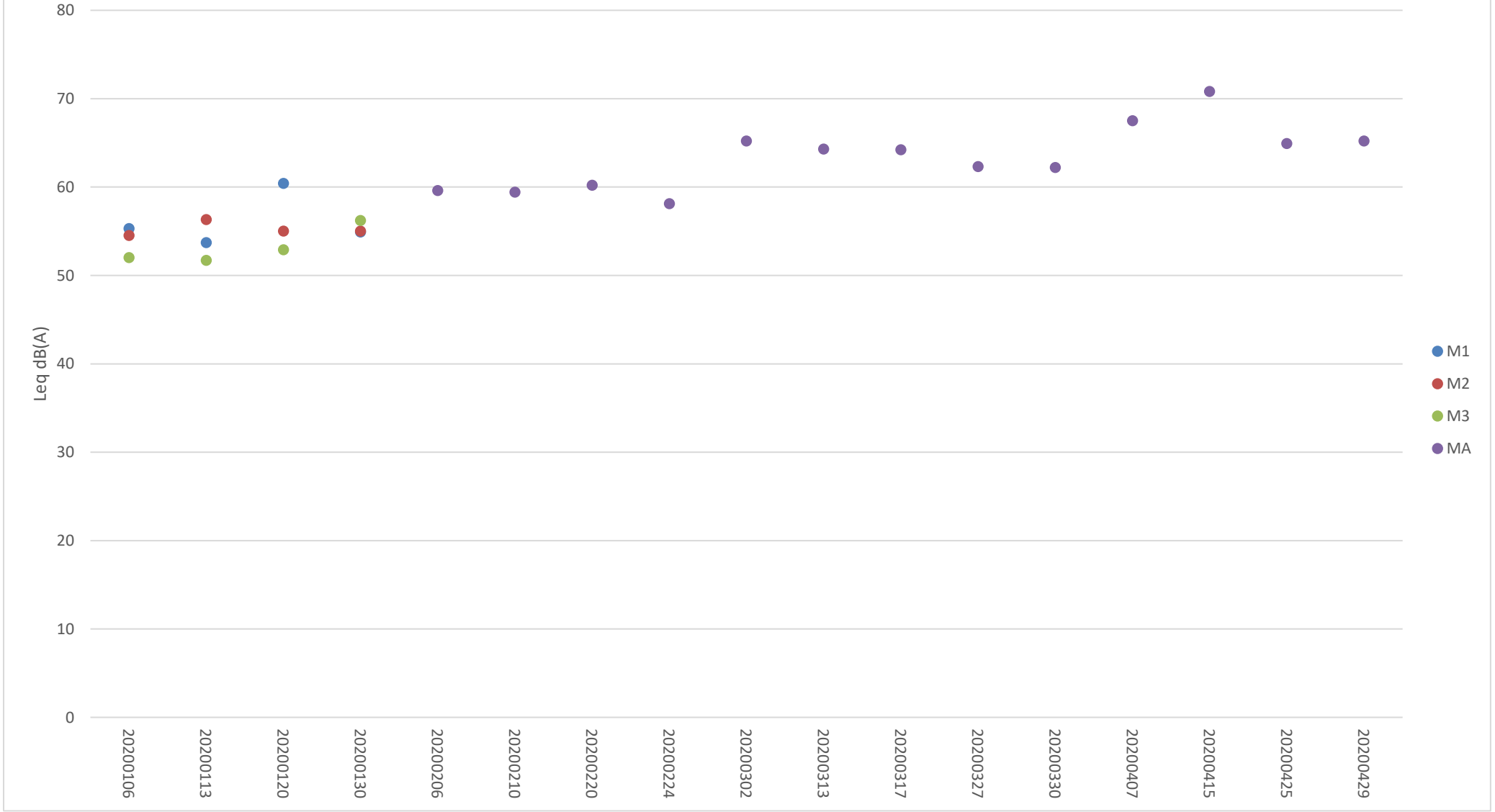
Noise source other than construction activities from the Project: Sound of sea waves

Noise Monitoring data:

| Date | Start time | | End time | Weather | $L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A) | Free-field Corr., dB(A) | Sound Level Meter Used | Calibrator Used |
|-------------|------------|---|----------|---------|--|-------------------------|--------------------------------|---------------------------|
| 7 Apr 2020 | 16:05 | - | 16:35 | Sunny | 64.5 | 67.5 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| 7 Apr 2020 | 19:05 | - | 19:10 | Fine | 61.8 | 64.8 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| | 20:05 | - | 20:10 | | 61.0 | 64.0 | | |
| | 21:05 | - | 21:10 | | 56.1 | 59.1 | | |
| 8 Apr 2020 | 01:05 | - | 01:10 | Fine | 56.9 | 59.9 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| | 03:05 | - | 03:10 | | 55.0 | 58.0 | | |
| | 05:05 | - | 05:10 | | 55.4 | 58.4 | | |
| 15 Apr 2020 | 16:03 | - | 16:33 | Sunny | 67.8 | 70.8 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| 15 Apr 2020 | 19:03 | - | 19:08 | Fine | 61.8 | 64.8 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| | 20:03 | - | 20:08 | | 60.8 | 63.8 | | |
| | 21:03 | - | 21:08 | | 56.0 | 59.0 | | |
| 16 Apr 2020 | 01:03 | - | 01:08 | Fine | 55.0 | 58.0 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| | 03:03 | - | 03:08 | | 55.2 | 58.2 | | |
| | 05:03 | - | 05:08 | | 55.3 | 58.3 | | |
| 24 Apr 2020 | 19:12 | - | 19:17 | Fine | 61.0 | 64.0 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| | 20:12 | - | 20:17 | | 61.7 | 64.7 | | |
| | 21:12 | - | 21:17 | | 56.1 | 59.1 | | |
| 25 Apr 2020 | 01:12 | - | 01:17 | Fine | 54.7 | 57.7 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| | 03:12 | - | 03:17 | | 55.7 | 58.7 | | |
| | 05:12 | - | 05:17 | | 56.0 | 59.0 | | |
| 25 Apr 2020 | 08:12 | - | 08:42 | Sunny | 61.9 | 64.9 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |

| Date | Start time | | End time | Weather | L_{eq} 30min dB(A) / L_{eq} 5min dB(A) | Free- field Corr., dB(A) | Sound Level Meter Used | Calibrator Used |
|----------------|-------------------|---|-----------------|----------------|---|---|-----------------------------------|------------------------------|
| 28 Apr 2020 | 19:09 | - | 19:14 | Fine | 61.6 | 64.6 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| | 20:09 | - | 20:14 | | 61.1 | 64.1 | | |
| | 21:09 | - | 21:14 | | 56.4 | 59.4 | | |
| 29 Apr 2020 | 01:09 | - | 01:14 | Fine | 56.6 | 59.6 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |
| | 03:09 | - | 03:14 | | 55.6 | 58.6 | | |
| | 05:09 | - | 05:14 | | 55.8 | 58.8 | | |
| 29 Apr 2020 | 08:09 | - | 08:39 | Sunny | 62.2 | 65.2 | SVANTEK 971 (Serial No. 77731) | Rion NC-74 (No. 34504770) |

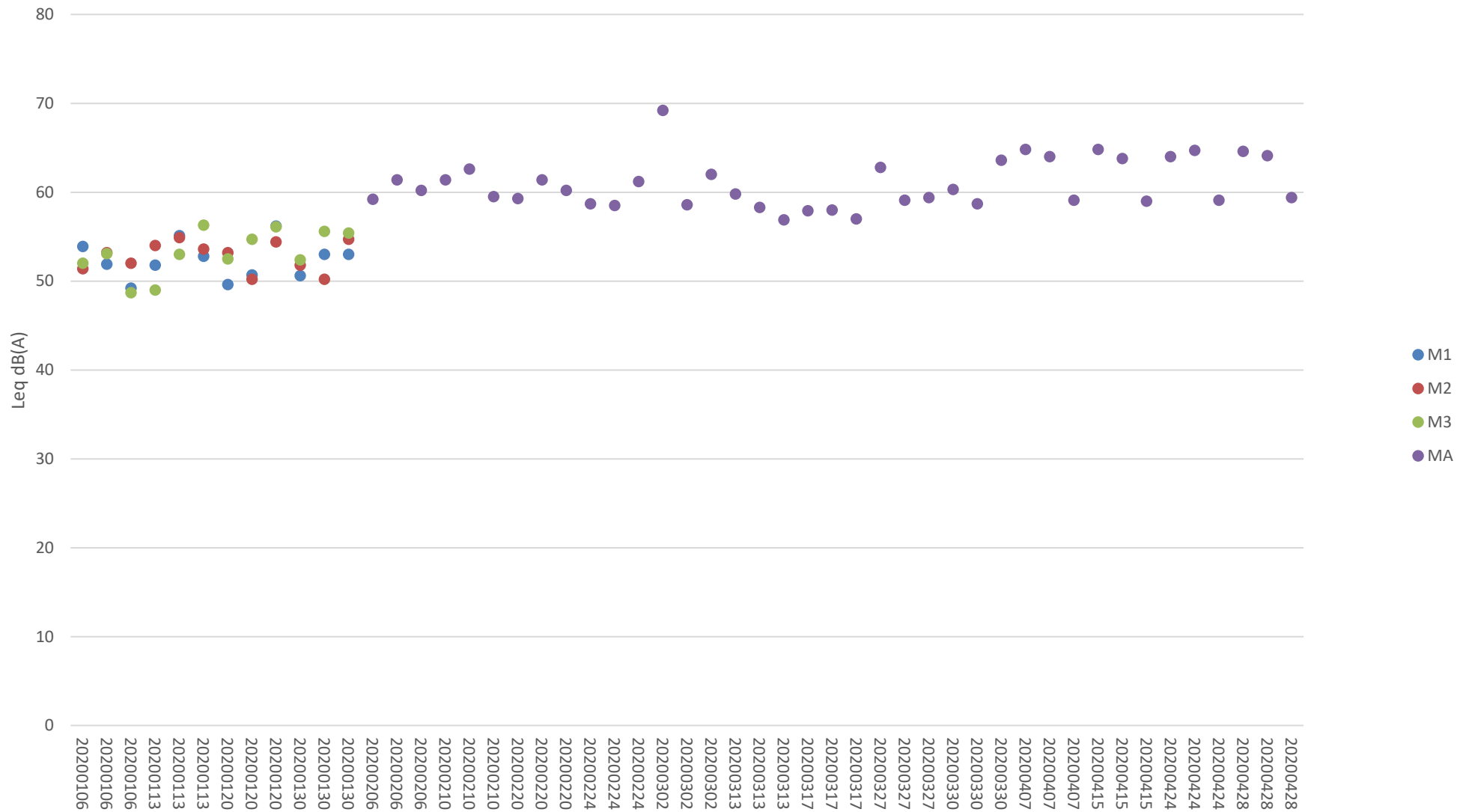
Impact Noise Monitoring Results during Day Time (0700 - 1900 hours)



*Based on the concern of novel coronavirus in Feb 2020, access to Shek Kwu Chau was rejected by SADRA. Hence, the alternative noise monitoring location (MA) at the farthest barge outside the site boundary was proposed by ET and agreed by IEC which subject to EPD approval.

**A correction of +3 dB(A) would be made to the free field measurements.

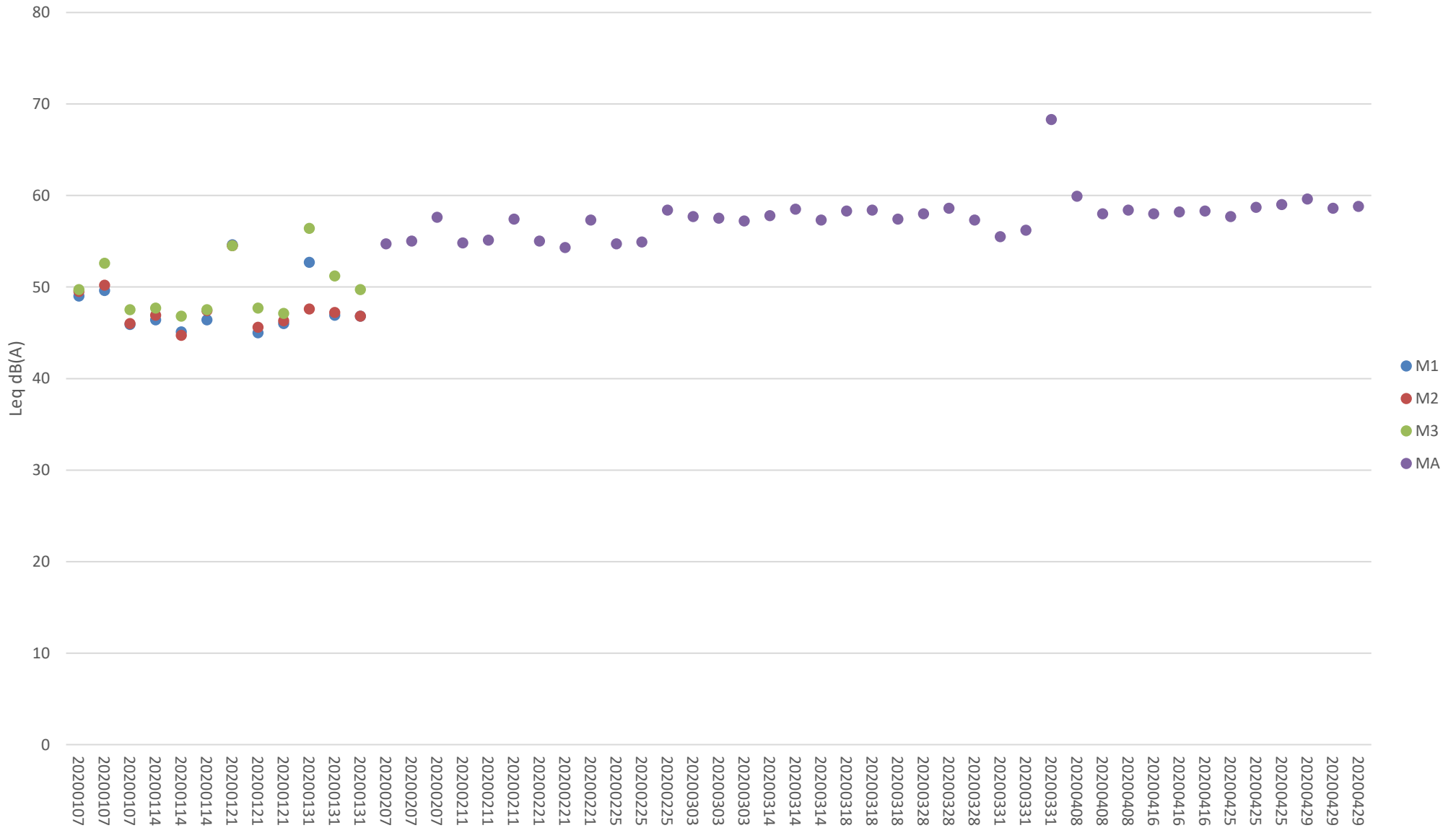
Additional Impact Noise Monitoring Results during Evening Time (1900 - 2300 hours)



*Based on the concern of novel coronavirus in Feb 2020, access to Shek Kwu Chau was rejected by SADRA. Hence, the alternative noise monitoring location (MA) at the farthest barge outside the site boundary was proposed by ET and agreed by IEC which subject to EPD approval.

**A correction of +3 dB(A) would be made to the free field measurements.

Additional Impact Noise Monitoring Results during Night Time (2300 - 0700 hours)



*Based on the concern of novel coronavirus in Feb 2020, access to Shek Kwu Chau was rejected by SADRA. Hence, the alternative noise monitoring location (MA) at the farthest barge outside the site boundary was proposed by ET and agreed by IEC which subject to EPD approval.

**A correction of +3 dB(A) would be made to the free field measurements.

Appendix K Waste Flow Table



Monthly Summary Waste Flow Table for 2018 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | | |
|-----------|--|--|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------|---|----------------------------|-----------------------|----------------|------------|--|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill Sand | Imported Fill Public fill | Imported Fill Rock | Metals | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste | | Others, e.g. general refuse (see Note 3) |
| | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | | | (in ,000 kg) | (in ,000kg) | (in ,000kg) | (in ,000kg) | (in ,000L) | (in ,000 m ³) |
| Jan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Feb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub-total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aug | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0065 |
| Sep | 0 | 0 | 0 | 0 | 0 | 2.9619 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oct | 0 | 0 | 0 | 0 | 0 | 3.0771 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.013 |
| Nov | 0 | 0 | 0 | 0 | 0 | 6.7871 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dec | 0 | 0 | 0 | 0 | 0 | 59.0709 | 0 | 0 | 0 | 0 | 0 | 0.200 | 0.8700 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 71.8970 | 0 | 0 | 0 | 0 | 0 | 0.200 | 0.8700 | 0.0195 |

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.



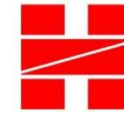
Monthly Summary Waste Flow Table for 2019 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | | |
|-----------|--|--|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------|---|----------------------------|-----------------------|----------------|------------|--|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill Sand | Imported Fill Public fill | Imported Fill Rock | Metals | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste | | Others, e.g. general refuse (see Note 3) |
| | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | | | (in ,000 kg) | (in ,000kg) | (in ,000kg) | (in ,000kg) | (in ,000L) | (in ,000 m ³) |
| Jan | 0 | 0 | 0 | 0 | 0 | 82.6139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0065 |
| Feb | 0 | 0 | 0 | 0 | 0 | 46.7821 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mar | 0 | 0 | 0 | 0 | 0 | 97.1000 | 0 | 0.7552 | 0 | 0.2560 | 0 | 0 | 0 | 0 |
| Apr | 0 | 0 | 0 | 0 | 0 | 58.0413 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 14.5625 | 0 | 1.4648 | 0 | 0 | 0 | 0 | 0 | 0.0065 |
| Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.8421 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub-total | 0 | 0 | 0 | 0 | 0 | 299.0998 | 0 | 9.0621 | 0 | 0.2560 | 0 | 0 | 0 | 0.013 |
| Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4289 | 0 | 0 | 0 | 0 | 8.4000 | 0.013 |
| Aug | 0 | 0 | 0 | 0 | 0 | 2.5775 | 0 | 10.5600 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sep | 0 | 0 | 0 | 0 | 0 | 6.1081 | 0 | 8.4704 | 0 | 0.3530 | 0 | 0 | 0 | 0.0065 |
| Oct | 0 | 0 | 0 | 0 | 0 | 9.8875 | 0 | 7.1900 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nov | 0 | 0 | 0 | 0 | 0 | 38.3088 | 0 | 19.3105 | 0 | 0 | 0 | 0 | 0 | 0.0195 |
| Dec | 0 | 0 | 0 | 0 | 0 | 54.3469 | 0 | 26.9807 | 0 | 0 | 0 | 0 | 0 | 0.091 |
| Total | 0 | 0 | 0 | 0 | 0 | 410.3286 | 0 | 82.0026 | 0 | 0.6090 | 0 | 0 | 8.4000 | 0.143 |

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.



Monthly Summary Waste Flow Table for 2020 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | | |
|-----------|--|--|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------|---|----------------------------|-----------------------|----------------|------------|--|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete (see Note 1) | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill Sand | Imported Fill Public fill | Imported Fill Rock | Metals | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste | | Others, e.g. general refuse (see Note 3) |
| | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | (in ,000m ³) | | | (in ,000 kg) | (in ,000kg) | (in ,000kg) | (in ,000kg) | (in ,000L) | (in ,000 m ³) |
| Jan | 0 | 0 | 0 | 0 | 0 | 37.1550 | 0 | 25.0812 | 0 | 0 | 0 | 0 | 0 | 0.0065 |
| Feb | 0 | 0 | 0 | 0 | 0 | 27.7910 | 0 | 18.8300 | 0 | 0 | 0 | 0 | 0 | 0.0065 |
| Mar | 0 | 0 | 0 | 0 | 0 | 22.5669 | 0 | 26.1586 | 0 | 0 | 0 | 0 | 7.2000 | 0.0065 |
| Apr | 0 | 0 | 0 | 0 | 0 | 12.7800 | 0 | 10.1825 | 0 | 0 | 0 | 0 | 0 | 0.0195 |
| May | | | | | | | | | | | | | | |
| Jun | | | | | | | | | | | | | | |
| Sub-total | 0 | 0 | 0 | 0 | 0 | 100.2929 | 0 | 80.2523 | 0 | 0 | 0 | 0 | 7.2000 | 0.0390 |
| Jul | | | | | | | | | | | | | | |
| Aug | | | | | | | | | | | | | | |
| Sep | | | | | | | | | | | | | | |
| Oct | | | | | | | | | | | | | | |
| Nov | | | | | | | | | | | | | | |
| Dec | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | |

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.

Appendix L Event / Action Plan for Coral Monitoring

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

Appendix M Event / Action Plan for White-Bellied Sea Eagle

| Event | Action | | |
|--|--|---|--|
| | Environmental Team | Audit Team | Contractor |
| Absence of White-bellied Sea Eagle during a whole day of monitoring. | <p>Inform audit team.</p> <p>Increase monitoring frequency to daily.</p> | <p>Inform site engineer and contractor.</p> <p>If the absence remains:</p> <ul style="list-style-type: none"> • Review construction activities and noise monitoring records of the associated period; • Identify potential causes of the absence; • Propose remedial measures, such as change of construction method and sequence; • Confirm the feasibility of the proposed remedial measures with site engineer and contractor; • Discuss with environmental team about the effectiveness of the proposed remedial measures. | <p>Implement the agreed remedial measures.</p> |

Appendix N Exceedance Report

Statistical Summary of Exceedances in the Reporting Period

| Water Quality (Regular DCM) | | | |
|-----------------------------|--------------|-------------|-------|
| Location | Action Level | Limit Level | Total |
| B1 | 0 | 0 | 0 |
| B2 | 0 | 0 | 0 |
| B3 | 0 | 0 | 0 |
| B4 | 0 | 0 | 0 |
| CR1 | 0 | 0 | 0 |
| CR2 | 0 | 0 | 0 |
| F1A | 0 | 0 | 0 |
| H1 | 0 | 0 | 0 |
| S1 | 0 | 0 | 0 |
| S2A | 0 | 0 | 0 |
| S3 | 0 | 0 | 0 |
| M1 | 0 | 0 | 0 |

| Noise (Day Time) | | | |
|----------------------|--------------|-------------|-------|
| Location | Action Level | Limit Level | Total |
| MA | 0 | 0 | 0 |
| Noise (Evening Time) | | | |
| Location | Action Level | Limit Level | Total |
| MA | 0 | 0 | 0 |
| Noise (Night Time) | | | |
| Location | Action Level | Limit Level | Total |
| MA | 0 | 0 | 0 |

Appendix O Complaint Log

Statistical Summary of Environmental Complaints

| Reporting Period | Environmental Complaint Statistics | | |
|----------------------------|------------------------------------|------------|------------------|
| | Frequency | Cumulative | Complaint Nature |
| 1 Apr 2020- 30 Apr 2020 | 0 | 0 | N/A |

Statistical Summary of Environmental Summons

| Reporting Period | Environmental Summons Statistics | | |
|----------------------------|----------------------------------|------------|---------|
| | Frequency | Cumulative | Details |
| 1 Apr 2020- 30 Apr 2020 | 0 | 0 | N/A |

Statistical Summary of Environmental Prosecution

| Reporting Period | Environmental Prosecution Statistics | | |
|----------------------------|--------------------------------------|------------|---------|
| | Frequency | Cumulative | Details |
| 1 Apr 2020- 30 Apr 2020 | 0 | 0 | N/A |

Appendix P Impact Monitoring Schedule of Next Reporting Month

Impact Monitoring Schedule for IWMF

| May-20 | | | | | | |
|--------|--|---|---|---------------------------------------|--|--|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | | | 1 | 2 |
| | | | | | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 16:18 - 23:00 Flood Tide: 09:00 - 16:18 Monitoring Time: #8 Mid-ebb: 16:20 - 19:00 Mid-Flood: 10:34 - 14:24 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 07:38 - 12:44 Flood Tide: 12:44 - 19:02 Monitoring Time: Mid-ebb: 08:26 - 11:56 Mid-Flood: 14:08 - 17:38 Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | Impact Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 08:28 - 14:31 Flood Tide: 14:31 - 21:09 Monitoring Time: Mid-ebb: 09:44 - 13:14 Mid-Flood: 14:50 - 18:20 | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 09:32 - 16:10 Flood Tide: 16:10 - 23:10 Monitoring Time: Mid-ebb: 11:06 - 14:36 #8 Mid-Flood: 16:20 - 19:00 | |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 11:24 - 18:57 Flood Tide: 05:00 - 11:24 Monitoring Time: Mid-ebb: 13:25 - 16:55 *# Mid-Flood: 08:00 - 11:20 Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | Impact Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 12:47 - 21:03 Flood Tide: 06:00 - 12:47 Monitoring Time: Mid-ebb: 15:10 - 18:40 * Mid-Flood: 08:00 - 11:30 Ecology monitoring for Marine Mammals by Vessel-based Line-Transsect Survey | Impact Ecology monitoring for WESE | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 14:56 - 23:16 Flood Tide: 08:00 - 14:56 Monitoring Time: Mid-ebb: 15:21 - 18:51 Mid-Flood: 09:43 - 13:13 | |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 07:43 - 13:09 Flood Tide: 13:09 - 18:50 Monitoring Time: Mid-ebb: 08:40 - 12:10 Mid-Flood: 14:14 - 17:44 | Impact Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 08:19 - 14:27 Flood Tide: 14:27 - 20:36 Monitoring Time: Mid-ebb: 09:38 - 13:08 & Mid-Flood: 15:30 - 19:00 Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 08:51 - 15:39 Flood Tide: 15:39 - 22:05 Monitoring Time: Mid-ebb: 10:30 - 14:00 #8 Mid-Flood: 15:50 - 19:00 | |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 11:00 - 17:41 Flood Tide: 03:41 - 11:00 Monitoring Time: Mid-ebb: 12:35 - 16:05 *# Mid-Flood: 08:00 - 11:00 | Impact Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location Ecology monitoring for Marine Mammals by Vessel-based Line-Transsect Survey | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 12:00 - 19:21 Flood Tide: 04:09 - 12:00 Monitoring Time: Mid-ebb: 13:55 - 17:25 Mid-Flood: 08:00 - 11:30 Daytime, Evening & Night time Noise monitoring at Alternative Noise Impact Monitoring Location | Impact Ecology monitoring for WESE | Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1, S1, S2A & S3 Tidal Period: Ebb Tide: 12:44 - 21:20 Flood Tide: 07:00 - 12:44 Monitoring Time: Mid-ebb: 15:17 - 18:47 Mid-Flood: 08:07 - 11:37 | |
| 31 | | | | | | |

- Remarks:
 1. Daytime Noise Monitoring (07:00-19:00), Evening Time Noise Monitoring (19:00-23:00), Night Time Noise Monitoring (23:00-07:00)
 2. Water Quality Monitoring for S1,S2 and S3 will only conduct during DCM works, refer to Detailed DCM Plan

Note:
 * - as per Marine Department Notice No 107 of 2018, all vessels employed for the works should stay in the works area outside the hours of works (0700 to 2300). Due to safety concern, Water Quality Monitoring would start at 0800.
 # - Prioritized routing: Mid-Ebb: C1-9S3-9CR2-9CR1-9H1-9Remaining stations and Mid-Flood: C2-9CR1-9S3-9CR2-9H1-9Remaining stations
 - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is approached.
 # - Due to safety concern for sampling event in night time, method of 90% tidal period as monitoring time is approached and end at 19:00.