H2H Express Submarine Cable

HUAWEI MARINE

Baseline Water Quality Monitoring Report (Zone B)

16 April 2021

Project No.: 0586211

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ERM

Document details	
Document title	H2H Express Submarine Cable
Document subtitle	Baseline Water Quality Monitoring Report (Zone B)
Project No.	0586211
Date	16 April 2021
Version	1.0
Author	Sammi Lam (SL), Clare Ho (CH), Nill Ng (NN)
Client Name	Huawei Marine Networks Co., Ltd

Document history

				ERM approval to issue		
Version	Revision	Author	Reviewed by	Name	Date	Comments
Draft	1.0	SL,CH, NN	Mandy To	Terence Fong	16.04.2021	-

Signature Page

16 April 2021

H2H Express Submarine Cable

Baseline Water Quality Monitoring Report (Zone B)

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中国移动 China Mobile

INTERNATIONAL

Environmental Permit No. EP-575/2020
H2H Express (H2HE) Submarine Cable

Environmental Team Leader Certification & Independent Environmental Checker Verification

Reference Document/Plan

Document/~~Plan~~:	Baseline Water Quality Monitoring Report (Zone B)
Date of Report:	16 April 2021
Certified by ET:	ERM-Hong Kong Ltd.
Verified by IEC:	Vincent Lai (Ecosystems Ltd.)

Reference EP Requirement

EP Condition:	Conditions No. 3.2 – 3.3

Content: *Water Quality Monitoring*

3.2 Samples, measurements and necessary remedial actions shall be taken in accordance with the EM&A requirements described in the Project Profile (Register No.: PP-599/2020) by:

(a) conducting baseline environmental monitoring;

(b) conducting impact monitoring;

(c) conducting post project monitoring; and

(d) carrying out remedial actions described in the Event/Action Plans, or as agreed by the Director, in case where specified criteria are exceeded.

3.3 The Permit Holder shall submit to the Director three hard copies and one electronic copy of the following reports as defined in the EM&A requirements described in the Project Profile (Register No.: PP-599/2020):

(a) Baseline Monitoring Report on water quality at least 2 weeks before the commencement of cable installation works;

(b) Weekly EM&A Report within five days after the relevant monitoring data are collected and audited by IEC; and

(c) Post Project Monitoring Report within one month after completion of the marine works.

ET Certification

I hereby certify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-575/2020.

Mandy To, Environmental Team Leader

Date: 15 April 2021

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IEC Verification

I hereby verify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-575/2020.

Dr Vincent Lai, Independent Environmental Checker:

Date: 16 April 2021

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EXECUTIVE SUMMARY

Baseline Water Quality Monitoring (Zone B)

Baseline water quality (WQ) monitoring in Zone B was conducted between 12 March and 6 April 2021 at four (4) designated monitoring stations (including one [1] Sensitive Receiver Station, one [1] Gradient Station and two [2] Control Stations). The monitoring was carried out three (3) days per week for four (4) consecutive weeks, at mid-flood and mid-ebb tides, at three (3) depths (surface, middle and bottom). The intervals between two (2) sets of monitoring were not less than 36 hours. During the monitoring period, no major activities influencing water quality were observed in the vicinity of the Project's marine works area.

Water quality monitoring results are, therefore, considered to be representative of the current baseline conditions of the area where Phase 2 / Zone B marine cable installation will be undertaken for the Project.

In accordance with *Appendix G* of the Project Profile (PP), the baseline monitoring results have been used to determine the Action and Limit Levels for Dissolved Oxygen (DO), Suspended Solids (SS) and Turbidity for the impact water quality monitoring works, which will be conducted during the H2HE Project marine installation works. The water quality Action and Limit Levels for Zone B are summarized in ***Table 1*** below.

Table 1 Action and Limit Level for Water Quality – Zone B

Parameter	Action Level	Limit Level
SS in mgL^{-1} (Depth-averaged)	4.7 mg L^{-1}, or 20% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher	6.4 mg L^{-1}, or 30% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher
DO in mgL^{-1}	Surface and Middle 6.81 mg L^{-1} Bottom 6.63 mg L^{-1}	Surface and Middle 4 mg L^{-1} Bottom 2 mg L^{-1}
Turbidity in NTU (Depth-averaged)	3.4 NTU, or 20% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher	3.7 NTU, or 30% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher

Notes:

a. For DO, non-compliance of the water quality limits occurs when the monitoring result is lower than the limits.
b. "Depth-averaged" is calculated by taking the arithmetic means of reading of all sampled depths.
c. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
d. The Action and Limit Level for DO for surface and middle layer were calculated from the combined pool of baseline surface layer data and baseline middle layer data.

1. INTRODUCTION

1.1 Background

The proposed submarine cable is a section of the H2H Express submarine optical fibre cable system (hereafter known as 'H2HE' and / or the Project), which is over 680 kilometers long in total. The system will further boost the external telecommunications capacity of Hong Kong, reinforcing Hong Kong as a key communication hub in Asia.

The cable will connect to Chung Hom Kok (CHK) within the HKSAR. **China Mobile International (CMI)** is providing the cable landing point and the associated cable landing services in Hong Kong.

The route of the proposed H2HE submarine cable system within Hong Kong SAR is depicted in ***Figure 1.1***. The proposed cable would land at an existing Beach Manhole (BMH) location at Sha Shek Tan (SST), CHK, and connect to an existing Cable Landing Station (CLS).

It should be noted that CHK is currently the landing site for a number of submarine cables (i.e. New T&T domestic cable route, C2C Cable network; and SJC). The existing BMH is connected to the CLS on the hill above the landing beach and existing conduits connect the BMH and CLS.

The cable will travel from SST of CHK southward, exiting Stanley Bay, running south-east, passing the Stanley Peninsular, turning east near the south of Po Toi Island, to the eastern boundary of HKSAR waters, where it will enter the South China Sea.

The Project Profile (PP-599/2020) which includes an assessment of the potential environmental impacts associated with the installation of the submarine telecommunications cable system within HKSAR (including connection to land at CHK) was prepared and submitted to the Environmental Protection Department (EPD) under section 5(1)(b) and 5(11) of the *Environmental Impact Assessment Ordinance* (EIAO) for the application for Permission to apply directly for Environmental Permit (EP). On 17 April 2020, EPD issued a letter to CMI permitting direct application for an environmental permit and following an application, EPD subsequently issued an Environmental Permit (EP-575/2020) on 21 May 2020.

Pursuant to *Condition 3.1* of the EP, an Environmental Monitoring and Audit (EM&A) programme, as set out in the Project Profile (PP) is required for this Project, with baseline water quality monitoring data collected prior to the start of cable installation works, and Action and Limit Levels derived from these data.

The H2HE cable installation is scheduled to be carried out in two (2) phases, with Phase 1 covering land & shore-end works and up to end of Zone A, and Phase 2 covering the remaining marine works of the submarine cable installation (including Zone B). The phasing of the cable installation works is shown in ***Figure 1.2*** to ***Figure 1.4***.

Given the commencement dates between Phase 1 and Phase 2 cable installations are currently scheduled to start more than one (1) month apart, it is recommended to present the baseline water quality monitoring data in separate reports for each Phase (i.e. this Report only presents baseline water quality data for Zone B in Phase 2, as shown in ***Figure 1.4***). The corresponding Action and Limit Levels will also be derived from the baseline water quality monitoring data for each Zone.

The tentative schedule is as follows (following the approved Project Profile (PP), refer to *Section 2.1.1* for further details). It should be noted that installation works for Phase 1 has been completed at the time of writing this Report:

1) **Phase 1 Land & Shore-End Cable Installation and Submarine Cable Installation up to end of Zone A:** Shore-end cable installation to the BMH at SST, CHK, involving land trench excavation and shore-end cable installation of the H2HE submarine cable (i.e. from seaward edge of the beach to approximately 300 m out from the BMH) using diver jetting. Installation of the H2HE submarine cable from shore-end to the end of Zone A (i.e. HK Grid coordinate

838858.620E 806852.911N / at 1.933 km from the landing point), using injector burial tools / sledge tools for simultaneous lay and burial operations.

   a. Land trenching and nearshore marine diver jetting works were scheduled from 3 to 8 April 2021; and

   b. Marine installation works up to end of Zone A using jetting technique were scheduled from 8 to 18 April 2021.

2) **Phase 2 Remaining Submarine Cable Installation:** Installation of the H2HE submarine cable from the end of Zone A (i.e. HK Grid coordinate 838858.620E 806852.911N / at 1.933 km from the landing point), to HKSAR marine eastern boundary, using injector burial tools/ sledge tools for simultaneous lay and burial operations, and potential diver jetting in specific areas (e.g. HK Electric Pipeline crossing).

   a. Remaining marine installation works from end of Zone A to the HKSAR marine eastern boundary using jetting technique tentatively scheduled from 30 April 2021 to 5 May 2021.

1.2 Purpose of this Report

The purpose of this *Baseline Water Quality Monitoring Report – Zone B* is to determine the baseline marine water quality at the designated monitoring locations around the Project works area for Phase 2 prior to the commencement of the Phase 2 Project marine installation works in Zone B. These baseline conditions are used to determine Action and Limit Levels which are used as the basis for assessing water quality impacts, if any, and for compliance monitoring during the Phase 2 Project marine installation works.

Under the requirement of *Condition 3.3(a)* of the EP, the baseline monitoring report on water quality shall be prepared and submitted to the EPD at least two (2) weeks before the commencement of cable installation works.

This baseline EM&A exercise covers only Zone B as stipulated in *Table G2.1* of the approved PP. A separate EM&A exercise had been conducted for Phase 1 cable installation, covering Zone A before the commencement of the Phase 1 cable installation (see separate *Baseline Water Quality Monitoring Report – Zone A,* dated 24 March 2021).

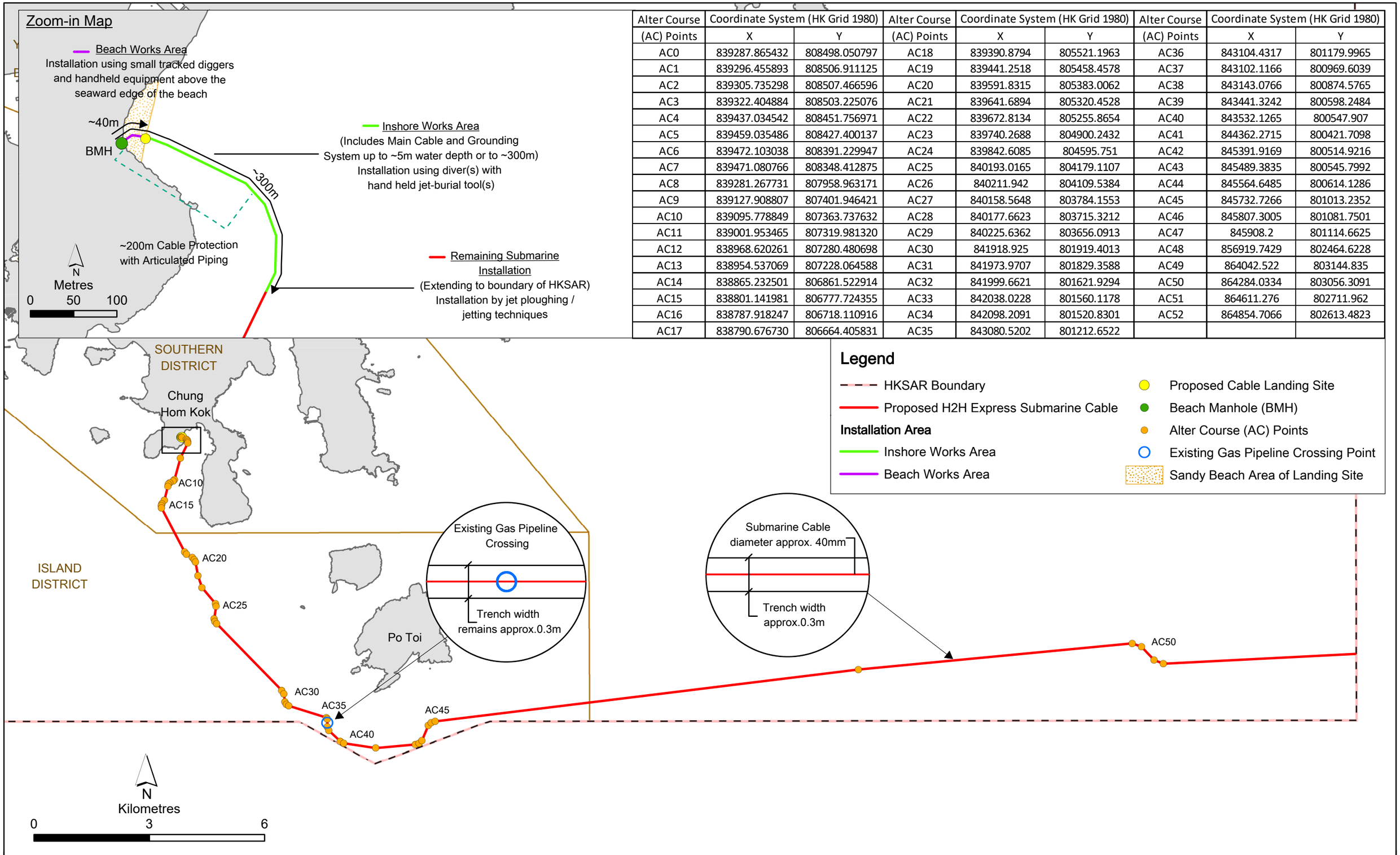
1.3 Structure of this Report

The remainder of the report is structured as follows:

Section 1: Introduction
Provide details of the background, purpose and structure of the Report.

Section 2: Water Quality Monitoring
Summarize the water quality monitoring locations, frequency, monitoring methodology and baseline monitoring results, and establish the Action and Limit Levels in accordance with the *Project Profile*.

Section 3: Conclusion
Conclude the representativeness of the baseline monitoring results and observations for the Project.



Alter Course (AC) Points	Coordinate System (HK Grid 1980) X	Y	Alter Course (AC) Points	Coordinate System (HK Grid 1980) X	Y	Alter Course (AC) Points	Coordinate System (HK Grid 1980) X	Y
AC0	839287.865432	808498.050797	AC18	839390.8794	805521.1963	AC36	843104.4317	801179.9965
AC1	839296.455893	808506.911125	AC19	839441.2518	805458.4578	AC37	843102.1166	800969.6039
AC2	839305.735298	808507.466596	AC20	839591.8315	805383.0062	AC38	843143.0766	800874.5765
AC3	839322.404884	808503.225076	AC21	839641.6894	805320.4528	AC39	843441.3242	800598.2484
AC4	839437.034542	808451.756971	AC22	839672.8134	805255.8654	AC40	843532.1265	800547.907
AC5	839459.035486	808427.400137	AC23	839740.2688	804900.2432	AC41	844362.2715	800421.7098
AC6	839472.103038	808391.229947	AC24	839842.6085	804595.751	AC42	845391.9169	800514.9216
AC7	839471.080766	808348.412875	AC25	840193.0165	804179.1107	AC43	845489.3835	800545.7992
AC8	839281.267731	807958.963171	AC26	840211.942	804109.5384	AC44	845564.6485	800614.1286
AC9	839127.908807	807401.946421	AC27	840158.5648	803784.1553	AC45	845732.7266	801013.2352
AC10	839095.778849	807363.737632	AC28	840177.6623	803715.3212	AC46	845807.3005	801081.7501
AC11	839001.953465	807319.981320	AC29	840225.6362	803656.0913	AC47	845908.2	801114.6625
AC12	838968.620261	807280.480698	AC30	841918.925	801919.4013	AC48	856919.7429	802464.6228
AC13	838954.537069	807228.064588	AC31	841973.9707	801829.3588	AC49	864042.522	803144.835
AC14	838865.232501	806861.522914	AC32	841999.6621	801621.9294	AC50	864284.0334	803056.3091
AC15	838801.141981	806777.724355	AC33	842038.0228	801560.1178	AC51	864611.276	802711.962
AC16	838787.918247	806718.110916	AC34	842098.2091	801520.8301	AC52	864854.7066	802613.4823
AC17	838790.676730	806664.405831	AC35	843080.5202	801212.6522			

Figure 1.1

Proposed H2H Express Submarine Cable

File: T:\GIS\CONTRACT\0586211\mxd\0586211_Cable_Overview_with_crossing_and_zoom.mxd
Date: 18/3/2021

Environmental Resources Management

ERM

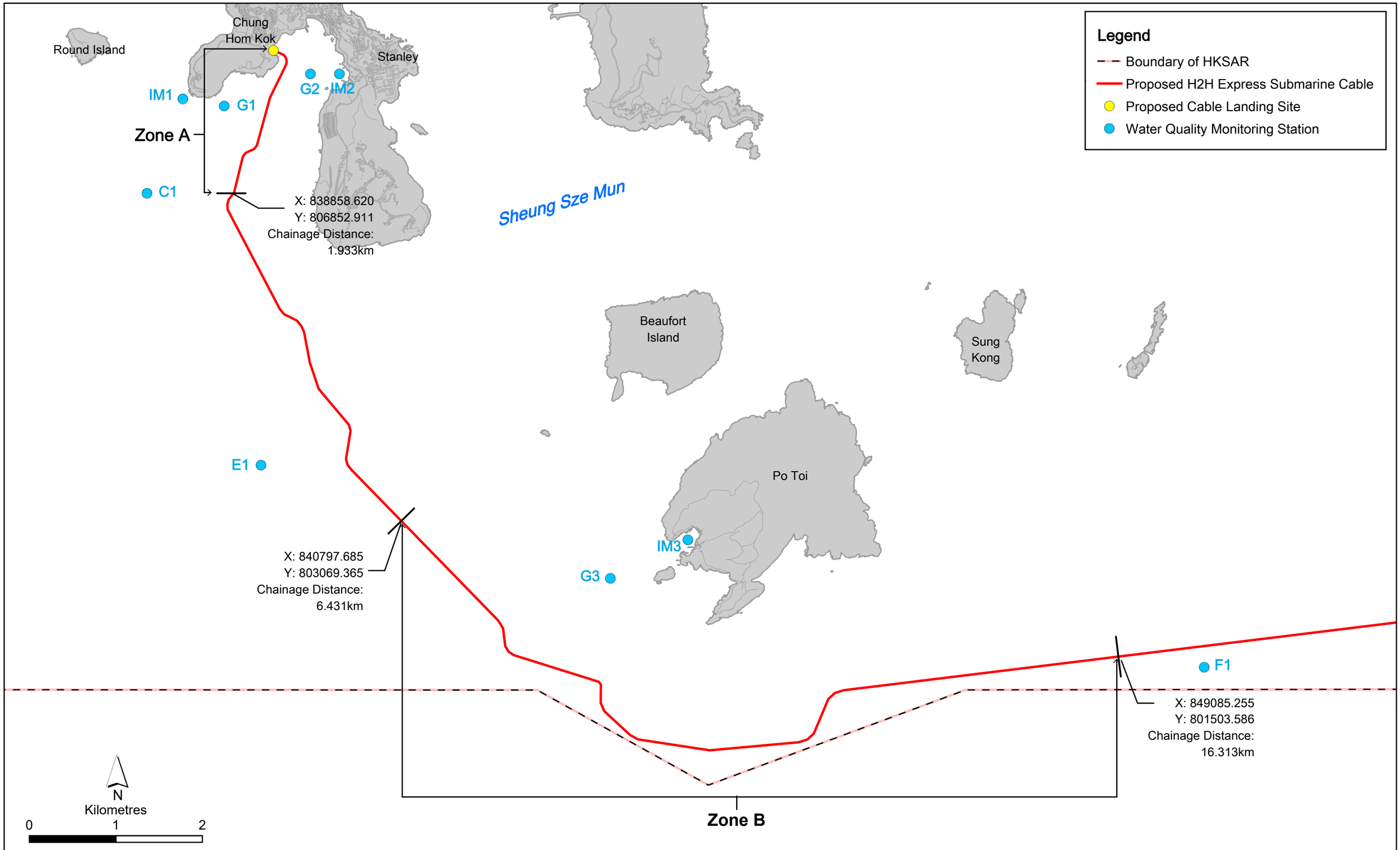


Figure 1.2

Water Quality Monitoring Stations

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Date: 8/4/2021

Environmental Resources Management

ERM

Legend

Proposed H2H Express Submarine Cable

Proposed Cable Landing Site

Water Quality Monitoring Station

Chung Hom Kok

Stanley

IM1

G1

G2

IM2

C1

N

Meters

0 250 500

Figure 1.3

Water Quality Monitoring Stations - Zone A

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Date: 8/4/2021

Environmental Resources Management

ERM

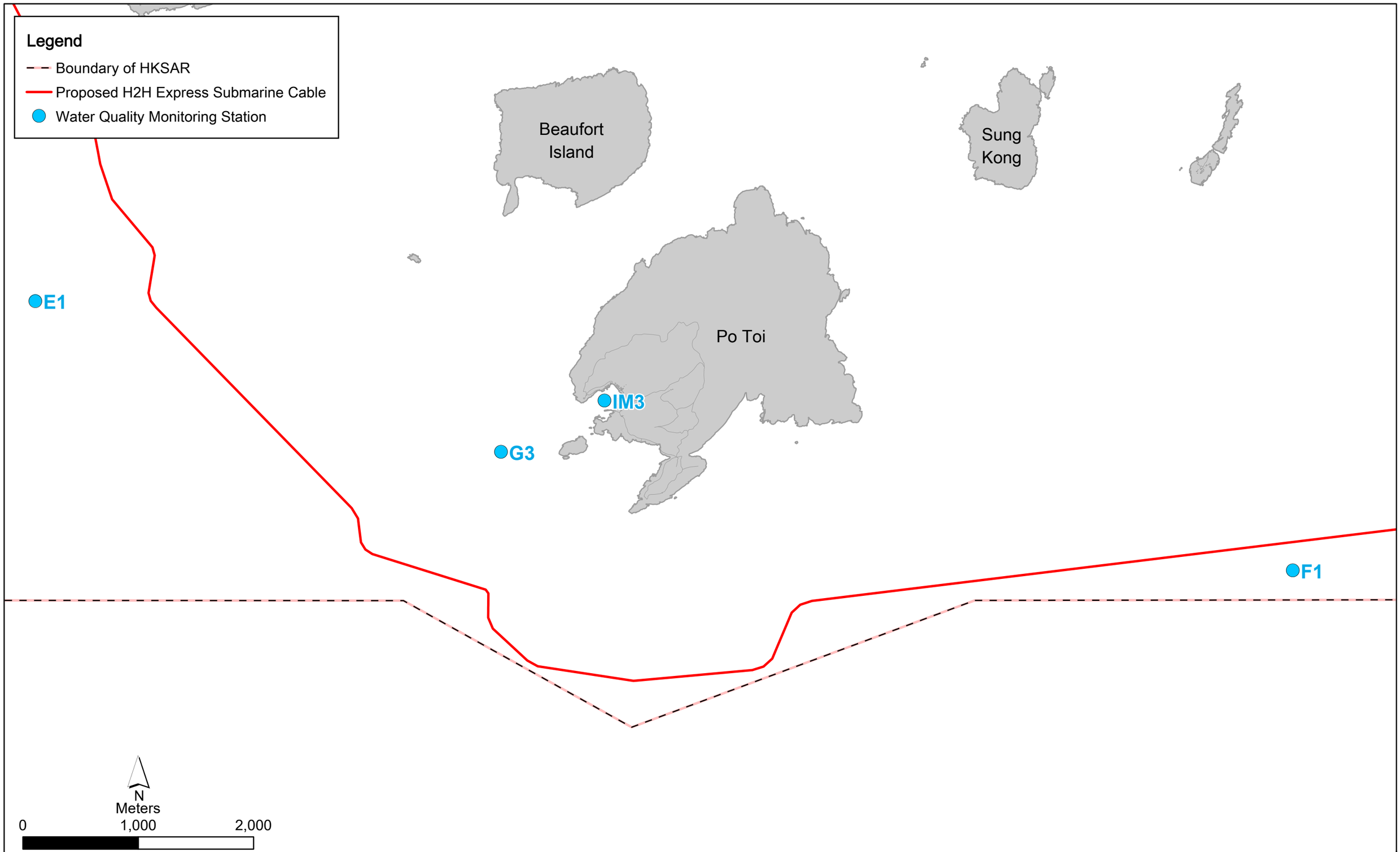

Figure 1.4

Water Quality Monitoring Stations - Zone B

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Date: 8/4/2021

Environmental Resources Management

ERM

2. WATER QUALITY MONITORING

2.1 Monitoring Location

Baseline water quality monitoring in Zone B was conducted prior to the commencement of Project marine installation works at the monitoring stations listed in ***Table 2.1*** and shown in ***Figure 1.2*** and ***Figure 1.4.***

Table 2.1 Water Quality Monitoring Stations

Station [2]	Nature	Approx. Geodesic Distance [1] to Proposed Cable Alignment (m)	Easting	Northing
Zone **B**: The waters to the west and south of the Po Toi Island. Covers the cable alignment between Chainage 6.431 km and 16.312 km.				
IM3	Po Toi Fish Culture Zone	2020	844111	802850
G3	Gradient Stations (Between Po Toi Fish Culture Zone cable alignment)	1170	843215	802408
E1	Control Station for Zone B in Ebb Tide	980	839178	803714
F1	Control Station for Zone B in Flood Tide	240	850078	801380

Note:
(1) Geodesic distance refers to the shortest straight line distance between two locations, without regard on the physical obstacles in between.
(2) These station will also serve as monitoring stations for Spawning Ground of Commercial Fisheries Resources.

2.2 Sampling and Testing Methodology

2.2.1 Parameters Measured

The parameters measured *in situ* were:

- dissolved oxygen (DO) (% saturation and mgL^{-1})
- temperature (°C)
- turbidity (NTU)
- salinity (‰ or ppt)

The only parameter to be measured in the laboratory was:

- suspended solids (SS) (mgL^{-1})

In addition to the water quality parameters, other relevant data had also been measured and recorded in field logs, including the location of the sampling stations and cable vessel/ burial machine at the time of sampling, water depth, time, weather conditions, sea conditions, tidal state, current direction and speed, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

2.2.2 Equipment

Table 2.2 summaries the equipment used for the baseline water quality monitoring.

Table 2.2 Equipment used during Baseline Water Quality Monitoring (Zone B)

Equipment	Model
Global Positioning Device	Garmin etrex 20x
Water Depth Gauge	Sontek Riversurveyor

Equipment	Model
Water Sampling Equipment	Aquatic Research Instruments horizontal / vertical types 2.2L
Salinity, DO, Temperature Measuring Meter	YSI ProDSS (Multi-Parameter)
Current Velocity and Direction	Sontek Riversurveyor
Turbidity Meter	YSI ProDSS (Multi-Parameter)

2.2.3 Monitoring Frequency and Timing

The water quality monitoring was carried out three (3) days per week for four (4) consecutive weeks, before the commencement of cable installation. The interval between two (2) sets of monitoring was no less than 36 hours and samples were taken twice during a 4 hour window of 2 hours before and 2 hours after a mid-flood and mid-ebb tidal state on each sampling occasion.

Reference was made to the predicted tides at Waglan Island, which is the tidal station nearest to the Project Site, published on the website of the Hong Kong Observatory [(1)]. Based on the predicted tidal levels at Waglan Island, the baseline water quality monitoring was conducted between 12 March and 6 April 2021, following the schedule presented in **Appendix A**.

2.2.4 Sampling / Testing Protocols

All *in situ* monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS (Quality Pro Test-Consult Limited) before use (see calibration reports in **Appendix B**), and will subsequently be re-calibrated at-monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.

For the on-site calibration of field equipment, the *BS 1427: 1993*, *Guide to Field and On-Site Test Methods for the Analysis of Waters* were observed. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment were made available so that monitoring could proceed uninterrupted even when equipment is under maintenance, calibration etc.

Water samples for SS measurements were collected in high density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to a HOKLAS laboratory as soon as possible after collection.

At least two (2) replicate samples were collected from each of the monitoring events for *in situ* measurement and lab analysis.

2.2.5 Laboratory Analysis

All laboratory work was carried out in a HOKLAS accredited laboratory (ALS Technichem (HK) Pty Ltd). Water samples of about 1,000 mL were collected at the monitoring, gradient and control stations for carrying out the laboratory determinations. The determination work shall start within the next working day after collection of the water samples. The SS laboratory measurements were provided within five (5) days of the sampling event. The analyses followed the standard methods as described in *APHA Standard Methods for the Examination of Water and Wastewater, 19th Edition*, unless otherwise specified (APHA 2540D for SS).

The submitted information should included pre-treatment procedures, instrument use, Quality Assurance/Quality Control (QA/QC) details (such as blank, spike recovery, number of duplicate samples per-batch etc.), detection limits and accuracy. The QA/QC details were in accordance with requirements of HOKLAS or another internationally accredited scheme (**Appendix C**).

[(1)] Hong Kong Observatory (2021) http://www.hko.gov.hk/tide/predtide.htm?s=WAG [Accessed in March 2021]

2.2.6 Sampling Depths

At each station, measurements and water samples were taken at three (3) depths, namely 1 m below water surface, mid-depth and 1 m above seabed. For stations that are less than 3 m in depth, only the mid-depth sample was taken. For stations that are less than 6 m in depth, only the surface and seabed sample was taken.

2.2.7 Baseline Monitoring Results

The monitoring data and graphical presentations for baseline water quality monitoring are provided in **Appendix D**. No marine construction activities were observed in the vicinity of the monitoring stations during the baseline monitoring. No other major activities influencing water quality were identified during the monitoring period, and sea conditions were moderate during the baseline monitoring period.
The observations from the baseline monitoring results are as following:

- For all monitoring stations, water quality was variable throughout the baseline monitoring period and this represented natural fluctuation in water quality;
- DO levels were recorded to stay at a similar level across all the monitoring stations within the baseline monitoring period;
- DO levels at all depths were generally high for all samples; DO saturation recorded was around 100% throughout the monitoring period and the minimum DO level recorded was over 6 mg L^{-1};
- Variations of Turbidity and SS levels were observed within the baseline monitoring period;
- Range of Turbidity is around 1 - 5 NTU and range of SS is 1 - 6 mg L^{-1}.

2.2.8 Action and Limit Levels

The Action and Limit Levels were set in *Appendix G* of the PP, and the proposed Action and Limit Levels were determined as shown in ***Table 2.3***.

Table 2.3 Action and Limit Level for Water Quality

Parameter	Action Level	Limit Level
SS in mgL^{-1} (Depth-averaged)	95%-ile of baseline data, or 20% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher	99%-ile of baseline data, or 30% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher
DO in mgL^{-1}	Surface and Middle 5%-ile of baseline data for surface or middle layer Bottom 5%-ile of baseline data for bottom layers	Surface and Middle 4mg/L or 1%-ile of baseline for surface and middle layer, whichever is lower Bottom 2mg/L or 1%-ile of baseline data for bottom layer whichever is lower
Turbidity in NTU (Depth-averaged)	95%-ile of baseline data, or 20% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher	99%-ile of baseline data, or 30% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher

Parameter	Action Level	Limit Level

Notes:
a. For DO, non-compliance of the water quality limits occurs when the monitoring result is lower than the limits.
b. "Depth-averaged" is calculated by taking the arithmetic means of reading of all sampled depths.
c. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
d. Limit level for DO was derived from the Water Quality Objectives (WQO) for Southern, Eastern Buffer, and Mirs Bay Water Control Zones under the Water Pollution Control Ordinance (WPCO) Chapters 358L, 358Y, and 358I respectively.

Action and Limit Levels have been determined based on the baseline water quality monitoring data for all monitoring stations in Zone B collected between March and April 2021. The results are presented in ***Table 2.4***. Please note that the results were used to determine the Action and Limit Levels for the Phase 2 Project marine installation works to be undertaken in Zone B.

Table 2.4 Action and Limit Level for Water Quality – Zone B

Parameter	Action Level	Limit Level
SS in mgL^{-1} (Depth-averaged)	4.7 mg L^{-1}, or 20% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher	6.4 mg L^{-1}, or 30% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher
DO in mgL^{-1}	Surface and Middle 6.81 mg L^{-1} Bottom 6.63 mg L^{-1}	Surface and Middle 4 mg L^{-1} Bottom 2 mg L^{-1}
Turbidity in NTU (Depth-averaged)	3.4 NTU, or 20% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher	3.7 NTU, or 30% exceedance of value at any impact station compared with corresponding data from control station, whichever monitoring result is higher

Notes:
a. For DO, non-compliance of the water quality limits occurs when the monitoring result is lower than the limits.
b. "Depth-averaged" is calculated by taking the arithmetic means of reading of all sampled depths.
c. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
d. The Action and Limit Level for DO for surface and middle layer were calculated from the combined pool of baseline surface layer data and baseline middle layer data.

3. CONCLUSION

Baseline water quality monitoring in Zone B was conducted between 12 March and 6 April 2021 at four (4) designated monitoring stations (including one [1] Sensitive Receiver Station, one [1] Gradient Station and two [2] Control Stations). The monitoring was carried out three (3) days per week for four (4) consecutive weeks, at mid-flood and mid-ebb tides, at three (3) depths (surface, middle and bottom). The intervals between two (2) sets of monitoring were not less than 36 hours. During the monitoring period, no major activities influencing water quality were observed in the vicinity of the Project's marine works area. Water quality monitoring results are, therefore, considered to be representative of the current baseline conditions of the area where Phase 2 marine cable installation will be undertaken for the Project in Zone B.

The baseline monitoring results were used to determine the Action and Limit Levels for the DO, SS and Turbidity for impact monitoring to be conducted at Zone B during Phase 2 Project cable installation works.

APPENDIX A BASELINE WATER QUALITY MONITORING SCHEDULE (ZONE B)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				ebb tide 22:20 - 2:20 flood tide 15:38 - 19:38 12-Mar	13-Mar	14-Mar
ebb tide 11:44 - 15:44 flood tide 5:49 - 9:49 15-Mar	16-Mar	ebb tide 12:46 - 16:46 flood tide 6:31 - 10:31 17-Mar	18-Mar	ebb tide 13:58 - 17:58 flood tide 7:07 - 11:07 19-Mar	20-Mar	21-Mar
ebb tide 17:54 - 21:54 flood tide 5:23 - 9:23 22-Mar	23-Mar	ebb tide 19:36 - 23:36 flood tide 7:21 - 11:21 24-Mar	25-Mar	ebb tide 21:06 - 1:06 flood tide 14:16 - 18:16 26-Mar	27-Mar	28-Mar
ebb tide 10:46 - 14:46 flood tide 4:50 - 8:50 29-Mar	30-Mar	ebb tide 12:08 - 16:08 flood tide 5:53 - 9:53 31-Mar	1-Apr	ebb tide 13:47 - 17:47 flood tide 7:01 - 11:01 2-Apr	3-Apr	ebb tide 16:58 - 20:58 flood tide 3:28 - 7:28 4-Apr
5-Apr	ebb tide 19:03 - 23:03 flood tide 6:48 - 10:48 6-Apr					
					Appendix A **H2HE Baseline Water Quality Schedule (Zone B)**	

APPENDIX B CALIBRATION REPORTS OF MULTI-PARAMETER SENSOR

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. : BA030005
Date of Issue : 01 March 2021

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment	:	YSI ProDSS (Multi-Parameters)
Manufacturer	:	YSI (a xylem brand)
Serial Number	:	16H104233
Date of Received	:	Feb 25, 2021
Date of Calibration	:	Feb 25, 2021
Date of Next Calibration[a]	:	May 24, 2021

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
Conductivity at 25°C	APHA 21e 2510 B
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	4.03	0.03	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	9.90	-0.11	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
10	10.0	0.0	Satisfactory
21	20.7	-0.3	Satisfactory
41	40.9	-0.1	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 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..*

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA030005
Date of Issue : 01 March 2021

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.21	0.01	-0.20	Satisfactory
4.55	4.56	0.01	Satisfactory
6.42	6.21	-0.21	Satisfactory
8.78	8.49	-0.29	Satisfactory

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

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)	Results
0.001	146.9	146.6	-0.20	Satisfactory
0.01	1412	1440	1.98	Satisfactory
0.1	12890	12717	-1.34	Satisfactory
0.5	58670	58394	-0.47	Satisfactory
1.0	111900	112033	0.12	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.91	-0.90	Satisfactory
20	19.63	-1.85	Satisfactory
30	30.20	0.67	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading[f] (NTU)	Tolerance[g] (%)	Results
0	0.16	--	Satisfactory
10	10.19	1.9	Satisfactory
20	20.36	1.8	Satisfactory
100	99.78	-0.2	Satisfactory
800	798.12	-0.2	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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[g] 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.

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA030006
Date of Issue : 01 March 2021

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment	:	YSI ProDSS (Multi-Parameters)
Manufacturer	:	YSI (a xylem brand)
Serial Number	:	18A104824
Date of Received	:	Feb 25, 2021
Date of Calibration	:	Feb 25, 2021
Date of Next Calibration[a]	:	May 24, 2021

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
Conductivity at 25°C	APHA 21e 2510 B
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	4.02	0.02	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.09	0.08	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
10	10.0	0.0	Satisfactory
21	20.4	-0.6	Satisfactory
41	40.9	-0.1	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 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..*

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA030006
Date of Issue : 01 March 2021

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.21	0.01	-0.20	Satisfactory
4.55	6.21	1.66	Satisfactory
6.42	4.56	-1.86	Satisfactory
8.78	8.49	-0.29	Satisfactory

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

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)	Results
0.001	146.9	146.7	-0.14	Satisfactory
0.01	1412	1436	1.70	Satisfactory
0.1	12890	12699	-1.48	Satisfactory
0.5	58670	58421	-0.42	Satisfactory
1.0	111900	111486	-0.37	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.88	-1.20	Satisfactory
20	19.84	-0.80	Satisfactory
30	30.52	1.73	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading[f] (NTU)	Tolerance[g] (%)	Results
0	0.11	--	Satisfactory
10	10.23	2.3	Satisfactory
20	20.45	2.3	Satisfactory
100	102.38	2.4	Satisfactory
800	798.46	-0.2	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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(g) 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.

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA030094
Date of Issue : 26 March 2021

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment	:	YSI ProDSS (Multi-Parameters)
Manufacturer	:	YSI (a xylem brand)
Serial Number	:	15M100005
Date of Received	:	Mar 25, 2021
Date of Calibration	:	Mar 25, 2021
Date of Next Calibration[a]	:	Jun 24, 2021

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
Conductivity at 25°C	APHA 21e 2510 B
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	4.02	0.02	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	10.30	0.29	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
10	10.4	0.4	Satisfactory
20	20.1	0.1	Satisfactory
48	48.3	0.3	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.*
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA030094
Date of Issue : 26 March 2021

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.36	0.28	-0.08	Satisfactory
2.81	2.58	-0.23	Satisfactory
5.45	5.72	0.27	Satisfactory
8.40	8.64	0.24	Satisfactory

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

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)	Results
0.001	146.9	152.1	3.54	Satisfactory
0.01	1412	1278	-9.49	Satisfactory
0.1	12890	12810	-0.62	Satisfactory
0.5	58670	59234	0.96	Satisfactory
1.0	111900	114225	2.08	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.8	-2.00	Satisfactory
20	20.5	2.50	Satisfactory
30	29.8	-0.67	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading[f] (NTU)	Tolerance[g] (%)	Results
0	0.05	--	Satisfactory
10	9.8	-1.6	Satisfactory
20	18.9	-5.7	Satisfactory
100	96.4	-3.6	Satisfactory
800	822	2.8	Satisfactory

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

~ END OF REPORT ~

Remark(s): -
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA030095
Date of Issue : 26 March 2021

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment	:	YSI ProDSS (Multi-Parameters)
Manufacturer	:	YSI (a xylem brand)
Serial Number	:	17E100747
Date of Received	:	Mar 25, 2021
Date of Calibration	:	Mar 25, 2021
Date of Next Calibration[a]	:	Jun 24, 2021

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
Conductivity at 25°C	APHA 21e 2510 B
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	4.02	0.02	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	9.98	-0.03	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
10	9.9	-0.1	Satisfactory
20	20.2	0.2	Satisfactory
48	48.4	0.4	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA030095
Date of Issue : 26 March 2021

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.36	0.32	-0.04	Satisfactory
2.81	2.54	-0.27	Satisfactory
5.45	5.78	0.33	Satisfactory
8.40	8.78	0.38	Satisfactory

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

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)	Results
0.001	146.9	135.8	-7.56	Satisfactory
0.01	1412	1326.4	-6.06	Satisfactory
0.1	12890	12224.6	-5.16	Satisfactory
0.5	58670	56572	-3.58	Satisfactory
1.0	111900	108792	-2.78	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.9	-1.00	Satisfactory
20	20.2	1.00	Satisfactory
30	30.3	1.00	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading[f] (NTU)	Tolerance[g] (%)	Results
0	0.02	--	Satisfactory
10	9.84	-1.6	Satisfactory
20	20.26	1.3	Satisfactory
100	108.2	8.2	Satisfactory
800	796	-0.5	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 form relevant international standards.

APPENDIX C QA/ QC RESULTS FOR SUSPENDED SOLIDS TESTING

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2109466**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 12-Mar-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 16-Mar-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
		
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 12-Mar-2021 to 16-Mar-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2109466 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	12-Mar-2021	HK2109466-001		2.2	----	----	----	----
E1-ME-S-2	12-Mar-2021	HK2109466-002		2.2	----	----	----	----
E1-ME-M-1	12-Mar-2021	HK2109466-003		2.0	----	----	----	----
E1-ME-M-2	12-Mar-2021	HK2109466-004		3.1	----	----	----	----
E1-ME-B-1	12-Mar-2021	HK2109466-005		1.8	----	----	----	----
E1-ME-B-2	12-Mar-2021	HK2109466-006		1.5	----	----	----	----
F1-ME-S-1	12-Mar-2021	HK2109466-007		3.4	----	----	----	----
F1-ME-S-2	12-Mar-2021	HK2109466-008		3.5	----	----	----	----
F1-ME-M-1	12-Mar-2021	HK2109466-009		2.4	----	----	----	----
F1-ME-M-2	12-Mar-2021	HK2109466-010		2.6	----	----	----	----
F1-ME-B-1	12-Mar-2021	HK2109466-011		2.0	----	----	----	----
F1-ME-B-2	12-Mar-2021	HK2109466-012		2.3	----	----	----	----
IM3-ME-S-1	12-Mar-2021	HK2109466-013		3.6	----	----	----	----
IM3-ME-S-2	12-Mar-2021	HK2109466-014		3.8	----	----	----	----
IM3-ME-B-1	12-Mar-2021	HK2109466-017		2.2	----	----	----	----
IM3-ME-B-2	12-Mar-2021	HK2109466-018		2.3	----	----	----	----
G3-ME-S-1	12-Mar-2021	HK2109466-019		4.4	----	----	----	----
G3-ME-S-2	12-Mar-2021	HK2109466-020		4.3	----	----	----	----
G3-ME-M-1	12-Mar-2021	HK2109466-021		4.1	----	----	----	----
G3-ME-M-2	12-Mar-2021	HK2109466-022		4.0	----	----	----	----
G3-ME-B-1	12-Mar-2021	HK2109466-023		3.8	----	----	----	----
G3-ME-B-2	12-Mar-2021	HK2109466-024		3.9	----	----	----	----
E1-MF-S-1	12-Mar-2021	HK2109466-025		1.9	----	----	----	----
E1-MF-S-2	12-Mar-2021	HK2109466-026		2.2	----	----	----	----
E1-MF-M-1	12-Mar-2021	HK2109466-027		2.3	----	----	----	----
E1-MF-M-2	12-Mar-2021	HK2109466-028		2.5	----	----	----	----
E1-MF-B-1	12-Mar-2021	HK2109466-029		2.8	----	----	----	----
E1-MF-B-2	12-Mar-2021	HK2109466-030		2.6	----	----	----	----
F1-MF-S-1	12-Mar-2021	HK2109466-031		3.8	----	----	----	----
F1-MF-S-2	12-Mar-2021	HK2109466-032		4.0	----	----	----	----
F1-MF-M-1	12-Mar-2021	HK2109466-033		3.7	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	**EA025: Suspended Solids (SS)**	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	*Sampling date / time*	*Laboratory sample ID*		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	12-Mar-2021	HK2109466-034		**3.6**	----	----	----	----
F1-MF-B-1	12-Mar-2021	HK2109466-035		**3.0**	----	----	----	----
F1-MF-B-2	12-Mar-2021	HK2109466-036		**2.9**	----	----	----	----
IM3-MF-S-1	12-Mar-2021	HK2109466-037		**3.5**	----	----	----	----
IM3-MF-S-2	12-Mar-2021	HK2109466-038		**4.0**	----	----	----	----
IM3-MF-B-1	12-Mar-2021	HK2109466-041		**4.8**	----	----	----	----
IM3-MF-B-2	12-Mar-2021	HK2109466-042		**4.6**	----	----	----	----
G3-MF-S-1	12-Mar-2021	HK2109466-043		**3.3**	----	----	----	----
G3-MF-S-2	12-Mar-2021	HK2109466-044		**3.0**	----	----	----	----
G3-MF-M-1	12-Mar-2021	HK2109466-045		**2.6**	----	----	----	----
G3-MF-M-2	12-Mar-2021	HK2109466-046		**2.9**	----	----	----	----
G3-MF-B-1	12-Mar-2021	HK2109466-047		**2.0**	----	----	----	----
G3-MF-B-2	12-Mar-2021	HK2109466-048		**1.9**	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3564591)								
HK2109466-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.2	2.2	4.54
HK2109466-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.0	2.1	6.21
EA/ED: Physical and Aggregate Properties (QC Lot: 3564592)								
HK2109466-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.8	4.0	5.82
HK2109466-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.7	3.8	0.00
EA/ED: Physical and Aggregate Properties (QC Lot: 3564593)								
HK2109466-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.6	2.7	0.00

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3564591)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3564592)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	106	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3564593)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	108	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2109473**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 15-Mar-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 17-Mar-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 15-Mar-2021 to 17-Mar-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2109473 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: MARINE WATER			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	15-Mar-2021	HK2109473-001		2.1	----	----	----	----
E1-ME-S-2	15-Mar-2021	HK2109473-002		2.7	----	----	----	----
E1-ME-M-1	15-Mar-2021	HK2109473-003		2.7	----	----	----	----
E1-ME-M-2	15-Mar-2021	HK2109473-004		2.3	----	----	----	----
E1-ME-B-1	15-Mar-2021	HK2109473-005		2.5	----	----	----	----
E1-ME-B-2	15-Mar-2021	HK2109473-006		3.0	----	----	----	----
F1-ME-S-1	15-Mar-2021	HK2109473-007		2.4	----	----	----	----
F1-ME-S-2	15-Mar-2021	HK2109473-008		2.0	----	----	----	----
F1-ME-M-1	15-Mar-2021	HK2109473-009		1.8	----	----	----	----
F1-ME-M-2	15-Mar-2021	HK2109473-010		1.4	----	----	----	----
F1-ME-B-1	15-Mar-2021	HK2109473-011		1.1	----	----	----	----
F1-ME-B-2	15-Mar-2021	HK2109473-012		1.6	----	----	----	----
IM3-ME-S-1	15-Mar-2021	HK2109473-013		2.6	----	----	----	----
IM3-ME-S-2	15-Mar-2021	HK2109473-014		2.7	----	----	----	----
IM3-ME-B-1	15-Mar-2021	HK2109473-017		4.0	----	----	----	----
IM3-ME-B-2	15-Mar-2021	HK2109473-018		4.6	----	----	----	----
G3-ME-S-1	15-Mar-2021	HK2109473-019		4.2	----	----	----	----
G3-ME-S-2	15-Mar-2021	HK2109473-020		4.7	----	----	----	----
G3-ME-M-1	15-Mar-2021	HK2109473-021		4.0	----	----	----	----
G3-ME-M-2	15-Mar-2021	HK2109473-022		4.4	----	----	----	----
G3-ME-B-1	15-Mar-2021	HK2109473-023		3.4	----	----	----	----
G3-ME-B-2	15-Mar-2021	HK2109473-024		4.2	----	----	----	----
E1-MF-S-1	15-Mar-2021	HK2109473-025		5.1	----	----	----	----
E1-MF-S-2	15-Mar-2021	HK2109473-026		4.8	----	----	----	----
E1-MF-M-1	15-Mar-2021	HK2109473-027		4.6	----	----	----	----
E1-MF-M-2	15-Mar-2021	HK2109473-028		4.5	----	----	----	----
E1-MF-B-1	15-Mar-2021	HK2109473-029		4.3	----	----	----	----
E1-MF-B-2	15-Mar-2021	HK2109473-030		4.9	----	----	----	----
F1-MF-S-1	15-Mar-2021	HK2109473-031		1.6	----	----	----	----
F1-MF-S-2	15-Mar-2021	HK2109473-032		1.9	----	----	----	----
F1-MF-M-1	15-Mar-2021	HK2109473-033		2.0	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	**EA025: Suspended Solids (SS)**	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	*Sampling date / time*	*Laboratory sample ID*		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	15-Mar-2021	HK2109473-034		**2.6**	----	----	----	----
F1-MF-B-1	15-Mar-2021	HK2109473-035		**2.4**	----	----	----	----
F1-MF-B-2	15-Mar-2021	HK2109473-036		**3.0**	----	----	----	----
IM3-MF-S-1	15-Mar-2021	HK2109473-037		**5.1**	----	----	----	----
IM3-MF-S-2	15-Mar-2021	HK2109473-038		**4.2**	----	----	----	----
IM3-MF-B-1	15-Mar-2021	HK2109473-041		**3.3**	----	----	----	----
IM3-MF-B-2	15-Mar-2021	HK2109473-042		**3.7**	----	----	----	----
G3-MF-S-1	15-Mar-2021	HK2109473-043		**6.5**	----	----	----	----
G3-MF-S-2	15-Mar-2021	HK2109473-044		**5.4**	----	----	----	----
G3-MF-M-1	15-Mar-2021	HK2109473-045		**4.0**	----	----	----	----
G3-MF-M-2	15-Mar-2021	HK2109473-046		**4.8**	----	----	----	----
G3-MF-B-1	15-Mar-2021	HK2109473-047		**4.1**	----	----	----	----
G3-MF-B-2	15-Mar-2021	HK2109473-048		**3.4**	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3567153)								
HK2109473-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.1	1.9	11.2
HK2109473-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.3	18.6
EA/ED: Physical and Aggregate Properties (QC Lot: 3567154)								
HK2109473-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.4	3.0	10.8
HK2109473-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.0	2.0	5.00
EA/ED: Physical and Aggregate Properties (QC Lot: 3567155)								
HK2109473-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.0	4.4	9.58

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3567153)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	98.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3567154)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3567155)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	110	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2109676**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 17-Mar-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 22-Mar-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
		
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 17-Mar-2021 to 22-Mar-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2109676 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

EA025 - The accredited LOR of Total Suspended Solids is 0.5mg/L when 2 Litres sample was used. Due to insufficient sample, the results below 2mg/L and the decimal value of the results reported are for reference only.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	17-Mar-2021	HK2109676-001		0.6	----	----	----	----
E1-ME-S-2	17-Mar-2021	HK2109676-002		0.7	----	----	----	----
E1-ME-M-1	17-Mar-2021	HK2109676-003		2.3	----	----	----	----
E1-ME-M-2	17-Mar-2021	HK2109676-004		2.8	----	----	----	----
E1-ME-B-1	17-Mar-2021	HK2109676-005		2.0	----	----	----	----
E1-ME-B-2	17-Mar-2021	HK2109676-006		2.7	----	----	----	----
F1-ME-S-1	17-Mar-2021	HK2109676-007		1.5	----	----	----	----
F1-ME-S-2	17-Mar-2021	HK2109676-008		2.4	----	----	----	----
F1-ME-M-1	17-Mar-2021	HK2109676-009		1.4	----	----	----	----
F1-ME-M-2	17-Mar-2021	HK2109676-010		2.2	----	----	----	----
F1-ME-B-1	17-Mar-2021	HK2109676-011		1.4	----	----	----	----
F1-ME-B-2	17-Mar-2021	HK2109676-012		1.0	----	----	----	----
IM3-ME-S-1	17-Mar-2021	HK2109676-013		1.6	----	----	----	----
IM3-ME-S-2	17-Mar-2021	HK2109676-014		2.4	----	----	----	----
IM3-ME-B-1	17-Mar-2021	HK2109676-017		2.0	----	----	----	----
IM3-ME-B-2	17-Mar-2021	HK2109676-018		1.3	----	----	----	----
G3-ME-S-1	17-Mar-2021	HK2109676-019		1.4	----	----	----	----
G3-ME-S-2	17-Mar-2021	HK2109676-020		1.0	----	----	----	----
G3-ME-M-1	17-Mar-2021	HK2109676-021		1.4	----	----	----	----
G3-ME-M-2	17-Mar-2021	HK2109676-022		1.1	----	----	----	----
G3-ME-B-1	17-Mar-2021	HK2109676-023		2.3	----	----	----	----
G3-ME-B-2	17-Mar-2021	HK2109676-024		1.1	----	----	----	----
E1-MF-S-1	17-Mar-2021	HK2109676-025		3.8	----	----	----	----
E1-MF-S-2	17-Mar-2021	HK2109676-026		3.5	----	----	----	----
E1-MF-M-1	17-Mar-2021	HK2109676-027		2.5	----	----	----	----
E1-MF-M-2	17-Mar-2021	HK2109676-028		1.6	----	----	----	----
E1-MF-B-1	17-Mar-2021	HK2109676-029		2.1	----	----	----	----
E1-MF-B-2	17-Mar-2021	HK2109676-030		1.3	----	----	----	----
F1-MF-S-1	17-Mar-2021	HK2109676-031		2.7	----	----	----	----
F1-MF-S-2	17-Mar-2021	HK2109676-032		2.0	----	----	----	----
F1-MF-M-1	17-Mar-2021	HK2109676-033		2.5	----	----	----	----

Sub-Matrix: **MARINE WATER**

	Compound	**EA025: Suspended Solids (SS)**	----	----	----	----
	LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	*Sampling date / time*	*Laboratory sample ID*	EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	17-Mar-2021	HK2109676-034	**1.4**	----	----	----	----
F1-MF-B-1	17-Mar-2021	HK2109676-035	**1.2**	----	----	----	----
F1-MF-B-2	17-Mar-2021	HK2109676-036	**2.3**	----	----	----	----
IM3-MF-S-1	17-Mar-2021	HK2109676-037	**2.2**	----	----	----	----
IM3-MF-S-2	17-Mar-2021	HK2109676-038	**3.2**	----	----	----	----
IM3-MF-B-1	17-Mar-2021	HK2109676-041	**1.6**	----	----	----	----
IM3-MF-B-2	17-Mar-2021	HK2109676-042	**2.5**	----	----	----	----
G3-MF-S-1	17-Mar-2021	HK2109676-043	**2.6**	----	----	----	----
G3-MF-S-2	17-Mar-2021	HK2109676-044	**1.9**	----	----	----	----
G3-MF-M-1	17-Mar-2021	HK2109676-045	**1.5**	----	----	----	----
G3-MF-M-2	17-Mar-2021	HK2109676-046	**1.1**	----	----	----	----
G3-MF-B-1	17-Mar-2021	HK2109676-047	**1.4**	----	----	----	----
G3-MF-B-2	17-Mar-2021	HK2109676-048	**1.0**	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3572092)								
HK2109676-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.6	0.5	0.00
HK2109676-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	1.8	27.2
EA/ED: Physical and Aggregate Properties (QC Lot: 3572093)								
HK2109676-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	2.0	12.6
HK2109676-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.5	2.0	20.8
EA/ED: Physical and Aggregate Properties (QC Lot: 3572094)								
HK2109676-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.5	2.1	30.6

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3572092)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	93.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3572093)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3572094)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2109678**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 19-Mar-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 24-Mar-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
		
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 19-Mar-2021 to 24-Mar-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2109678 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	19-Mar-2021	HK2109678-001		0.7	----	----	----	----
E1-ME-S-2	19-Mar-2021	HK2109678-002		0.8	----	----	----	----
E1-ME-M-1	19-Mar-2021	HK2109678-003		0.8	----	----	----	----
E1-ME-M-2	19-Mar-2021	HK2109678-004		0.8	----	----	----	----
E1-ME-B-1	19-Mar-2021	HK2109678-005		0.9	----	----	----	----
E1-ME-B-2	19-Mar-2021	HK2109678-006		0.8	----	----	----	----
F1-ME-S-1	19-Mar-2021	HK2109678-007		0.9	----	----	----	----
F1-ME-S-2	19-Mar-2021	HK2109678-008		0.8	----	----	----	----
F1-ME-M-1	19-Mar-2021	HK2109678-009		0.9	----	----	----	----
F1-ME-M-2	19-Mar-2021	HK2109678-010		0.9	----	----	----	----
F1-ME-B-1	19-Mar-2021	HK2109678-011		1.1	----	----	----	----
F1-ME-B-2	19-Mar-2021	HK2109678-012		1.3	----	----	----	----
IM3-ME-S-1	19-Mar-2021	HK2109678-013		1.7	----	----	----	----
IM3-ME-S-2	19-Mar-2021	HK2109678-014		1.7	----	----	----	----
IM3-ME-B-1	19-Mar-2021	HK2109678-017		1.6	----	----	----	----
IM3-ME-B-2	19-Mar-2021	HK2109678-018		1.6	----	----	----	----
G3-ME-S-1	19-Mar-2021	HK2109678-019		0.9	----	----	----	----
G3-ME-S-2	19-Mar-2021	HK2109678-020		1.0	----	----	----	----
G3-ME-M-1	19-Mar-2021	HK2109678-021		0.9	----	----	----	----
G3-ME-M-2	19-Mar-2021	HK2109678-022		0.9	----	----	----	----
G3-ME-B-1	19-Mar-2021	HK2109678-023		0.8	----	----	----	----
G3-ME-B-2	19-Mar-2021	HK2109678-024		0.9	----	----	----	----
E1-MF-S-1	19-Mar-2021	HK2109678-025		0.8	----	----	----	----
E1-MF-S-2	19-Mar-2021	HK2109678-026		0.8	----	----	----	----
E1-MF-M-1	19-Mar-2021	HK2109678-027		0.7	----	----	----	----
E1-MF-M-2	19-Mar-2021	HK2109678-028		0.8	----	----	----	----
E1-MF-B-1	19-Mar-2021	HK2109678-029		0.6	----	----	----	----
E1-MF-B-2	19-Mar-2021	HK2109678-030		0.7	----	----	----	----
F1-MF-S-1	19-Mar-2021	HK2109678-031		1.3	----	----	----	----
F1-MF-S-2	19-Mar-2021	HK2109678-032		1.3	----	----	----	----
F1-MF-M-1	19-Mar-2021	HK2109678-033		1.2	----	----	----	----

Sub-Matrix: **MARINE WATER**

	Compound	**EA025: Suspended Solids (SS)**	----	----	----	----
	LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	*Sampling date / time*	*Laboratory sample ID*	EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	19-Mar-2021	HK2109678-034	**1.1**	----	----	----	----
F1-MF-B-1	19-Mar-2021	HK2109678-035	**0.9**	----	----	----	----
F1-MF-B-2	19-Mar-2021	HK2109678-036	**0.8**	----	----	----	----
IM3-MF-S-1	19-Mar-2021	HK2109678-037	**2.4**	----	----	----	----
IM3-MF-S-2	19-Mar-2021	HK2109678-038	**2.1**	----	----	----	----
IM3-MF-B-1	19-Mar-2021	HK2109678-041	**1.6**	----	----	----	----
IM3-MF-B-2	19-Mar-2021	HK2109678-042	**1.8**	----	----	----	----
G3-MF-S-1	19-Mar-2021	HK2109678-043	**1.3**	----	----	----	----
G3-MF-S-2	19-Mar-2021	HK2109678-044	**1.1**	----	----	----	----
G3-MF-M-1	19-Mar-2021	HK2109678-045	**1.7**	----	----	----	----
G3-MF-M-2	19-Mar-2021	HK2109678-046	**1.6**	----	----	----	----
G3-MF-B-1	19-Mar-2021	HK2109678-047	**2.3**	----	----	----	----
G3-MF-B-2	19-Mar-2021	HK2109678-048	**2.0**	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3577808)								
HK2109678-002	E1-ME-S-2	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.7	0.00
HK2109678-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.0	0.00
EA/ED: Physical and Aggregate Properties (QC Lot: 3577809)								
HK2109678-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.8	0.00
HK2109678-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	1.1	0.00
EA/ED: Physical and Aggregate Properties (QC Lot: 3577810)								
HK2109678-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.7	1.6	0.00

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3577808)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	99.0	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3577809)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	98.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3577810)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2111006**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 22-Mar-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 25-Mar-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
		
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 22-Mar-2021 to 25-Mar-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2111006 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	22-Mar-2021	HK2111006-001		1.2	----	----	----	----
E1-ME-S-2	22-Mar-2021	HK2111006-002		1.4	----	----	----	----
E1-ME-M-1	22-Mar-2021	HK2111006-003		1.9	----	----	----	----
E1-ME-M-2	22-Mar-2021	HK2111006-004		2.0	----	----	----	----
E1-ME-B-1	22-Mar-2021	HK2111006-005		2.6	----	----	----	----
E1-ME-B-2	22-Mar-2021	HK2111006-006		2.1	----	----	----	----
F1-ME-S-1	22-Mar-2021	HK2111006-007		1.6	----	----	----	----
F1-ME-S-2	22-Mar-2021	HK2111006-008		1.6	----	----	----	----
F1-ME-M-1	22-Mar-2021	HK2111006-009		1.7	----	----	----	----
F1-ME-M-2	22-Mar-2021	HK2111006-010		1.8	----	----	----	----
F1-ME-B-1	22-Mar-2021	HK2111006-011		2.4	----	----	----	----
F1-ME-B-2	22-Mar-2021	HK2111006-012		2.0	----	----	----	----
IM3-ME-S-1	22-Mar-2021	HK2111006-013		2.8	----	----	----	----
IM3-ME-S-2	22-Mar-2021	HK2111006-014		3.4	----	----	----	----
IM3-ME-B-1	22-Mar-2021	HK2111006-017		2.8	----	----	----	----
IM3-ME-B-2	22-Mar-2021	HK2111006-018		2.6	----	----	----	----
G3-ME-S-1	22-Mar-2021	HK2111006-019		1.3	----	----	----	----
G3-ME-S-2	22-Mar-2021	HK2111006-020		1.4	----	----	----	----
G3-ME-M-1	22-Mar-2021	HK2111006-021		1.6	----	----	----	----
G3-ME-M-2	22-Mar-2021	HK2111006-022		1.8	----	----	----	----
G3-ME-B-1	22-Mar-2021	HK2111006-023		3.0	----	----	----	----
G3-ME-B-2	22-Mar-2021	HK2111006-024		2.6	----	----	----	----
E1-MF-S-1	22-Mar-2021	HK2111006-025		2.4	----	----	----	----
E1-MF-S-2	22-Mar-2021	HK2111006-026		2.5	----	----	----	----
E1-MF-M-1	22-Mar-2021	HK2111006-027		2.8	----	----	----	----
E1-MF-M-2	22-Mar-2021	HK2111006-028		2.6	----	----	----	----
E1-MF-B-1	22-Mar-2021	HK2111006-029		3.2	----	----	----	----
E1-MF-B-2	22-Mar-2021	HK2111006-030		3.2	----	----	----	----
F1-MF-S-1	22-Mar-2021	HK2111006-031		2.5	----	----	----	----
F1-MF-S-2	22-Mar-2021	HK2111006-032		2.2	----	----	----	----
F1-MF-M-1	22-Mar-2021	HK2111006-033		2.1	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	22-Mar-2021	HK2111006-034		2.2	----	----	----	----
F1-MF-B-1	22-Mar-2021	HK2111006-035		1.5	----	----	----	----
F1-MF-B-2	22-Mar-2021	HK2111006-036		1.8	----	----	----	----
IM3-MF-S-1	22-Mar-2021	HK2111006-037		4.1	----	----	----	----
IM3-MF-S-2	22-Mar-2021	HK2111006-038		3.6	----	----	----	----
IM3-MF-B-1	22-Mar-2021	HK2111006-041		3.4	----	----	----	----
IM3-MF-B-2	22-Mar-2021	HK2111006-042		2.8	----	----	----	----
G3-MF-S-1	22-Mar-2021	HK2111006-043		1.3	----	----	----	----
G3-MF-S-2	22-Mar-2021	HK2111006-044		1.9	----	----	----	----
G3-MF-M-1	22-Mar-2021	HK2111006-045		2.1	----	----	----	----
G3-MF-M-2	22-Mar-2021	HK2111006-046		2.5	----	----	----	----
G3-MF-B-1	22-Mar-2021	HK2111006-047		2.8	----	----	----	----
G3-MF-B-2	22-Mar-2021	HK2111006-048		2.7	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3581150)								
HK2111006-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	1.4	19.2
HK2111006-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.4	2.1	14.4
EA/ED: Physical and Aggregate Properties (QC Lot: 3581151)								
HK2111006-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.0	3.0	0.00
HK2111006-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.1	2.4	12.4
EA/ED: Physical and Aggregate Properties (QC Lot: 3581152)								
HK2111006-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.1	2.3	8.99

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3581150)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	103	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3581151)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	106	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3581152)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	98.5	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2111007**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 24-Mar-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 29-Mar-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 24-Mar-2021 to 29-Mar-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2111007 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	24-Mar-2021	HK2111007-001		3.5	----	----	----	----
E1-ME-S-2	24-Mar-2021	HK2111007-002		4.4	----	----	----	----
E1-ME-M-1	24-Mar-2021	HK2111007-003		4.2	----	----	----	----
E1-ME-M-2	24-Mar-2021	HK2111007-004		3.7	----	----	----	----
E1-ME-B-1	24-Mar-2021	HK2111007-005		3.3	----	----	----	----
E1-ME-B-2	24-Mar-2021	HK2111007-006		4.0	----	----	----	----
F1-ME-S-1	24-Mar-2021	HK2111007-007		4.5	----	----	----	----
F1-ME-S-2	24-Mar-2021	HK2111007-008		5.0	----	----	----	----
F1-ME-M-1	24-Mar-2021	HK2111007-009		4.7	----	----	----	----
F1-ME-M-2	24-Mar-2021	HK2111007-010		4.4	----	----	----	----
F1-ME-B-1	24-Mar-2021	HK2111007-011		4.0	----	----	----	----
F1-ME-B-2	24-Mar-2021	HK2111007-012		3.4	----	----	----	----
IM3-ME-S-1	24-Mar-2021	HK2111007-013		5.9	----	----	----	----
IM3-ME-S-2	24-Mar-2021	HK2111007-014		6.3	----	----	----	----
IM3-ME-B-1	24-Mar-2021	HK2111007-017		6.1	----	----	----	----
IM3-ME-B-2	24-Mar-2021	HK2111007-018		6.9	----	----	----	----
G3-ME-S-1	24-Mar-2021	HK2111007-019		5.6	----	----	----	----
G3-ME-S-2	24-Mar-2021	HK2111007-020		5.9	----	----	----	----
G3-ME-M-1	24-Mar-2021	HK2111007-021		4.2	----	----	----	----
G3-ME-M-2	24-Mar-2021	HK2111007-022		5.2	----	----	----	----
G3-ME-B-1	24-Mar-2021	HK2111007-023		3.8	----	----	----	----
G3-ME-B-2	24-Mar-2021	HK2111007-024		2.9	----	----	----	----
E1-MF-S-1	24-Mar-2021	HK2111007-025		3.9	----	----	----	----
E1-MF-S-2	24-Mar-2021	HK2111007-026		3.0	----	----	----	----
E1-MF-M-1	24-Mar-2021	HK2111007-027		4.2	----	----	----	----
E1-MF-M-2	24-Mar-2021	HK2111007-028		3.8	----	----	----	----
E1-MF-B-1	24-Mar-2021	HK2111007-029		4.7	----	----	----	----
E1-MF-B-2	24-Mar-2021	HK2111007-030		4.6	----	----	----	----
F1-MF-S-1	24-Mar-2021	HK2111007-031		6.6	----	----	----	----
F1-MF-S-2	24-Mar-2021	HK2111007-032		6.3	----	----	----	----
F1-MF-M-1	24-Mar-2021	HK2111007-033		5.4	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	**EA025: Suspended Solids (SS)**	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	*Sampling date / time*	*Laboratory sample ID*		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	24-Mar-2021	HK2111007-034		**5.8**	----	----	----	----
F1-MF-B-1	24-Mar-2021	HK2111007-035		**5.1**	----	----	----	----
F1-MF-B-2	24-Mar-2021	HK2111007-036		**4.7**	----	----	----	----
IM3-MF-S-1	24-Mar-2021	HK2111007-037		**7.1**	----	----	----	----
IM3-MF-S-2	24-Mar-2021	HK2111007-038		**7.7**	----	----	----	----
IM3-MF-B-1	24-Mar-2021	HK2111007-041		**7.0**	----	----	----	----
IM3-MF-B-2	24-Mar-2021	HK2111007-042		**8.1**	----	----	----	----
G3-MF-S-1	24-Mar-2021	HK2111007-043		**5.4**	----	----	----	----
G3-MF-S-2	24-Mar-2021	HK2111007-044		**5.9**	----	----	----	----
G3-MF-M-1	24-Mar-2021	HK2111007-045		**4.5**	----	----	----	----
G3-MF-M-2	24-Mar-2021	HK2111007-046		**4.8**	----	----	----	----
G3-MF-B-1	24-Mar-2021	HK2111007-047		**4.1**	----	----	----	----
G3-MF-B-2	24-Mar-2021	HK2111007-048		**3.5**	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3586400)								
HK2111007-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.5	3.2	10.5
HK2111007-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.0	3.9	3.13
EA/ED: Physical and Aggregate Properties (QC Lot: 3586401)								
HK2111007-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.8	4.0	3.22
HK2111007-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.4	5.2	5.20
EA/ED: Physical and Aggregate Properties (QC Lot: 3586402)								
HK2111007-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.5	4.4	3.39

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3586400)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3586401)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	97.0	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3586402)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	106	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2111008**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 26-Mar-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 31-Mar-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
		
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 26-Mar-2021 to 31-Mar-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2111008 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	26-Mar-2021	HK2111008-001		2.2	----	----	----	----
E1-ME-S-2	26-Mar-2021	HK2111008-002		2.5	----	----	----	----
E1-ME-M-1	26-Mar-2021	HK2111008-003		2.1	----	----	----	----
E1-ME-M-2	26-Mar-2021	HK2111008-004		2.8	----	----	----	----
E1-ME-B-1	26-Mar-2021	HK2111008-005		2.9	----	----	----	----
E1-ME-B-2	26-Mar-2021	HK2111008-006		2.6	----	----	----	----
F1-ME-S-1	26-Mar-2021	HK2111008-007		3.4	----	----	----	----
F1-ME-S-2	26-Mar-2021	HK2111008-008		3.6	----	----	----	----
F1-ME-M-1	26-Mar-2021	HK2111008-009		3.1	----	----	----	----
F1-ME-M-2	26-Mar-2021	HK2111008-010		4.0	----	----	----	----
F1-ME-B-1	26-Mar-2021	HK2111008-011		4.6	----	----	----	----
F1-ME-B-2	26-Mar-2021	HK2111008-012		4.5	----	----	----	----
IM3-ME-S-1	26-Mar-2021	HK2111008-013		2.6	----	----	----	----
IM3-ME-S-2	26-Mar-2021	HK2111008-014		3.7	----	----	----	----
IM3-ME-B-1	26-Mar-2021	HK2111008-017		2.8	----	----	----	----
IM3-ME-B-2	26-Mar-2021	HK2111008-018		2.2	----	----	----	----
G3-ME-S-1	26-Mar-2021	HK2111008-019		3.4	----	----	----	----
G3-ME-S-2	26-Mar-2021	HK2111008-020		3.1	----	----	----	----
G3-ME-M-1	26-Mar-2021	HK2111008-021		4.0	----	----	----	----
G3-ME-M-2	26-Mar-2021	HK2111008-022		4.5	----	----	----	----
G3-ME-B-1	26-Mar-2021	HK2111008-023		3.8	----	----	----	----
G3-ME-B-2	26-Mar-2021	HK2111008-024		4.4	----	----	----	----
E1-MF-S-1	26-Mar-2021	HK2111008-025		3.1	----	----	----	----
E1-MF-S-2	26-Mar-2021	HK2111008-026		2.4	----	----	----	----
E1-MF-M-1	26-Mar-2021	HK2111008-027		3.3	----	----	----	----
E1-MF-M-2	26-Mar-2021	HK2111008-028		4.1	----	----	----	----
E1-MF-B-1	26-Mar-2021	HK2111008-029		5.2	----	----	----	----
E1-MF-B-2	26-Mar-2021	HK2111008-030		5.1	----	----	----	----
F1-MF-S-1	26-Mar-2021	HK2111008-031		4.7	----	----	----	----
F1-MF-S-2	26-Mar-2021	HK2111008-032		3.9	----	----	----	----
F1-MF-M-1	26-Mar-2021	HK2111008-033		4.0	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	26-Mar-2021	HK2111008-034		3.8	----	----	----	----
F1-MF-B-1	26-Mar-2021	HK2111008-035		2.7	----	----	----	----
F1-MF-B-2	26-Mar-2021	HK2111008-036		2.9	----	----	----	----
IM3-MF-S-1	26-Mar-2021	HK2111008-037		2.0	----	----	----	----
IM3-MF-S-2	26-Mar-2021	HK2111008-038		3.0	----	----	----	----
IM3-MF-B-1	26-Mar-2021	HK2111008-041		2.9	----	----	----	----
IM3-MF-B-2	26-Mar-2021	HK2111008-042		3.8	----	----	----	----
G3-MF-S-1	26-Mar-2021	HK2111008-043		3.4	----	----	----	----
G3-MF-S-2	26-Mar-2021	HK2111008-044		3.0	----	----	----	----
G3-MF-M-1	26-Mar-2021	HK2111008-045		2.9	----	----	----	----
G3-MF-M-2	26-Mar-2021	HK2111008-046		3.4	----	----	----	----
G3-MF-B-1	26-Mar-2021	HK2111008-047		2.0	----	----	----	----
G3-MF-B-2	26-Mar-2021	HK2111008-048		2.6	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3592192)								
HK2111008-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.2	2.6	17.8
HK2111008-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.6	4.2	9.14
EA/ED: Physical and Aggregate Properties (QC Lot: 3592193)								
HK2111008-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.8	4.2	9.94
HK2111008-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.0	3.6	9.21
EA/ED: Physical and Aggregate Properties (QC Lot: 3592194)								
HK2111008-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.9	3.1	6.61

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3592192)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	104	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3592193)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	106	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3592194)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	92.5	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	: ENOVATIVE ENVIRONMENTAL SERVICE LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 5
Contact	: MR THOMAS WONG	Contact	: Richard Fung	Work Order	: HK2111683
Address	: FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: thomas.wong@eno.com.hk	E-mail	: richard.fung@alsglobal.com		
Telephone	: ----	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: H2H EXPRESS SUBMARINE CABLE			Date received	: 29-Mar-2021
Order number	: —	Quote number	: HKE/1236/2021	Date of issue	: 01-Apr-2021
C-O-C number	: —			No. of samples	- Received : 44
Site	: —				- Analysed : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	Position	Authorised results for:
		
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 29-Mar-2021 to 01-Apr-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2111683 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	29-Mar-2021	HK2111683-001		2.3	----	----	----	----
E1-ME-S-2	29-Mar-2021	HK2111683-002		2.2	----	----	----	----
E1-ME-M-1	29-Mar-2021	HK2111683-003		2.8	----	----	----	----
E1-ME-M-2	29-Mar-2021	HK2111683-004		2.7	----	----	----	----
E1-ME-B-1	29-Mar-2021	HK2111683-005		2.8	----	----	----	----
E1-ME-B-2	29-Mar-2021	HK2111683-006		2.9	----	----	----	----
F1-ME-S-1	29-Mar-2021	HK2111683-007		4.5	----	----	----	----
F1-ME-S-2	29-Mar-2021	HK2111683-008		5.0	----	----	----	----
F1-ME-M-1	29-Mar-2021	HK2111683-009		2.9	----	----	----	----
F1-ME-M-2	29-Mar-2021	HK2111683-010		2.8	----	----	----	----
F1-ME-B-1	29-Mar-2021	HK2111683-011		2.1	----	----	----	----
F1-ME-B-2	29-Mar-2021	HK2111683-012		2.6	----	----	----	----
IM3-ME-S-1	29-Mar-2021	HK2111683-013		3.7	----	----	----	----
IM3-ME-S-2	29-Mar-2021	HK2111683-014		3.1	----	----	----	----
IM3-ME-B-1	29-Mar-2021	HK2111683-017		3.8	----	----	----	----
IM3-ME-B-2	29-Mar-2021	HK2111683-018		2.7	----	----	----	----
G3-ME-S-1	29-Mar-2021	HK2111683-019		2.9	----	----	----	----
G3-ME-S-2	29-Mar-2021	HK2111683-020		2.2	----	----	----	----
G3-ME-M-1	29-Mar-2021	HK2111683-021		2.8	----	----	----	----
G3-ME-M-2	29-Mar-2021	HK2111683-022		2.2	----	----	----	----
G3-ME-B-1	29-Mar-2021	HK2111683-023		2.1	----	----	----	----
G3-ME-B-2	29-Mar-2021	HK2111683-024		2.4	----	----	----	----
E1-MF-S-1	29-Mar-2021	HK2111683-025		3.3	----	----	----	----
E1-MF-S-2	29-Mar-2021	HK2111683-026		2.7	----	----	----	----
E1-MF-M-1	29-Mar-2021	HK2111683-027		3.4	----	----	----	----
E1-MF-M-2	29-Mar-2021	HK2111683-028		3.7	----	----	----	----
E1-MF-B-1	29-Mar-2021	HK2111683-029		3.5	----	----	----	----
E1-MF-B-2	29-Mar-2021	HK2111683-030		3.1	----	----	----	----
F1-MF-S-1	29-Mar-2021	HK2111683-031		2.3	----	----	----	----
F1-MF-S-2	29-Mar-2021	HK2111683-032		2.3	----	----	----	----
F1-MF-M-1	29-Mar-2021	HK2111683-033		2.1	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	29-Mar-2021	HK2111683-034		2.6	----	----	----	----
F1-MF-B-1	29-Mar-2021	HK2111683-035		2.6	----	----	----	----
F1-MF-B-2	29-Mar-2021	HK2111683-036		2.4	----	----	----	----
IM3-MF-S-1	29-Mar-2021	HK2111683-037		3.9	----	----	----	----
IM3-MF-S-2	29-Mar-2021	HK2111683-038		2.8	----	----	----	----
IM3-MF-B-1	29-Mar-2021	HK2111683-041		3.1	----	----	----	----
IM3-MF-B-2	29-Mar-2021	HK2111683-042		3.2	----	----	----	----
G3-MF-S-1	29-Mar-2021	HK2111683-043		3.2	----	----	----	----
G3-MF-S-2	29-Mar-2021	HK2111683-044		2.4	----	----	----	----
G3-MF-M-1	29-Mar-2021	HK2111683-045		3.2	----	----	----	----
G3-MF-M-2	29-Mar-2021	HK2111683-046		2.8	----	----	----	----
G3-MF-B-1	29-Mar-2021	HK2111683-047		3.3	----	----	----	----
G3-MF-B-2	29-Mar-2021	HK2111683-048		2.4	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3595148)								
HK2111683-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	2.0	12.7
HK2111683-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.1	2.5	15.2
EA/ED: Physical and Aggregate Properties (QC Lot: 3595149)								
HK2111683-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.1	2.3	7.91
HK2111683-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.1	2.3	10.2
EA/ED: Physical and Aggregate Properties (QC Lot: 3595150)								
HK2111683-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.2	2.5	25.1

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3595148)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	107	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3595149)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	101	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3595150)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96.0	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	: ENOVATIVE ENVIRONMENTAL SERVICE LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 5
Contact	: MR THOMAS WONG	Contact	: Richard Fung	Work Order	: HK2111684
Address	: FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: thomas.wong@eno.com.hk	E-mail	: richard.fung@alsglobal.com		
Telephone	: ----	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: H2H EXPRESS SUBMARINE CABLE			Date received	: 31-Mar-2021
Order number	: —	Quote number	: HKE/1236/2021	Date of issue	: 08-Apr-2021
C-O-C number	: —			No. of samples	- Received : 44
Site	: —				- Analysed : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	Position	Authorised results for:
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 31-Mar-2021 to 08-Apr-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2111684 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	31-Mar-2021	HK2111684-001		2.0	----	----	----	----
E1-ME-S-2	31-Mar-2021	HK2111684-002		2.1	----	----	----	----
E1-ME-M-1	31-Mar-2021	HK2111684-003		2.1	----	----	----	----
E1-ME-M-2	31-Mar-2021	HK2111684-004		2.1	----	----	----	----
E1-ME-B-1	31-Mar-2021	HK2111684-005		1.8	----	----	----	----
E1-ME-B-2	31-Mar-2021	HK2111684-006		1.4	----	----	----	----
F1-ME-S-1	31-Mar-2021	HK2111684-007		1.7	----	----	----	----
F1-ME-S-2	31-Mar-2021	HK2111684-008		1.5	----	----	----	----
F1-ME-M-1	31-Mar-2021	HK2111684-009		1.8	----	----	----	----
F1-ME-M-2	31-Mar-2021	HK2111684-010		1.4	----	----	----	----
F1-ME-B-1	31-Mar-2021	HK2111684-011		1.2	----	----	----	----
F1-ME-B-2	31-Mar-2021	HK2111684-012		1.4	----	----	----	----
IM3-ME-S-1	31-Mar-2021	HK2111684-013		3.0	----	----	----	----
IM3-ME-S-2	31-Mar-2021	HK2111684-014		2.1	----	----	----	----
IM3-ME-B-1	31-Mar-2021	HK2111684-017		3.4	----	----	----	----
IM3-ME-B-2	31-Mar-2021	HK2111684-018		2.8	----	----	----	----
G3-ME-S-1	31-Mar-2021	HK2111684-019		2.0	----	----	----	----
G3-ME-S-2	31-Mar-2021	HK2111684-020		2.1	----	----	----	----
G3-ME-M-1	31-Mar-2021	HK2111684-021		2.5	----	----	----	----
G3-ME-M-2	31-Mar-2021	HK2111684-022		2.4	----	----	----	----
G3-ME-B-1	31-Mar-2021	HK2111684-023		2.5	----	----	----	----
G3-ME-B-2	31-Mar-2021	HK2111684-024		3.1	----	----	----	----
E1-MF-S-1	31-Mar-2021	HK2111684-025		3.4	----	----	----	----
E1-MF-S-2	31-Mar-2021	HK2111684-026		2.8	----	----	----	----
E1-MF-M-1	31-Mar-2021	HK2111684-027		2.7	----	----	----	----
E1-MF-M-2	31-Mar-2021	HK2111684-028		2.3	----	----	----	----
E1-MF-B-1	31-Mar-2021	HK2111684-029		2.1	----	----	----	----
E1-MF-B-2	31-Mar-2021	HK2111684-030		2.7	----	----	----	----
F1-MF-S-1	31-Mar-2021	HK2111684-031		1.8	----	----	----	----
F1-MF-S-2	31-Mar-2021	HK2111684-032		1.5	----	----	----	----
F1-MF-M-1	31-Mar-2021	HK2111684-033		2.0	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	31-Mar-2021	HK2111684-034		2.1	----	----	----	----
F1-MF-B-1	31-Mar-2021	HK2111684-035		2.2	----	----	----	----
F1-MF-B-2	31-Mar-2021	HK2111684-036		2.8	----	----	----	----
IM3-MF-S-1	31-Mar-2021	HK2111684-037		2.3	----	----	----	----
IM3-MF-S-2	31-Mar-2021	HK2111684-038		2.6	----	----	----	----
IM3-MF-B-1	31-Mar-2021	HK2111684-041		3.4	----	----	----	----
IM3-MF-B-2	31-Mar-2021	HK2111684-042		2.5	----	----	----	----
G3-MF-S-1	31-Mar-2021	HK2111684-043		3.4	----	----	----	----
G3-MF-S-2	31-Mar-2021	HK2111684-044		2.8	----	----	----	----
G3-MF-M-1	31-Mar-2021	HK2111684-045		2.3	----	----	----	----
G3-MF-M-2	31-Mar-2021	HK2111684-046		3.1	----	----	----	----
G3-MF-B-1	31-Mar-2021	HK2111684-047		1.6	----	----	----	----
G3-MF-B-2	31-Mar-2021	HK2111684-048		2.1	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3599891)								
HK2111684-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.0	2.4	17.8
HK2111684-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	1.4	21.0
EA/ED: Physical and Aggregate Properties (QC Lot: 3599892)								
HK2111684-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.5	2.4	6.18
HK2111684-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.0	2.4	15.9
EA/ED: Physical and Aggregate Properties (QC Lot: 3599893)								
HK2111684-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	2.5	7.33

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3599891)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	106	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3599892)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	104	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3599893)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	93.0	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	: ENOVATIVE ENVIRONMENTAL SERVICE LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 5		
Contact	: MR THOMAS WONG	Contact	: Richard Fung	Work Order	: HK2111685		
Address	: FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong				
E-mail	: thomas.wong@eno.com.hk	E-mail	: richard.fung@alsglobal.com				
Telephone	: ----	Telephone	: +852 2610 1044				
Facsimile	: ----	Facsimile	: +852 2610 2021				
Project	: H2H EXPRESS SUBMARINE CABLE			Date received	: 02-Apr-2021		
Order number	: —	Quote number	: HKE/1236/2021	Date of issue	: 09-Apr-2021		
C-O-C number	: —			No. of samples	- Received	:	44
Site	: —				- Analysed	:	44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	Position	Authorised results for:
Fung Lim Chee, Richard	Managing Director	Inorganics

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 02-Apr-2021 to 09-Apr-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2111685 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: MARINE WATER			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	02-Apr-2021	HK2111685-001		0.5	----	----	----	----
E1-ME-S-2	02-Apr-2021	HK2111685-002		0.6	----	----	----	----
E1-ME-M-1	02-Apr-2021	HK2111685-003		<0.5	----	----	----	----
E1-ME-M-2	02-Apr-2021	HK2111685-004		<0.5	----	----	----	----
E1-ME-B-1	02-Apr-2021	HK2111685-005		<0.5	----	----	----	----
E1-ME-B-2	02-Apr-2021	HK2111685-006		<0.5	----	----	----	----
F1-ME-S-1	02-Apr-2021	HK2111685-007		<0.5	----	----	----	----
F1-ME-S-2	02-Apr-2021	HK2111685-008		<0.5	----	----	----	----
F1-ME-M-1	02-Apr-2021	HK2111685-009		<0.5	----	----	----	----
F1-ME-M-2	02-Apr-2021	HK2111685-010		<0.5	----	----	----	----
F1-ME-B-1	02-Apr-2021	HK2111685-011		<0.5	----	----	----	----
F1-ME-B-2	02-Apr-2021	HK2111685-012		<0.5	----	----	----	----
IM3-ME-S-1	02-Apr-2021	HK2111685-013		1.4	----	----	----	----
IM3-ME-S-2	02-Apr-2021	HK2111685-014		1.4	----	----	----	----
IM3-ME-B-1	02-Apr-2021	HK2111685-017		1.0	----	----	----	----
IM3-ME-B-2	02-Apr-2021	HK2111685-018		1.8	----	----	----	----
G3-ME-S-1	02-Apr-2021	HK2111685-019		0.8	----	----	----	----
G3-ME-S-2	02-Apr-2021	HK2111685-020		1.2	----	----	----	----
G3-ME-M-1	02-Apr-2021	HK2111685-021		0.5	----	----	----	----
G3-ME-M-2	02-Apr-2021	HK2111685-022		0.5	----	----	----	----
G3-ME-B-1	02-Apr-2021	HK2111685-023		0.8	----	----	----	----
G3-ME-B-2	02-Apr-2021	HK2111685-024		0.6	----	----	----	----
E1-MF-S-1	02-Apr-2021	HK2111685-025		1.4	----	----	----	----
E1-MF-S-2	02-Apr-2021	HK2111685-026		2.0	----	----	----	----
E1-MF-M-1	02-Apr-2021	HK2111685-027		1.6	----	----	----	----
E1-MF-M-2	02-Apr-2021	HK2111685-028		2.0	----	----	----	----
E1-MF-B-1	02-Apr-2021	HK2111685-029		1.8	----	----	----	----
E1-MF-B-2	02-Apr-2021	HK2111685-030		2.2	----	----	----	----
F1-MF-S-1	02-Apr-2021	HK2111685-031		<0.5	----	----	----	----
F1-MF-S-2	02-Apr-2021	HK2111685-032		<0.5	----	----	----	----
F1-MF-M-1	02-Apr-2021	HK2111685-033		<0.5	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	02-Apr-2021	HK2111685-034		<0.5	----	----	----	----
F1-MF-B-1	02-Apr-2021	HK2111685-035		**0.6**	----	----	----	----
F1-MF-B-2	02-Apr-2021	HK2111685-036		**0.5**	----	----	----	----
IM3-MF-S-1	02-Apr-2021	HK2111685-037		**0.8**	----	----	----	----
IM3-MF-S-2	02-Apr-2021	HK2111685-038		**1.2**	----	----	----	----
IM3-MF-B-1	02-Apr-2021	HK2111685-041		**0.9**	----	----	----	----
IM3-MF-B-2	02-Apr-2021	HK2111685-042		**1.1**	----	----	----	----
G3-MF-S-1	02-Apr-2021	HK2111685-043		**0.6**	----	----	----	----
G3-MF-S-2	02-Apr-2021	HK2111685-044		**0.9**	----	----	----	----
G3-MF-M-1	02-Apr-2021	HK2111685-045		**1.1**	----	----	----	----
G3-MF-M-2	02-Apr-2021	HK2111685-046		**0.8**	----	----	----	----
G3-MF-B-1	02-Apr-2021	HK2111685-047		**1.2**	----	----	----	----
G3-MF-B-2	02-Apr-2021	HK2111685-048		**1.0**	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3601764)								
HK2111685-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.5	0.7	28.6
HK2111685-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.00
EA/ED: Physical and Aggregate Properties (QC Lot: 3601765)								
HK2111685-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.6	23.7
HK2111685-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.00
EA/ED: Physical and Aggregate Properties (QC Lot: 3601766)								
HK2111685-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.0	0.00

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3601764)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3601765)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	92.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3601766)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	97.0	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2112464**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 04-Apr-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 09-Apr-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
		
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 04-Apr-2021 to 09-Apr-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2112464 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: MARINE WATER			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	04-Apr-2021	HK2112464-001		0.8	----	----	----	----
E1-ME-S-2	04-Apr-2021	HK2112464-002		1.2	----	----	----	----
E1-ME-M-1	04-Apr-2021	HK2112464-003		1.4	----	----	----	----
E1-ME-M-2	04-Apr-2021	HK2112464-004		1.2	----	----	----	----
E1-ME-B-1	04-Apr-2021	HK2112464-005		1.2	----	----	----	----
E1-ME-B-2	04-Apr-2021	HK2112464-006		1.6	----	----	----	----
F1-ME-S-1	04-Apr-2021	HK2112464-007		1.0	----	----	----	----
F1-ME-S-2	04-Apr-2021	HK2112464-008		0.8	----	----	----	----
F1-ME-M-1	04-Apr-2021	HK2112464-009		1.2	----	----	----	----
F1-ME-M-2	04-Apr-2021	HK2112464-010		0.9	----	----	----	----
F1-ME-B-1	04-Apr-2021	HK2112464-011		1.0	----	----	----	----
F1-ME-B-2	04-Apr-2021	HK2112464-012		1.1	----	----	----	----
IM3-ME-S-1	04-Apr-2021	HK2112464-013		2.3	----	----	----	----
IM3-ME-S-2	04-Apr-2021	HK2112464-014		2.1	----	----	----	----
IM3-ME-B-1	04-Apr-2021	HK2112464-017		1.4	----	----	----	----
IM3-ME-B-2	04-Apr-2021	HK2112464-018		2.0	----	----	----	----
G3-ME-S-1	04-Apr-2021	HK2112464-019		<0.5	----	----	----	----
G3-ME-S-2	04-Apr-2021	HK2112464-020		<0.5	----	----	----	----
G3-ME-M-1	04-Apr-2021	HK2112464-021		<0.5	----	----	----	----
G3-ME-M-2	04-Apr-2021	HK2112464-022		<0.5	----	----	----	----
G3-ME-B-1	04-Apr-2021	HK2112464-023		0.6	----	----	----	----
G3-ME-B-2	04-Apr-2021	HK2112464-024		0.7	----	----	----	----
E1-MF-S-1	04-Apr-2021	HK2112464-025		0.8	----	----	----	----
E1-MF-S-2	04-Apr-2021	HK2112464-026		0.6	----	----	----	----
E1-MF-M-1	04-Apr-2021	HK2112464-027		1.0	----	----	----	----
E1-MF-M-2	04-Apr-2021	HK2112464-028		0.6	----	----	----	----
E1-MF-B-1	04-Apr-2021	HK2112464-029		1.1	----	----	----	----
E1-MF-B-2	04-Apr-2021	HK2112464-030		0.7	----	----	----	----
F1-MF-S-1	04-Apr-2021	HK2112464-031		0.8	----	----	----	----
F1-MF-S-2	04-Apr-2021	HK2112464-032		1.0	----	----	----	----
F1-MF-M-1	04-Apr-2021	HK2112464-033		0.6	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	04-Apr-2021	HK2112464-034		1.0	----	----	----	----
F1-MF-B-1	04-Apr-2021	HK2112464-035		0.9	----	----	----	----
F1-MF-B-2	04-Apr-2021	HK2112464-036		1.0	----	----	----	----
IM3-MF-S-1	04-Apr-2021	HK2112464-037		0.8	----	----	----	----
IM3-MF-S-2	04-Apr-2021	HK2112464-038		0.5	----	----	----	----
IM3-MF-B-1	04-Apr-2021	HK2112464-041		0.5	----	----	----	----
IM3-MF-B-2	04-Apr-2021	HK2112464-042		0.7	----	----	----	----
G3-MF-S-1	04-Apr-2021	HK2112464-043		1.0	----	----	----	----
G3-MF-S-2	04-Apr-2021	HK2112464-044		1.5	----	----	----	----
G3-MF-M-1	04-Apr-2021	HK2112464-045		1.0	----	----	----	----
G3-MF-M-2	04-Apr-2021	HK2112464-046		0.9	----	----	----	----
G3-MF-B-1	04-Apr-2021	HK2112464-047		1.2	----	----	----	----
G3-MF-B-2	04-Apr-2021	HK2112464-048		0.9	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3603688)								
HK2112464-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	1.0	19.2
HK2112464-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.2	9.09
EA/ED: Physical and Aggregate Properties (QC Lot: 3603690)								
HK2112464-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.6	0.9	37.3
HK2112464-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.6	0.5	22.2
EA/ED: Physical and Aggregate Properties (QC Lot: 3603691)								
HK2112464-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.2	22.2

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3603688)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3603690)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	94.5	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3603691)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

CERTIFICATE OF ANALYSIS

Client	:	ENOVATIVE ENVIRONMENTAL SERVICE LTD	*Laboratory*	:	ALS Technichem (HK) Pty Ltd	*Page*	: 1 of 5
Contact	:	MR THOMAS WONG	*Contact*	:	Richard Fung	*Work Order*	: **HK2112465**
Address	:	FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	*Address*	:	11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	:	thomas.wong@eno.com.hk	*E-mail*	:	richard.fung@alsglobal.com		
Telephone	:	----	*Telephone*	:	+852 2610 1044		
Facsimile	:	----	*Facsimile*	:	+852 2610 2021		
Project	:	H2H EXPRESS SUBMARINE CABLE				*Date received*	: 06-Apr-2021
Order number	:	—	*Quote number*	:	HKE/1236/2021	*Date of issue*	: 09-Apr-2021
C-O-C number	:	—				*No. of samples*	- *Received* : 44
Site	:	—					- *Analysed* : 44

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory	*Position*	*Authorised results for:*
		
Fung Lim Chee, Richard	**Managing Director**	**Inorganics**

General Comments

This report supersedes any previous report(s) with this reference. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 06-Apr-2021 to 09-Apr-2021.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order HK2112465 :

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Analytical Results

Sub-Matrix: **MARINE WATER**

Sample ID	Sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
				EA/ED: Physical and Aggregate Properties	----	----	----	----
E1-ME-S-1	06-Apr-2021	HK2112465-001		1.9	----	----	----	----
E1-ME-S-2	06-Apr-2021	HK2112465-002		1.5	----	----	----	----
E1-ME-M-1	06-Apr-2021	HK2112465-003		1.1	----	----	----	----
E1-ME-M-2	06-Apr-2021	HK2112465-004		1.5	----	----	----	----
E1-ME-B-1	06-Apr-2021	HK2112465-005		0.9	----	----	----	----
E1-ME-B-2	06-Apr-2021	HK2112465-006		1.2	----	----	----	----
F1-ME-S-1	06-Apr-2021	HK2112465-007		1.6	----	----	----	----
F1-ME-S-2	06-Apr-2021	HK2112465-008		2.1	----	----	----	----
F1-ME-M-1	06-Apr-2021	HK2112465-009		1.9	----	----	----	----
F1-ME-M-2	06-Apr-2021	HK2112465-010		1.2	----	----	----	----
F1-ME-B-1	06-Apr-2021	HK2112465-011		1.0	----	----	----	----
F1-ME-B-2	06-Apr-2021	HK2112465-012		1.8	----	----	----	----
IM3-ME-S-1	06-Apr-2021	HK2112465-013		3.0	----	----	----	----
IM3-ME-S-2	06-Apr-2021	HK2112465-014		2.4	----	----	----	----
IM3-ME-B-1	06-Apr-2021	HK2112465-017		2.1	----	----	----	----
IM3-ME-B-2	06-Apr-2021	HK2112465-018		1.7	----	----	----	----
G3-ME-S-1	06-Apr-2021	HK2112465-019		2.2	----	----	----	----
G3-ME-S-2	06-Apr-2021	HK2112465-020		2.2	----	----	----	----
G3-ME-M-1	06-Apr-2021	HK2112465-021		1.7	----	----	----	----
G3-ME-M-2	06-Apr-2021	HK2112465-022		1.3	----	----	----	----
G3-ME-B-1	06-Apr-2021	HK2112465-023		1.7	----	----	----	----
G3-ME-B-2	06-Apr-2021	HK2112465-024		1.8	----	----	----	----
E1-MF-S-1	06-Apr-2021	HK2112465-025		1.4	----	----	----	----
E1-MF-S-2	06-Apr-2021	HK2112465-026		2.0	----	----	----	----
E1-MF-M-1	06-Apr-2021	HK2112465-027		1.9	----	----	----	----
E1-MF-M-2	06-Apr-2021	HK2112465-028		2.8	----	----	----	----
E1-MF-B-1	06-Apr-2021	HK2112465-029		2.6	----	----	----	----
E1-MF-B-2	06-Apr-2021	HK2112465-030		2.7	----	----	----	----
F1-MF-S-1	06-Apr-2021	HK2112465-031		3.0	----	----	----	----
F1-MF-S-2	06-Apr-2021	HK2112465-032		3.6	----	----	----	----
F1-MF-M-1	06-Apr-2021	HK2112465-033		3.4	----	----	----	----

Sub-Matrix: **MARINE WATER**

			Compound	EA025: Suspended Solids (SS)	----	----	----	----
			LOR Unit	0.5 mg/L	----	----	----	----
Sample ID	Sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	----	----	----	----
F1-MF-M-2	06-Apr-2021	HK2112465-034		3.0	----	----	----	----
F1-MF-B-1	06-Apr-2021	HK2112465-035		2.1	----	----	----	----
F1-MF-B-2	06-Apr-2021	HK2112465-036		3.0	----	----	----	----
IM3-MF-S-1	06-Apr-2021	HK2112465-037		2.1	----	----	----	----
IM3-MF-S-2	06-Apr-2021	HK2112465-038		1.7	----	----	----	----
IM3-MF-B-1	06-Apr-2021	HK2112465-041		0.9	----	----	----	----
IM3-MF-B-2	06-Apr-2021	HK2112465-042		1.6	----	----	----	----
G3-MF-S-1	06-Apr-2021	HK2112465-043		2.1	----	----	----	----
G3-MF-S-2	06-Apr-2021	HK2112465-044		1.7	----	----	----	----
G3-MF-M-1	06-Apr-2021	HK2112465-045		1.2	----	----	----	----
G3-MF-M-2	06-Apr-2021	HK2112465-046		1.5	----	----	----	----
G3-MF-B-1	06-Apr-2021	HK2112465-047		1.2	----	----	----	----
G3-MF-B-2	06-Apr-2021	HK2112465-048		1.5	----	----	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 3606920)								
HK2112465-001	E1-ME-S-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.9	1.8	8.22
HK2112465-011	F1-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.2	13.6
EA/ED: Physical and Aggregate Properties (QC Lot: 3606921)								
HK2112465-023	G3-ME-B-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.7	1.9	12.4
HK2112465-033	F1-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.4	3.2	4.54
EA/ED: Physical and Aggregate Properties (QC Lot: 3606922)								
HK2112465-045	G3-MF-M-1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	1.0	22.7

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
		LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3606920)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	106	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3606921)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	110	----	85.9	117	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 3606922)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	106	----	85.9	117	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

APPENDIX D BASELINE WATER QUALITY MONITORING RESULTS (ZONE B)

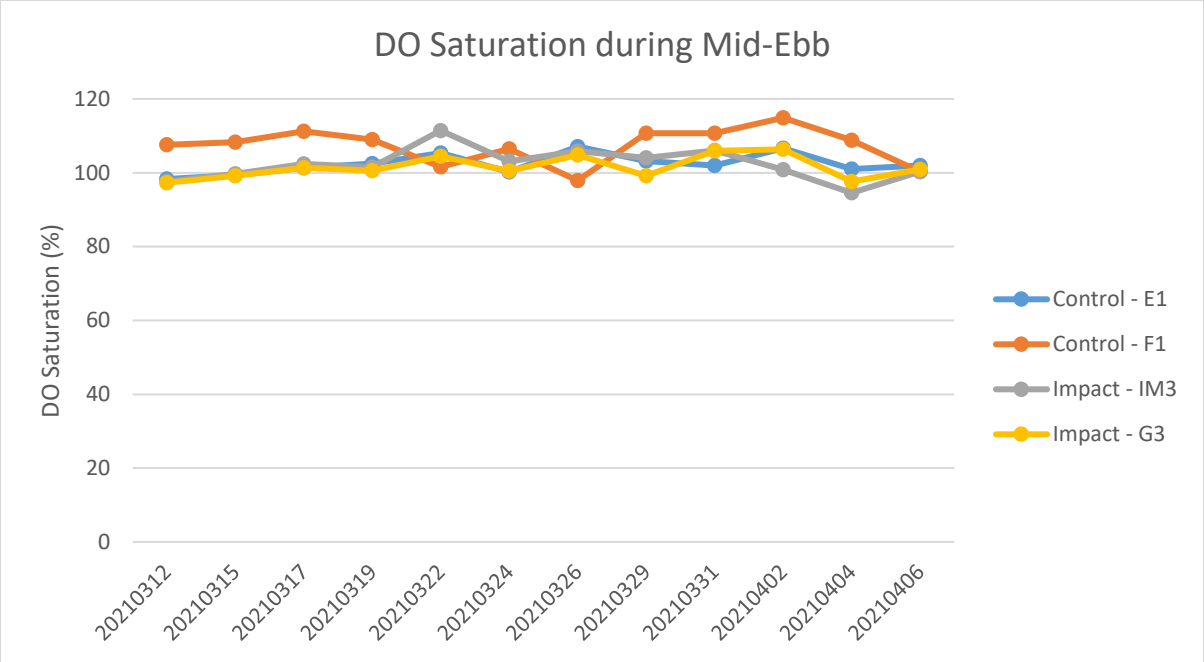
QA/QC Results of Laboratory Analysis of Total Suspended Solids				
Sampling Date	Sample Duplicate		Method Blank *	Laboratory Control Spike
	Sample ID	% Error	(mg/L)	% Recovery **
12-Mar-21	E1-ME-S-1	0.0	<0.5	102.0
	F1-ME-B-1	5.0		
	G3-ME-B-1	5.3	<0.5	106.0
	F1-MF-M-1	2.7		
	G3-MF-M-1	3.8	<0.5	108.0
15-Mar-21	E1-ME-S-1	9.5	<0.5	98.5
	F1-ME-B-1	18.2		
	G3-ME-B-1	11.8	<0.5	96.5
	F1-MF-M-1	0.0		
	G3-MF-M-1	10.0	<0.5	110.0
17-Mar-21	E1-ME-S-1	16.7	<0.5	93.5
	F1-ME-B-1	28.6		
	G3-ME-B-1	13.0	<0.5	96.5
	F1-MF-M-1	20.0		
	G3-MF-M-1	40.0	<0.5	102.0
19-Mar-21	E1-ME-S-1	12.5	<0.5	99.0
	F1-ME-B-1	9.1		
	G3-ME-B-1	0.0	<0.5	98.5
	F1-MF-M-1	8.3		
	G3-MF-M-1	5.9	<0.5	102.0
22-Mar-21	E1-ME-S-1	16.7	<0.5	103.0
	F1-ME-B-1	12.5		
	G3-ME-B-1	0.0	<0.5	106.0
	F1-MF-M-1	14.3		
	G3-MF-M-1	9.5	<0.5	98.5
24-Mar-21	E1-ME-S-1	8.6	<0.5	102.0
	F1-ME-B-1	2.5		
	G3-ME-B-1	5.3	<0.5	97.0
	F1-MF-M-1	3.7		
	G3-MF-M-1	2.2	<0.5	106.0
26-Mar-21	E1-ME-S-1	18.2	<0.5	104.0
	F1-ME-B-1	8.7		
	G3-ME-B-1	10.5	<0.5	106.0
	F1-MF-M-1	10.0		
	G3-MF-M-1	6.9	<0.5	92.5
29-Mar-21	E1-ME-S-1	13.0	<0.5	107.0
	F1-ME-B-1	19.0		
	G3-ME-B-1	9.5	<0.5	101.0
	F1-MF-M-1	9.5		
	G3-MF-M-1	21.9	<0.5	96.0
31-Mar-21	E1-ME-S-1	20.0	<0.5	106.0
	F1-ME-B-1	16.7		
	G3-ME-B-1	4.0	<0.5	104.0
	F1-MF-M-1	20.0		
	G3-MF-M-1	8.7	<0.5	93.0
2-Apr-21	E1-ME-S-1	40.0	<0.5	96.5
	F1-ME-B-1	0.0		
	G3-ME-B-1	25.0	<0.5	92.5
	F1-MF-M-1	0.0		
	G3-MF-M-1	9.1	<0.5	97.0
4-Apr-21	E1-ME-S-1	25.0	<0.5	96.5
	F1-ME-B-1	20.0		
	G3-ME-B-1	50.0	<0.5	94.5
	F1-MF-M-1	16.7		
	G3-MF-M-1	20.0	<0.5	102.0
6-Apr-21	E1-ME-S-1	5.3	<0.5	106.0
	F1-ME-B-1	20.0		
	G3-ME-B-1	11.8	<0.5	110.0
	F1-MF-M-1	5.9		
	G3-MF-M-1	16.7	<0.5	102.0

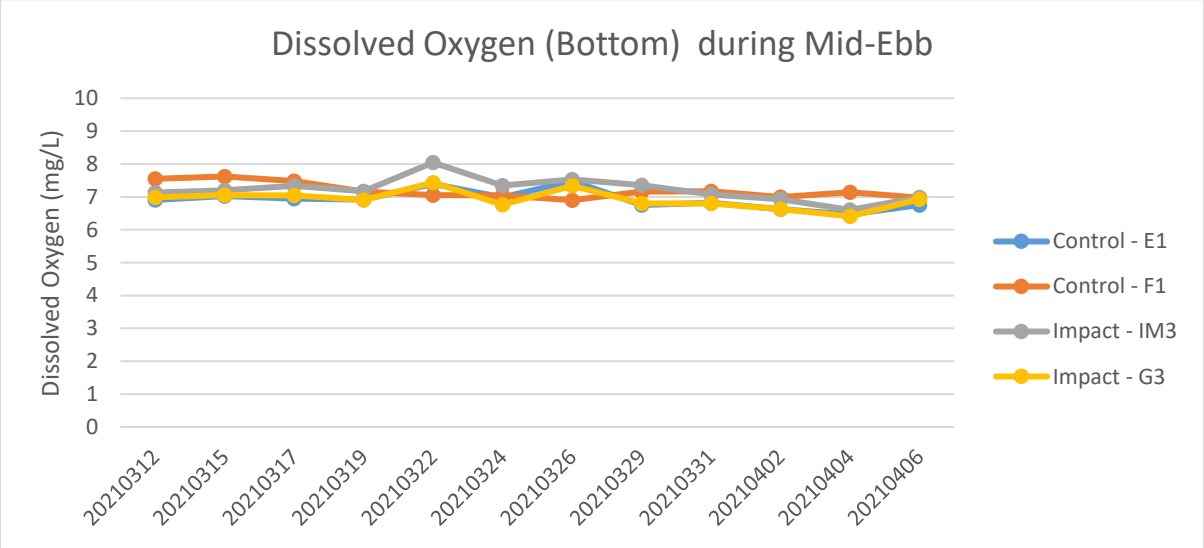
Note: (*) Reporting limit of SS is 0.5 mg/L.

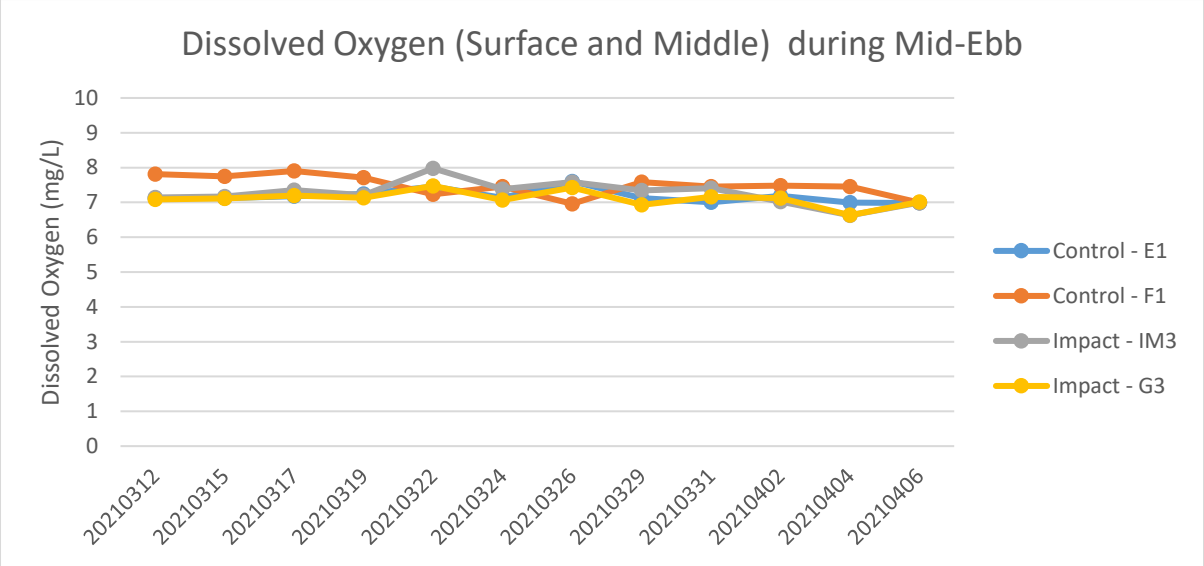
(**) % Recovery of laboratory control spike should be between 85% to 115%.

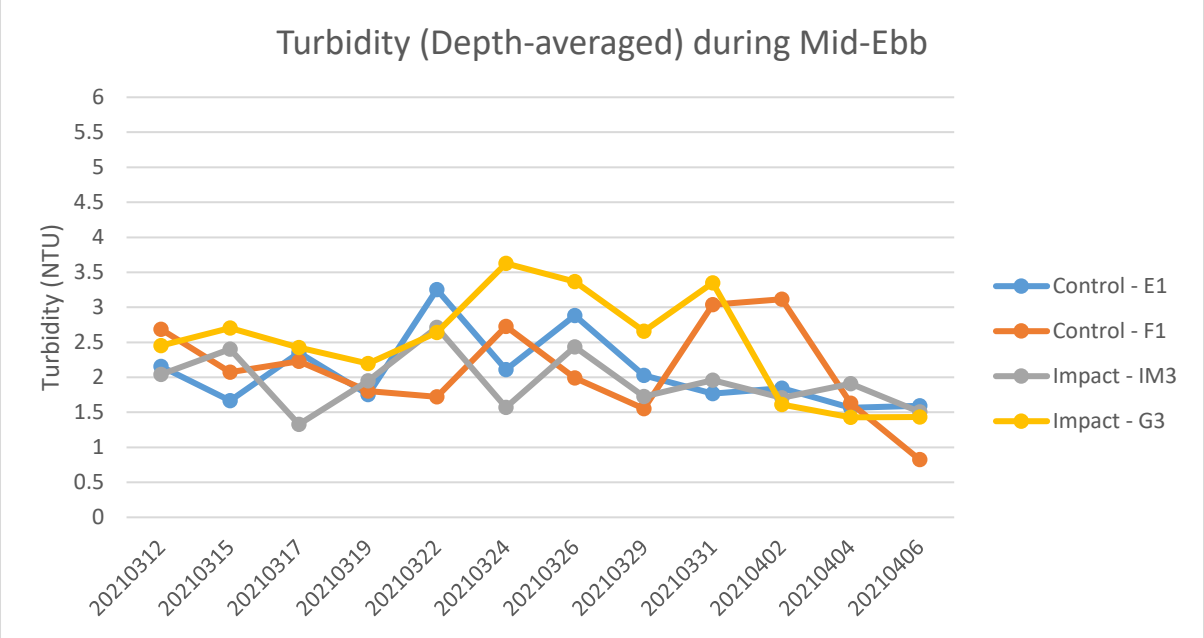
Graphical presentation of the baseline monitoring result for Zone B

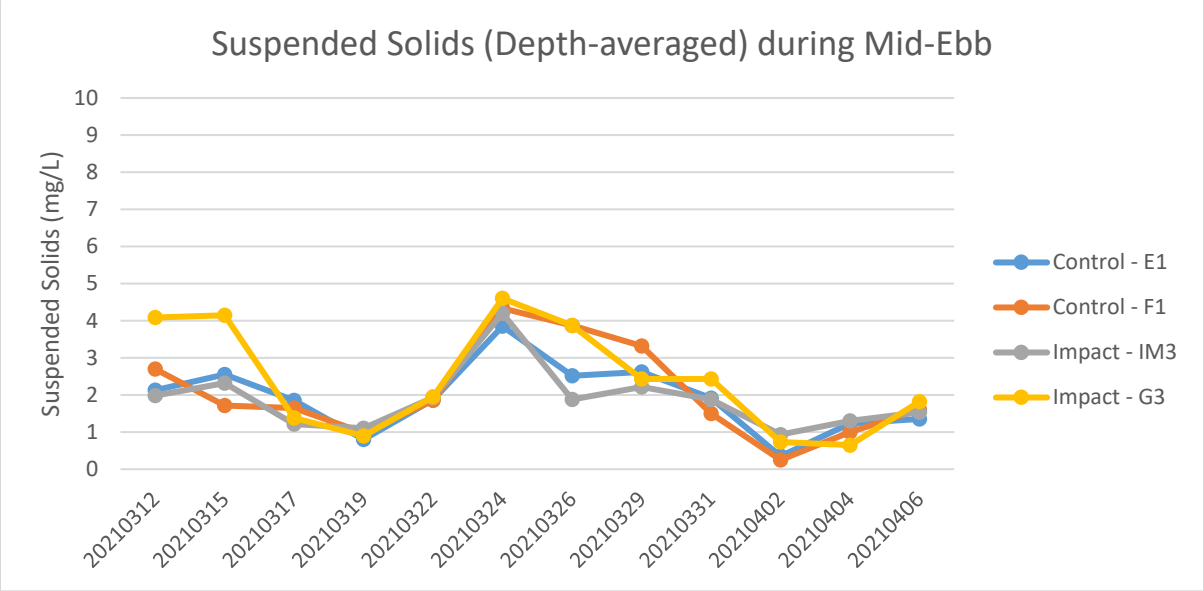
During Mid-Ebb



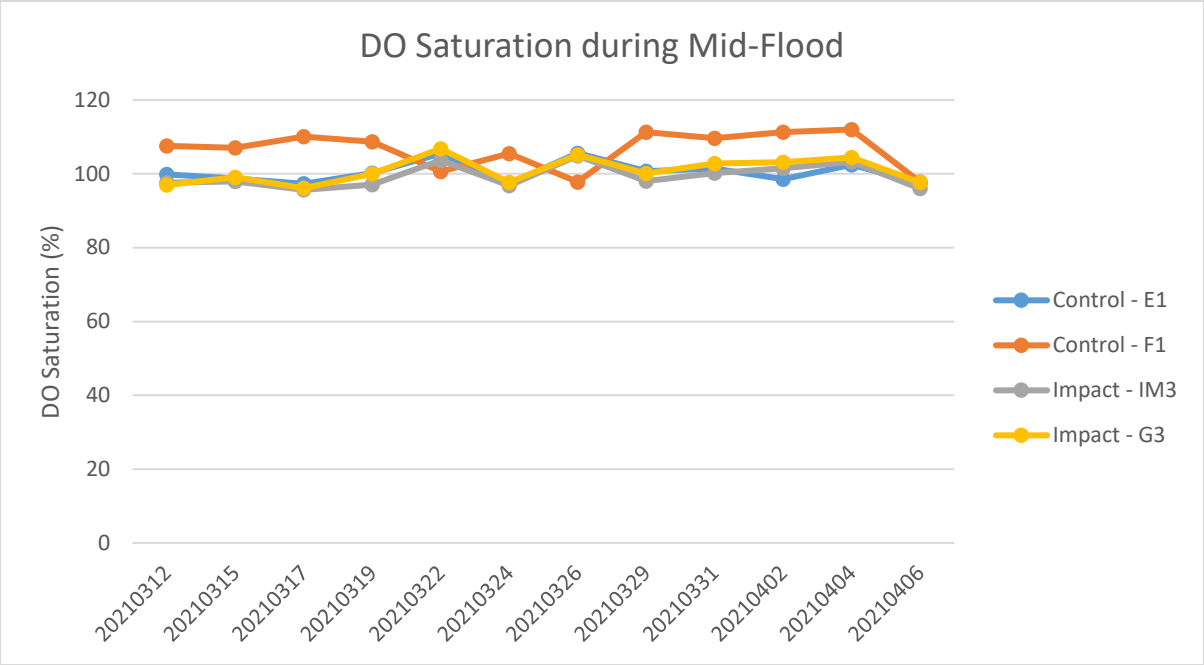


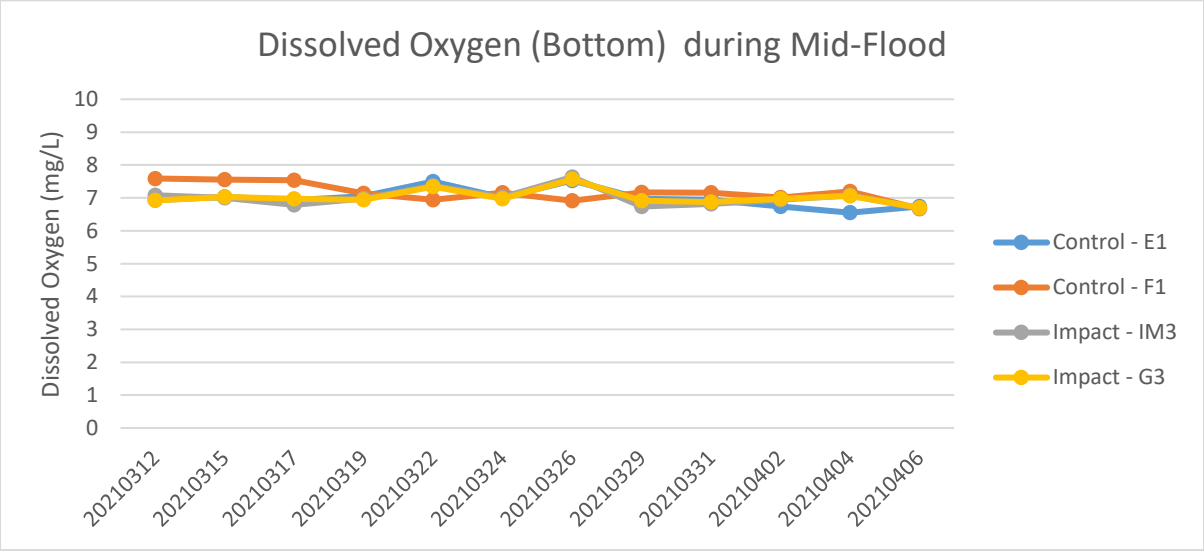

Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
20210312
20210315
20210317
20210319
20210322
20210324
20210326
20210329
20210331
20210402
20210404
20210406
Control - E1
Control - F1
Impact - IM3
Impact - G3

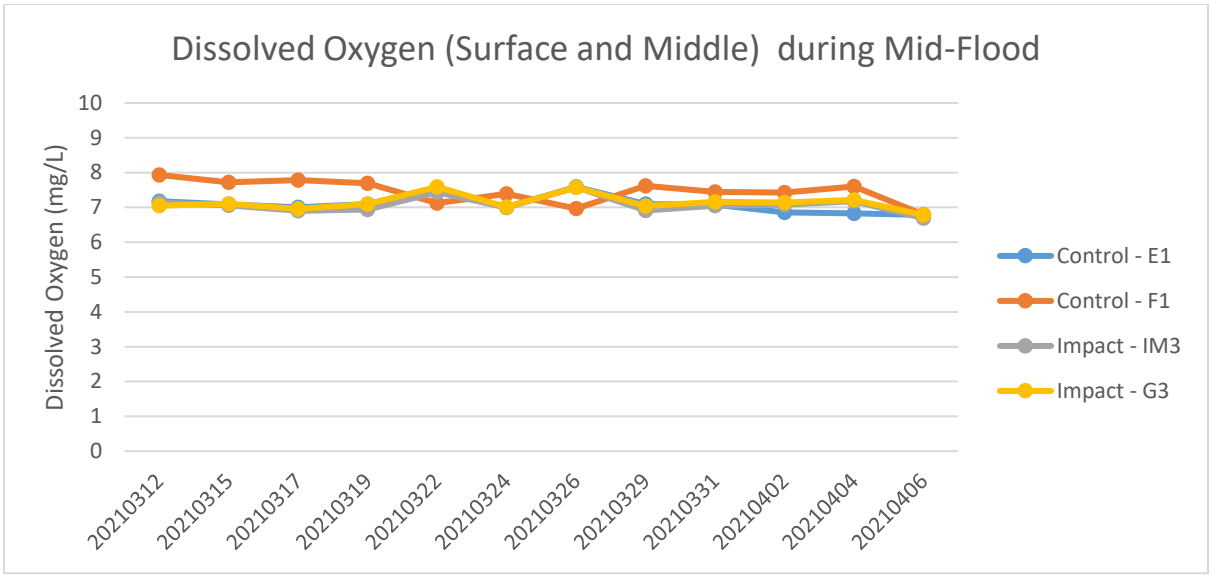

Turbidity (Depth-averaged) during Mid-Ebb
Turbidity (NTU)
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
20210312
20210315
20210317
20210319
20210322
20210324
20210326
20210329
20210331
20210402
20210404
20210406
Control - E1
Control - F1
Impact - IM3
Impact - G3

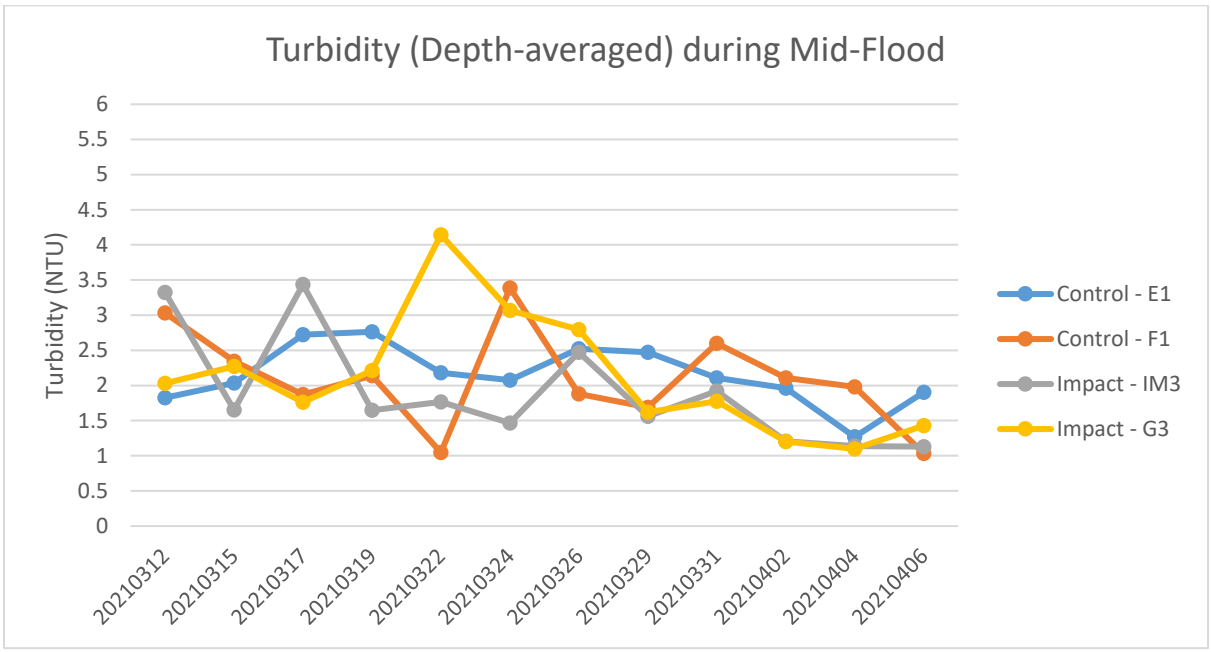

Suspended Solids (Depth-averaged) during Mid-Ebb
Suspended Solids (mg/L)
10
9
8
7
6
5
4
3
2
1
0
20210312
20210315
20210317
20210319
20210322
20210324
20210326
20210329
20210331
20210402
20210404
20210406
Control - E1
Control - F1
Impact - IM3
Impact - G3

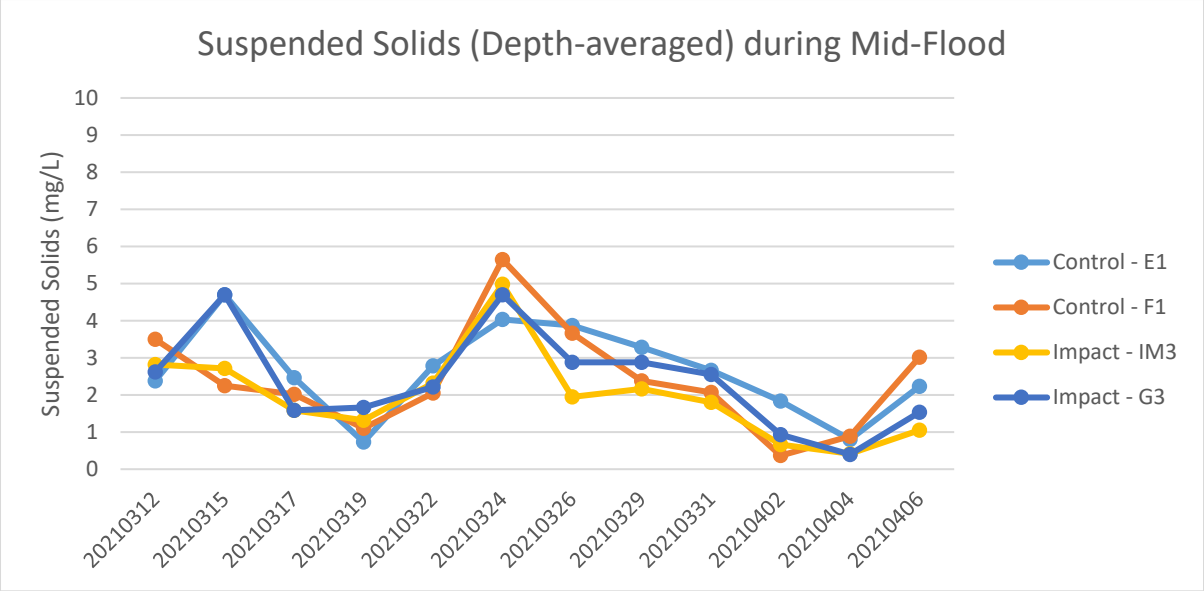
During Mid-Flood






Dissolved Oxygen (Surface and Middle) during Mid-Flood
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
20210312
20210315
20210317
20210319
20210322
20210324
20210326
20210329
20210331
20210402
20210404
20210406
Control - E1
Control - F1
Impact - IM3
Impact - G3


Turbidity (Depth-averaged) during Mid-Flood
Turbidity (NTU)
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
20210312
20210315
20210317
20210319
20210322
20210324
20210326
20210329
20210331
20210402
20210404
20210406
Control - E1
Control - F1
Impact - IM3
Impact - G3


Suspended Solids (Depth-averaged) during Mid-Flood
Suspended Solids (mg/L)
10
9
8
7
6
5
4
3
2
1
0
20210312
20210315
20210317
20210319
20210322
20210324
20210326
20210329
20210331
20210402
20210404
20210406
Control - E1
Control - F1
Impact - IM3
Impact - G3

Water Quality Monitoring Data Log Sheet **12-Mar-2021** **Tide: Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	23:31	25.1	S	0.08	268	20.6	20.6	34.71	34.71	8.07	8.07	98.3	98.3	7.20	7.20	7.12	1.43	1.44	2.16	2.2	2.2	2.1
						0.08	283	20.6		34.71		8.07		98.3		7.20			1.44			2.2		
					M	0.02	237	20.6	20.6	34.83	34.83	8.08	8.08	96.2	96.2	7.04	7.04		2.19	2.19		2.0	2.6	
						0.02	240	20.6		34.83		8.08		96.2		7.04			2.18			3.1		
					B	0.11	121	21.0	21.0	35.09	35.09	8.09	8.09	95.3	95.3	6.91	6.91		2.91	2.85		1.8	1.7	
						0.12	131	21.0		35.09		8.09		95.3		6.91			2.79			1.5		
F1	Cloudy	Rough	23:50	34.8	S	0.33	216	20.5	20.5	33.56	33.56	8.09	8.09	107.6	107.6	7.95	7.95	7.82	1.61	1.61	2.69	3.4	3.5	2.7
						0.35	227	20.5		33.56		8.09		107.6		7.95			1.61			3.5		
					M	0.21	222	20.5	20.5	33.80	33.80	8.08	8.08	104.0	104.0	7.68	7.68		1.82	1.83		2.4	2.5	
						0.22	236	20.5		33.80		8.08		104.0		7.68			1.83			2.6		
					B	0.24	202	20.5	20.5	34.04	34.04	8.08	8.08	102.5	102.5	7.56	7.56		4.64	4.63		2.0	2.2	
						0.26	216	20.5		34.04		8.08		102.5		7.55			4.61			2.3		
IM3	Cloudy	Calm	22:38	4.5	S	0.02	197	20.7	20.7	34.80	34.80	8.08	8.08	97.6	97.6	7.14	7.14	7.14	1.86	1.86	2.04	3.6	3.7	2.0
						0.02	203	20.7		34.80		8.08		97.6		7.14			1.85			3.8		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.02	173	20.6	20.7	34.82	34.82	8.09	8.09	97.4	97.4	7.13	7.13		2.20	2.23		2.2	2.3	
						0.02	184	20.7		34.82		8.09		97.4		7.13			2.25			2.3		
G3	Cloudy	Moderate	22:50	29.6	S	0.21	183	20.6	20.6	34.80	34.80	8.07	8.07	97.3	97.3	7.13	7.13	7.09	1.64	1.67	2.45	4.4	4.4	4.1
						0.23	183	20.6		34.80		8.07		97.3		7.13			1.69			4.3		
					M	0.23	173	20.6	20.6	34.87	34.87	8.08	8.08	96.1	96.1	7.04	7.04		2.18	2.22		4.1	4.1	
						0.24	180	20.6		34.87		8.08		96.1		7.04			2.26			4.0		
					B	0.24	172	20.7	20.7	34.94	34.94	8.09	8.09	95.7	95.7	6.99	6.99		3.46	3.47		3.8	3.9	
						0.24	185	20.7		34.94		8.09		95.7		6.99			3.48			3.9		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **12-Mar-2021** **Tide: Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Moderate	17:46	22.4	S	0.32	251	21.2	21.2	34.52	34.52	8.07	8.07	99.8	99.8	7.24	7.24	7.18	1.28	1.28	1.83	1.9	2.1	2.4
						0.33	257	21.2		34.52		8.07		99.8		7.24			1.27			2.2		
					M	0.24	279	20.7	20.7	34.70	34.70	8.09	8.09	97.2	97.2	7.11	7.11		1.62	1.62		2.3	2.4	
						0.26	292	20.7		34.70		8.09		97.1		7.11			1.61			2.5		
					B	0.21	265	20.7	20.7	34.84	34.84	8.13	8.13	94.8	94.9	6.93	6.93		2.64	2.59		2.8	2.7	
						0.22	281	20.7		34.84		8.13		94.9		6.93			2.53			2.6		
F1	Cloudy	Moderate	15:52	34.7	S	0.09	246	21.6	21.6	33.83	33.83	8.08	8.08	110.4	110.4	7.99	7.99	7.85	1.52	1.51	2.19	3.8	3.9	3.5
						0.10	255	21.6		33.83		8.08		110.4		7.99			1.50			4.0		
					M	0.11	150	20.4	20.4	33.75	33.75	8.06	8.06	104.2	104.2	7.70	7.70		1.82	1.83		3.7	3.7	
						0.12	154	20.4		33.75		8.06		104.1		7.70			1.83			3.6		
					B	0.16	150	20.7	20.7	34.09	34.09	8.05	8.05	102.2	102.2	7.51	7.51		3.21	3.24		3.0	3.0	
						0.16	164	20.7		34.09		8.05		102.2		7.51			3.27			2.9		
IM3	Fine	Calm	18:37	5.6	S	0.01	76	20.7	20.7	34.79	34.79	8.17	8.17	97.6	97.6	7.14	7.14	7.14	3.26	3.26	3.33	3.5	3.8	2.8
						0.01	79	20.7		34.79		8.17		97.5		7.13			3.25			4.0		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.03	75	20.7	20.7	34.80	34.80	8.21	8.21	96.9	96.9	7.08	7.08		3.40	3.40		4.8	4.7	
						0.03	75	20.7		34.80		8.21		96.9		7.08			3.39			4.6		
G3	Fine	Moderate	18:27	7.3	S	0.20	268	20.8	20.8	34.78	34.78	8.09	8.09	97.0	97.0	7.08	7.08	7.05	1.88	1.88	2.03	3.3	3.2	2.6
						0.21	292	20.8		34.78		8.09		96.9		7.08			1.87			3.0		
					M	0.09	263	20.7	20.7	34.79	34.79	8.10	8.10	96.0	96.0	7.02	7.02		1.83	1.84		2.6	2.8	
						0.09	268	20.7		34.79		8.10		95.9		7.02			1.85			2.9		
					B	0.06	303	20.9	20.9	34.96	34.96	8.12	8.12	95.0	95.1	6.92	6.93		2.43	2.38		2.0	2.0	
						0.07	320	20.9		34.96		8.12		95.1		6.93			2.32			1.9		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **15-Mar-2021** **Tide:** **Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Rough	13:04	25	S	0.14	227	21.6	21.6	35.05	35.05	8.09	8.09	99.4	99.4	7.14	7.14	7.12	1.47	1.48	1.67	2.1	2.4	2.6
						0.15	227	21.6		35.05		8.09		99.4		7.14			1.48			2.7		
					M	0.08	89	21.6	21.6	35.07	35.07	8.11	8.11	98.8	98.8	7.10	7.10		1.40	1.39		2.7	2.5	
						0.08	92	21.6		35.07		8.11		98.8		7.10			1.38			2.3		
					B	0.08	83	21.6	21.6	35.10	35.10	8.16	8.16	97.7	97.7	7.02	7.02		2.13	2.13		2.5	2.8	
						0.08	85	21.6		35.10		8.16		97.7		7.02			2.13			3.0		
F1	Fine	Rough	11:46	35.2	S	0.10	101	21.2	21.2	33.90	33.90	8.11	8.11	108.3	108.3	7.88	7.88	7.75	1.65	1.66	2.08	2.4	2.2	1.7
						0.11	102	21.2		33.90		8.11		108.3		7.88			1.66			2.0		
					M	0.20	64	21.1	21.1	33.97	33.97	8.11	8.11	104.6	104.6	7.63	7.63		2.18	2.19		1.8	1.6	
						0.22	64	21.1		33.97		8.11		104.6		7.62			2.20			1.4		
					B	0.28	56	21.1	21.1	33.98	33.98	8.12	8.12	104.5	104.5	7.62	7.62		2.38	2.38		1.1	1.4	
						0.30	60	21.1		33.98		8.12		104.5		7.62			2.38			1.6		
IM3	Fine	Calm	12:06	5.1	S	0.01	248	21.6	21.6	35.01	35.01	8.13	8.13	99.7	99.7	7.16	7.17	7.17	2.01	2.03	2.40	2.6	2.7	2.3
						0.01	250	21.6		35.01		8.13		99.7		7.17			2.04			2.7		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.02	104	21.5	21.5	35.02	35.02	8.14	8.14	100.1	100.1	7.20	7.20		2.78	2.78		4.0	4.3	
						0.02	105	21.5		35.02		8.14		100.1		7.20			2.78			4.6		
G3	Fine	Rough	12:15	31.6	S	0.41	193	21.6	21.6	35.04	35.04	8.09	8.09	99.2	99.2	7.13	7.13	7.11	1.77	1.77	2.70	4.2	4.5	4.2
						0.44	205	21.6		35.04		8.09		99.2		7.13			1.77			4.7		
					M	0.28	170	21.5	21.5	35.04	35.04	8.10	8.10	98.4	98.4	7.09	7.09		2.60	2.60		4.0	4.2	
						0.30	179	21.5		35.04		8.10		98.4		7.09			2.60			4.4		
					B	0.30	181	21.5	21.5	35.05	35.05	8.16	8.16	97.9	97.9	7.05	7.05		3.61	3.74		3.4	3.8	
						0.31	184	21.5		35.05		8.16		97.9		7.05			3.87			4.2		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **15-Mar-2021** **Tide: Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Rough	08:16	25	S	0.44	260	21.5	21.5	35.12	35.12	8.09	8.10	98.7	98.7	7.11	7.11	7.09	1.89	1.89	2.04	5.1	5.0	4.7
						0.44	270	21.5		35.12		8.10		98.7		7.11			1.89			4.8		
					M	0.33	258	21.5	21.5	35.13	35.13	8.10	8.10	98.2	98.2	7.07	7.07		1.90	1.91		4.6	4.6	
						0.35	271	21.5		35.13		8.10		98.2		7.07			1.91			4.5		
					B	0.17	273	21.5	21.5	35.11	35.11	8.11	8.11	97.7	97.7	7.03	7.03		2.30	2.32		4.3	4.6	
						0.19	282	21.5		35.11		8.11		97.7		7.03			2.33			4.9		
F1	Fine	Rough	09:44	34.6	S	0.08	41	21.2	21.2	33.93	33.93	8.10	8.10	107.0	107.0	7.80	7.80	7.72	1.66	1.66	2.34	1.6	1.8	2.3
						0.09	42	21.2		33.93		8.10		107.0		7.79			1.66			1.9		
					M	0.14	333	21.1	21.1	33.98	33.98	8.09	8.09	104.8	104.8	7.64	7.64		2.00	2.00		2.0	2.3	
						0.14	349	21.1		33.98		8.09		104.8		7.64			2.00			2.6		
					B	0.29	19	21.2	21.2	34.03	34.03	8.07	8.07	103.9	103.9	7.56	7.56		3.39	3.37		2.4	2.7	
						0.31	20	21.2		34.03		8.07		103.9		7.56			3.35			3.0		
IM3	Fine	Calm	07:26	4.8	S	0.04	205	21.3	21.3	35.12	35.12	8.03	8.03	97.9	97.9	7.06	7.06	7.06	1.60	1.60	1.65	5.1	4.7	2.7
						0.04	213	21.3		35.12		8.03		97.9		7.06			1.59			4.2		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.09	326	21.3	21.3	35.11	35.11	7.99	7.99	97.1	97.1	7.01	7.01		1.70	1.71		3.3	3.5	
						0.10	354	21.3		35.11		7.99		97.1		7.00			1.72			3.7		
G3	Fine	Rough	07:38	28.4	S	0.48	199	21.4	21.4	35.12	35.12	8.09	8.09	99.1	99.1	7.14	7.14	7.11	1.60	1.61	2.27	6.5	6.0	4.7
						0.53	208	21.4		35.12		8.09		99.1		7.14			1.61			5.4		
					M	0.31	175	21.5	21.5	35.17	35.17	8.09	8.09	98.4	98.4	7.07	7.07		2.06	2.06		4.0	4.4	
						0.33	177	21.5		35.17		8.09		98.4		7.07			2.06			4.8		
					B	0.27	145	21.6	21.6	35.17	35.17	8.10	8.11	98.0	98.0	7.03	7.03		3.13	3.15		4.1	3.8	
						0.29	145	21.6		35.17		8.11		98.0		7.03			3.17			3.4		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **17-Mar-2021** **Tide: Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Moderate	13:37	25.2	S	0.14	104	22.0	22.0	34.58	34.59	8.06	8.06	101.4	101.4	7.26	7.26	7.18	1.01	1.01	2.35	0.6	0.7	1.9
						0.15	107	21.9		34.59		8.06		101.3		7.26			1.00			0.7		
					M	0.27	91	21.9	21.9	34.97	34.97	8.08	8.08	99.2	99.2	7.10	7.10		1.39	1.40		2.3	2.6	
						0.28	92	21.9		34.97		8.08		99.2		7.09			1.41			2.8		
					B	0.24	111	21.9	21.9	35.05	35.05	8.11	8.11	97.2	97.3	6.95	6.95		4.64	4.65		2.0	2.4	
						0.24	111	21.9		35.05		8.11		97.3		6.95			4.66			2.7		
F1	Sunny	Rough	12:46	34.2	S	0.07	84	21.9	21.9	33.81	33.81	8.13	8.13	111.3	111.2	8.01	8.01	7.90	1.00	1.01	2.23	1.5	2.0	1.7
						0.07	88	21.9		33.81		8.13		111.1		8.00			1.01			2.4		
					M	0.18	49	21.6	21.6	33.82	33.82	8.13	8.13	107.8	107.7	7.81	7.80		1.08	1.09		1.4	1.8	
						0.19	50	21.6		33.82		8.13		107.5		7.79			1.10			2.2		
					B	0.19	38	21.7	21.7	34.09	34.09	8.14	8.14	103.7	103.8	7.48	7.49		4.60	4.59		1.4	1.2	
						0.20	41	21.7		34.09		8.14		103.8		7.49			4.58			1.0		
IM3	Fine	Calm	12:46	4.7	S	0.02	92	21.7	21.7	34.78	34.78	8.13	8.13	102.4	102.4	7.35	7.35	7.35	1.20	1.21	1.33	1.6	2.0	1.2
						0.02	99	21.7		34.78		8.13		102.4		7.35			1.22			2.4		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.00	174	21.7	21.7	34.80	34.80	8.17	8.17	102.3	102.3	7.34	7.34		1.43	1.45		2.0	1.7	
						0.00	185	21.7		34.80		8.17		102.2		7.34			1.46			1.3		
G3	Fine	Moderate	12:55	30.1	S	0.22	165	21.9	21.9	34.69	34.70	8.06	8.06	101.4	101.4	7.26	7.26	7.20	1.23	1.24	2.43	1.4	1.2	1.4
						0.23	166	21.9		34.71		8.06		101.3		7.26			1.25			1.0		
					M	0.20	164	21.5	21.5	34.90	34.90	8.08	8.08	99.0	99.0	7.13	7.13		2.14	2.15		1.4	1.3	
						0.22	173	21.5		34.90		8.08		99.0		7.13			2.16			1.1		
					B	0.17	132	21.5	21.5	34.94	34.94	8.09	8.09	97.8	97.8	7.04	7.04		3.76	3.89		2.3	1.7	
						0.18	135	21.5		34.94		8.09		97.8		7.04			4.01			1.1		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **17-Mar-2021** **Tide:** **Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Moderate	09:37	25	S	0.20	256	21.5	21.5	34.64	34.64	8.03	8.03	97.3	97.3	7.02	7.02	7.01	1.66	1.66	2.72	3.8	3.7	2.5
						0.22	265	21.5		34.64		8.03		97.3		7.02			1.66			3.5		
					M	0.14	290	21.5	21.5	34.85	34.86	8.05	8.05	97.0	97.0	6.99	6.99		2.09	2.10		2.5	2.1	
						0.15	295	21.5		34.86		8.05		97.0		6.99			2.10			1.6		
					B	0.12	311	21.5	21.5	34.86	34.86	8.05	8.05	96.2	96.2	6.93	6.93		4.24	4.41		2.1	1.7	
						0.12	327	21.5		34.86		8.05		96.2		6.93			4.58			1.3		
F1	Fine	Rough	10:29	34	S	0.02	243	21.8	21.8	33.84	33.84	8.14	8.14	110.2	110.1	7.94	7.94	7.79	1.03	1.04	1.87	2.7	2.4	2.0
						0.02	243	21.8		33.83		8.14		110.0		7.94			1.04			2.0		
					M	0.07	65	21.6	21.6	33.87	33.87	8.13	8.13	105.6	105.6	7.64	7.64		1.40	1.42		2.5	2.0	
						0.07	65	21.6		33.86		8.13		105.5		7.63			1.43			1.4		
					B	0.04	110	21.7	21.7	34.10	34.09	8.13	8.13	104.3	104.4	7.53	7.54		3.29	3.16		1.2	1.8	
						0.04	120	21.6		34.08		8.13		104.5		7.55			3.03			2.3		
IM3	Fine	Calm	08:49	4.8	S	0.01	98	21.6	21.6	34.44	34.45	8.05	8.05	95.7	95.7	6.90	6.90	6.90	1.31	1.32	3.44	2.2	2.7	1.6
						0.01	105	21.6		34.45		8.05		95.6		6.90			1.32			3.2		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.00	239	21.6	21.6	34.60	34.61	8.05	8.05	94.5	94.4	6.80	6.79		5.14	5.56		1.6	2.1	
						0.00	247	21.6		34.62		8.05		94.2		6.78			5.97			2.5		
G3	Fine	Calm	08:59	34.7	S	0.08	123	21.5	21.5	34.51	34.52	8.04	8.04	96.1	96.1	6.94	6.94	6.96	1.37	1.37	1.76	2.6	2.3	1.6
						0.08	127	21.5		34.52		8.04		96.1		6.93			1.37			1.9		
					M	0.10	44	21.6	21.6	34.70	34.70	8.06	8.06	97.0	97.1	6.98	6.99		1.67	1.69		1.5	1.3	
						0.11	44	21.6		34.70		8.06		97.1		6.99			1.71			1.1		
					B	0.10	52	21.6	21.6	34.76	34.76	8.07	8.07	96.9	96.8	6.98	6.97		2.23	2.23		1.4	1.2	
						0.11	55	21.6		34.76		8.07		96.7		6.96			2.23			1.0		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **19-Mar-2021** **Tide:** **Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	14:46	25	S	0.16	206	22.3	22.3	34.79	34.79	8.06	8.06	102.5	102.5	7.29	7.29	7.25	1.18	1.18	1.76	0.7	0.8	0.8
						0.17	206	22.3		34.79		8.06		102.5		7.29			1.18			0.8		
					M	0.08	137	22.2	22.2	34.93	34.93	8.08	8.08	101.3	101.3	7.20	7.20		1.22	1.22		0.8	0.8	
						0.09	138	22.2		34.93		8.08		101.2		7.20			1.22			0.8		
					B	0.17	136	22.2	22.2	35.03	35.03	8.08	8.09	97.4	97.5	6.92	6.92		2.87	2.87		0.9	0.9	
						0.18	148	22.2		35.03		8.09		97.5		6.92			2.86			0.8		
F1	Cloudy	Rough	14:00	34.6	S	0.06	97	22.2	22.2	33.72	33.72	8.10	8.10	109.0	109.0	7.81	7.81	7.71	1.08	1.09	1.81	0.9	0.9	1.0
						0.06	104	22.2		33.72		8.10		109.0		7.81			1.09			0.8		
					M	0.17	271	22.1	22.1	33.82	33.82	8.10	8.10	106.2	106.2	7.62	7.62		1.13	1.13		0.9	0.9	
						0.17	290	22.1		33.82		8.10		106.1		7.61			1.12			0.9		
					B	0.12	51	21.7	21.8	33.98	33.98	8.09	8.09	99.3	99.4	7.16	7.17		3.25	3.21		1.1	1.2	
						0.13	53	21.8		33.97		8.09		99.5		7.17			3.16			1.3		
IM3	Cloudy	Moderate	13:59	4.9	S	0.09	208	22.3	22.3	34.83	34.83	8.13	8.13	101.5	101.5	7.21	7.21	7.21	1.77	1.78	1.95	1.7	1.7	1.1
						0.09	208	22.3		34.83		8.13		101.5		7.21			1.78			1.7		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.05	41	22.1	22.1	34.83	34.83	8.20	8.21	100.5	100.5	7.17	7.17		2.12	2.13		1.6	1.6	
						0.05	41	22.1		34.83		8.21		100.5		7.17			2.13			1.6		
G3	Cloudy	Moderate	14:10	31.6	S	0.03	273	22.2	22.2	34.87	34.87	8.05	8.05	100.6	100.6	7.15	7.15	7.13	1.59	1.59	2.20	0.9	1.0	0.9
						0.03	292	22.2		34.87		8.05		100.6		7.15			1.59			1.0		
					M	0.03	30	22.1	22.1	34.90	34.90	8.06	8.06	99.7	99.7	7.11	7.11		1.41	1.41		0.9	0.9	
						0.03	32	22.1		34.90		8.06		99.7		7.11			1.41			0.9		
					B	0.16	115	22.0	22.0	34.94	34.94	8.07	8.07	96.8	96.9	6.91	6.91		3.56	3.59		0.8	0.9	
						0.17	117	22.0		34.94		8.07		96.9		6.91			3.62			0.9		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **19-Mar-2021** **Tide: Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	09:53	25.2	S	0.51	271	22.0	22.0	34.86	34.86	8.06	8.06	100.2	100.2	7.15	7.15	7.10	1.23	1.22	2.76	0.8	0.8	0.7
						0.51	284	22.0		34.86		8.06		100.2		7.15			1.21			0.8		
					M	0.49	281	22.1	22.1	34.90	34.90	8.06	8.06	98.7	98.7	7.04	7.04		1.96	1.99		0.7	0.8	
						0.53	306	22.1		34.90		8.06		98.7		7.04			2.01			0.8		
					B	0.32	261	22.1	22.1	34.91	34.91	8.07	8.07	98.8	98.9	7.05	7.05		5.50	5.09		0.6	0.7	
						0.32	264	22.1		34.91		8.07		98.9		7.05			4.67			0.7		
F1	Fine	Rough	11:06	34.7	S	0.07	249	22.1	22.1	33.72	33.72	8.10	8.10	108.7	108.7	7.80	7.80	7.70	1.19	1.20	2.14	1.3	1.3	1.1
						0.07	255	22.1		33.72		8.10		108.6		7.79			1.20			1.3		
					M	0.18	354	22.0	22.0	33.80	33.80	8.09	8.09	105.8	105.8	7.60	7.60		1.21	1.26		1.2	1.2	
						0.19	325.68	22.0		33.80		8.09		105.7		7.59			1.30			1.1		
					B	0.13	108	21.7	21.8	33.98	33.98	8.08	8.08	98.9	99.0	7.13	7.14		3.94	3.97		0.9	0.9	
						0.14	118	21.8		33.97		8.08		99.1		7.14			3.99			0.8		
IM3	Cloudy	Moderate	09:02	4.7	S	0.08	207	21.9	21.9	34.93	34.93	7.99	7.99	97.1	97.1	6.94	6.94	6.94	1.64	1.65	1.65	2.4	2.3	1.3
						0.09	221	21.9		34.93		7.99		97.1		6.94			1.66			2.1		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.05	97	22.0	22.0	34.94	34.94	7.97	7.97	97.7	97.7	6.98	6.98		1.65	1.65		1.6	1.7	
						0.05	98	22.0		34.94		7.97		97.7		6.98			1.64			1.8		
G3	Cloudy	Moderate	09:12	32	S	0.28	293	22.1	22.1	34.94	34.94	8.05	8.05	100.0	100.0	7.13	7.13	7.10	1.18	1.19	2.21	1.3	1.2	1.7
						0.28	321	22.1		34.94		8.05		100.0		7.13			1.19			1.1		
					M	0.14	316	22.0	22.0	34.95	34.95	8.05	8.05	98.9	98.9	7.06	7.06		1.18	1.19		1.7	1.7	
						0.15	347	22.0		34.95		8.05		98.9		7.06			1.19			1.6		
					B	0.09	307	22.1	22.1	35.00	35.00	8.05	8.05	97.4	97.4	6.94	6.94		4.28	4.27		2.3	2.2	
						0.09	328	22.1		35.00		8.05		97.4		6.94			4.26			2.0		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **22-Mar-2021** **Tide: Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	18:41	25.2	S	0.24	161	22.2	22.2	33.89	33.89	8.15	8.15	105.3	105.3	7.53	7.53	7.46	1.72	1.72	3.25	1.2	1.3	1.9
						0.25	162	22.2		33.89		8.15		105.3		7.53			1.72			1.4		
					M	0.15	115	22.3	22.4	33.94	33.95	8.14	8.14	103.6	103.6	7.39	7.39		2.90	3.02		1.9	2.0	
						0.16	115	22.4		33.96		8.14		103.5		7.38			3.13			2.0		
					B	0.21	104	22.4	22.4	34.01	34.01	8.13	8.13	103.7	103.8	7.39	7.40		5.07	5.03		2.6	2.4	
						0.22	107	22.4		34.01		8.13		103.9		7.40			4.98			2.1		
F1	Cloudy	Rough	17:57	35.4	S	0.43	199	21.8	21.8	34.82	34.82	8.15	8.15	101.6	101.6	7.28	7.28	7.23	0.86	0.87	1.72	1.6	1.6	1.9
						0.44	206	21.8		34.82		8.15		101.6		7.28			0.87			1.6		
					M	0.32	191	21.8	21.8	34.86	34.86	8.16	8.16	100.2	100.2	7.18	7.18		1.38	1.39		1.7	1.8	
						0.33	209	21.8		34.86		8.16		100.1		7.18			1.39			1.8		
					B	0.25	180	21.9	21.9	34.96	34.96	8.16	8.16	98.7	98.7	7.05	7.05		2.92	2.92		2.4	2.2	
						0.26	197	21.9		34.96		8.16		98.7		7.05			2.91			2.0		
IM3	Cloudy	Moderate	17:54	5.2	S	0.05	28	22.1	22.1	33.89	33.89	8.22	8.22	111.3	111.5	7.97	7.98	7.98	1.74	1.77	2.71	2.8	3.1	1.9
						0.05	29	22.1		33.89		8.22		111.6		7.99			1.80			3.4		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.05	34	22.1	22.1	33.90	33.90	8.22	8.22	112.3	112.2	8.05	8.05		3.71	3.66		2.8	2.7	
						0.05	34	22.1		33.90		8.22		112.1		8.04			3.60			2.6		
G3	Cloudy	Moderate	18:03	29.6	S	0.22	177	22.1	22.1	33.84	33.84	8.19	8.19	104.5	104.5	7.49	7.49	7.48	1.68	1.69	2.64	1.3	1.4	2.0
						0.23	186	22.1		33.84		8.19		104.5		7.49			1.69			1.4		
					M	0.20	167	22.2	22.2	33.88	33.88	8.18	8.18	104.2	104.2	7.46	7.46		1.62	1.63		1.6	1.7	
						0.21	179	22.2		33.88		8.18		104.2		7.46			1.63			1.8		
					B	0.18	169	22.2	22.2	33.95	33.95	8.18	8.18	103.9	104.0	7.43	7.44		4.77	4.61		3.0	2.8	
						0.19	178	22.2		33.95		8.18		104.0		7.44			4.44			2.6		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **22-Mar-2021** **Tide: Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (^{o}C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Rough	08:31	24.6	S	0.17	232	22.2	22.2	33.83	33.83	8.15	8.15	105.5	105.5	7.55	7.55	7.54	1.58	1.58	2.18	2.4	2.5	2.8
						0.18	244	22.2		33.83		8.15		105.5		7.55			1.58			2.5		
					M	0.12	265	22.2	22.2	33.83	33.83	8.15	8.15	105.3	105.3	7.54	7.54		1.56	1.56		2.8	2.7	
						0.13	265	22.2		33.83		8.15		105.3		7.53			1.56			2.6		
					B	0.06	229	22.3	22.3	33.88	33.89	8.13	8.13	104.9	105.0	7.50	7.50		3.40	3.41		3.2	3.2	
						0.06	233	22.3		33.89		8.13		105.0		7.50			3.41			3.2		
F1	Cloudy	Rough	09:10	35	S	0.48	205	21.9	21.9	35.03	35.03	8.16	8.16	100.6	100.6	7.19	7.19	7.12	0.70	0.70	1.05	2.5	2.4	2.1
						0.48	217	21.9		35.03		8.16		100.6		7.19			0.70			2.2		
					M	0.51	218	21.9	22.0	35.04	35.06	8.17	8.17	98.9	98.8	7.07	7.06		0.77	0.79		2.1	2.2	
						0.55	221	22.0		35.07		8.17		98.7		7.04			0.80			2.2		
					B	0.13	219	22.2	22.2	35.30	35.30	8.17	8.17	97.6	97.7	6.93	6.94		1.62	1.66		1.5	1.7	
						0.14	231	22.2		35.30		8.17		97.8		6.95			1.69			1.8		
IM3	Cloudy	Moderate	07:40	5.1	S	0.04	81	22.0	22.0	33.93	33.94	8.08	8.08	103.7	103.7	7.44	7.44	7.44	1.67	1.67	1.77	4.1	3.9	2.3
						0.04	82	22.0		33.94		8.08		103.6		7.43			1.67			3.6		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.07	194	21.9	21.9	33.96	33.96	8.07	8.07	102.4	102.5	7.36	7.37		1.85	1.86		3.4	3.1	
						0.07	209	21.9		33.96		8.07		102.5		7.37			1.87			2.8		
G3	Cloudy	Moderate	07:49	33.8	S	0.49	201	21.9	21.9	33.69	33.69	8.16	8.16	106.8	106.8	7.70	7.70	7.59	1.67	1.66	4.14	1.3	1.6	2.2
						0.51	216	21.9		33.69		8.16		106.8		7.69			1.65			1.9		
					M	0.35	196	22.1	22.1	33.81	33.81	8.14	8.14	104.4	104.4	7.49	7.49		2.40	2.42		2.1	2.3	
						0.37	198	22.1		33.81		8.14		104.3		7.48			2.44			2.5		
					B	0.20	210	22.3	22.3	34.08	34.08	8.12	8.12	102.8	103.0	7.33	7.35		8.80	8.35		2.8	2.8	
						0.21	226	22.3		34.08		8.12		103.1		7.36			7.90			2.7		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **24-Mar-2021** **Tide: Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	20:25	25.1	S	0.10	6	21.7	21.7	34.72	34.72	8.10	8.10	100.2	100.3	7.20	7.20	7.13	1.62	1.62	2.11	3.5	4.0	3.9
						0.11	6	21.7		34.72		8.10		100.3		7.20			1.61			4.4		
					M	0.13	35	21.7	21.7	34.82	34.82	8.09	8.09	98.3	98.3	7.06	7.06		1.75	1.75		4.2	4.0	
						0.13	36	21.7		34.82		8.09		98.3		7.06			1.75			3.7		
					B	0.12	350	21.8	21.8	34.96	34.96	8.09	8.09	97.5	97.6	6.98	6.99		2.92	2.97		3.3	3.7	
						0.13	322	21.8		34.96		8.09		97.6		6.99			3.01			4.0		
F1	Cloudy	Rough	19:39	34.8	S	0.14	326	23.0	23.0	34.22	34.22	8.16	8.16	106.5	106.5	7.50	7.50	7.45	1.18	1.18	2.73	4.5	4.8	4.3
						0.15	332	23.0		34.22		8.16		106.5		7.50			1.18			5.0		
					M	0.10	329	22.5	22.5	34.19	34.19	8.13	8.13	104.1	104.1	7.40	7.41		1.75	1.85		4.7	4.6	
						0.10	335	22.4		34.18		8.13		104.1		7.41			1.94			4.4		
					B	0.09	205	22.0	22.0	34.04	34.04	8.12	8.12	98.1	98.1	7.04	7.04		5.25	5.15		4.0	3.7	
						0.09	216	22.0		34.04		8.12		98.1		7.04			5.05			3.4		
IM3	Cloudy	Moderate	19:39	4.7	S	0.06	356	21.9	21.9	34.71	34.71	8.15	8.15	103.1	103.1	7.39	7.39	7.39	1.49	1.49	1.57	5.9	6.1	4.2
						0.06	327.52	21.8		34.71		8.15		103.0		7.38			1.49			6.3		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.07	327	21.7	21.7	34.77	34.77	8.18	8.18	102.3	102.4	7.34	7.35		1.65	1.65		6.1	6.5	
						0.07	328	21.7		34.77		8.18		102.4		7.35			1.65			6.9		
G3	Cloudy	Moderate	19:49	28	S	0.11	219	21.6	21.6	34.70	34.70	8.10	8.10	100.5	100.5	7.23	7.23	7.07	0.93	0.93	3.63	5.6	5.8	4.6
						0.12	239	21.6		34.70		8.10		100.4		7.22			0.93			5.9		
					M	0.14	179	21.8	21.8	34.97	34.97	8.09	8.09	96.5	96.5	6.91	6.91		2.65	2.65		4.2	4.7	
						0.15	195	21.8		34.97		8.09		96.5		6.91			2.65			5.2		
					B	0.01	31	22.1	22.1	35.25	35.25	8.07	8.07	95.1	95.1	6.76	6.76		7.21	7.30		3.8	3.4	
						0.01	33	22.1		35.25		8.07		95.1		6.76			7.39			2.9		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **24-Mar-2021** **Tide: Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (^{o}C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	09:37	24.8	S	0.14	190	21.5	21.5	34.77	34.77	8.11	8.11	97.3	97.3	7.01	7.02	7.00	1.38	1.39	2.08	3.9	3.5	4.0
						0.14	202	21.5		34.77		8.11		97.3		7.02			1.39			3.0		
					M	0.16	185	21.6	21.6	34.82	34.82	8.10	8.10	97.1	97.1	6.99	6.99		1.44	1.45		4.2	4.0	
						0.17	187	21.6		34.82		8.10		97.1		6.99			1.46			3.8		
					B	0.24	198	21.7	21.7	34.91	34.91	8.08	8.08	97.7	97.8	7.01	7.02		3.42	3.39		4.7	4.7	
						0.26	209	21.7		34.91		8.08		97.9		7.02			3.36			4.6		
F1	Cloudy	Rough	10:26	35.4	S	0.09	134	22.8	22.8	34.22	34.22	8.16	8.16	105.5	105.5	7.46	7.46	7.39	1.15	1.16	3.39	6.6	6.5	5.7
						0.09	142	22.8		34.22		8.16		105.5		7.46			1.16			6.3		
					M	0.17	108	22.4	22.4	34.19	34.19	8.14	8.14	102.9	102.8	7.33	7.32		1.72	1.77		5.4	5.6	
						0.18	116	22.4		34.18		8.14		102.6		7.31			1.82			5.8		
					B	0.06	123	22.0	22.0	34.00	34.01	8.13	8.13	99.7	99.7	7.16	7.16		7.39	7.24		5.1	4.9	
						0.06	127	22.0		34.01		8.13		99.7		7.16			7.09			4.7		
IM3	Cloudy	Moderate	10:23	4.9	S	0.05	305	21.4	21.4	34.73	34.73	8.10	8.10	96.8	96.8	7.00	7.00	7.00	1.49	1.49	1.47	7.1	7.4	5.0
						0.05	317	21.4		34.73		8.10		96.8		6.99			1.49			7.7		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.04	261	21.3	21.3	34.74	34.74	8.09	8.09	97.1	97.2	7.02	7.03		1.45	1.44		7.0	7.6	
						0.04	282	21.3		34.74		8.09		97.2		7.03			1.43			8.1		
G3	Cloudy	Moderate	10:13	30.9	S	0.11	205	21.5	21.5	34.81	34.81	8.11	8.11	97.7	97.7	7.04	7.04	7.01	1.44	1.45	3.07	5.4	5.7	4.7
						0.11	217	21.5		34.81		8.11		97.7		7.04			1.45			5.9		
					M	0.13	223	21.6	21.6	34.87	34.87	8.10	8.10	97.0	97.0	6.98	6.98		1.75	1.76		4.5	4.7	
						0.14	231	21.6		34.87		8.10		97.0		6.98			1.77			4.8		
					B	0.21	168	21.6	21.6	34.88	34.88	8.09	8.09	96.9	97.0	6.97	6.98		6.10	6.00		4.1	3.8	
						0.22	179	21.6		34.88		8.09		97.0		6.98			5.89			3.5		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **26-Mar-2021** **Tide: Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Rough	21:54	24.9	S	0.34	29	21.9	21.9	33.79	33.79	8.15	8.15	107.1	107.1	7.71	7.71	7.61	1.85	1.87	2.88	2.2	2.4	2.5
						0.35	26	21.9		33.79		8.15		107.1		7.71			1.88			2.5		
					M	0.38	27	21.9	21.9	33.83	33.84	8.15	8.15	104.3	104.3	7.50	7.50		2.55	2.64		2.1	2.5	
						0.42	27	21.9		33.84		8.15		104.3		7.50			2.72			2.8		
					B	0.17	104	22.0	22.0	33.91	33.91	8.15	8.15	104.3	104.3	7.48	7.49		4.27	4.15		2.9	2.8	
						0.18	108	22.0		33.91		8.15		104.3		7.49			4.02			2.6		
F1	Cloudy	Rough	23:10	34.8	S	0.27	17	22.0	22.0	35.05	35.05	8.11	8.11	97.9	97.9	6.99	6.99	6.96	1.75	1.75	1.99	3.4	3.5	3.9
						0.27	18	22.0		35.05		8.11		97.9		6.99			1.74			3.6		
					M	0.23	17	21.9	21.9	35.04	35.04	8.11	8.11	97.0	97.0	6.93	6.93		1.97	1.98		3.1	3.6	
						0.23	18	21.9		35.04		8.11		96.9		6.93			1.99			4.0		
					B	0.20	16	21.9	21.9	35.02	35.02	8.13	8.13	96.5	96.6	6.90	6.90		2.25	2.25		4.6	4.6	
						0.21	16	21.9		35.02		8.13		96.6		6.90			2.25			4.5		
IM3	Fine	Moderate	21:06	4.7	S	0.02	63	22.1	22.1	33.94	33.94	8.16	8.16	105.9	105.9	7.59	7.59	7.59	2.32	2.30	2.43	2.6	3.2	1.9
						0.02	68	22.1		33.94		8.16		105.8		7.58			2.27			3.7		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.01	257	21.9	21.9	33.90	33.90	8.17	8.18	104.7	104.7	7.53	7.53		2.58	2.57		2.8	2.5	
						0.01	260	21.9		33.90		8.18		104.7		7.53			2.56			2.2		
G3	Fine	Rough	21:13	29.6	S	0.08	43	22.3	22.3	34.04	34.04	8.14	8.14	104.8	104.8	7.47	7.47	7.43	2.11	2.12	3.37	3.4	3.3	3.9
						0.09	46	22.3		34.04		8.14		104.8		7.47			2.12			3.1		
					M	0.26	45	22.4	22.4	34.11	34.11	8.14	8.14	103.6	103.6	7.38	7.38		2.74	2.78		4.0	4.3	
						0.28	46	22.4		34.10		8.14		103.5		7.38			2.81			4.5		
					B	0.23	67	22.3	22.3	34.06	34.07	8.14	8.14	102.8	102.8	7.34	7.34		5.28	5.21		3.8	4.1	
						0.24	67	22.3		34.07		8.14		102.8		7.34			5.13			4.4		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **26-Mar-2021** **Tide:** **Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (^{o}C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Rough	15:15	24.8	S	0.60	235	21.8	21.8	33.77	33.77	8.16	8.16	105.6	105.6	7.62	7.62	7.59	2.12	2.12	2.52	3.1	2.8	3.9
						0.61	248	21.8		33.77		8.16		105.6		7.62			2.12			2.4		
					M	0.30	237	21.8	21.8	33.77	33.77	8.15	8.15	104.8	104.8	7.56	7.56		2.32	2.37		3.3	3.7	
						0.32	247	21.8		33.77		8.15		104.8		7.56			2.41			4.1		
					B	0.35	239	21.8	21.8	33.78	33.78	8.15	8.15	104.3	104.3	7.53	7.53		3.08	3.08		5.2	5.2	
						0.36	246	21.8		33.78		8.15		104.3		7.53			3.08			5.1		
F1	Cloudy	Rough	14:17	34.5	S	0.25	185	21.9	21.9	35.02	35.02	8.10	8.10	97.8	97.8	6.99	6.99	6.97	1.83	1.84	1.88	4.7	4.3	3.7
						0.26	186	21.9		35.02		8.10		97.8		6.99			1.85			3.9		
					M	0.23	171	21.9	21.9	35.03	35.03	8.10	8.10	97.1	97.1	6.94	6.94		1.85	1.85		4.0	3.9	
						0.24	186	21.9		35.03		8.10		97.1		6.94			1.85			3.8		
					B	0.17	139	21.9	21.9	35.02	35.02	8.09	8.09	96.6	96.6	6.91	6.91		1.94	1.95		2.7	2.8	
						0.18	140	21.9		35.02		8.09		96.6		6.91			1.96			2.9		
IM3	Fine	Moderate	14:27	5.3	S	0.01	155	21.7	21.7	33.78	33.78	8.15	8.15	104.9	104.9	7.58	7.58	7.58	2.17	2.19	2.47	2.0	2.5	2.0
						0.01	162	21.7		33.78		8.15		104.9		7.58			2.21			3.0		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.05	130	21.7	21.7	33.75	33.75	8.15	8.15	105.5	105.6	7.63	7.64		2.74	2.75		2.9	3.4	
						0.05	142	21.7		33.75		8.15		105.6		7.64			2.76			3.8		
G3	Fine	Rough	14:34	30.8	S	0.11	297	21.7	21.7	33.78	33.78	8.15	8.15	105.2	105.1	7.60	7.60	7.57	2.23	2.30	2.80	3.4	3.2	2.9
						0.11	326	21.7		33.78		8.15		105.0		7.59			2.37			3.0		
					M	0.15	53	21.6	21.6	33.78	33.78	8.15	8.15	104.4	104.4	7.55	7.55		2.88	2.93		2.9	3.2	
						0.16	55	21.6		33.78		8.15		104.4		7.55			2.97			3.4		
					B	0.15	21	21.6	21.6	33.78	33.81	8.15	8.15	104.5	104.5	7.56	7.57		3.20	3.17		2.0	2.3	
						0.15	21	21.5		33.83		8.15		104.5		7.57			3.13			2.6		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **29-Mar-2021** **Tide: Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	11:32	24.9	S	0.08	156	22.6	22.6	35.05	35.05	8.10	8.10	103.2	103.2	7.29	7.29	7.12	1.41	1.41	2.03	2.3	2.3	2.6
						0.08	164	22.6		35.05		8.10		103.2		7.29			1.40			2.2		
					M	0.11	100	22.4	22.4	35.18	35.18	8.10	8.10	98.2	98.2	6.95	6.95		1.49	1.49		2.8	2.8	
						0.11	102	22.4		35.18		8.10		98.1		6.95			1.48			2.7		
					B	0.23	86	22.3	22.3	35.21	35.21	8.11	8.11	95.3	95.3	6.75	6.76		3.12	3.20		2.8	2.9	
						0.23	93	22.3		35.21		8.11		95.3		6.76			3.27			2.9		
F1	Cloudy	Moderate	10:47	34.9	S	0.22	72	23.1	23.1	34.06	34.06	8.15	8.15	110.8	110.7	7.79	7.79	7.59	1.13	1.12	1.55	4.5	4.8	3.3
						0.23	72	23.1		34.05		8.15		110.6		7.79			1.11			5.0		
					M	0.23	52	22.8	22.8	34.15	34.15	8.14	8.14	104.6	104.5	7.39	7.39		1.56	1.57		2.9	2.9	
						0.23	53	22.8		34.15		8.14		104.4		7.38			1.57			2.8		
					B	0.25	58	22.7	22.7	34.20	34.20	8.15	8.15	101.2	101.2	7.16	7.16		1.98	1.97		2.1	2.4	
						0.27	58	22.7		34.20		8.15		101.2		7.16			1.95			2.6		
IM3	Cloudy	Calm	10:47	5	S	0.03	65	22.6	22.6	35.02	35.02	8.15	8.15	104.0	104.1	7.34	7.34	7.34	1.26	1.26	1.73	3.7	3.4	2.2
						0.03	67	22.6		35.02		8.15		104.1		7.34			1.25			3.1		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.02	173	22.5	22.5	35.06	35.06	8.19	8.20	104.2	104.2	7.36	7.36		2.23	2.20		3.8	3.3	
						0.02	173	22.5		35.06		8.20		104.1		7.35			2.17			2.7		
G3	Cloudy	Moderate	10:54	31.7	S	0.27	134	22.4	22.4	35.19	35.19	8.10	8.10	99.3	99.2	7.02	7.02	6.93	1.87	1.88	2.66	2.9	2.6	2.4
						0.27	143	22.4		35.19		8.10		99.1		7.01			1.89			2.2		
					M	0.28	138	22.4	22.4	35.24	35.24	8.10	8.10	96.7	96.7	6.84	6.84		2.84	2.85		2.8	2.5	
						0.30	138	22.4		35.24		8.10		96.7		6.84			2.85			2.2		
					B	0.26	136	22.4	22.4	35.23	35.23	8.11	8.11	96.2	96.2	6.80	6.80		3.26	3.25		2.1	2.3	
						0.27	143	22.4		35.23		8.11		96.2		6.80			3.23			2.4		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **29-Mar-2021** **Tide: Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	07:55	25	S	0.25	268	22.3	22.3	35.04	35.04	8.07	8.07	100.7	100.7	7.14	7.14	7.10	1.67	1.66	2.47	3.3	3.0	3.3
						0.27	271	22.3		35.04		8.07		100.7		7.14			1.65			2.7		
					M	0.21	294	22.4	22.4	35.10	35.10	8.07	8.07	99.6	99.6	7.05	7.05		2.21	2.23		3.4	3.6	
						0.23	309	22.4		35.09		8.07		99.5		7.05			2.25			3.7		
					B	0.13	289	22.4	22.4	35.10	35.10	8.07	8.07	98.4	98.4	6.97	6.97		3.50	3.52		3.5	3.3	
						0.14	300	22.4		35.09		8.07		98.4		6.97			3.54			3.1		
F1	Cloudy	Moderate	08:05	34.7	S	0.25	190	23.1	23.1	34.03	34.03	8.15	8.15	111.3	111.3	7.83	7.83	7.62	1.13	1.13	1.69	2.3	2.3	2.4
						0.26	202	23.1		34.03		8.15		111.3		7.83			1.13			2.3		
					M	0.22	178	22.7	22.7	34.16	34.16	8.14	8.14	104.7	104.7	7.41	7.41		1.67	1.67		2.1	2.4	
						0.24	178	22.7		34.16		8.14		104.7		7.41			1.67			2.6		
					B	0.18	141	22.7	22.7	34.20	34.20	8.14	8.14	101.3	101.3	7.17	7.17		2.25	2.26		2.6	2.5	
						0.19	144	22.7		34.20		8.14		101.3		7.17			2.27			2.4		
IM3	Cloudy	Calm	07:15	4.7	S	0.02	122	22.7	22.7	34.95	34.96	8.08	8.08	98.2	98.1	6.92	6.92	6.92	1.45	1.46	1.56	3.9	3.4	2.2
						0.02	126	22.7		34.96		8.08		97.9		6.91			1.46			2.8		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.03	108	22.4	22.4	35.00	35.00	8.07	8.07	95.1	95.1	6.74	6.74		1.67	1.67		3.1	3.2	
						0.03	110	22.4		34.99		8.07		95.0		6.73			1.66			3.2		
G3	Cloudy	Moderate	07:22	26.6	S	0.31	201	22.6	22.6	34.91	34.91	8.08	8.08	100.1	100.1	7.07	7.07	7.04	1.36	1.37	1.62	3.2	2.8	2.9
						0.33	207	22.6		34.91		8.08		100.1		7.07			1.37			2.4		
					M	0.15	189	22.5	22.5	34.95	34.96	8.08	8.08	99.2	99.1	7.02	7.02		1.53	1.56		3.2	3.0	
						0.16	202	22.5		34.96		8.08		99.0		7.01			1.58			2.8		
					B	0.11	106	22.4	22.4	34.96	34.96	8.08	8.08	97.5	97.4	6.92	6.91		1.93	1.94		3.3	2.9	
						0.12	110	22.4		34.95		8.08		97.3		6.90			1.95			2.4		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **31-Mar-2021** **Tide:** **Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Fine	Moderate	13:00	25.3	S	0.08	129	22.9	22.9	34.88	34.89	8.13	8.13	102.2	102.0	7.19	7.18	7.01	1.18	1.18	1.77	2.0	2.1	1.9
						0.08	135	22.8		34.89		8.13		101.8		7.16			1.18			2.1		
					M	0.08	90	22.6	22.6	34.99	34.99	8.15	8.15	97.2	97.0	6.85	6.84		1.69	1.75		2.1	2.1	
						0.08	97	22.6		34.99		8.15		96.8		6.83			1.80			2.1		
					B	0.12	109	22.6	22.6	35.00	35.00	8.18	8.18	96.6	96.7	6.82	6.83		2.42	2.38		1.8	1.6	
						0.13	118	22.6		34.99		8.18		96.8		6.83			2.34			1.4		
F1	Cloudy	Moderate	12:14	34.8	S	2.63	128	24.1	24.1	34.05	34.05	8.15	8.15	110.7	110.7	7.66	7.66	7.46	1.30	1.31	3.04	1.7	1.6	1.5
						2.72	139	24.1		34.05		8.15		110.7		7.66			1.31			1.5		
					M	3.26	128	23.2	23.2	34.20	34.20	8.14	8.14	103.4	103.4	7.25	7.25		2.31	2.31		1.8	1.6	
						3.27	128	23.2		34.20		8.14		103.3		7.25			2.30			1.4		
					B	3.18	127	23.1	23.1	34.20	34.20	8.15	8.15	102.0	102.1	7.17	7.18		5.70	5.51		1.2	1.3	
						3.32	127	23.1		34.20		8.15		102.2		7.18			5.32			1.4		
IM3	Fine	Moderate	12:08	4.9	S	0.11	46	23.4	23.4	34.83	34.84	8.19	8.19	106.1	106.1	7.40	7.41	7.41	1.48	1.54	1.96	3.0	2.6	1.9
						0.11	50	23.3		34.85		8.19		106.0		7.41			1.59			2.1		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.02	54	22.8	22.8	34.95	34.95	8.21	8.22	100.6	100.5	7.08	7.07		2.38	2.38		3.4	3.1	
						0.02	57	22.8		34.94		8.22		100.3		7.06			2.38			2.8		
G3	Fine	Moderate	12:18	34.9	S	0.20	141	23.0	23.0	34.88	34.89	8.10	8.10	106.0	106.0	7.43	7.43	7.16	1.19	1.20	3.35	2.0	2.1	2.4
						0.22	141	23.0		34.89		8.10		105.9		7.43			1.20			2.1		
					M	0.22	173	22.8	22.8	35.06	35.06	8.10	8.10	98.0	98.0	6.89	6.89		1.66	1.68		2.5	2.5	
						0.23	189	22.8		35.06		8.10		97.9		6.89			1.69			2.4		
					B	0.13	148	22.8	22.8	35.07	35.07	8.12	8.12	96.7	96.7	6.80	6.80		7.06	7.18		2.5	2.8	
						0.13	157	22.8		35.06		8.12		96.7		6.80			7.30			3.1		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **31-Mar-2021** **Tide:** **Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	08:38	25.5	S	0.30	278	22.8	22.8	34.85	34.85	8.09	8.09	101.5	101.4	7.15	7.15	7.08	1.57	1.56	2.11	3.4	3.1	2.7
						0.31	291	22.8		34.85		8.09		101.3		7.14			1.54			2.8		
					M	0.42	290	22.7	22.7	34.90	34.90	8.10	8.10	99.5	99.5	7.02	7.02		1.84	1.90		2.7	2.5	
						0.42	301	22.7		34.90		8.10		99.4		7.01			1.96			2.3		
					B	0.17	273	22.6	22.6	34.90	34.90	8.11	8.11	98.2	98.2	6.94	6.94		2.91	2.87		2.1	2.4	
						0.17	292	22.6		34.90		8.11		98.2		6.94			2.82			2.7		
F1	Cloudy	Moderate	09:51	34.9	S	2.67	295	23.7	23.7	34.06	34.07	8.14	8.14	109.6	109.6	7.64	7.64	7.44	1.35	1.37	2.60	1.8	1.7	2.1
						2.77	304	23.6		34.07		8.14		109.6		7.64			1.39			1.5		
					M	3.48	295	23.2	23.2	34.19	34.20	8.14	8.14	103.2	103.2	7.25	7.25		2.62	2.64		2.0	2.1	
						3.63	306	23.2		34.20		8.14		103.1		7.24			2.66			2.1		
					B	3.61	298	23.1	23.1	34.20	34.20	8.14	8.14	101.9	101.9	7.16	7.16		3.80	3.79		2.2	2.5	
						3.70	316	23.1		34.20		8.14		101.9		7.16			3.78			2.8		
IM3	Cloudy	Moderate	07:57	5	S	0.01	64	22.9	22.9	34.74	34.75	8.08	8.09	99.8	100.2	7.02	7.05	7.05	1.84	1.85	1.92	2.3	2.5	1.8
						0.01	64	22.8		34.76		8.09		100.5		7.08			1.86			2.6		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.02	113	22.8	22.8	34.77	34.77	8.08	8.08	96.8	96.8	6.82	6.82		1.99	2.00		3.4	3.0	
						0.02	120	22.8		34.76		8.08		96.7		6.81			2.00			2.5		
G3	Cloudy	Moderate	08:05	29.9	S	0.05	224	23.0	23.0	34.84	34.85	8.08	8.08	102.9	102.8	7.22	7.22	7.16	1.18	1.18	1.77	3.4	3.1	2.6
						0.05	229	23.0		34.86		8.08		102.7		7.21			1.17			2.8		
					M	0.10	92	23.0	23.0	34.92	34.92	8.08	8.08	101.4	101.3	7.11	7.11		1.20	1.21		2.3	2.7	
						0.11	94	23.0		34.92		8.08		101.2		7.10			1.22			3.1		
					B	0.19	43	22.8	22.8	35.10	35.10	8.08	8.09	97.7	97.8	6.86	6.87		2.99	2.94		1.6	1.9	
						0.19	46	22.8		35.09		8.09		97.9		6.88			2.88			2.1		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **2-Apr-2021** **Tide: Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (^{o}C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Sunny	Moderate	14:33	25.2	S	0.07	103	23.4	23.4	35.07	35.07	8.09	8.09	106.6	106.6	7.42	7.42	7.19	0.87	0.87	1.85	0.5	0.6	<0.5
						0.07	108	23.4		35.07		8.09		106.6		7.42			0.87			0.6		
					M	0.18	105	22.9	22.9	35.19	35.19	8.10	8.10	99.2	99.2	6.96	6.96		1.19	1.18		<0.5	<0.5	
						0.19	105	22.9		35.19		8.10		99.1		6.96			1.17			<0.5		
					B	0.28	99	22.7	22.7	35.27	35.27	8.12	8.12	94.2	94.2	6.63	6.63		3.52	3.49		<0.5	<0.5	
						0.29	106	22.7		35.26		8.12		94.2		6.63			3.46			<0.5		
F1	Cloudy	Moderate	13:47	34.2	S	2.63	121	25.4	25.5	33.84	33.80	8.16	8.16	114.9	114.9	7.78	7.78	7.48	1.04	1.04	3.12	<0.5	<0.5	<0.5
						2.86	124	25.5		33.75		8.15		114.9		7.77			1.04			<0.5		
					M	3.26	126	23.2	23.2	34.21	34.21	8.15	8.15	102.7	102.5	7.20	7.19		1.97	1.97		<0.5	<0.5	
						3.29	132	23.2		34.21		8.14		102.3		7.18			1.97			<0.5		
					B	3.19	131	23.1	23.2	34.23	34.23	8.16	8.16	99.6	99.7	7.00	7.00		6.33	6.34		<0.5	<0.5	
						3.27	132	23.2		34.23		8.16		99.7		7.00			6.34			<0.5		
IM3	Sunny	Moderate	13:48	5.3	S	0.02	173	23.3	23.3	35.20	35.20	8.23	8.24	100.9	100.9	7.03	7.03	7.03	1.47	1.49	1.71	1.4	1.4	0.9
						0.02	182	23.3		35.19		8.24		100.8		7.02			1.50			1.4		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.01	136	23.2	23.2	35.24	35.25	8.31	8.32	99.3	99.3	6.93	6.93		1.91	1.93		1.0	1.4	
						0.01	147	23.2		35.25		8.32		99.3		6.92			1.95			1.8		
G3	Sunny	Moderate	13:55	30.2	S	0.18	137	23.3	23.3	35.13	35.13	8.09	8.09	106.3	106.4	7.40	7.41	7.13	1.00	1.00	1.61	0.8	1.0	0.7
						0.19	145	23.3		35.12		8.09		106.4		7.41			0.99			1.2		
					M	0.24	140	22.9	22.9	35.24	35.24	8.08	8.08	97.8	97.8	6.85	6.85		1.20	1.22		0.5	0.5	
						0.25	148	22.9		35.24		8.08		97.7		6.85			1.23			0.5		
					B	0.18	159	22.8	22.8	35.29	35.29	8.10	8.10	94.3	94.4	6.63	6.63		2.59	2.62		0.8	0.7	
						0.19	168	22.8		35.29		8.10		94.4		6.63			2.65			0.6		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **2-Apr-2021** **Tide: Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	10:02	25.4	S	1.05	356	23.0	23.0	35.19	35.19	8.09	8.09	98.6	98.6	6.90	6.90	6.85	1.35	1.36	1.96	1.4	1.7	1.8
						1.12	8	23.0		35.19		8.09		98.5		6.90			1.36			2.0		
					M	3.90	15	22.8	22.8	35.24	35.24	8.09	8.09	96.9	96.9	6.81	6.81		1.72	1.72		1.6	1.8	
						4.18	16	22.8		35.24		8.09		96.8		6.80			1.72			2.0		
					B	3.91	16	22.7	22.7	35.28	35.28	8.10	8.10	95.7	95.8	6.74	6.74		2.85	2.81		1.8	2.0	
						4.13	16	22.7		35.28		8.10		95.8		6.74			2.76			2.2		
F1	Cloudy	Moderate	11:00	34.9	S	0.16	311	24.0	24.0	33.99	34.01	8.16	8.16	111.4	111.3	7.72	7.72	7.43	1.13	1.14	2.11	<0.5	<0.5	0.6
						0.17	332	23.9		34.02		8.16		111.2		7.72			1.15			<0.5		
					M	0.04	299	23.2	23.2	34.22	34.22	8.15	8.15	101.7	101.7	7.13	7.13		1.97	1.98		<0.5	<0.5	
						0.04	321	23.2		34.22		8.15		101.6		7.13			1.98			<0.5		
					B	0.09	344	23.2	23.2	34.23	34.23	8.17	8.17	99.9	99.9	7.01	7.01		3.22	3.21		0.6	0.6	
						0.10	350	23.2		34.23		8.17		99.9		7.01			3.20			0.5		
IM3	Cloudy	Moderate	09:20	4.5	S	2.67	320	23.3	23.3	35.02	35.03	8.09	8.09	101.6	101.5	7.08	7.08	7.08	1.16	1.17	1.21	0.8	1.0	0.7
						2.80	327	23.3		35.03		8.09		101.3		7.07			1.18			1.2		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	2.69	319	23.1	23.1	35.07	35.07	8.09	8.09	99.3	99.3	6.94	6.94		1.25	1.25		0.9	1.0	
						2.95	342	23.1		35.07		8.09		99.2		6.94			1.24			1.1		
G3	Cloudy	Moderate	09:29	30.7	S	3.20	198	23.3	23.3	35.01	35.01	8.11	8.11	103.2	103.2	7.20	7.20	7.14	1.07	1.09	1.20	0.6	0.8	0.9
						3.45	205	23.2		35.01		8.11		103.1		7.20			1.11			0.9		
					M	3.60	198	23.1	23.1	35.08	35.09	8.12	8.12	101.2	101.1	7.09	7.08		1.20	1.21		1.1	1.0	
						3.79	204	23.0		35.09		8.12		101.0		7.07			1.21			0.8		
					B	3.72	196	23.0	23.0	35.10	35.10	8.12	8.12	99.6	99.6	6.97	6.97		1.31	1.31		1.2	1.1	
						3.78	203	23.0		35.09		8.12		99.5		6.97			1.30			1.0		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **4-Apr-2021** **Tide: Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (^{o}C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Rainy	Rough	17:41	25.2	S	1.40	48	23.2	23.2	34.95	34.95	8.06	8.06	101.0	101.0	7.06	7.06	7.00	0.90	0.91	1.57	0.8	1.0	1.2
						1.51	49	23.2		34.95		8.06		101.0		7.06			0.92			1.2		
					M	2.52	51	23.2	23.2	34.95	34.95	8.05	8.05	99.4	99.3	6.94	6.94		0.99	0.98		1.4	1.3	
						2.55	52	23.2		34.95		8.05		99.1		6.93			0.97			1.2		
					B	2.35	49	22.8	22.8	35.09	35.09	8.03	8.03	91.8	91.9	6.46	6.47		2.82	2.81		1.2	1.4	
						2.55	53	22.8		35.08		8.03		92.0		6.47			2.79			1.6		
F1	Fine	Rough	16:59	34.4	S	0.32	218	23.3	23.3	33.83	33.83	8.13	8.13	108.8	108.8	7.64	7.64	7.45	1.34	1.34	1.63	1.0	0.9	1.0
						0.34	221	23.3		33.83		8.13		108.8		7.64			1.34			0.8		
					M	0.11	249	23.0	23.0	33.96	33.96	8.12	8.12	103.1	103.1	7.27	7.27		1.63	1.65		1.2	1.1	
						0.12	273	23.0		33.96		8.12		103.0		7.26			1.66			0.9		
					B	0.12	25	23.0	23.0	34.00	34.00	8.11	8.11	101.3	101.3	7.15	7.15		1.91	1.91		1.0	1.1	
						0.13	25	23.0		34.00		8.11		101.2		7.14			1.91			1.1		
IM3	Rainy	Rough	17:58	5.2	S	0.04	348	23.0	23.0	35.02	35.03	8.11	8.11	94.6	94.6	6.64	6.63	6.63	1.91	1.93	1.91	2.3	2.2	1.3
						0.04	359	23.0		35.03		8.11		94.5		6.62			1.94			2.1		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.03	210	22.9	22.9	35.03	35.03	8.13	8.13	94.1	94.1	6.60	6.61		1.88	1.89		1.4	1.7	
						0.03	222	22.9		35.03		8.13		94.1		6.61			1.90			2.0		
G3	Rainy	Rough	17:05	33.8	S	1.26	78	23.1	23.1	35.03	35.04	8.06	8.06	97.8	97.6	6.84	6.83	6.63	1.15	1.15	1.43	<0.5	<0.5	0.7
						1.27	84	23.1		35.04		8.06		97.4		6.82			1.15			<0.5		
					M	2.53	70	22.8	22.8	35.14	35.15	8.05	8.05	91.6	91.6	6.44	6.44		1.48	1.48		<0.5	<0.5	
						2.69	70	22.8		35.15		8.04		91.5		6.43			1.48			<0.5		
					B	2.19	66	22.7	22.7	35.16	35.16	8.04	8.04	91.0	91.1	6.41	6.41		1.67	1.66		0.6	0.7	
						2.23	72	22.7		35.16		8.04		91.1		6.41			1.64			0.7		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **4-Apr-2021** **Tide: Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	06:20	25.6	S	0.86	354	23.4	23.4	34.74	34.76	8.05	8.05	102.5	102.5	7.15	7.15	6.83	0.96	0.97	1.27	0.8	0.7	0.8
						0.86	9	23.4		34.77		8.05		102.4		7.15			0.97			0.6		
					M	2.81	14	22.8	22.8	35.04	35.04	8.03	8.03	92.7	92.6	6.52	6.51		1.39	1.40		1.0	0.8	
						2.84	14	22.8		35.04		8.03		92.4		6.50			1.41			0.6		
					B	2.70	13	22.8	22.8	35.03	35.03	8.03	8.03	92.9	93.1	6.54	6.55		1.47	1.44		1.1	0.9	
						2.87	14	22.8		35.02		8.03		93.3		6.56			1.41			0.7		
F1	Cloudy	Rough	07:10	34.3	S	0.08	159	23.4	23.4	33.84	33.84	8.15	8.15	112.0	112.0	7.84	7.84	7.60	1.14	1.14	1.98	0.8	0.9	0.9
						0.08	167	23.4		33.84		8.15		112.0		7.84			1.14			1.0		
					M	0.33	32	23.1	23.1	33.96	33.96	8.13	8.13	104.5	104.4	7.36	7.36		1.41	1.40		0.6	0.8	
						0.35	33	23.1		33.96		8.13		104.3		7.35			1.39			1.0		
					B	0.50	45	22.8	22.9	34.06	34.06	8.14	8.14	101.7	101.8	7.19	7.20		3.49	3.40		0.9	1.0	
						0.51	49	22.9		34.05		8.14		101.9		7.20			3.31			1.0		
IM3	Cloudy	Moderate	05:38	5.3	S	2.29	17	23.5	23.5	34.71	34.71	8.09	8.09	103.3	103.2	7.19	7.18	7.18	1.14	1.15	1.14	0.8	0.7	0.4
						2.39	17	23.5		34.71		8.09		103.1		7.17			1.15			0.5		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	2.43	24	23.6	23.7	34.69	34.66	8.08	8.08	102.0	101.9	7.09	7.08		1.16	1.13		0.5	0.6	
						2.58	25	23.7		34.62		8.08		101.7		7.06			1.10			0.7		
G3	Cloudy	Rough	05:46	33.6	S	1.43	9	23.5	23.5	34.70	34.71	8.08	8.08	104.5	104.4	7.27	7.27	7.22	0.99	1.00	1.10	1.0	1.3	1.1
						1.52	9	23.5		34.71		8.08		104.3		7.26			1.01			1.5		
					M	2.94	10	23.5	23.5	34.75	34.75	8.08	8.08	103.1	103.0	7.18	7.17		1.13	1.13		1.0	1.0	
						3.00	10	23.5		34.75		8.08		102.9		7.16			1.13			0.9		
					B	2.95	6	23.5	23.5	34.76	34.76	8.07	8.07	101.4	101.3	7.06	7.06		1.16	1.17		1.2	1.1	
						2.97	6	23.5		34.75		8.07		101.2		7.05			1.17			0.9		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **6-Apr-2021** **Tide:** **Mid-Ebb**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (^{o}C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	19:50	25.4	S	0.32	265	23.5	23.5	35.12	35.12	8.11	8.11	102.0	102.0	7.09	7.09	6.98	0.86	0.87	1.60	1.9	1.7	1.4
						0.35	269	23.5		35.12		8.11		102.0		7.08			0.87			1.5		
					M	0.18	257	23.2	23.2	35.18	35.18	8.10	8.10	98.6	98.6	6.88	6.88		1.07	1.07		1.1	1.3	
						0.20	257	23.2		35.18		8.10		98.5		6.88			1.06			1.5		
					B	0.10	307	23.2	23.2	35.18	35.18	8.10	8.10	96.7	96.8	6.75	6.76		2.91	2.86		0.9	1.1	
						0.11	322	23.2		35.18		8.10		96.9		6.76			2.80			1.2		
F1	Cloudy	Rough	19:10	34.7	S	0.51	266	23.3	23.3	35.08	35.09	8.08	8.08	100.3	100.3	7.00	7.00	7.00	0.91	0.92	0.82	1.6	1.9	1.6
						0.56	291	23.3		35.09		8.08		100.3		7.00			0.92			2.1		
					M	0.14	271	23.3	23.3	35.10	35.10	8.08	8.08	100.3	100.3	6.99	7.00		0.82	0.82		1.9	1.6	
						0.15	290	23.3		35.10		8.08		100.3		7.00			0.82			1.2		
					B	0.12	321	23.3	23.3	35.12	35.12	8.07	8.07	100.1	100.1	6.98	6.98		0.73	0.74		1.0	1.4	
						0.13	326	23.3		35.12		8.07		100.1		6.98			0.74			1.8		
IM3	Cloudy	Moderate	20:37	4.9	S	0.10	142	23.3	23.3	35.05	35.06	8.17	8.18	100.3	100.3	7.00	7.00	7.00	1.25	1.28	1.51	3.0	2.7	1.5
						0.11	149	23.3		35.07		8.18		100.3		6.99			1.31			2.4		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.05	195	23.3	23.3	35.18	35.18	8.23	8.24	100.3	100.3	6.99	6.99		1.75	1.73		2.1	1.9	
						0.05	204	23.3		35.17		8.24		100.3		6.99			1.71			1.7		
G3	Cloudy	Moderate	20:27	29.3	S	0.07	263	23.4	23.4	35.05	35.06	8.11	8.11	100.9	100.9	7.02	7.03	7.01	1.14	1.15	1.44	2.2	2.2	1.8
						0.07	270	23.4		35.06		8.11		100.9		7.03			1.15			2.2		
					M	0.08	112	23.3	23.3	35.14	35.14	8.12	8.13	100.4	100.4	7.00	7.00		1.17	1.18		1.7	1.5	
						0.09	121	23.3		35.14		8.13		100.3		7.00			1.19			1.3		
					B	0.12	146	23.3	23.3	35.19	35.19	8.14	8.14	99.5	99.4	6.93	6.93		1.99	1.98		1.7	1.8	
						0.13	147	23.3		35.19		8.14		99.3		6.92			1.97			1.8		

Remark: * DA: Depth-Averaged

***** S: 1 m below the sea surface; M: mid-depth; S: 1 m above the seabed**

Water Quality Monitoring Data Log Sheet **6-Apr-2021** **Tide:** **Mid-Flood**

Monitoring Station	Weather Condition	Sea Condition**	Sampling Time	Water Depth (m)	Depth Level ***	Current Velocity (m/s)	CurrentDirection	Temperature (°C)		Salinity (ppt)		pH		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)		
								Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
E1	Cloudy	Moderate	08:48	24.6	S	0.27	240	23.2	23.2	35.25	35.25	8.07	8.07	97.5	97.5	6.80	6.80	6.79	1.35	1.36	1.90	1.4	1.7	2.2
						0.27	257	23.2		35.25		8.07		97.5		6.80			1.37			2.0		
					M	0.05	240	23.2	23.2	35.25	35.25	8.06	8.06	97.1	97.1	6.77	6.77		1.60	1.65		1.9	2.4	
						0.05	262	23.2		35.25		8.05		97.1		6.77			1.70			2.8		
					B	0.14	74	23.2	23.2	35.23	35.23	8.04	8.04	96.7	96.7	6.74	6.74		2.61	2.70		2.6	2.7	
						0.15	77	23.2		35.23		8.04		96.7		6.74			2.78			2.7		
F1	Cloudy	Rough	09:19	35.1	S	0.26	267	23.2	23.2	35.20	35.20	8.09	8.09	97.8	97.8	6.82	6.82	6.80	0.75	0.76	1.03	3.0	3.3	3.0
						0.28	273	23.2		35.20		8.09		97.8		6.82			0.76			3.6		
					M	0.07	324	23.2	23.2	35.19	35.19	8.07	8.07	97.0	97.0	6.77	6.77		0.84	0.84		3.4	3.2	
						0.07	347	23.2		35.19		8.07		96.9		6.77			0.83			3.0		
					B	0.13	50	23.1	23.1	35.17	35.17	8.05	8.05	95.4	95.4	6.67	6.67		1.49	1.51		2.1	2.6	
						0.13	53	23.1		35.17		8.05		95.4		6.67			1.53			3.0		
IM3	Cloudy	Moderate	09:36	4.8	S	0.05	279	23.2	23.2	35.29	35.29	8.05	8.05	96.0	96.0	6.69	6.69	6.69	1.14	1.14	1.13	2.1	1.9	1.1
						0.05	294	23.2		35.29		8.05		96.0		6.69			1.14			1.7		
					M	0.00	0		-		-		-		-		-			-		0.0	0.0	
						0.00	0															0.0		
					B	0.06	283	23.2	23.2	35.28	35.28	8.03	8.03	95.8	95.8	6.68	6.68		1.11	1.12		0.9	1.3	
						0.06	306	23.2		35.28		8.03		95.8		6.68			1.13			1.6		
G3	Cloudy	Moderate	09:25	28.8	S	0.32	222	23.2	23.2	35.24	35.24	8.07	8.07	97.7	97.7	6.81	6.81	6.78	0.98	0.99	1.43	2.1	1.9	1.5
						0.33	224	23.2		35.24		8.07		97.7		6.81			0.99			1.7		
					M	0.27	173	23.2	23.2	35.27	35.27	8.06	8.06	96.8	96.8	6.75	6.75		1.22	1.22		1.2	1.4	
						0.27	189	23.2		35.27		8.06		96.8		6.75			1.22			1.5		
					B	0.27	134	23.2	23.2	35.26	35.26	8.05	8.05	96.2	96.2	6.70	6.70		2.07	2.09		1.2	1.4	
						0.27	144	23.2		35.26		8.05		96.2		6.70			2.10			1.5		

Remark: * DA: Depth-Averaged

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