OPTIC MARINE SINGAPORE PTE, LTD

South East Asia – Japan 2 Cable System - Hong Kong Segment (SJC2-HK) - Chung Hom Kok

Monthly EM&A Report For April 2021

[05/2021]

	Name	Signature
Prepared & Checked:	Alex Chan	Ala .
Reviewed & Certified:	Lemon Lam	one

Version:	Rev. 0	Date:	14 May 2021	

Disclaimer

The information contained in this report is, to the best of our knowledge, correct at the time of printing. The interpretation and recommendations in the report are based on our experience, using reasonable professional skill and judgment, and based upon the information that was available to us. These interpretations and recommendations are not necessarily relevant to any aspect outside the restricted requirements of our brief. This report has been prepared for the sole and specific use of our client and AECOM Environment accepts no responsibility for its use by others.

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local people global experience

Our Ref: 7076596/L27426/AB/TSC/JC/lc

14 May 2021

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By Email Only

(david.lim@opticmarine.com)

Attention: Mr. David LIM

Dear Sir

South East Asia – Japan 2 Cable System – Hong Kong Segment (SJC2-HK) – Chung Hom Kok Verification of Monthly EM&A Report for April 2021

Reference is made to the *Monthly EM&A Report for April 2021 (Rev. 0)* dated 14 May 2021, submitted by the Environmental Team via e-mail on 14 May 2021.

We hereby verify the said Monthly EM&A Report has complied with the requirement as set out under Condition 3.3 of the Environmental Permit.

Thank you very much for your kind attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully

US S

Cindy CHUNG

Independent Environmental Checker

cc: AECOM Ms. Lemon LAM (By Email: lemon.lam@aecom.com)

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EXECUTIVE SUMMARY

The impact EM&A programme for the Project commenced on 21 April 2021. The impact environmental monitoring included water quality monitoring and marine mammal observations.

This report documents the findings of EM&A works conducted in the period from 21 to 28 April 2021.

Breaches of Action and Limit Levels for Water Quality Monitoring

11 Action Level exceedances recorded in the reporting period, in which 10 exceedances related to dissolved oxygen and 1 exceedance related to suspended solid. After investigations, all recorded Action Level exceedances were considered non-project related.

21 Limit Level exceedances recorded in the reporting period, in which 11 exceedances related to dissolved oxygen, 3 exceedances related to turbidity and 7 exceedances related to suspended solid. After investigations, all recorded Limit Level exceedances were considered non-project related.

Marine Mammal Observation

No cetacean was observed in the exclusion zone for 30 minutes before and during the cable laying works in the reporting period.

Complaint, Notification of Summons and Successful Prosecution

2 noise complaints were received by EPD on 12 and 13 April 2021. Complaint investigations were conducted for the received complaints. After investigations, the received noise complaints were considered not due to the Project. The complaint investigations were sent to the EPD on 12 and 16 April 2021.

No notification of summons and successful prosecution was received in the reporting period.

1 INTRODUCTION

1.1 Background

- 1.1.1 The South-East Asia Japan Cable System (SJC) is a submarine telecommunications cable connecting Japan, China, Hong Kong, the Philippines, Brunei, Thailand, Singapore and Indonesia, which was completed in 2013. Construction of the second South East Asia Japan Cable System (SJC2) is proposed and this Project comprises the Hong Kong Segment of SJC2. The indicative alignment of the whole SJC2 cable is shown in **Figure 1.1**.
- 1.1.2 Buried below the seabed, the SJC2-HK Cable enters the eastern waters of Hong Kong, follows the established "east-west cable corridor (south)" and lands at an existing Beach Manhole (BMH) at Sha Shek Tan Beach (SST Beach) on the Chung Hom Kok (CHK) peninsula, which is at the south side of Hong Kong Island. This is the same landing location of the existing SJC Cable and other cables, including City-to-City Cable System ("C2C") and the East Asia Crossing + C2C cable system ("EAC-C2C").
- 1.1.3 CHK is an important telecommunications and media hub in Hong Kong. There are currently teleport substations, GB21 Cable Station Chung Hom Kok Teleport Substation and Smartone Station Chung Hom Kok Teleport Substation, located at CHK. It is anticipated that this area further developed to cater for more telecommunication infrastructure in the future.
- 1.1.4 A Project Profile was prepared to assess potential environmental impacts associated with the installation of the submarine telecommunications cable system within Hong Kong. The Project Profile was submitted to the Environmental Protection Department (EPD) under section 5(1)(b) and 5(11) of the Environmental Impact Assessment Ordinance (EIAO) for application for permission to apply directly for an Environmental Permit (EP) (Application No.: DIR -269/2019). Permission granted by EPD via an approval letter dated 21 January 2020 (Ref. EP2/H19/C/09) and the Environmental Permit (EP-572/2020) issued by the EPD on 4 March 2020.
- 1.1.5 The Project Profile recommended carrying out precautionary water quality monitoring to ensure no adverse impacts to the water quality, marine ecology and fisheries.
- 1.1.6 The impact EM&A programme for the Project commenced on 21 April 2021. The impact environmental monitoring included water quality monitoring and marine mammal observations.

1.2 Scope of Report

1.2.1 This is the monthly Environmental Monitoring and Audit (EM&A) Report and this report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures of the Project in April 2021.

1.3 Project Organization

1.3.1 The project organization is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position Name		Telephone	Fax	
IEC	Independent				
(SMEC Asia Limited)	Environmental Checker	Cindy Chung	3995 8124	3995 8101	
Contractor			+603 5569 3881		
(OPTIC MARINE GROUP)	OSP Manager	Vincent Chia	/ +6012 670 6588		
ET	ET London	l aman l am	2022 2024	2274 7000	
(AECOM)	ET Leader	Lemon Lam	3922 3981	2371 7609	

1.4 Summary of Construction Works

- 1.4.1 Details of the construction works carried out by the Contractor in this reporting period are listed below:
 - Mobilization and preparation
 - Set up injector & Conduct Route Clearance
 - Preparation of cable landing work
 - Cable Landing at Chung Hom Kok
 - Commence lay and bury cable with Injector
 - Uraduct installation for pipeline crossing
 - Cable end cap seal and stream off
- 1.4.2 The EM&A programme required environmental monitoring for water quality monitoring and marine mammal observations. The EM&A requirements for each parameter described in the following sections include:
 - All monitoring parameters;
 - Monitoring schedules for the reporting period;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plan;
 - Environmental mitigation measures, as recommended in the Project Profile; and
 - Environmental requirement in contract documents.

2 WATER QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the Project Profile, the impact water quality monitoring shall be conducted three times each week and the interval between any two sets of monitoring shall not be less than 36 hours. For each set, monitoring should undertake within a 4 hours window of 2 hours before and 2 hours after mid-flood and mid-ebb tides.

2.2 Monitoring Equipment

2.2.1 The brand and model of water quality monitoring equipment is given in **Table 2.1**.

Table 2.1 Water Quality Monitoring Equipment

Equipment	Brand and Model
Dissolved Oxygen Meter	V(01 0000 V(0
Water Temperature Meter	YSI 6820 V2
Salinity Meter	
Water Sampler	Kahlsico Water Sampler
Echo Sounder	Lowrance x-4
Global Positioning System	Garmin GPS72H
Air Velocity Meter	TSI 9555-P

2.3 Monitoring Locations

2.3.1 In accordance with the Project Profile, the stations for impact water quality monitoring are presented in **Table 2.2** and shown in **Figure 2.1**.

Table 2.2 Locations of Impact Water Quality Monitoring Stations

Type of Station	Station	Location	Easting	Northing	Closest Distance from Cable Alignment (m)
	B2	St. Stephen's Bay Beach	839 902	808 259	580
Water Quality	C2	Coral Communities along Southwest Coat of Chung Hom Kok	838 882	807 959	920
Monitoring Station	C4/F1	Coral Communities along the Coast of Po Toi & Po Toi FCZ	843 536	801 809	C4: 1,020 F1: 1,420
	F2	Fish Spawning Grounds	838 774	807 362	0
G1		Gradient Station	839 695	808 291	200
Control Station	CS1	Control Station	837 879	801 901	3000

- 2.3.2 In accordance with F.4.17 of the Project Profile, due to the length of the cable in Hong Kong waters, the impact monitoring stations were divided into two zones to effectively and efficiently monitor the water quality, as shown in **Figure 2.1**.
 - Zone A. Monitoring at stations B2, C2, F2, G1 and CS1 was conducted when the cable laying work area within the boundary of Zone A.
 - Zone B. Monitoring at stations CS1 and C4/F1 was conducted when the cable laying work area within the boundary of Zone B.

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 The monitoring parameters, frequency and duration of water quality monitoring are summarized in **Table 2.3**.

Table 2.3 Water Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
Turbidity, Suspended Solids, Dissolved Oxygen, Salinity and Temperature	Three times each week, at mid-flood and mid-ebb tides

2.5 Monitoring Methodology

- 2.5.1 The water quality monitoring procedures are presented in the following:
 - All monitoring equipment were checked and calibrated before use. Responses of sensors and electrodes were also checked with certified standard solutions before each use.
 - For each set, monitoring was undertaken within a 4 hours window of 2 hours before and 2 hours after mid-flood and mid-ebb tides.
 - The interval between 2 sets of monitoring was not less than 36 hours.
 - Duplicate in-situ measurements and water sampling were carried out in each sampling event.
 - Measurements were taken at 3 water depths, namely, 1m below water surface, mid-depth and 1m above seabed, except where the water depth less than 6m, the mid-depth station may be omitted. Should the water depth be less than 3m, only the mid-depth station was monitored.
 - Analysis of suspended solids was carried out by ALS Technichem (HK) Pty Ltd. Sufficient water samples were collected at the monitoring stations for carrying out the laboratory analysis. The analysis followed the standard methods as described in APHA Standard Methods for the Examination of Water and Wastewater, 19th Edition (APHA 2540D for SS).
 - Water samples for suspended solids 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.
 - All monitoring equipment were certified by a laboratory accredited under HOKLAS. Calibration certificates of all monitoring equipment are provided in **Appendix B**.

2.6 Monitoring Schedule for the Reporting Period

2.6.1 The schedule for environmental monitoring in April 2021 is provided in **Appendix C**.

2.7 Action/Limit Levels

2.7.1 A baseline water quality monitoring for 6 locations were carried out 3 days per week for 4 weeks between 27 February 2021 and 25 March 2021. Action and Limit Levels for water quality were established and summarized in **Table 2.4** and **Appendix F**.

2.8 Results and Observations

- 2.8.1 The water quality monitoring was conducted on 22, 24 and 27 April 2021.
- 2.8.2 In accordance with F.4.17 of the Project Profile, due to the length of the cable in Hong Kong waters, the impact monitoring stations were divided into two zones (Zone A and Zone B) to effectively and efficiently monitor the water quality.
- 2.8.3 The monitoring works were conducted within Zone A on 22 April 2021 and conducted within Zone B on 24 and 27 April 2021.
- 2.8.4 The monitoring results are summarized in **Table 2.4**. Detailed water quality monitoring data and laboratory results are presented in **Appendix D** and **Appendix E** respectively.
- 2.8.5 The event and action plan is presented in **Appendix G.**

Table 2.4 Summary of Water Quality Monitoring Results in the Reporting Period

Monitoring Locations		Dissolved Oxygen (mg/L)		Turbidity (NTU)	Suspended Solids (mg/L)	
Zone	Zone		Result (Surface & Middle)	Result (Bottom)	Result	Result
011		Avg.	7.33	7.25	2.62	3.08
Control Station	CS1	Min.	7.14	7.13	2.22	2.25
Gtation		Max.	7.52	7.37	3.22	4.92
		Avg.	7.30	7.20	2.75	2.72
Zone B	C4/F1	Min.	7.18	7.13	2.65	2.55
		Max.	7.42	7.27	2.80	2.88
		Avg.	7.42	7.35	2.72	3.50
	F2	Min.	7.17	7.12	2.02	2.67
		Max.	7.67	7.57	3.42	4.33
		Avg.	7.28	7.20	3.18	4.17
	C2	Min.	7.26	7.17	3.10	4.12
Zone A		Max.	7.30	7.23	3.27	4.22
Zone A		Avg.	7.30	7.25	3.27	4.44
	G1	Min.	7.29	7.24	3.20	4.27
		Max.	7.31	7.26	3.33	4.62
	B2	Avg.	7.34	7.30	2.90	4.56
		Min.	7.34	7.29	2.75	4.08
		Max.	7.35	7.31	3.05	5.03
Acti	on Level		7.40	7.34	3.43 ^{*1}	2.85 ^{*1}
Lim	nit Level		7.33	7.20	3.70*2	3.39*2

^{*1} According with the Project Profile, the Action Level shall be derived as 95th percentile of baseline date, which listed on the Table 2.4, or 20% exceedance of value at any impact station with the control station.

^{*2} According with the Project Profile, the Limit Level shall be derived as 99th percentile of baseline date, which listed on the Table 2.4, or 30% exceedance of value at any impact station with the control station.

- 2.8.6 11 Action Level exceedances recorded in the reporting period, in which 10 exceedances related to dissolved oxygen and 1 exceedance related to suspended solid. After investigations, all recorded Action Level exceedances were considered non-project related.
- 2.8.7 21 Limit Level exceedances recorded in the reporting period, in which 11 exceedances related to dissolved oxygen, 3 exceedances related to turbidity and 7 exceedances related to suspended solid. After investigations, all recorded Limit Level exceedances were considered non-project related.
- 2.8.8 3 Action Level exceedances related to dissolved oxygen, 5 Limit Level exceedances related to dissolved oxygen and 4 Limit Level exceedances related to suspended solid were recorded at midebb tide on 22 April 202. With reviewing the dissolved oxygen levels and suspended solid level at control station at the same tide, the dissolved oxygen levels and suspended solid level at control station were both exceeded Limit Levels, the exceedances considered due to the local factor. Therefore, the exceedances were considered not due to the Project.
- 2.8.9 4 Action Level exceedances related to dissolved oxygen, 2 Limit Level exceedances related to dissolved oxygen, 3 Limit Level exceedances related to turbidity and 3 Limit Level exceedances related to suspended solid were recorded at mid-flood tide on 22 April 2021. The water quality monitoring was conducted from 8 am to 10 am. According to the information from the Contractor, there was no cable laying and burial work was conducted during the water quality monitoring. Therefore, the exceedances were considered not due to the Project.
- 2.8.10 2 Action Level exceedances related to dissolved oxygen were recorded at mid-ebb tide on 24 April 2021. The measured dissolved oxygen level at the surface & middle layers and the bottom layer was 7.34 mg/L and 7.27 mg/L. After reviewing the baseline data at the same monitoring station(C4/F1), 7.31 mg/L and 7.28 mg/L were recorded at the surface & middle layers and bottom layers respectively, the exceeded dissolved oxygen levels were very close to the baseline data recorded. The measured water quality was closed to the baseline condition, the exceedances were considered not due to the Project.
- 2.8.11 1 Action Level exceedance related to dissolved oxygen and 1 Action Level exceedance related to suspended solid were recorded at mid-flood tide on 24 April 2021. The water quality monitoring was conducted from 4 pm to 5 pm. According to the information from the Contractor, the construction works were stopped since 4 pm due the bad weather, no cable laying work was expected during the water quality monitoring. Therefore, the exceedances were considered not due to the Project.
- 2.8.12 2 Limit Level exceedances related to dissolved oxygen were recorded at mid-ebb tide and 2 Limit Level exceedances related to dissolved oxygen were recorded at mid-flood tide on 27 April 2021. With reviewing the dissolved oxygen levels at control station at mid-ebb and mid-flood tides, the dissolved oxygen levels at control station of each tides were lower than Limit Levels, the low dissolved oxygen levels considered due to the local factor. Therefore, the exceedances were considered not due to the Project.
- 2.8.13 Proper mitigation measures on water quality (e.g. maximum speed of the Cable Burial Tool shall be limited) have been provided to reduce adverse impacts on water quality during construction activities. The effective implementation of mitigation measures ensured the compliance with action and limit levels of water quality during the reporting period.

3 MARINE MAMMAL OBSERVATION

3.1 Monitoring Requirements

3.1.1 In accordance with the Project Profile, marine mammal observations shall be conducted each day during the cable laying works in day-time hours along the section starting within the boundary of HKSAR waters.

3.2 Monitoring Equipment

3.2.1 Table 3.1 summarizes the equipment used for the marine mammal observation.

Table 3.1 Marine Mammal Observation Equipment

Equipment	Brand and Model
Binocular	Bushnell 8x32
Camera	Sony RX10 III 24-600mm
Global Positioning System	Garmin GPS MAP 64S

3.3 Monitoring Locations and Frequency

3.3.1 In accordance with the Project Profile, a marine mammal exclusion zone within a radius of 250m from the cable laying works was set up. The mammal observations were performed before 30 minutes and during the cable laying works in day-time hours along the section starting from southern end of Zone A up to the boundary of HKSAR waters, as shown in **Figure 2.1**.

3.4 Results and Observations

- 3.4.1 Marine mammal observations were conducted on 21 to 28 April 2021.
- 3.4.2 The weathers during the observation days were mainly sunny with good visibility. Sea conditions were mainly at a Beaufort Sea State of 2 to 5
- 3.4.3 No cetacean was observed in the exclusion zone for 30 minutes before and during the cable laying works on 21 to 28 April 2021.

4 ENVIRONMENTAL COMPLAINT, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

4.1 Environmental Complaint

- 4.1.1 1 noise complaint was received by the EPD on 12 April 2021. The complaint was about noise and strong lighting from working barge/vessels at Chung Hom Kok till midnight on 8 April 2021. After investigation, the cable installation work for SJC2-HK did not start on 8 April 2021. Therefore, the complaint was not due to the works relating to the Project. The environmental investigation was sent to the EPD on 12 April 2021.
- 4.1.2 1 noise complaint was received by the EPD on 13 April 2021. The complaint was about noise generated from marine works at the sea area near Regalia Bay (No. 88 of Wong Ma Kok Road) from 1300-1800 on 11 April 2021 (Sunday). After investigation, there was no construction work was conducted under the Project on 11 April 2021. Therefore, the complaint was not due to the works relating to the Project. The environmental investigation was sent to the EPD on 16 April 2021.

4.2 Notification of Summons and Successful Prosecution

4.2.1 No notification of summons and successful prosecution was received in the reporting period.

5 CONCLUSIONS AND RECOMMENDATIONS

- 5.1.1 11 Action Level exceedances recorded in the reporting period, in which 10 exceedances related to dissolved oxygen and 1 exceedance related to suspended solid. After investigations, all recorded Action Level exceedances were considered non-project related.
- 5.1.2 21 Limit Level exceedances recorded in the reporting period, in which 11 exceedances related to dissolved oxygen, 3 exceedances related to turbidity and 7 exceedances related to suspended solid. After investigations, all recorded Limit Level exceedances were considered non-project related.
- 5.1.3 No cetacean was observed in the exclusion zone for 30 minutes before and during the cable laying works in the reporting period.
- 5.1.4 2 noise complaints were received by EPD on 12 and 13 April 2021. Complaint investigations were conducted for the received complaints. After investigations, the received noise complaints were considered not due to the Project. The complaint investigations were sent to the EPD on 12 and 16 April 2021.
- 5.1.5 No notification of summons and successful prosecution was received in the reporting period.

FIGURES

- Hong Kong Segment (SJC2-HK) Chung Hom Kok

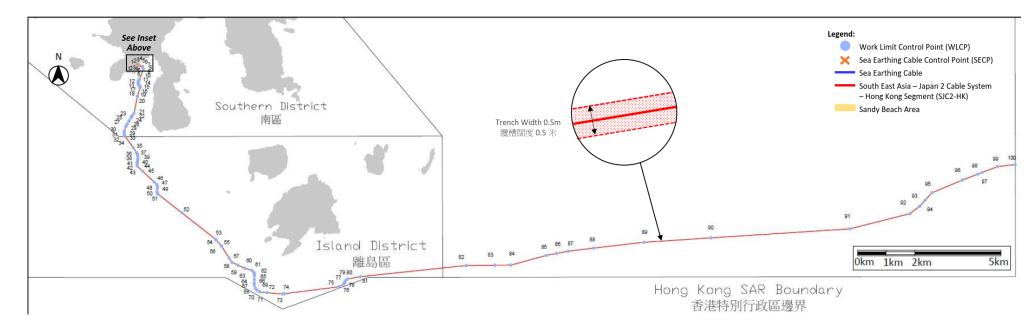


Figure 1.1 Alignment of SJC2-HK Cable System within Hong Kong (Source: Figure 1.3 of the Project Profile)

- Hong Kong Segment (SJC2-HK) Chung Hom Kok

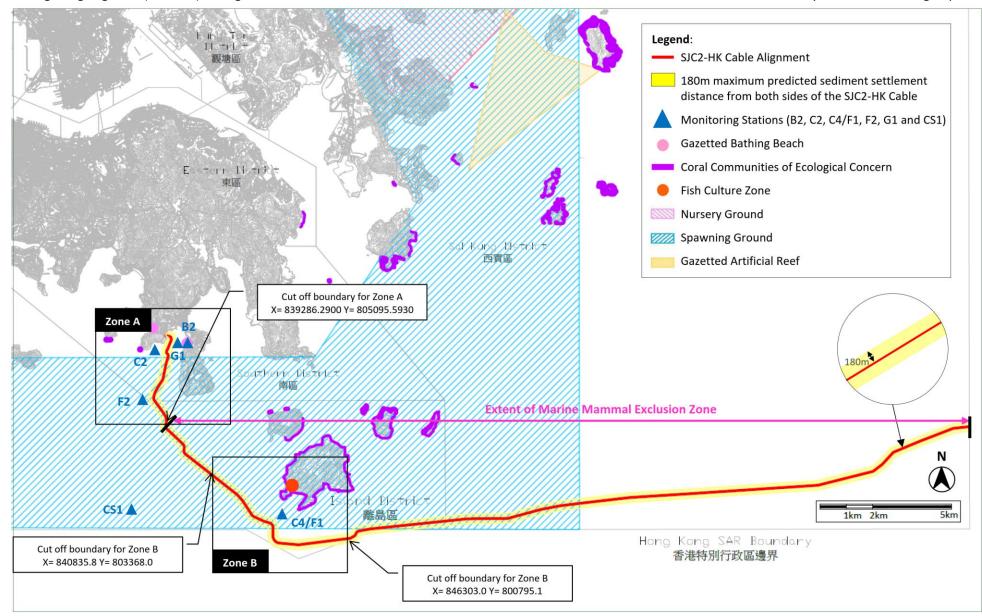
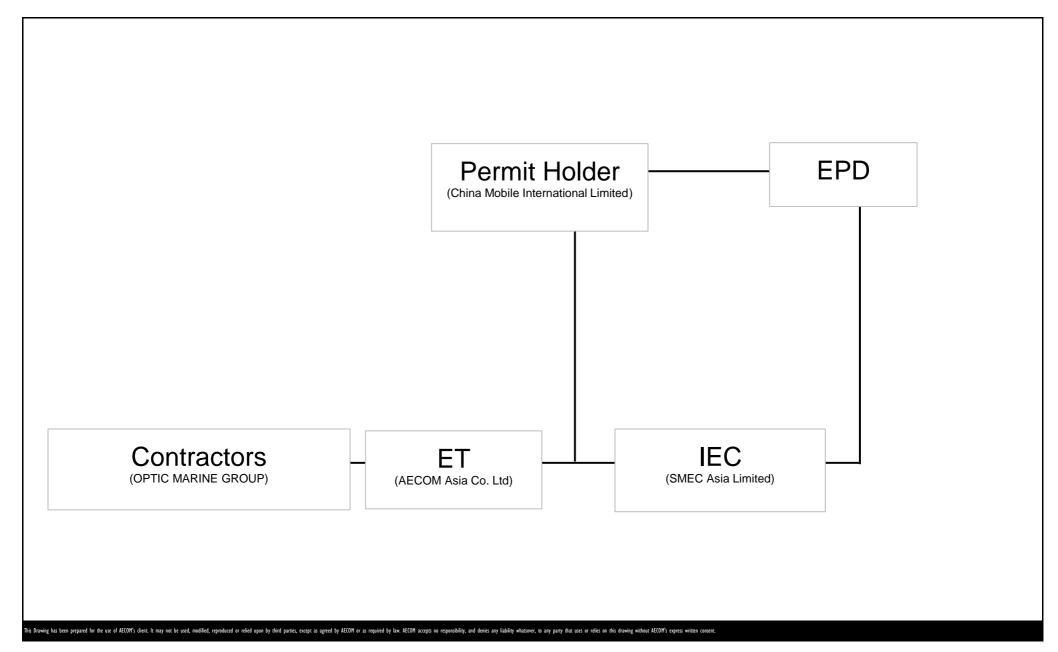


Figure 2.1 Locations of Water Quality Monitoring Station (Source: Figure F.1 of the Project profile)

APPENDIX A PROJECT ORGANIZATION STRUCTURE



AECOM

APPENDIX B
CALIBRATION CERTIFICATES OF
MONITORING EQUIPMENT



ALS Technichem (HK) Pty Ltd

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T: +852 2610 1044 | F: +852 2610 2021

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR MIKE SHEK

CLIENT:

AECOM ASIA COMPANY LIMITED

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138 SHATIN RURAL COMMITTEE ROAD,

SHATIN, HONG KONG

WORK ORDER:

HK2114769

SUB- BATCH:

0

LABORATORY:

HONG KONG

DATE RECEIVED: DATE OF ISSUE: 15- Apr- 2021 19- Apr- 2021

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

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

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

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

Equipment Type:

Multifunctional Meter

Service Nature:

Performance Check

Scope:

Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.:

[YSI]/ [6820 V2]

Serial No./ Equipment No.:

[00H1019]/ [W.026.09]

Date of Calibration:

15- April- 2021

GENERAL COMMENTS

This is the Final Report and supersedes any preliminary report with this batch number.

Mr Chan Siu Ming, Vico Manager - Inorganic

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2114769

SUB- BATCH:

0

DATE OF ISSUE:

19- Apr- 2021

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [6820 V2]

Serial No./

[00H1019]/ [W.026.09]

Equipment No.: Date of Calibration:

15- April- 2021

Date of Next Calibration:

15- July- 2021

PARAMETERS:

Conductivity

Method Ref: APHA (21st edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	
146.9	145.0	- 1.3	
6667	6657	- 0.1	
12890	12949	+ 0.5	
58670	57984	- 1.2	
500.0	Tolerance Limit (%)	±10.0	

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.80	2.86	+0.06
5.25	5.20	- 0.05
7.65	7.68	+0.03
1.00	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (21st edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.06	+0.06
7.0	6.99	- 0.01
10.0	10.00	+0.00
, 0.0	Tolerance Limit (pH unit)	±0.20

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

Mr Chan Siu Ming, Vico Manager - Inorganic

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2114769

SUB- BATCH:

0

DATE OF ISSUE:

19- Apr- 2021

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[YSI]/ [6820 V2]

Model No.: Serial No./

Equipment No.: Date of Calibration: [00H1019]/ [W.026.09] 15- April- 2021

Date of Next Calibration:

15-July-2021

PARAMETERS:

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)	
0	0.0		
4	4.2	+ 5.0	
10	10.3	+3.0	
20	19.9	- 0.5	
50	49.4	- 1.2	
100	100.1	+ 0.1	
	Tolerance Limit (%)	±10.0	

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)	
0	0.00		
10	10.17	+1.7	
20	19.88	- 0.6	
30	29.56	- 1.5	
	Tolerance Limit (%)	±10.0	

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

Mr Chan Siu Ming, Vico Manager - Inorganic

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2114769

SUB- BATCH:

C

DATE OF ISSUE:

19- Apr- 2021

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [6820 V2]

Serial No./

[00H1019]/ [W.026.09]

Equipment No.: Date of Calibration:

15- April- 2021

Date of Next Calibration:

15-July-2021

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)	
10.0	9.91	- 0.1	
20.5	20.12	- 0.4	
39.5	39.64	+ 0.1	
25.5.15	Tolerance Limit (°C)	± 2.0	

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

Mr Chan Siu Ming, Vico Manager - Inorganic

Ma Sin



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C202803

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC20-0967)

Date of Receipt / 收件日期: 7 May 2020

Description / 儀器名稱 : Air Velocity Meter

Manufacturer / 製造商 Model No. / 型號

TSI 9555-P

Serial No. / 編號

9555P0836010

Supplied By / 委託者

: Aecom Asia Co., Ltd.

13/F., Tower 2, Grand Central Plaza,

138 Shatin Rural Committee Road, Shatin, N.T.

TEST CONDITIONS / 測試條件

Temperature / 温度 : (23 ± 2) °C

Relative Humidity / 相對濕度 : (50 ± 25)%

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST/測試日期

20 to 21 May 2020

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results are detailed in the subsequent page(s).

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- South China National Centre of Metrology, China
- Agilent Technologies / Keysight Technologies
- Testo Industrial Services GmbH, Germany
- Fluke Everett Service Center, USA

Tested By 測試

TF Lee

Assistant Engineer

Certified By

核證

Min H C Chan Date of Issue 簽發日期

22 May 2020

Engineer

sed for calibration is traceable to the National Standards on specified in this certificate. This certificate shall not be reproduced except in full, without the prior

本語書所報校正用之間試器材料可開源至國際標準。局部裡日本遊書書先獲本實驗所書面批准



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The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement

Test equipment:

Equipment ID	Description	Certificate No.
CL018	Portable Calibrator	C191834
CL041 & CL041B	Digital Thermometer	C201018
CL042 & CL042B	Digital Thermometer	C201019
CL272 & CL272A	Humidity Control Chamber	C183502 & C183457
CL292	Recorder	C192930
CL316 & CL316A	Precision Multi-function Measuring Instrument	C180363
CL330	Environmental Chamber	C190296
CL360	Portable Air Pressure	RYB201909837
CL410 & CL410D	Multi Functionally Measuring Instrument & Psychrometer	C195787

Test procedure: MA006, MA103N, MA109N & MA130N.

4. Results:

4.1 Air Velocity

Applied	UUT	Measured Correction					
Value	Reading	Value Measurement Unc		Value Measurement Uncertainty		Value Measurement Uncertainty	certainty
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor			
2.00	2.10	-0.10	0.31	2.0			
4.00	4.11	-0.11	0.36	2.0			
6.03	6.21	-0.18	0.41	2.0			
8.02	8.46	-0.44	0.50	2.0			
10.01	10.95	-0.94	0.57	2.0			

The results presented are the mean of 10 measurements at each calibration point.

4.2 Temperature

Applied	UUT	Measured Correction			
Value Readin	Reading	Value Measurement Uncertainty		certainty	
(°C)	(°C)	(°C)	Expanded Uncertainty (°C)	Coverage Factor	
25.0	24.8	+0.2	0.5	2.0	

The results presented are the mean of 3 measurements at each calibration point.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be repositived except in full, without the prior written approval of this laboratory. 本消書所載較正用之劃試器材均可測原至國際標準。局部視印本讀者需失護本實驗所書而批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory cro 4.F. I Hing On Lane, Tuen Mun. New Territories, Hong Kong 瞬间上程有限公司 - 校正及传统的智慧的 cro 音應到等正字時文里 順四線 Tel智能及(85):7927-2606 Fass與底(852)-2744-8986 E-mail/電影 callable sunscreation com Website/轉址 www.sunscreation.com



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

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證書編號

4.3 Relative Humidity (23°C)

Applied	UUT	Measured Correction				
Value	Reading	Value Measurement Uncertainty				
(%)	(%)	(%)	Expanded Uncertainty (%)	Coverage Factor		
60.0	63.8	-3.8	1.5	2.0		

The results presented are the mean of 3 measurements at each calibration point.

4.4 Barometric Pressure

Applied	UUT	Measured Correction			
Value	Reading	Value Measurement Uncertainty			
(hPa)	(hPa)	(hPa)	Expanded Uncertainty (hPa)	Coverage Factor	
1 001.3	995.3	+6.0	2.0	2.0	

The results presented are the mean of 3 measurements at each calibration point.

Test Medium : Air

Remarks: - UUT Probe Model: 964

S/N: P08350010

- UUT Setting : ACTUAL/STANDARD : ACTUAL Temperature Source: Probe

The Measured Corrections are defined as: Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 95 %.

Note:

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

ent used for calibration is truccable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the p 本證書所載校正用之課試器材料可運販至國際標準。局部報印本語書畫先獲本實驗所書面批准。

APPENDIX C ENVIRONMENTAL MONITORING SCHEDULE

Appendix C - Environmental Monitoring Schedule for SJC2 Cable System

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Apr	2-Apr	3-Apr
4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr
44.00	40.4	40. A.	44.0	45.00	40.4	47.0
11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr
18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr
				WQM		WQM
			ммо	ммо	ммо	ММО
25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	
		WQM				
	ММО	ММО	ММО			

MMO : Marine Mammal Observations WQM: Water Quality Monitoring

APPENDIX D WATER QUALITY MONITORING RESULTS

Appendix D - Water Quality Monitorng Result

Water Quality Monitoring Result on 22 April 2021 - Mid-Ebb Tide

Zone	Date	Location	Weather	Sea	Sampling	Dept	h (m)	Tempera	ature (oC)	Salini	ty (ppt)	F	Н	DO Satu	ration (%)	Disso	lved Oxygen	(mg/L)	1	urbidity(NTl	J)	Suspe	ended Solids	mg/L)	W	ind	Remark
			Condition	Condition	Time			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Direction	Speed (m/s)	1
	22-Apr-21	CS1	Sunny	Moderate	21:10	Surface	1.0	21.41 21.37	21.39	36.97 36.96	36.97	8.02 8.02	8.02	101.1 101.1	101.1	7.21 7.21	7.21	7.19	3.00 3.10	3.05		5.50 5.90	5.70				No any influencing
Control Station						Middle	12.0	20.76 20.76	20.76	36.98 36.98	36.98	8.02 8.02	8.02	99.4 99.2	99.3	7.17 7.15	7.16	7.17	3.30 3.20	3.25	3.22	5.00 4.70	4.85	4.92	E	4.2	factor was observed during
						Bottom	23.0	20.77 20.78	20.78	37.00 37.00	37.00	8.02 8.01	8.02	98.9 98.8	98.9	7.13 7.12	7.13	7.13	3.30 3.40	3.35		4.30 4.10	4.20				monitoring.
	22-Apr-21	F2	Sunny	Moderate	20:37	Surface	1.0	21.33 21.35	21.34	36.97 36.96	36.97	7.99 7.99	7.99	100.9 101.1	101.0	7.20 7.22	7.21	7.17	3.30 3.20	3.25		5.40 4.80	5.10				No any influencing
						Middle	9.1	20.77 20.77	20.77	36.98 36.98	36.98	7.99 7.99	7.99	98.9 98.9	98.9	7.13 7.13	7.13	7.17	3.50 3.40	3.45	3.42	4.20 3.80	4.00	4.33	E	3.6	factor was observed during
						Bottom	17.2	20.77 20.76	20.77	36.99 36.98	36.99	7.98 7.99	7.99	98.9 98.6	98.8	7.13 7.11	7.12	<u>7.12</u>	3.60 3.50	3.55		4.00 3.80	3.90				monitoring.
	22-Apr-21	C2	Sunny	Moderate	20:09	Surface	1.0	21.21 21.17	21.19	37.02 37.00	37.01	8.04 8.05	8.05	102.2 101.9	102.1	7.31 7.29	7.30	7.26	3.00 2.90	2.95		4.00 3.80	3.90				No any influencino
						Middle	6.9	20.81 20.81	20.81	37.01 37.01	37.01	8.05 8.04	8.05	100.0 100.0	100.0	7.21 7.21	7.21	7.20	3.00 3.10	3.05	3.10	3.50 4.10	3.80	4.22	E	3.4	factor was observed during
Zone A						Bottom	12.8	20.77 20.78	20.78	37.02 37.02	37.02	8.04 8.05	8.05	99.8 99.3	99.6	7.19 7.15	7.17	<u>7.17</u>	3.30 3.30	3.30		5.30 4.60	4.95				monitoring.
Lone	22-Apr-21	G1	Sunny	Moderate	19:42	Surface	1.0	21.15 21.22	21.19	37.01 37.01	37.01	8.03 8.02	8.03	102.8 102.3	102.6	7.36 7.31	7.34	7.31	3.00 3.00	3.00		5.30 6.00	5.65				No any influencino
						Middle	3.9	20.83 20.82	20.83	37.01 37.02	37.02	8.03 8.02	8.03	101.3 101.1	101.2	7.29 7.29	7.29	7.01	3.20 3.30	3.25	3.20	4.00 3.20	3.60	4.27	E	3.6	factor was observed during
						Bottom	6.9	20.80 20.78	20.79	37.02 37.02	37.02	8.01 8.01	8.01	100.7 100.8	100.8	7.25 7.27	7.26	7.26	3.30 3.40	3.35		3.40 3.70	3.55				monitoring.
	22-Apr-21	B2	Sunny	Moderate	19:19	Surface	1.0	21.46 21.07	21.27	37.01 36.99	37.00	8.02 8.02	8.02	102.9 102.6	102.8	7.33 7.36	7.35	7.35	2.70 2.60	2.65		5.20 5.40	5.30				No any influencino
						Middle	3.2	21.08 21.00	21.04	37.03 36.99	37.01	8.01 8.01	8.01	102.1 102.3	102.2	7.34 7.35	7.35	7.33	2.80 2.80	2.80	2.75	5.30 5.10	5.20	5.03	E	3.0	factor was observed during
						Bottom	5.4	20.83 20.89	20.86	37.02 37.01	37.02	8.00 8.00	8.00	101.1 101.9	101.5	7.28 7.30	7.29	7.29	2.80 2.80	2.80		4.30 4.90	4.60				monitoring.

^{*} Depth Average Action Level Exceednaces Limit Level Exceedance

Water Quality Monitoring Result on 22 April 2021 - Mid-Flood Tide

Zone	Date	Location	Weather	Sea	Sampling	Dept	h (m)	Tempera	ature (oC)	Salinit	ty (ppt)	F	H	DO Satur	ration (%)	Disso	lved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)	W	ind	Remark
			Condition	Condition	Time			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Direction	Speed (m/s)	
	22-Apr-21	CS1	Sunny	Moderate	7:22	Surface	1.0	21.68 21.63	21.66	36.68 36.69	36.69	7.99 7.99	7.99	106.9 106.9	106.9	7.59 7.60	7.60	7.51	2.00 1.90	1.95		3.10 3.40	3.25				No any influencing
Control Station						Middle	12.2	21.05 21.03	21.04	36.80 36.79	36.80	7.97 7.97	7.97	103.4 103.6	103.5	7.42 7.44	7.43	7.51	2.30 2.30	2.30	2.22	3.40 3.30	3.35	3.90	E	4.0	factor was observed during
						Bottom	23.4	21.07 21.02	21.05	36.94 36.96	36.95	7.96 7.96	7.96	102.6 102.7	102.7	7.36 7.37	7.37	7.37	2.40 2.40	2.40		5.20 5.00	5.10				monitoring.
	22-Apr-21	F2	Sunny	Moderate	8:01	Surface	1.0	21.85 21.76	21.81	36.64 36.67	36.66	8.01 8.00	8.01	108.4 108.4	108.4	7.68 7.69	7.69	7.67	2.00 1.90	1.95		2.30 2.40	2.35				No any influencing
						Middle	9.2	21.15 21.36	21.26	36.76 36.73	36.75	8.02 8.00	8.01	106.7 107.4	107.1	7.65 7.67	7.66	7.07	2.00 2.10	2.05	2.02	2.50 3.00	2.75	2.67	E	3.6	factor was observed during
						Bottom	17.5	21.05 21.04	21.05	36.80 36.79	36.80	8.00 8.00	8.00	105.0 105.8	105.4	7.54 7.60	7.57	7.57	2.00 2.10	2.05		3.20 2.60	2.90				monitoring.
	22-Apr-21	C2	Sunny	Moderate	8:31	Surface	1.0	21.56 21.56	21.56	36.98 36.99	36.99	8.03 8.02	8.03	103.0 103.0	103.0	7.32 7.32	7.32	7.30	3.00 3.20	3.10		3.00 3.90	3.45				No any influencing
						Middle	7.0	21.26 21.23	21.25	36.99 37.00	37.00	8.03 8.02	8.03	101.7 101.9	101.8	7.27 7.29	7.28	7.30	3.30 3.20	3.25	3.27	4.60 4.10	4.35	4.12	E	3.2	factor was observed during
Zone A						Bottom	13.1	20.95 20.80	20.88	36.98 37.01	37.00	8.02 8.02	8.02	100.6 100.3	100.5	7.23 7.23	7.23	7.23	3.40 3.50	3.45	•	4.80 4.30	4.55				monitoring.
ZONEA	22-Apr-21	G1	Sunny	Moderate	8:56	Surface	1.0	21.47 21.53	21.50	36.99 36.99	36.99	8.03 8.03	8.03	102.5 102.9	102.7	7.30 7.32	7.31	7.29	3.10 3.10	3.10		4.30 3.80	4.05				No any influencing
						Middle	4.0	21.30 21.20	21.25	36.99 37.00	37.00	8.02 8.03	8.03	101.9 101.7	101.8	7.28 7.27	7.28	1.27	3.40 3.30	3.35	3.33	4.50 4.90	4.70	4.62	E	3.0	factor was observed during
						Bottom	7.0	20.80 20.82	20.81	37.01 37.00	37.01	8.03 8.02	8.03	100.4 100.5	100.5	7.23 7.24	7.24	7.24	3.50 3.60	3.55		4.80 5.40	5.10				monitoring.
	22-Apr-21	B2	Sunny	Moderate	9:12	Surface	1.0	21.53 21.54	21.54	36.99 36.99	36.99	8.03 8.04	8.04	103.3 103.2	103.3	7.34 7.34	7.34	7.34	2.90 2.90	2.90		4.20 5.00	4.60			_	No any influencing
						Middle	3.3	21.29 21.40	21.35	37.00 36.99	37.00	8.03 8.04	8.04	102.6 103.2	102.9	7.33 7.36	7.35	1.34	3.20 3.00	3.10	3.05	4.20 4.80	4.50	4.08	E	2.5	factor was observed during
						Bottom	5.5	21.19 21.07	21.13	36.98 36.97	36.98	8.02 8.02	8.02	102.5 101.6	102.1	7.33 7.29	7.31	7.31	3.10 3.20	3.15		3.30 3.00	3.15				monitoring.

* Depth Average Action Level Exceednaces Limit Level Exceedance

Water Quality Monitoring Result on 24 April 2021 - Mid-Ebb Tide

Zone	Date	Location	Weather	Sea	Sampling	Dept	h (m)	Tempera	iture (oC)	Salinit	ty (ppt)	F	Н	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)		Turbidity(NTL	J)	Suspe	nded Solids	(mg/L)	W	ind	Remark
			Condition	Condition	Time			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Direction	Speed (m/s)	
	24-Apr-21	C4/F1	Sunny	Moderate	9:33	Surface	1.0	21.50 21.49	21.50	36.88 36.89	36.89	7.99 7.97	7.98	104.2 103.1	103.7	7.42 7.34	7.38	7.34	2.30 2.40	2.35		2.40 3.00	2.70				No any influencing
Zone B						Middle	13.0	21.24 21.24	21.24	36.98 36.97	36.98	7.98 7.96	7.97	103.0 101.3	102.2	7.36 7.24	7.30	7.34	2.50 2.50	2.50	2.80	2.10 2.90	2.50	2.55	E	3.6	factor was observed during
						Bottom	25.0	21.21 21.26	21.24	36.98 36.95	36.97	7.93 7.98	7.96	100.9 102.4	101.7	7.22 7.32	7.27	7.27	2.50 2.40	2.45		2.20 2.70	2.45				monitoring.
	24-Apr-21	CS1	Sunny	Moderate	10:03	Surface	1.0	21.50 21.51	21.51	36.87 36.87	36.87	7.99 8.00	8.00	104.4 106.3	105.4	7.44 7.57	7.51	7.47	2.10 2.20	2.15		2.30 2.60	2.45				No any influencing
Control Station						Middle	12.0	21.25 21.28	21.27	36.97 36.96	36.97	7.99 8.00	8.00	103.5 104.3	103.9	7.41 7.45	7.43	7.47	2.60 2.50	2.55	2.40	2.40 2.50	2.45	2.62	Е	3.9	factor was observed during
						Bottom	23.0	21.26 21.17	21.22	36.96 36.99	36.98	7.99 7.97	7.98	103.3 101.5	102.4	7.38 7.26	7.32	7.32	2.40 2.60	2.50		2.50 3.40	2.95				monitoring.

^{*} Depth Average Action Level Exceednaces <u>Limit Level Exceedance</u>

Water Quality Monitoring Result on 24 April 2021 - Mid-Flood Tide

Zone	Date	Location	Weather	Sea	Sampling	Depti	n (m)	Tempera	iture (oC)	Salin	ity (ppt)	ļ	Н	DO Satu	ation (%)	Dissol	ved Oxygen	(mg/L)		Turbidity(NTL	J)	Suspe	ended Solids	(mg/L)	W	/ind	Remark
			Condition	Condition	Time			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Direction	Speed (m/s))
	24-Apr-21	C4/F1	Sunny	Moderate	16:47	Surface	1.0	21.46 21.47	21.47	36.85 36.86	36.86	8.05 8.04	8.05	104.2 103.9	104.1	7.42 7.44	7.43	7.42	2.60 2.70	2.65		1.60 2.50	2.05				No any influencing
Zone B						Middle	13.2	21.15 21.20	21.18	37.00 36.98	36.99	8.03 8.04	8.04	104.1 103.5	103.8	7.42 7.41	7.42	7.42	2.80 2.80	2.80	2.75	3.00 3.20	3.10	2.88	E	4.2	factor was observed during
						Bottom	25.4	21.16 21.12	21.14	36.95 36.97	36.96	8.03 8.02	8.03	101.8 100.9	101.4	7.28 7.22	7.25	7.25	2.80 2.80	2.80		3.40 3.60	3.50				monitoring.
	24-Apr-21	CS1	Sunny	Moderate	16:12	Surface	1.0	21.47 21.48	21.48	36.86 36.85	36.86	8.03 8.03	8.03	105.1 106.0	105.6	7.52 7.55	7.54	7.52	2.80 2.90	2.85		2.20 2.00	2.10				No any influencing
Control Station						Middle	12.1	21.26 21.24	21.25	36.96 36.97	36.97	8.03 8.02	8.03	105.0 105.0	105.0	7.48 7.51	7.50	7.52	2.80 2.80	2.80	2.95	2.40 2.10	2.25	2.33	E	3.6	factor was observed during
						Bottom	23.2	21.21	21.24	36.94 36.94	36.94	8.01 8.03	8.02	102.7 103.1	102.9	7.34 7.37	7.36	7.36	3.20 3.20	3.20		3.00 2.30	2.65				monitoring.

^{*} Depth Average Action Level Exceednaces Limit Level Exceedance

Water Quality Monitoring Result on 27 April 2021 - Mid-Ebb Tide

Zone	Date	Location	Weather	Sea	Sampling	Dept	h (m)	Tempera	ature (oC)	Salini	ty (ppt)		ρΗ	DO Satu	ation (%)	Disso	lved Oxygen	(mg/L)	1	urbidity(NTI	J)	Suspe	ended Solids	(mg/L)	W	ind	Remark
			Condition	Condition	Time			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Direction	Speed (m/s)	
	27-Apr-21	C4/F1	Rainy	Moderate	12:32	Surface	1.0	21.26 21.26	21.26	36.83 36.84	36.84	8.10 8.09	8.10	100.9 101.0	101.0	7.22 7.22	7.22	7.18	2.30 2.10	2.20		2.10 1.90	2.00				No any influencing
Zone B						Middle	13.2	21.17 21.16	21.17	36.94 36.95	36.95	8.09 8.08	8.09	99.6 99.8	99.7	7.13 7.15	7.14	7.10	2.50 2.50	2.50	2.80	2.40 1.90	2.15	2.12	N	1.7	factor was observed during
						Bottom	25.3	21.16 21.17	21.17	36.95 36.93	36.94	8.06 8.09	8.08	100.1 99.4	99.8	7.17 7.12	7.15	<u>7.15</u>	2.60 2.70	2.65		2.00 2.40	2.20				monitoring.
	27-Apr-21	CS1	Rainy	Moderate	12:06	Surface	1.0	21.25 21.25	21.25	36.84 36.83	36.84	8.09 8.09	8.09	100.2 101.0	100.6	7.17 7.22	7.20	7.15	2.20 2.30	2.25		2.70 2.30	2.50				No any influencing
Control Station						Middle	12.1	21.16 21.16	21.16	36.95 36.94	36.95	8.09 8.09	8.09	99.4 99.3	99.4	7.11 7.11	7.11	7.13	2.40 2.20	2.30	2.35	2.60 2.20	2.40	2.25	N	1.3	factor was observed during
						Bottom	23.2	21.15 21.16	21.16	36.96 36.95	36.96	8.07 8.09	8.08	100.2 99.9	100.1	7.17 7.15	7.16	7.16	2.40 2.60	2.50		2.10 1.60	1.85				monitoring.

^{*} Depth Average Action Level Exceednaces <u>Limit Level Exceedance</u>

Water Quality Monitor data on 27 April 2021 (Mid-Flood Tide)

Zone	Date	Location	Weather	Sea	Sampling	Dept	h (m)	Tempera	ture (oC)	Salini	ty (ppt)	ļ	Н	DO Satu	ation (%)	Disso	lved Oxygen	(mg/L)	Т	Turbidity(NTL	J)	Suspe	ended Solids	(mg/L)	W	ind	Remark
			Condition	Condition	Time			Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Direction	Speed (m/s)	
Zone B	27-Apr-21	C4/F1	Rainy	Moderate	4:51	Surface	1.0	21.15 21.15	21.15	36.97 36.97	36.97	8.04 8.05	8.05	100.4 103.0	101.7	7.19 7.38	7.29	7.24	2.40 2.50	2.45		1.50 1.80	1.65				No any influencing
(Construction Area)						Middle	13.0	21.13 21.13	21.13	37.03 37.00	37.02	8.04 8.05	8.05	100.2 100.8	100.5	7.18 7.22	7.20	7.24	2.50 2.60	2.55	2.65	3.20 2.30	2.75	2.50	E	2.1	factor was observed during
Aitea)						Bottom	25.0	21.12 21.12	21.12	37.02 37.05	37.04	8.05 8.05	8.05	99.2 99.8	99.5	7.11 7.15	7.13	7.13	3.00 2.90	2.95	•	3.60 2.60	3.10				monitoring.
	27-Apr-21	CS1	Rainy	Moderate	5:16	Surface	1.0	21.16 21.15	21.16	36.95 36.96	36.96	8.04 8.05	8.05	100.0 99.9	100.0	7.16 7.16	7.16	7.14	2.70 2.40	2.55		3.00 2.50	2.75				No any influencing
Control Station						Middle	12.0	21.15 21.14	21.15	36.97 36.99	36.98	8.02 8.05	8.04	100.2 98.7	99.5	7.18 7.07	7.13	7.14	2.50 2.60	2.55	2.57	2.80 2.20	2.50	2.48	E	0.3	factor was observed during
						Bottom	23.1	21.15 21.12	21.14	36.97 37.01	36.99	8.00 8.04	8.02	100.5 99.3	99.9	7.20 7.11	7.16	7.16	2.70 2.50	2.60		2.10 2.30	2.20				monitoring.

* Depth Average Action Level Exceednaces <u>Limit Level Exceedance</u>

APPENDIX E LABORATORY ANALYIS RESULTS

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

the testing laboratory.



Authorised results for:

CERTIFICATE OF ANALYSIS

Client : AECOM ASIA COMPANY LIMITED Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 6

Contact : MRYW FUNG Contact : Richard Fung Work Order : HK2114444

Address : 12/F, TOWER 2, GRAND CENTRAL PLAZA, NO. 138 Address : 11/F., Chung Shun Knitting Centre, 1 - 3

SHATIN RURAL COMMITTEE ROAD, SHATIN, N.T., Wing Yip Street, Kwai Chung, N.T.,

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E-mail yw.fung@aecom.com E-mail richard.fung@alsglobal.com

 Telephone
 : +852 3105 8544
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 Facsimile
 : -- Facsimile
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Project : ET SERVICES FOR SJC2 AND BTOBE CABLE PROJECTS (SJC2)

Date received : 22-Apr-2021

Signatory

Order number : — Quote number : HKE/1289/2021_V2 Date of issue : 04-May-2021

 C-O-C number
 : —

 No. of samples
 - Received
 : 72

 Site
 : —

 - Analysed
 : 72

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

Fung Lim Chee, Richard Managing Director Inorganics

Position

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group Page Number : 2 of 6

Client : AECOM ASIA COMPANY LIMITED

Work Order HK2114444



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-Apr-2021 to 04-May-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 HK2114444:

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.

Page Number : 3 of 6

Client : AECOM ASIA COMPANY LIMITED

Work Order HK2114444



Analytical Results

Sub-Matrix: WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	1.0 mg/L	 	
Sample ID	Sampling date /	Laboratory sample	EA/ED: Physical and	 	
	time	ID	Aggregate Properties		
B2/S/ Mid-Ebb	22-Apr-2021	HK2114444-001	5.2	 	
B2/S/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-002	5.4	 	
B2/M/ Mid-Ebb	22-Apr-2021	HK2114444-003	5.3	 	
B2/M/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-004	5.1	 	
B2/B/ Mid-Ebb	22-Apr-2021	HK2114444-005	4.3	 	
B2/B/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-006	4.9	 	
C2/S/ Mid-Ebb	22-Apr-2021	HK2114444-007	4.0	 	
C2/S/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-008	3.8	 	
C2/M/ Mid-Ebb	22-Apr-2021	HK2114444-009	3.5	 	
C2/M/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-010	4.1	 	
C2/B/ Mid-Ebb	22-Apr-2021	HK2114444-011	5.3	 	
C2/B/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-012	4.6	 	
C4/F1/S/ Mid-Ebb	22-Apr-2021	HK2114444-013	4.1	 	
C4/F1/S/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-014	5.0	 	
C4/F1/M/ Mid-Ebb	22-Apr-2021	HK2114444-015	3.7	 	
C4/F1/M/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-016	4.6	 	
C4/F1/B/ Mid-Ebb	22-Apr-2021	HK2114444-017	3.2	 	
C4/F1/B/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-018	3.6	 	
F2/S/ Mid-Ebb	22-Apr-2021	HK2114444-019	5.4	 	
F2/S/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-020	4.8	 	
F2/M/ Mid-Ebb	22-Apr-2021	HK2114444-021	4.2	 	
F2/M/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-022	3.8	 	
F2/B/ Mid-Ebb	22-Apr-2021	HK2114444-023	4.0	 	
F2/B/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-024	3.8	 	
G1/S/ Mid-Ebb	22-Apr-2021	HK2114444-025	5.3	 	
G1/S/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-026	6.0	 	
G1/M/ Mid-Ebb	22-Apr-2021	HK2114444-027	4.0	 	
G1/M/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-028	3.2	 	
G1/B/ Mid-Ebb	22-Apr-2021	HK2114444-029	3.4	 	
G1/B/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-030	3.7	 	
CS1/S/ Mid-Ebb	22-Apr-2021	HK2114444-031	5.5	 	

Page Number : 4 of 6

Client : AECOM ASIA COMPANY LIMITED

Work Order HK2114444



Sub-Matrix: WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	1.0 mg/L	 	
Sample ID	Sampling date /	Laboratory sample	EA/ED: Physical and Aggregate Properties	 	
	time	ID			
CS1/S/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-032	5.9	 	
CS1/M/ Mid-Ebb	22-Apr-2021	HK2114444-033	5.0	 	
CS1/M/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-034	4.7	 	
CS1/B/ Mid-Ebb	22-Apr-2021	HK2114444-035	4.3	 	
CS1/B/Duplicate Mid-Ebb	22-Apr-2021	HK2114444-036	4.1	 	
B2/S/ Mid-Flood	22-Apr-2021	HK2114444-037	4.2	 	
B2/S/Duplicate Mid-Flood	22-Apr-2021	HK2114444-038	5.0	 	
B2/M/ Mid-Flood	22-Apr-2021	HK2114444-039	4.2	 	
B2/M/Duplicate Mid-Flood	22-Apr-2021	HK2114444-040	4.8	 	
B2/B/ Mid-Flood	22-Apr-2021	HK2114444-041	3.3	 	
B2/B/Duplicate Mid-Flood	22-Apr-2021	HK2114444-042	3.0	 	
C2/S/ Mid-Flood	22-Apr-2021	HK2114444-043	3.0	 	
C2/S/Duplicate Mid-Flood	22-Apr-2021	HK2114444-044	3.9	 	
C2/M/ Mid-Flood	22-Apr-2021	HK2114444-045	4.6	 	
C2/M/Duplicate Mid-Flood	22-Apr-2021	HK2114444-046	4.1	 	
C2/B/ Mid-Flood	22-Apr-2021	HK2114444-047	4.8	 	
C2/B/Duplicate Mid-Flood	22-Apr-2021	HK2114444-048	4.3	 	
C4/F1/S/ Mid-Flood	22-Apr-2021	HK2114444-049	2.1	 	
C4/F1/S/Duplicate Mid-Flood	22-Apr-2021	HK2114444-050	2.3	 	
C4/F1/M/ Mid-Flood	22-Apr-2021	HK2114444-051	2.3	 	
C4/F1/M/Duplicate Mid-Flood	22-Apr-2021	HK2114444-052	2.6	 	
C4/F1/B/ Mid-Flood	22-Apr-2021	HK2114444-053	2.8	 	
C4/F1/B/Duplicate Mid-Flood	22-Apr-2021	HK2114444-054	3.2	 	
F2/S/ Mid-Flood	22-Apr-2021	HK2114444-055	2.3	 	
F2/S/Duplicate Mid-Flood	22-Apr-2021	HK2114444-056	2.4	 	
F2/M/ Mid-Flood	22-Apr-2021	HK2114444-057	2.5	 	
F2/M/Duplicate Mid-Flood	22-Apr-2021	HK2114444-058	3.0	 	
F2/B/ Mid-Flood	22-Apr-2021	HK2114444-059	3.2	 	
F2/B/Duplicate Mid-Flood	22-Apr-2021	HK2114444-060	2.6	 	
G1/S/ Mid-Flood	22-Apr-2021	HK2114444-061	4.3	 	
G1/S/Duplicate Mid-Flood	22-Apr-2021	HK2114444-062	3.8	 	
G1/M/ Mid-Flood	22-Apr-2021	HK2114444-063	4.5	 	
G1/M/Duplicate Mid-Flood	22-Apr-2021	HK2114444-064	4.9	 	

Page Number : 5 of 6

Client : AECOM ASIA COMPANY LIMITED

Work Order HK2114444



Sub-Matrix: WATER		Compound LOR Unit	EA025: Suspended Solids (SS) 1.0 mg/L	 	
Sample ID	Sampling date / time	Laboratory sample	EA/ED: Physical and Aggregate Properties	 	
G1/B/ Mid-Flood	22-Apr-2021	HK2114444-065	4.8	 	
G1/B/Duplicate Mid-Flood	22-Apr-2021	HK2114444-066	5.4	 	
CS1/S/ Mid-Flood	22-Apr-2021	HK2114444-067	3.1	 	
CS1/S/Duplicate Mid-Flood	22-Apr-2021	HK2114444-068	3.4	 	
CS1/M/ Mid-Flood	22-Apr-2021	HK2114444-069	3.4	 	
CS1/M/Duplicate Mid-Flood	22-Apr-2021	HK2114444-070	3.3	 	
CS1/B/ Mid-Flood	22-Apr-2021	HK2114444-071	5.2	 	
CS1/B/Duplicate Mid-Flood	22-Apr-2021	HK2114444-072	5.0	 	

Page Number : 6 of 6

Client : AECOM ASIA COMPANY LIMITED

Work Order HK2114444



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
sample ID											
EA/ED: Physical a	nd Aggregate Properties (0	QC Lot: 3640182)									
HK2114444-001	B2/S/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	5.2	5.5	6.09			
HK2114444-011	C2/B/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	5.3	5.5	4.16			
EA/ED: Physical a	nd Aggregate Properties (0	QC Lot: 3640183)									
HK2114444-021	F2/M/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	4.2	4.5	6.27			
HK2114444-031	CS1/S/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	5.5	5.7	4.01			
EA/ED: Physical a	nd Aggregate Properties (0	QC Lot: 3640184)									
HK2114444-041	B2/B/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	3.3	3.6	10.1			
HK2114444-051	C4/F1/M/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	2.3	2.7	16.9			
EA/ED: Physical a	nd Aggregate Properties (0	QC Lot: 3640185)									
HK2114444-062	G1/S/Duplicate Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	3.8	3.5	6.90			
HK2114444-071	CS1/B/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	5.2	5.7	9.22			

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

	_										
Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPDs	; (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3640182)											
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	95.0		85.9	117		
EA/ED: Physical and Aggregate Properties (QCI	_ot: 3640183)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	104		85.9	117		
EA/ED: Physical and Aggregate Properties (QCI	_ot: 3640184)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	102		85.9	117		
EA/ED: Physical and Aggregate Properties (QCI	EA/ED: Physical and Aggregate Properties (QCLot: 3640185)										
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.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

Address



Inorganics

CERTIFICATE OF ANALYSIS

Client : AECOM ASIA COMPANY LIMITED Laboratory Page · 1 of 6 : ALS Technichem (HK) Pty Ltd

HK2115426 Work Order Contact : MR Y W FUNG Contact : Richard Fung

> · 11/F., Chung Shun Knitting Centre, 1 - 3 12/F, TOWER 2, GRAND CENTRAL PLAZA, NO. 138 Address

Wing Yip Street, Kwai Chung, N.T., SHATIN RURAL COMMITTEE ROAD, SHATIN, N.T.,

Hong Kong

yw.fung@aecom.com richard.fung@alsglobal.com E-mail E-mail

+852 3105 8544 +852 2610 1044 Telephone Telephone +852 2610 2021 Facsimile Facsimile

24-Apr-2021 Project : ET SERVICES FOR SJC2 AND BTOBE CABLE PROJECTS (SJC2) Date received

Quote number 04-May-2021 Order number Date of issue : HKE/1289/2021_V2

72 C-O-C number Received No. of samples 72

Site Analysed

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Position Authorised results for: Signatory the testing laboratory.

> Fung Lim Chee, Richard **Managing Director**

Page Number : 2 of 6

Client : AECOM ASIA COMPANY LIMITED

Work Order HK2115426



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-Apr-2021 to 04-May-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 HK2115426:

Sample(s) was/ were picked up from client by ALS staff. 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.

Page Number : 3 of 6

Client : AECOM ASIA COMPANY LIMITED

Work Order HK2115426



Analytical Results

Sub-Matrix: WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	1.0 mg/L	 	
Sample ID	Sampling date /	Laboratory sample	EA/ED: Physical and	 	
	time	ID	Aggregate Properties		
B2/S/ Mid-Ebb	24-Apr-2021	HK2115426-001	3.1	 	
B2/S/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-002	2.8	 	
B2/M/ Mid-Ebb	24-Apr-2021	HK2115426-003	2.6	 	
B2/M/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-004	2.5	 	
B2/B/ Mid-Ebb	24-Apr-2021	HK2115426-005	2.8	 	
B2/B/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-006	1.9	 	
C2/S/ Mid-Ebb	24-Apr-2021	HK2115426-007	2.4	 	
C2/S/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-008	1.8	 	
C2/M/ Mid-Ebb	24-Apr-2021	HK2115426-009	1.9	 	
C2/M/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-010	2.8	 	
C2/B/ Mid-Ebb	24-Apr-2021	HK2115426-011	3.9	 	
C2/B/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-012	3.1	 	
C4/F1/S/ Mid-Ebb	24-Apr-2021	HK2115426-013	2.4	 	
C4/F1/S/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-014	3.0	 	
C4/F1/M/ Mid-Ebb	24-Apr-2021	HK2115426-015	2.1	 	
C4/F1/M/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-016	2.9	 	
C4/F1/B/ Mid-Ebb	24-Apr-2021	HK2115426-017	2.2	 	
C4/F1/B/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-018	2.7	 	
F2/S/ Mid-Ebb	24-Apr-2021	HK2115426-019	1.9	 	
F2/S/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-020	2.5	 	
F2/M/ Mid-Ebb	24-Apr-2021	HK2115426-021	2.3	 	
F2/M/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-022	2.2	 	
F2/B/ Mid-Ebb	24-Apr-2021	HK2115426-023	2.5	 	
F2/B/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-024	2.8	 	
G1/S/ Mid-Ebb	24-Apr-2021	HK2115426-025	2.8	 	
G1/S/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-026	2.6	 	
G1/M/ Mid-Ebb	24-Apr-2021	HK2115426-027	2.5	 	
G1/M/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-028	2.1	 	
G1/B/ Mid-Ebb	24-Apr-2021	HK2115426-029	2.6	 	
G1/B/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-030	2.2	 	
CS1/S/ Mid-Ebb	24-Apr-2021	HK2115426-031	2.3	 	

Page Number : 4 of 6

Client : AECOM ASIA COMPANY LIMITED



Sub-Matrix: WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	1.0 mg/L	 	
Sample ID	Sampling date /	Laboratory sample	EA/ED: Physical and	 	
	time	ID	Aggregate Properties		
CS1/S/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-032	2.6	 	
CS1/M/ Mid-Ebb	24-Apr-2021	HK2115426-033	2.4	 	
CS1/M/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-034	2.5	 	
CS1/B/ Mid-Ebb	24-Apr-2021	HK2115426-035	2.5	 	
CS1/B/Duplicate Mid-Ebb	24-Apr-2021	HK2115426-036	3.4	 	
B2/S/ Mid-Flood	24-Apr-2021	HK2115426-037	2.5	 	
B2/S/Duplicate Mid-Flood	24-Apr-2021	HK2115426-038	2.3	 	
B2/M/ Mid-Flood	24-Apr-2021	HK2115426-039	2.2	 	
B2/M/Duplicate Mid-Flood	24-Apr-2021	HK2115426-040	2.0	 	
B2/B/ Mid-Flood	24-Apr-2021	HK2115426-041	2.7	 	
B2/B/Duplicate Mid-Flood	24-Apr-2021	HK2115426-042	2.6	 	
C2/S/ Mid-Flood	24-Apr-2021	HK2115426-043	1.9	 	
C2/S/Duplicate Mid-Flood	24-Apr-2021	HK2115426-044	2.5	 	
C2/M/ Mid-Flood	24-Apr-2021	HK2115426-045	1.7	 	
C2/M/Duplicate Mid-Flood	24-Apr-2021	HK2115426-046	2.0	 	
C2/B/ Mid-Flood	24-Apr-2021	HK2115426-047	2.2	 	
C2/B/Duplicate Mid-Flood	24-Apr-2021	HK2115426-048	1.8	 	
C4/F1/S/ Mid-Flood	24-Apr-2021	HK2115426-049	1.6	 	
C4/F1/S/Duplicate Mid-Flood	24-Apr-2021	HK2115426-050	2.5	 	
C4/F1/M/ Mid-Flood	24-Apr-2021	HK2115426-051	3.0	 	
C4/F1/M/Duplicate Mid-Flood	24-Apr-2021	HK2115426-052	3.2	 	
C4/F1/B/ Mid-Flood	24-Apr-2021	HK2115426-053	3.4	 	
C4/F1/B/Duplicate Mid-Flood	24-Apr-2021	HK2115426-054	3.6	 	
F2/S/ Mid-Flood	24-Apr-2021	HK2115426-055	3.0	 	
F2/S/Duplicate Mid-Flood	24-Apr-2021	HK2115426-056	3.5	 	
F2/M/ Mid-Flood	24-Apr-2021	HK2115426-057	2.4	 	
F2/M/Duplicate Mid-Flood	24-Apr-2021	HK2115426-058	2.9	 	
F2/B/ Mid-Flood	24-Apr-2021	HK2115426-059	2.5	 	
F2/B/Duplicate Mid-Flood	24-Apr-2021	HK2115426-060	2.5	 	
G1/S/ Mid-Flood	24-Apr-2021	HK2115426-061	2.7	 	
G1/S/Duplicate Mid-Flood	24-Apr-2021	HK2115426-062	2.4	 	
G1/M/ Mid-Flood	24-Apr-2021	HK2115426-063	2.1	 	
G1/M/Duplicate Mid-Flood	24-Apr-2021	HK2115426-064	1.6	 	

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Client : AECOM ASIA COMPANY LIMITED



Sub-Matrix: WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	1.0 mg/L	 	
Sample ID	Sampling date / time	Laboratory sample	EA/ED: Physical and Aggregate Properties	 	
G1/B/ Mid-Flood	24-Apr-2021	HK2115426-065	1.7	 	
G1/B/Duplicate Mid-Flood	24-Apr-2021	HK2115426-066	1.5	 	
CS1/S/ Mid-Flood	24-Apr-2021	HK2115426-067	2.2	 	
CS1/S/Duplicate Mid-Flood	24-Apr-2021	HK2115426-068	2.0	 	
CS1/M/ Mid-Flood	24-Apr-2021	HK2115426-069	2.4	 	
CS1/M/Duplicate Mid-Flood	24-Apr-2021	HK2115426-070	2.1	 	
CS1/B/ Mid-Flood	24-Apr-2021	HK2115426-071	3.0	 	
CS1/B/Duplicate Mid-Flood	24-Apr-2021	HK2115426-072	2.3	 	

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Client : AECOM ASIA COMPANY LIMITED

Work Order HK2115426



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
sample ID											
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 3642262)									
HK2115426-001	B2/S/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	3.1	2.9	6.67			
HK2115426-011	C2/B/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	3.9	3.6	8.00			
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 3642263)									
HK2115426-021	F2/M/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	2.3	2.8	18.7			
HK2115426-031	CS1/S/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	2.3	2.3	0.00			
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 3642264)									
HK2115426-041	B2/B/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	2.7	2.8	6.33			
HK2115426-051	C4/F1/M/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	3.0	3.4	14.2			
EA/ED: Physical a	nd Aggregate Properties	(QC Lot: 3642265)									
HK2115426-061	G1/S/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	2.7	3.0	12.3			
HK2115426-071	CS1/B/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	3.0	3.0	0.00			

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

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPDs	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3642262)											
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	93.5		85.9	117		
EA/ED: Physical and Aggregate Properties (QCL	EA/ED: Physical and Aggregate Properties (QCLot: 3642263)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	96.0		85.9	117		
EA/ED: Physical and Aggregate Properties (QCL	ot: 3642264)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	103		85.9	117		
EA/ED: Physical and Aggregate Properties (QCL	EA/ED: Physical and Aggregate Properties (QCLot: 3642265)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	95.5		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

the testing laboratory.



CERTIFICATE OF ANALYSIS

Client : AECOM ASIA COMPANY LIMITED Laboratory Page · 1 of 6 : ALS Technichem (HK) Pty Ltd

: HK2115428 Work Order Contact : MR Y W FUNG Contact : Richard Fung

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27-Apr-2021 Project : ET SERVICES FOR SJC2 AND BTOBE CABLE PROJECTS (SJC2) Date received

Quote number 07-May-2021 Order number Date of issue : HKE/1289/2021_V2

72 C-O-C number Received No. of samples 72

Site Analysed

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Position Authorised results for: Signatory

Fung Lim Chee, Richard Inorganics **Managing Director**

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Client : AECOM ASIA COMPANY LIMITED

Work Order HK2115428



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 27-Apr-2021 to 07-May-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 HK2115428:

Sample(s) was/ were picked up from client by ALS staff. 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.

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Client : AECOM ASIA COMPANY LIMITED

Work Order HK2115428



Analytical Results

Sub-Matrix: WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	1.0 mg/L	 	
Sample ID	Sampling date /	Laboratory sample	EA/ED: Physical and	 	
	time	ID	Aggregate Properties		
B2/S/ Mid-Ebb	27-Apr-2021	HK2115428-001	1.6	 	
B2/S/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-002	1.2	 	
B2/M/ Mid-Ebb	27-Apr-2021	HK2115428-003	1.2	 	
B2/M/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-004	1.9	 	
B2/B/ Mid-Ebb	27-Apr-2021	HK2115428-005	2.3	 	
B2/B/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-006	3.1	 	
C2/S/ Mid-Ebb	27-Apr-2021	HK2115428-007	1.7	 	
C2/S/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-008	2.5	 	
C2/M/ Mid-Ebb	27-Apr-2021	HK2115428-009	1.7	 	
C2/M/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-010	2.0	 	
C2/B/ Mid-Ebb	27-Apr-2021	HK2115428-011	1.4	 	
C2/B/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-012	1.5	 	
C4/F1/S/ Mid-Ebb	27-Apr-2021	HK2115428-013	2.1	 	
C4/F1/S/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-014	1.9	 	
C4/F1/M/ Mid-Ebb	27-Apr-2021	HK2115428-015	2.4	 	
C4/F1/M/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-016	1.9	 	
C4/F1/B/ Mid-Ebb	27-Apr-2021	HK2115428-017	2.0	 	
C4/F1/B/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-018	2.4	 	
F2/S/ Mid-Ebb	27-Apr-2021	HK2115428-019	2.0	 	
F2/S/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-020	3.1	 	
F2/M/ Mid-Ebb	27-Apr-2021	HK2115428-021	2.8	 	
F2/M/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-022	2.4	 	
F2/B/ Mid-Ebb	27-Apr-2021	HK2115428-023	2.3	 	
F2/B/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-024	2.7	 	
G1/S/ Mid-Ebb	27-Apr-2021	HK2115428-025	2.4	 	
G1/S/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-026	2.6	 	
G1/M/ Mid-Ebb	27-Apr-2021	HK2115428-027	2.9	 	
G1/M/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-028	2.5	 	
G1/B/ Mid-Ebb	27-Apr-2021	HK2115428-029	2.8	 	
G1/B/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-030	2.9	 	
CS1/S/ Mid-Ebb	27-Apr-2021	HK2115428-031	2.7	 	

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Client : AECOM ASIA COMPANY LIMITED



Sub-Matrix: WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	1.0 mg/L	 	
Sample ID	Sampling date /	Laboratory sample	EA/ED: Physical and	 	
	time	ID	Aggregate Properties		
CS1/S/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-032	2.3	 	
CS1/M/ Mid-Ebb	27-Apr-2021	HK2115428-033	2.6	 	
CS1/M/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-034	2.2	 	
CS1/B/ Mid-Ebb	27-Apr-2021	HK2115428-035	2.1	 	
CS1/B/Duplicate Mid-Ebb	27-Apr-2021	HK2115428-036	1.6	 	
B2/S/ Mid-Flood	27-Apr-2021	HK2115428-037	1.5	 	
B2/S/Duplicate Mid-Flood	27-Apr-2021	HK2115428-038	2.0	 	
B2/M/ Mid-Flood	27-Apr-2021	HK2115428-039	3.2	 	
B2/M/Duplicate Mid-Flood	27-Apr-2021	HK2115428-040	2.5	 	
B2/B/ Mid-Flood	27-Apr-2021	HK2115428-041	2.8	 	
B2/B/Duplicate Mid-Flood	27-Apr-2021	HK2115428-042	3.4	 	
C2/S/ Mid-Flood	27-Apr-2021	HK2115428-043	2.8	 	
C2/S/Duplicate Mid-Flood	27-Apr-2021	HK2115428-044	2.3	 	
C2/M/ Mid-Flood	27-Apr-2021	HK2115428-045	2.6	 	
C2/M/Duplicate Mid-Flood	27-Apr-2021	HK2115428-046	2.7	 	
C2/B/ Mid-Flood	27-Apr-2021	HK2115428-047	1.4	 	
C2/B/Duplicate Mid-Flood	27-Apr-2021	HK2115428-048	2.0	 	
C4/F1/S/ Mid-Flood	27-Apr-2021	HK2115428-049	1.5	 	
C4/F1/S/Duplicate Mid-Flood	27-Apr-2021	HK2115428-050	1.8	 	
C4/F1/M/ Mid-Flood	27-Apr-2021	HK2115428-051	3.2	 	
C4/F1/M/Duplicate Mid-Flood	27-Apr-2021	HK2115428-052	2.3	 	
C4/F1/B/ Mid-Flood	27-Apr-2021	HK2115428-053	3.6	 	
C4/F1/B/Duplicate Mid-Flood	27-Apr-2021	HK2115428-054	2.6	 	
F2/S/ Mid-Flood	27-Apr-2021	HK2115428-055	3.5	 	
F2/S/Duplicate Mid-Flood	27-Apr-2021	HK2115428-056	2.7	 	
F2/M/ Mid-Flood	27-Apr-2021	HK2115428-057	2.2	 	
F2/M/Duplicate Mid-Flood	27-Apr-2021	HK2115428-058	2.3	 	
F2/B/ Mid-Flood	27-Apr-2021	HK2115428-059	2.0	 	
F2/B/Duplicate Mid-Flood	27-Apr-2021	HK2115428-060	2.0	 	
G1/S/ Mid-Flood	27-Apr-2021	HK2115428-061	2.5	 	
G1/S/Duplicate Mid-Flood	27-Apr-2021	HK2115428-062	2.1	 	
G1/M/ Mid-Flood	27-Apr-2021	HK2115428-063	2.8	 	
G1/M/Duplicate Mid-Flood	27-Apr-2021	HK2115428-064	2.0	 	

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Client : AECOM ASIA COMPANY LIMITED



Sub-Matrix: WATER		Compound	EA025: Suspended Solids (SS)	 	
		LOR Unit	1.0 mg/L	 	
Sample ID	Sampling date / time	Laboratory sample	EA/ED: Physical and Aggregate Properties	 	
G1/B/ Mid-Flood	27-Apr-2021	HK2115428-065	3.4	 	
G1/B/Duplicate Mid-Flood	27-Apr-2021	HK2115428-066	2.7	 	
CS1/S/ Mid-Flood	27-Apr-2021	HK2115428-067	3.0	 	
CS1/S/Duplicate Mid-Flood	27-Apr-2021	HK2115428-068	2.5	 	
CS1/M/ Mid-Flood	27-Apr-2021	HK2115428-069	2.8	 	
CS1/M/Duplicate Mid-Flood	27-Apr-2021	HK2115428-070	2.2	 	
CS1/B/ Mid-Flood	27-Apr-2021	HK2115428-071	2.1	 	
CS1/B/Duplicate Mid-Flood	27-Apr-2021	HK2115428-072	2.3	 	

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Client : AECOM ASIA COMPANY LIMITED

Work Order HK2115428



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
sample ID											
EA/ED: Physical a	nd Aggregate Propertie	es (QC Lot: 3649261)									
HK2115428-001	B2/S/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	1.6	1.8	12.1			
HK2115428-011	C2/B/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	1.4	1.6	11.6			
EA/ED: Physical a	nd Aggregate Propertie	es (QC Lot: 3649262)									
HK2115428-021	F2/M/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	2.8	2.4	14.2			
HK2115428-031	CS1/S/ Mid-Ebb	EA025: Suspended Solids (SS)		0.5	mg/L	2.7	3.3	21.7			
EA/ED: Physical a	nd Aggregate Propertie	es (QC Lot: 3649263)									
HK2115428-041	B2/B/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	2.8	3.0	6.96			
EA/ED: Physical a	nd Aggregate Propertie	es (QC Lot: 3649264)									
HK2115428-061	G1/S/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	2.5	2.8	9.52			
HK2115428-071	CS1/B/ Mid-Flood	EA025: Suspended Solids (SS)		0.5	mg/L	2.1	2.4	13.5			

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

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Rec	overy (%)	Recovery	Limits (%)	RPDs	(%)
Method: Compound CAS	Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 3649261)											
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	106		85.9	117		
EA/ED: Physical and Aggregate Properties (QCLot: 3	649262)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	110		85.9	117		
EA/ED: Physical and Aggregate Properties (QCLot: 3	649263)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	20 mg/L	106		85.9	117		
EA/ED: Physical and Aggregate Properties (QCLot: 3649264)											
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.

APPENDIX F SUMMARY OF ACTION AND LIMIT LEVELS

Appendix F - Summary of Action and Limit Levels

Action and Limit Levels Impact Water Quality Monitoring

Parameters	Action	Limit
DO in mg/L	Surface & Middle:	Surface & Middle:
	7.40	7.33
	(5th percentile of baseline data for surface	(1st percentile of baseline data for surface
	and middle layer)	and middle layer)
(Surface, Middle &		
Bottom)	Bottom:	Bottom:
	7.34	7.20
	(5th percentile of baseline data for bottom	(1st percentile of baseline data for bottom
	layer)	layer)
SS in mg/L	2.85 ^{*1}	3.39*²
(Depth-averaged)	(95th percentile of baseline data)	(99th percentile of baseline data)
	,	, , ,
Turbidity in NTU	2.60 ^{*1}	3.34 ^{*2}
(Depth-averaged)	(95th percentile of baseline data)	(99th percentile of baseline data)

^{*1} According to the Project Profile, the Action Level shall be derived as 95th percentile of baseline date, which listed on the Table, or 20% exceedance of value at any impact station with the control station.

^{*2} According to the Project Profile, the Limit Level shall be derived as 99th percentile of baseline date, which listed on the Table, or 30% exceedance of value at any impact station with the control station

APPENDIX G EVENT AND ACTION PLAN

Appendix G - Event / Action Plan for Water Quality

Event	Environmental Team	
	Repeat sampling event.	
	2. Inform EPD and AFCD and confirm notification of the non-compliance in writing.	
Action Level	 Discuss with cable installation contractor and the IEC/IC the most appropriate method of reducing suspended solids during cable installation and agree with EPD. 	
Exceedance	Repeat measurements after implementation of mitigation for confirmation of compliance.	
	 If non-compliance continues, increase measures in Step 3 and repeat measurement in Step 4. If non-compliance occurs a third time, suspend cable laying operations and continue sampling until normal water quality resumes. 	
Limit Level Exceedance	Suspend cable laying operations and undertake Step 1-4 immediately. Cable laying should only continue when the water quality shows compliance again.	